LinuxQMISDK

SLQS04.00.16

Generated by Doxygen 1.8.6

Thu Aug 16 2018 07:51:23

Contents

1 Welcome to the Sierra Wireless Linux QMI SDK API Reference Guide **1**

1.1 Important Notice 1

1.2 Limitation of Liability 1

1.3 Patents 1

1.4 Copyright 2

1.5 Trademarks 2

1.6 Contact Information 2

2 Module Index **3**

2.1 Modules 3

3 Namespace Index **5**

3.1 Namespace List 5

4 Data Structure Index **7**

4.1 Data Structures 7

5 File Index **37**

5.1 File List 37

6 Module Documentation **41**

6.1 Device Connectivity Service (DCS) 41

6.1.1 Detailed Description 41

6.2 Wireless Data Service (WDS) 42

6.2.1 Detailed Description 42

6.3 Device Management Service (DMS) 43

6.3.1 Detailed Description 43

6.4 Network Access Service (NAS) 44

6.4.1 Detailed Description 44

6.5 CallBacK registration (CBK) 45

6.5.1 Detailed Description 45

6.6 Short Message Service (SMS) 46

6.6.1 Detailed Description 46

6.7 Position Determination Service (PDS) . . . 47
6.7.1 Detailed Description . . . 47
6.8 Card Application Toolkit (CAT) . . . 48
6.8.1 Detailed Description . . . 48
6.9 Remote Management Service (RMS) . . . 49
6.9.1 Detailed Description . . . 49
6.10 Firmware Management Service (FMS) . . . 50
6.10.1 Detailed Description . . . 50
6.11 Open Mobile Alliance Service (OMA) . . . 51
6.11.1 Detailed Description . . . 51
6.12 Specific Absorption Rate (SAR) . . . 52
6.12.1 Detailed Description . . . 52
6.13 SWI Open Mobile Alliance Service (SWIOMA) . . . 53
6.13.1 Detailed Description . . . 53
6.14 Voice Service (VOICE) . . . 54
6.14.1 Detailed Description . . . 54
6.15 Non-service specific APIs (SWI) . . . 55
6.15.1 Detailed Description . . . 55
6.16 User Identity Module Service (UIM) . . . 56
6.16.1 Detailed Description . . . 56
6.17 Audio Service (AUDIO) . . . 57
6.17.1 Detailed Description . . . 57
6.18 Quality of Service (QOS) . . . 58
6.18.1 Detailed Description . . . 58
6.19 IMS Service (IMS) . . . 59
6.19.1 Detailed Description . . . 59
6.20 SWI Audio Service(SWIAUDIO) . . . 60
6.20.1 Detailed Description . . . 60
6.21 Location Service(LOC) . . . 61
6.21.1 Detailed Description . . . 61
6.22 Thermal Mitigation Device(TMD) . . . 62
6.22.1 Detailed Description . . . 62
6.23 AVMS (SWIAVMS) . . . 63
6.23.1 Detailed Description . . . 63
6.24 SWIDMS . . . 64
6.24.1 Detailed Description . . . 64

7 Namespace Documentation **65**
7.1 Tables Namespace Reference . . . 65
7.1.1 Detailed Description . . . 65

8 Data Structure Documentation **67**

8.1 _getIndicationRegResp Struct Reference . . . 67

8.1.1 Detailed Description . . . 67

8.1.2 Field Documentation . . . 68

8.1.2.1 pRegCallStatInfoEvt . . . 68

8.1.2.2 pRegTransLayerInfoEvt . . . 68

8.1.2.3 pRegTransNWRegInfoEvt . . . 68

8.2 _GetProfileSettingIn Struct Reference . . . 68

8.2.1 Detailed Description . . . 68

8.2.2 Field Documentation . . . 68

8.2.2.1 ProfileID . . . 68

8.2.2.2 ProfileType . . . 68

8.3 _GetProfileSettingOut Struct Reference . . . 68

8.3.1 Detailed Description . . . 68

8.3.2 Field Documentation . . . 69

8.3.2.1 curProfile . . . 69

8.3.2.2 pExtErrCode . . . 69

8.4 _getResetInfoNotification Struct Reference . . . 69

8.4.1 Detailed Description . . . 69

8.4.2 Field Documentation . . . 70

8.4.2.1 source . . . 70

8.4.2.2 type . . . 70

8.5 _getTransLayerInfoResp Struct Reference . . . 70

8.5.1 Detailed Description . . . 70

8.5.2 Field Documentation . . . 70

8.5.2.1 pRegInd . . . 70

8.5.2.2 pTransLayerInfo . . . 70

8.6 _getTransNWRegInfoResp Struct Reference . . . 70

8.6.1 Detailed Description . . . 70

8.6.2 Field Documentation . . . 71

8.6.2.1 pRegStatus . . . 71

8.7 _MitigationDevInfo Struct Reference . . . 71

8.7.1 Detailed Description . . . 71

8.7.2 Field Documentation . . . 71

8.7.2.1 deviceID . . . 71

8.7.2.2 deviceIdLen . . . 71

8.8 _modemTempNotification Struct Reference . . . 71

8.8.1 Detailed Description . . . 72

8.8.2 Field Documentation . . . 72

8.8.2.1 ModemTemperature . . . 72

8.8.2.2 ModemTempState . . . 72
8.9 _packetSrvStatus Struct Reference . . . 72
8.9.1 Detailed Description . . . 72
8.9.2 Field Documentation . . . 74
8.9.2.1 bearerID . . . 74
8.9.2.2 connStatus . . . 74
8.9.2.3 ipFamily . . . 74
8.9.2.4 pQmiInterfaceInfo . . . 74
8.9.2.5 reconfigReqd . . . 74
8.9.2.6 sessionEndReason . . . 74
8.9.2.7 techName . . . 74
8.9.2.8 verboseSessnEndReason . . . 74
8.9.2.9 verboseSessnEndReasonType . . . 74
8.10 _qaQmi3GPP2BroadcastCfgInfo Struct Reference . . . 74
8.10.1 Detailed Description . . . 74
8.10.2 Field Documentation . . . 75
8.10.2.1 activated_ind . . . 75
8.10.2.2 CDMABroadcastConfig . . . 75
8.10.2.3 num_instances . . . 75
8.11 _qaQmi3GPPBroadcastCfgInfo Struct Reference . . . 75
8.11.1 Detailed Description . . . 75
8.11.2 Field Documentation . . . 75
8.11.2.1 activated_ind . . . 75
8.11.2.2 broadcastConfig . . . 75
8.11.2.3 num_instances . . . 75
8.12 _QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp Struct Reference . . . 75
8.12.1 Detailed Description . . . 76
8.12.2 Field Documentation . . . 77
8.12.2.1 bBinaryType . . . 77
8.12.2.2 bSerity . . . 77
8.12.2.3 bState . . . 77
8.12.2.4 bUserInputRequest . . . 77
8.12.2.5 szDescription . . . 77
8.12.2.6 szName . . . 77
8.12.2.7 szVersion . . . 77
8.12.2.8 TlvPresent . . . 77
8.12.2.9 ulPkgDownloadComplete . . . 77
8.12.2.10 ulPkgDownloadSize . . . 77
8.12.2.11 wDescriptionLength . . . 77
8.12.2.12 wNameLength . . . 77

8.12.2.13 wUpdateCompeteStatus . . . 77
8.12.2.14 wUserInputTimeout . . . 77
8.12.2.15 wVersionLength . . . 77
8.13 _QmiSwiAvmsEventReportConfigResp Struct Reference . . . 77
8.13.1 Detailed Description . . . 77
8.13.2 Field Documentation . . . 78
8.13.2.1 bState . . . 78
8.13.2.2 bUserInputRequest . . . 78
8.13.2.3 szAlertMsg . . . 78
8.13.2.4 TlvPresent . . . 78
8.13.2.5 wAlertMsgLength . . . 78
8.13.2.6 wUserInputTimeout . . . 78
8.14 _QmiSwiAvmsEventReportConnectionRequestResp Struct Reference . . . 78
8.14.1 Detailed Description . . . 78
8.14.2 Field Documentation . . . 79
8.14.2.1 bUserInputRequest . . . 79
8.14.2.2 TlvPresent . . . 79
8.14.2.3 wUserInputTimeout . . . 79
8.15 _QmiSwiAvmsEventReportDataSessionStatusResp Struct Reference . . . 79
8.15.1 Detailed Description . . . 79
8.15.2 Field Documentation . . . 79
8.15.2.1 bType . . . 79
8.15.2.2 TlvPresent . . . 79
8.15.2.3 wErrorCode . . . 79
8.16 _QmiSwiAvmsEventReportHTTPStatusResp Struct Reference . . . 79
8.16.1 Detailed Description . . . 79
8.16.2 Field Documentation . . . 80
8.16.2.1 TlvPresent . . . 80
8.16.2.2 wHTTPStatus . . . 81
8.17 _QmiSwiAvmsEventReportNotificationResp Struct Reference . . . 81
8.17.1 Detailed Description . . . 81
8.17.2 Field Documentation . . . 81
8.17.2.1 bNotification . . . 81
8.17.2.2 TlvPresent . . . 82
8.17.2.3 wSessionStatus . . . 82
8.18 _QmiSwiAvmsEventReportPackageIDResp Struct Reference . . . 82
8.18.1 Detailed Description . . . 82
8.18.2 Field Documentation . . . 82
8.18.2.1 bPackageID . . . 82
8.18.2.2 TlvPresent . . . 82

8.19 _QmiSwiAvmsEventReportRegStatusResp Struct Reference . . . 82
8.19.1 Detailed Description . . . 82
8.19.2 Field Documentation . . . 82
8.19.2.1 bRegStatus . . . 82
8.19.2.2 TlvPresent . . . 82
8.20 _QmiSwiAvmsEventReportSessionTypeResp Struct Reference . . . 82
8.20.1 Detailed Description . . . 83
8.20.2 Field Documentation . . . 83
8.20.2.1 bType . . . 83
8.20.2.2 TlvPresent . . . 83
8.21 _QmiSwiAvmsEventReportWAMSParamChangeResp Struct Reference . . . 83
8.21.1 Detailed Description . . . 83
8.21.2 Field Documentation . . . 83
8.21.2.1 TlvPresent . . . 83
8.21.2.2 wWamsChangeMask . . . 83
8.22 _QmiSwiAvmsSetSettingsAPNInfo Struct Reference . . . 83
8.22.1 Field Documentation . . . 84
8.22.1.1 bAPNLength . . . 84
8.22.1.2 bPWDLength . . . 84
8.22.1.3 bUnameLength . . . 84
8.22.1.4 szAPN . . . 84
8.22.1.5 szPWD . . . 84
8.22.1.6 szUname . . . 84
8.23 _QmiSwiAvmsSetSettingsConnectionRetryTimers Struct Reference . . . 84
8.23.1 Field Documentation . . . 84
8.23.1.1 Timers . . . 84
8.24 _QmiSwiAvmsSetSettingsPeriodInfo Struct Reference . . . 84
8.24.1 Field Documentation . . . 84
8.24.1.1 ulMax . . . 84
8.24.1.2 ulMin . . . 84
8.25 _setIndicationRegReq Struct Reference . . . 84
8.25.1 Detailed Description . . . 85
8.25.2 Field Documentation . . . 85
8.25.2.1 pRegCallStatInfoEvt . . . 85
8.25.2.2 pRegTransLayerInfoEvt . . . 85
8.25.2.3 pRegTransNWRegInfoEvt . . . 85
8.26 _slqs3GPPConfigItem Struct Reference . . . 85
8.26.1 Detailed Description . . . 86
8.26.2 Field Documentation . . . 87
8.26.2.1 LTEAttachProfileListLen . . . 87

8.26.2.2 p3gppRelease . . . 87
8.26.2.3 pDefaultPDNEnabled . . . 87
8.26.2.4 pLTEAttachProfile . . . 87
8.26.2.5 pLTEAttachProfileList . . . 87
8.26.2.6 pProfileList . . . 87
8.27 _SLQSAVMSSetSettingsReqPara Struct Reference . . . 87
8.27.1 Detailed Description . . . 87
8.27.2 Field Documentation . . . 89
8.27.2.1 pAPNInfo . . . 89
8.27.2.2 pAutoConnect . . . 89
8.27.2.3 pAutoReboot . . . 89
8.27.2.4 pConnectionRetryTimers . . . 89
8.27.2.5 pFwAutoSDM . . . 89
8.27.2.6 pFwPromptdownload . . . 89
8.27.2.7 pFwPromptUpdate . . . 89
8.27.2.8 pNotifStore . . . 89
8.27.2.9 pPeroidInfo . . . 89
8.27.2.10 pPollingTimer . . . 89
8.28 _SLQSAVMSSetSettingsReqPara_v2 Struct Reference . . . 89
8.28.1 Detailed Description . . . 89
8.28.2 Field Documentation . . . 90
8.28.2.1 pAPNInfo . . . 90
8.28.2.2 pAutoConnect . . . 90
8.28.2.3 pAutoReboot . . . 91
8.28.2.4 pConnectionRetryTimers . . . 91
8.28.2.5 pFwAutoSDM . . . 91
8.28.2.6 pFwPromptdownload . . . 91
8.28.2.7 pFwPromptUpdate . . . 91
8.28.2.8 pNotifStore . . . 91
8.28.2.9 pPeroidInfo . . . 91
8.28.2.10 pPollingTimer . . . 91
8.29 _SLQSAVMSSettings Struct Reference . . . 91
8.29.1 Field Documentation . . . 91
8.29.1.1 pAPNInfo . . . 91
8.29.1.2 pAutoConnect . . . 91
8.29.1.3 pAutoReboot . . . 91
8.29.1.4 pConnectionRetryTimers . . . 91
8.29.1.5 pFwAutoSDM . . . 91
8.29.1.6 pFwPromptdownload . . . 91
8.29.1.7 pFwPromptUpdate . . . 91

8.29.1.8 pNotificationStore . . . 91
8.29.1.9 pOMADMEnabled . . . 91
8.29.1.10 pPeroidsInfo . . . 91
8.29.1.11 pPollingTimer . . . 92
8.30 _SLQSAVMSSettings_v2 Struct Reference . . . 92
8.30.1 Field Documentation . . . 92
8.30.1.1 pAPNInfo . . . 92
8.30.1.2 pAutoConnect . . . 92
8.30.1.3 pAutoReboot . . . 92
8.30.1.4 pConnectionRetryTimers . . . 92
8.30.1.5 pFwAutoSDM . . . 92
8.30.1.6 pFwPromptdownload . . . 92
8.30.1.7 pFwPromptUpdate . . . 92
8.30.1.8 pNotificationStore . . . 92
8.30.1.9 pOMADMEnabled . . . 92
8.30.1.10 pPeroidsInfo . . . 92
8.30.1.11 pPollingTimer . . . 92
8.31 _SLQSAVMSSettingsAPNInfo Struct Reference . . . 92
8.31.1 Field Documentation . . . 93
8.31.1.1 bAPNLength . . . 93
8.31.1.2 bPWDLength . . . 93
8.31.1.3 bUnameLength . . . 93
8.31.1.4 pAPN . . . 93
8.31.1.5 pPWD . . . 93
8.31.1.6 pUname . . . 93
8.32 _SLQSAVMSSettingsConnectionRetryTimers Struct Reference . . . 93
8.32.1 Field Documentation . . . 93
8.32.1.1 Timers . . . 93
8.33 _SLQSAVMSSettingsPeriodsInfo Struct Reference . . . 93
8.33.1 Field Documentation . . . 93
8.33.1.1 max . . . 93
8.33.1.2 min . . . 93
8.34 _SlqsNas3GppNetworkRAT_ Struct Reference . . . 93
8.34.1 Detailed Description . . . 93
8.34.2 Field Documentation . . . 94
8.34.2.1 MCC . . . 94
8.34.2.2 MNC . . . 94
8.34.2.3 RAT . . . 94
8.35 _slqsNetworkScanInfo Struct Reference . . . 94
8.35.1 Detailed Description . . . 94

8.35.2 Field Documentation . . . 95
8.35.2.1 pNetworkInfo . . . 95
8.35.2.2 pNetworkInfoInstances . . . 95
8.35.2.3 pPCSDigitInfo . . . 95
8.35.2.4 pPCSDigitInstances . . . 95
8.35.2.5 pRATInfo . . . 95
8.35.2.6 pRATInstances . . . 95
8.35.2.7 pScanResult . . . 95
8.36 _SLQSOMADMSessionInfo Struct Reference . . . 95
8.36.1 Detailed Description . . . 96
8.36.2 Field Documentation . . . 97
8.36.2.1 pDate . . . 97
8.36.2.2 pDateLength . . . 97
8.36.2.3 pPkgDescLength . . . 97
8.36.2.4 pPkgDescription . . . 97
8.36.2.5 pPkgName . . . 98
8.36.2.6 pPkgNameLength . . . 98
8.36.2.7 pRetryCount . . . 98
8.36.2.8 pSessionState . . . 98
8.36.2.9 pSessionType . . . 98
8.36.2.10 pSeverity . . . 98
8.36.2.11 pSource . . . 98
8.36.2.12 pSourceLength . . . 98
8.36.2.13 pStatus . . . 98
8.36.2.14 pTime . . . 98
8.36.2.15 pTimeLength . . . 98
8.36.2.16 pUpdateCompleteStatus . . . 98
8.37 _SLQSOMADMSettings Struct Reference . . . 98
8.37.1 Detailed Description . . . 98
8.37.2 Field Documentation . . . 99
8.37.2.1 pAutosdm . . . 99
8.37.2.2 pFOTAdownload . . . 99
8.37.2.3 pFOTAUpdate . . . 99
8.37.2.4 pFwAutoCheck . . . 99
8.37.2.5 pOMADMEnabled . . . 100
8.38 _SLQSOMADMSettingsReqParams Struct Reference . . . 100
8.38.1 Detailed Description . . . 100
8.38.2 Field Documentation . . . 100
8.38.2.1 FOTAdownload . . . 100
8.38.2.2 FOTAUpdate . . . 100

8.38.2.3 pAutosdm . . . 100
8.39 _SLQSOMADMSettingsReqParams3 Struct Reference . . . 100
8.39.1 Detailed Description . . . 101
8.39.2 Field Documentation . . . 101
8.39.2.1 FOTAdownload . . . 101
8.39.2.2 FOTAUpdate . . . 101
8.39.2.3 pAutosdm . . . 101
8.39.2.4 pFwAutoCheck . . . 101
8.40 _SLQSSwiGetHostDevInfoParams Struct Reference . . . 101
8.40.1 Detailed Description . . . 102
8.40.2 Field Documentation . . . 102
8.40.2.1 bManSize . . . 102
8.40.2.2 bModelSize . . . 102
8.40.2.3 bPlasmaIDSize . . . 102
8.40.2.4 bSWVerSize . . . 103
8.40.2.5 pManString . . . 103
8.40.2.6 pModelString . . . 103
8.40.2.7 pPlasmaIDString . . . 103
8.40.2.8 pSWVerString . . . 103
8.41 _SLQSSwiGetOSInfoParams Struct Reference . . . 103
8.41.1 Detailed Description . . . 103
8.41.2 Field Documentation . . . 103
8.41.2.1 bNameSize . . . 103
8.41.2.2 bVersionSize . . . 103
8.41.2.3 pNameString . . . 103
8.41.2.4 pVersionString . . . 103
8.42 _SLQSSwiGetSerialNoExtParams Struct Reference . . . 103
8.42.1 Detailed Description . . . 104
8.42.2 Field Documentation . . . 104
8.42.2.1 meidLength . . . 104
8.42.2.2 pMeidString . . . 104
8.43 _SLQSSwiSetHostDevInfoParams Struct Reference . . . 104
8.43.1 Detailed Description . . . 104
8.43.2 Field Documentation . . . 105
8.43.2.1 bManSize . . . 105
8.43.2.2 bModelSize . . . 105
8.43.2.3 bPlasmaIDSize . . . 105
8.43.2.4 bSWVerSize . . . 105
8.43.2.5 pManString . . . 105
8.43.2.6 pModelString . . . 105

8.43.2.7 pPlasmaIDString . . . 105
8.43.2.8 pSWVerString . . . 105
8.44 _SLQSSwiSetOSInfoParams Struct Reference . . . 105
8.44.1 Detailed Description . . . 105
8.44.2 Field Documentation . . . 106
8.44.2.1 bNameSize . . . 106
8.44.2.2 bVersionSize . . . 106
8.44.2.3 pNameString . . . 106
8.44.2.4 pVersionString . . . 106
8.45 _SwiAvmsEventInd Struct Reference . . . 106
8.45.1 Field Documentation . . . 106
8.45.1.1 BinaryUpdateSessionInfo . . . 106
8.45.1.2 Config . . . 106
8.45.1.3 ConnectionRequest . . . 106
8.45.1.4 DataSessionStatus . . . 106
8.45.1.5 HTTPStatus . . . 106
8.45.1.6 Notification . . . 107
8.45.1.7 PackageID . . . 107
8.45.1.8 RegStatus . . . 107
8.45.1.9 SessionType . . . 107
8.45.1.10 WAMSParaChanged . . . 107
8.46 _sysSelectPrefExtInfo Struct Reference . . . 107
8.46.1 Detailed Description . . . 107
8.46.2 Field Documentation . . . 108
8.46.2.1 pAcqOrderPref . . . 108
8.46.2.2 pCiotAcqOrderPref . . . 108
8.46.2.3 pCiotLteOpModePref . . . 108
8.46.2.4 pLteM1BandPref . . . 108
8.46.2.5 pLteNb1BandPref . . . 108
8.46.2.6 pNr5gBandPref . . . 108
8.46.2.7 pRatDisabledMask . . . 108
8.46.2.8 pSysSelectPrefInfo . . . 108
8.47 _sysSelectPrefInfo Struct Reference . . . 108
8.47.1 Detailed Description . . . 108
8.47.2 Field Documentation . . . 113
8.47.2.1 pBandPref . . . 113
8.47.2.2 pEmerMode . . . 113
8.47.2.3 pGWAcqOrderPref . . . 113
8.47.2.4 pLTEBandPref . . . 113
8.47.2.5 pModePref . . . 113

8.47.2.6 pNetSelPref . . . 113
8.47.2.7 pPRLPref . . . 113
8.47.2.8 pRoamPref . . . 113
8.47.2.9 pSrvDomainPref . . . 113
8.48 _sysSelectPrefParams Struct Reference . . . 114
8.48.1 Detailed Description . . . 114
8.48.2 Field Documentation . . . 119
8.48.2.1 pAcqOrderPref . . . 119
8.48.2.2 pBandPref . . . 119
8.48.2.3 pChgDuration . . . 119
8.48.2.4 pCSGID . . . 119
8.48.2.5 pEmerMode . . . 119
8.48.2.6 pGWAcqOrderPref . . . 119
8.48.2.7 pLTEBandPref . . . 119
8.48.2.8 pMNCIncPCSDigStat . . . 119
8.48.2.9 pModePref . . . 119
8.48.2.10 pNetSelPref . . . 119
8.48.2.11 pPRLPref . . . 120
8.48.2.12 pRAT . . . 120
8.48.2.13 pRoamPref . . . 120
8.48.2.14 pSrvDomainPref . . . 120
8.48.2.15 pSrvRegRestriction . . . 120
8.48.2.16 pTdscdmaBandPref . . . 120
8.49 _transLayerinfo Struct Reference . . . 120
8.49.1 Detailed Description . . . 120
8.49.2 Field Documentation . . . 120
8.49.2.1 TransCap . . . 120
8.49.2.2 TransType . . . 120
8.50 _transLayerInfoNotification Struct Reference . . . 120
8.50.1 Detailed Description . . . 120
8.50.2 Field Documentation . . . 121
8.50.2.1 pTransLayerInfo . . . 121
8.50.2.2 regInd . . . 121
8.51 _transNWRegInfoNotification Struct Reference . . . 121
8.51.1 Detailed Description . . . 121
8.51.2 Field Documentation . . . 121
8.51.2.1 NWRegStat . . . 121
8.52 accelAcceptReady_s Struct Reference . . . 122
8.52.1 Detailed Description . . . 122
8.52.2 Field Documentation . . . 122

8.52.2.1 batchPerSec . . . 122
8.52.2.2 injectEnable . . . 122
8.52.2.3 samplesPerBatch . . . 122
8.53 accelTempAcceptReady_s Struct Reference . . . 122
8.53.1 Detailed Description . . . 122
8.53.2 Field Documentation . . . 123
8.53.2.1 batchPerSec . . . 123
8.53.2.2 injectEnable . . . 123
8.53.2.3 samplesPerBatch . . . 123
8.54 acqOrderPref Struct Reference . . . 123
8.54.1 Detailed Description . . . 123
8.54.2 Field Documentation . . . 124
8.54.2.1 acqOrdeLen . . . 124
8.54.2.2 pAcqOrder . . . 124
8.55 AcqOrderPrefTlv Struct Reference . . . 124
8.55.1 Detailed Description . . . 124
8.55.2 Field Documentation . . . 124
8.55.2.1 acqOrdeLen . . . 124
8.55.2.2 pAcqOrder . . . 124
8.55.2.3 TlvPresent . . . 124
8.56 ActPilotPNElement Struct Reference . . . 124
8.56.1 Detailed Description . . . 125
8.56.2 Field Documentation . . . 125
8.56.2.1 ActSetPilotPN . . . 125
8.56.2.2 ActSetPilotPNStrength . . . 125
8.57 AddCDMASysInfo Struct Reference . . . 125
8.57.1 Detailed Description . . . 125
8.57.2 Field Documentation . . . 125
8.57.2.1 geoSysIdx . . . 125
8.57.2.2 regPrd . . . 125
8.58 AddSysInfo Struct Reference . . . 125
8.58.1 Detailed Description . . . 126
8.58.2 Field Documentation . . . 126
8.58.2.1 cellBroadcastCap . . . 126
8.58.2.2 geoSysIdx . . . 126
8.59 airTimer Struct Reference . . . 126
8.59.1 Detailed Description . . . 126
8.59.2 Field Documentation . . . 127
8.59.2.1 airTimerValue . . . 127
8.59.2.2 namID . . . 127

8.60 allCallsAlphaIDInfo Struct Reference . . . 127
8.60.1 Detailed Description . . . 127
8.60.2 Field Documentation . . . 127
8.60.2.1 AlphaIDInfo . . . 127
8.60.2.2 callID . . . 127
8.61 allCallsDiagInfo Struct Reference . . . 127
8.61.1 Detailed Description . . . 127
8.61.2 Field Documentation . . . 128
8.61.2.1 callID . . . 128
8.61.2.2 DiagInfo . . . 128
8.62 allCallsUUSInfo Struct Reference . . . 128
8.62.1 Detailed Description . . . 128
8.62.2 Field Documentation . . . 128
8.62.2.1 callID . . . 128
8.62.2.2 uusInfo . . . 128
8.63 alphaIDInfo Struct Reference . . . 128
8.63.1 Detailed Description . . . 128
8.63.2 Field Documentation . . . 129
8.63.2.1 alphaDcs . . . 129
8.63.2.2 alphaLen . . . 129
8.63.2.3 alphaText . . . 129
8.64 altitudeSrcInfo Struct Reference . . . 129
8.64.1 Detailed Description . . . 129
8.64.2 Field Documentation . . . 130
8.64.2.1 coverage . . . 130
8.64.2.2 linkage . . . 130
8.64.2.3 source . . . 130
8.65 altSrcInfo_t Struct Reference . . . 130
8.65.1 Detailed Description . . . 130
8.65.2 Field Documentation . . . 131
8.65.2.1 coverage . . . 131
8.65.2.2 linkage . . . 131
8.65.2.3 source . . . 131
8.66 appStats Struct Reference . . . 131
8.66.1 Detailed Description . . . 131
8.66.2 Field Documentation . . . 133
8.66.2.1 aidLength . . . 133
8.66.2.2 aidVal . . . 133
8.66.2.3 appState . . . 134
8.66.2.4 appType . . . 134

8.66.2.5 persoFeature . . . 134
8.66.2.6 persoRetries . . . 134
8.66.2.7 persoState . . . 134
8.66.2.8 persoUnblockRetries . . . 134
8.66.2.9 pin1Retries . . . 134
8.66.2.10 pin1State . . . 134
8.66.2.11 pin2Retries . . . 134
8.66.2.12 pin2State . . . 134
8.66.2.13 puk1Retries . . . 134
8.66.2.14 puk2Retries . . . 134
8.66.2.15 univPin . . . 134
8.67 appStatus Struct Reference . . . 134
8.67.1 Detailed Description . . . 134
8.67.2 Field Documentation . . . 136
8.67.2.1 aidLength . . . 136
8.67.2.2 aidVal . . . 136
8.67.2.3 appState . . . 137
8.67.2.4 appType . . . 137
8.67.2.5 persoFeature . . . 137
8.67.2.6 persoRetries . . . 137
8.67.2.7 persoState . . . 137
8.67.2.8 persoUnblockRetries . . . 137
8.67.2.9 pin1Retries . . . 137
8.67.2.10 pin1State . . . 137
8.67.2.11 pin2Retries . . . 137
8.67.2.12 pin2State . . . 137
8.67.2.13 puk1Retries . . . 137
8.67.2.14 puk2Retries . . . 137
8.67.2.15 univPin . . . 137
8.68 arrAlertingPattern Struct Reference . . . 137
8.68.1 Detailed Description . . . 137
8.68.2 Field Documentation . . . 138
8.68.2.1 alertingPattern . . . 138
8.68.2.2 callID . . . 138
8.68.2.3 numInstances . . . 138
8.69 arrAlertingType Struct Reference . . . 138
8.69.1 Detailed Description . . . 138
8.69.2 Field Documentation . . . 139
8.69.2.1 AlertingType . . . 139
8.69.2.2 callID . . . 139

8.69.2.3 numInstances . . . 139
8.70 arrAlphaID Struct Reference . . . 139
8.70.1 Detailed Description . . . 139
8.70.2 Field Documentation . . . 139
8.70.2.1 allCallsAlphaIDInfoArr . . . 139
8.70.2.2 numInstances . . . 139
8.71 arrCalledPartyNum Struct Reference . . . 139
8.71.1 Detailed Description . . . 140
8.71.2 Field Documentation . . . 140
8.71.2.1 CalledPartyNum . . . 140
8.71.2.2 numInstances . . . 140
8.72 arrCallEndReason Struct Reference . . . 140
8.72.1 Detailed Description . . . 140
8.72.2 Field Documentation . . . 140
8.72.2.1 callEndReason . . . 140
8.72.2.2 callID . . . 141
8.72.2.3 numInstances . . . 141
8.73 arrCallInfo Struct Reference . . . 141
8.73.1 Detailed Description . . . 141
8.73.2 Field Documentation . . . 141
8.73.2.1 getAllCallInfo . . . 141
8.73.2.2 numInstances . . . 141
8.74 arrConnectPartyNum Struct Reference . . . 141
8.74.1 Detailed Description . . . 141
8.74.2 Field Documentation . . . 142
8.74.2.1 ConnectedPartyNum . . . 142
8.74.2.2 numInstances . . . 142
8.75 arrDiagInfo Struct Reference . . . 142
8.75.1 Detailed Description . . . 142
8.75.2 Field Documentation . . . 142
8.75.2.1 DiagInfo . . . 142
8.75.2.2 numInstances . . . 142
8.76 arrRedirPartyNum Struct Reference . . . 142
8.76.1 Detailed Description . . . 142
8.76.2 Field Documentation . . . 143
8.76.2.1 numInstances . . . 143
8.76.2.2 RedirPartyNum . . . 143
8.77 arrRemotePartyName Struct Reference . . . 143
8.77.1 Detailed Description . . . 143
8.77.2 Field Documentation . . . 143

8.77.2.1 GetAllCallRmtPtyName . . . 143
8.77.2.2 numInstances . . . 143
8.78 arrRemotePartyNum Struct Reference . . . 143
8.78.1 Detailed Description . . . 143
8.78.2 Field Documentation . . . 144
8.78.2.1 numInstances . . . 144
8.78.2.2 RmtPtyNum . . . 144
8.79 arrSvcOption Struct Reference . . . 144
8.79.1 Detailed Description . . . 144
8.79.2 Field Documentation . . . 144
8.79.2.1 callID . . . 144
8.79.2.2 numInstances . . . 144
8.79.2.3 srvOption . . . 144
8.80 arrUUSInfo Struct Reference . . . 144
8.80.1 Detailed Description . . . 145
8.80.2 Field Documentation . . . 145
8.80.2.1 AllCallsUUSInfo . . . 145
8.80.2.2 numInstances . . . 145
8.81 authenticateResult Struct Reference . . . 145
8.81.1 Detailed Description . . . 145
8.81.2 Field Documentation . . . 145
8.81.2.1 content . . . 145
8.81.2.2 contentLen . . . 145
8.82 authenticationData Struct Reference . . . 146
8.82.1 Detailed Description . . . 146
8.82.2 Field Documentation . . . 146
8.82.2.1 context . . . 146
8.82.2.2 data . . . 146
8.82.2.3 dataLen . . . 146
8.83 BandCapabilityResp Struct Reference . . . 147
8.83.1 Detailed Description . . . 147
8.83.2 Field Documentation . . . 150
8.83.2.1 bandCapability . . . 150
8.83.2.2 pLteBandCapability . . . 150
8.83.2.3 pTdsBandCapability . . . 150
8.84 BdsSV Struct Reference . . . 150
8.84.1 Detailed Description . . . 150
8.84.2 Field Documentation . . . 150
8.84.2.1 id . . . 150
8.84.2.2 mask . . . 150

8.85 BdsSVInfo Struct Reference . . . 150
8.85.1 Detailed Description . . . 151
8.85.2 Field Documentation . . . 151
8.85.2.1 len . . . 151
8.85.2.2 pSV . . . 151
8.86 BroadcastConfig Struct Reference . . . 151
8.86.1 Detailed Description . . . 151
8.86.2 Field Documentation . . . 152
8.86.2.1 fromServiceId . . . 152
8.86.2.2 selected . . . 152
8.86.2.3 toServiceId . . . 152
8.87 burstDTMFInfo Struct Reference . . . 152
8.87.1 Detailed Description . . . 152
8.87.2 Field Documentation . . . 152
8.87.2.1 digitCnt . . . 152
8.87.2.2 pCallID . . . 152
8.87.2.3 pDigitBuff . . . 152
8.88 CallBarringSysInfo Struct Reference . . . 152
8.88.1 Detailed Description . . . 153
8.88.2 Field Documentation . . . 153
8.88.2.1 csBarStatus . . . 153
8.88.2.2 psBarStatus . . . 153
8.89 callBarStatus Struct Reference . . . 153
8.89.1 Detailed Description . . . 153
8.89.2 Field Documentation . . . 154
8.89.2.1 csBarStatus . . . 154
8.89.2.2 psBarStatus . . . 154
8.90 calledPartyInfo Struct Reference . . . 154
8.90.1 Detailed Description . . . 154
8.90.2 Field Documentation . . . 155
8.90.2.1 number . . . 155
8.90.2.2 numLen . . . 155
8.90.2.3 numPlan . . . 155
8.90.2.4 numType . . . 156
8.90.2.5 PI . . . 156
8.90.2.6 SI . . . 156
8.91 calledPartySubAdd Struct Reference . . . 156
8.91.1 Detailed Description . . . 156
8.91.2 Field Documentation . . . 156
8.91.2.1 extBit . . . 156

8.91.2.2 oddEvenInd . . . 156
8.91.2.3 subAddr . . . 156
8.91.2.4 subAddrLen . . . 156
8.91.2.5 subAddrType . . . 157
8.92 callerIDInfo Struct Reference . . . 157
8.92.1 Detailed Description . . . 157
8.92.2 Field Documentation . . . 157
8.92.2.1 callerID . . . 157
8.92.2.2 callerIDLen . . . 157
8.92.2.3 PI . . . 157
8.93 callFwdTypeAndPlan Struct Reference . . . 157
8.93.1 Detailed Description . . . 157
8.93.2 Field Documentation . . . 158
8.93.2.1 numberPlan . . . 158
8.93.2.2 numberType . . . 158
8.94 callFWExtInfo Struct Reference . . . 158
8.94.1 Detailed Description . . . 158
8.94.2 Field Documentation . . . 160
8.94.2.1 noReplyTimer . . . 160
8.94.2.2 number . . . 160
8.94.2.3 numLen . . . 160
8.94.2.4 numPlan . . . 160
8.94.2.5 numType . . . 160
8.94.2.6 PI . . . 160
8.94.2.7 SI . . . 160
8.94.2.8 SvcClass . . . 160
8.94.2.9 SvcStatus . . . 160
8.95 callFWInfo Struct Reference . . . 160
8.95.1 Detailed Description . . . 160
8.95.2 Field Documentation . . . 161
8.95.2.1 noReplyTimer . . . 161
8.95.2.2 number . . . 161
8.95.2.3 numLen . . . 161
8.95.2.4 SvcClass . . . 161
8.95.2.5 SvcStatus . . . 161
8.96 callInfo Struct Reference . . . 161
8.96.1 Detailed Description . . . 161
8.96.2 Field Documentation . . . 162
8.96.2.1 callID . . . 162
8.96.2.2 callState . . . 163

8.96.2.3 callType . . . 163
8.96.2.4 direction . . . 163
8.96.2.5 mode . . . 163
8.97 callingPartyInfo Struct Reference . . . 163
8.97.1 Detailed Description . . . 163
8.97.2 Field Documentation . . . 164
8.97.2.1 number . . . 164
8.97.2.2 numLen . . . 164
8.97.2.3 numPlan . . . 164
8.97.2.4 numType . . . 164
8.97.2.5 PI . . . 164
8.97.2.6 SI . . . 164
8.98 cardResult Struct Reference . . . 164
8.98.1 Detailed Description . . . 165
8.98.2 Field Documentation . . . 165
8.98.2.1 sw1 . . . 165
8.98.2.2 sw2 . . . 165
8.99 cardStatus Struct Reference . . . 165
8.99.1 Detailed Description . . . 165
8.99.2 Field Documentation . . . 166
8.99.2.1 index1xPri . . . 166
8.99.2.2 index1xSec . . . 166
8.99.2.3 indexGwPri . . . 166
8.99.2.4 indexGwSec . . . 166
8.99.2.5 numSlot . . . 166
8.99.2.6 SlotInfo . . . 166
8.100 CarrierImage_t Struct Reference . . . 166
8.100.1 Detailed Description . . . 166
8.100.2 Field Documentation . . . 167
8.100.2.1 m_FwBuildId . . . 167
8.100.2.2 m_FwImageId . . . 167
8.100.2.3 m_nCarrierId . . . 167
8.100.2.4 m_nFolderId . . . 167
8.100.2.5 m_nStorage . . . 167
8.100.2.6 m_PriBuildId . . . 167
8.100.2.7 m_PriImageId . . . 167
8.101 CatAlPhaIdentifierTlv Struct Reference . . . 167
8.101.1 Detailed Description . . . 168
8.101.2 Field Documentation . . . 168
8.101.2.1 AlphaID . . . 168

8.101.2.2 AlphaIDLength . . . 168
8.101.2.3 ReferenceID . . . 168
8.102 CatCommonEventTlv Struct Reference . . . 168
8.102.1 Field Documentation . . . 168
8.102.1.1 CatEvent . . . 168
8.102.1.2 EventID . . . 168
8.102.1.3 EventLength . . . 168
8.102.1.4 TlvPresent . . . 168
8.103 CatEndProactiveSessionTlv Struct Reference . . . 168
8.103.1 Detailed Description . . . 168
8.103.2 Field Documentation . . . 169
8.103.2.1 EndProactiveSession . . . 169
8.104 CATEventDataType Struct Reference . . . 169
8.104.1 Field Documentation . . . 169
8.104.1.1 eventMask . . . 169
8.104.1.2 pErrorMask . . . 169
8.105 CatEventIDDataTlv Struct Reference . . . 169
8.105.1 Detailed Description . . . 169
8.105.2 Field Documentation . . . 169
8.105.2.1 Data . . . 169
8.105.2.2 DataLength . . . 169
8.105.2.3 ReferenceID . . . 169
8.106 CatEventListTlv Struct Reference . . . 169
8.106.1 Detailed Description . . . 170
8.106.2 Field Documentation . . . 170
8.106.2.1 SetupEventList . . . 170
8.107 CatRefreshTlv Struct Reference . . . 170
8.107.1 Detailed Description . . . 170
8.107.2 Field Documentation . . . 170
8.107.2.1 RefreshMode . . . 170
8.107.2.2 RefreshStage . . . 170
8.108 ccSUPSType Struct Reference . . . 170
8.108.1 Detailed Description . . . 171
8.108.2 Field Documentation . . . 171
8.108.2.1 reason . . . 171
8.108.2.2 svcType . . . 171
8.109 CDMABroadcastConfig Struct Reference . . . 171
8.109.1 Detailed Description . . . 171
8.109.2 Field Documentation . . . 172
8.109.2.1 language . . . 172

8.109.2.2 selected . . . 172
8.109.2.3 serviceCategory . . . 172
8.110 CDMAChannel Struct Reference . . . 172
8.110.1 Detailed Description . . . 172
8.110.2 Field Documentation . . . 172
8.110.2.1 priChA . . . 172
8.110.2.2 priChB . . . 172
8.110.2.3 secChA . . . 173
8.110.2.4 secChB . . . 173
8.111 CDMAECIOThresh Struct Reference . . . 173
8.111.1 Detailed Description . . . 173
8.111.2 Field Documentation . . . 173
8.111.2.1 CDMAECIOThreshListLen . . . 173
8.111.2.2 pCDMAECIOThreshList . . . 173
8.112 CDMAInfo Struct Reference . . . 173
8.112.1 Detailed Description . . . 173
8.112.2 Field Documentation . . . 174
8.112.2.1 baseId . . . 174
8.112.2.2 baseLat . . . 174
8.112.2.3 baseLong . . . 174
8.112.2.4 nid . . . 174
8.112.2.5 refpn . . . 174
8.112.2.6 sid . . . 174
8.113 cdmaMsgDecodingParams Struct Reference . . . 174
8.113.1 Detailed Description . . . 175
8.113.2 Field Documentation . . . 176
8.113.2.1 absoluteValidity . . . 176
8.113.2.2 mcTimeStamp . . . 176
8.113.2.3 messageLength . . . 176
8.113.2.4 pAlertPriority . . . 176
8.113.2.5 pCallbkAddr . . . 176
8.113.2.6 pCallbkAddrLength . . . 176
8.113.2.7 pDisplayMode . . . 176
8.113.2.8 pLanguage . . . 177
8.113.2.9 pMessage . . . 177
8.113.2.10 pMessageID . . . 177
8.113.2.11 pPriority . . . 177
8.113.2.12 pPrivacy . . . 177
8.113.2.13 pReadAcknowledgementReq . . . 177
8.113.2.14 pRelativeValidity . . . 177

8.113.2.15 pSenderAddr . . . 177
8.113.2.16 pSenderAddrLength . . . 177
8.113.2.17 pTextMsg . . . 177
8.113.2.18 pTextMsgLength . . . 177
8.113.2.19 pUserAcknowledgementReq . . . 177
8.114 cdmaMsgDecodingParamsExt Struct Reference . . . 177
8.114.1 Detailed Description . . . 178
8.114.2 Field Documentation . . . 179
8.114.2.1 absoluteValidity . . . 179
8.114.2.2 mcTimeStamp . . . 179
8.114.2.3 messageLength . . . 180
8.114.2.4 pAlertPriority . . . 180
8.114.2.5 pCallbkAddr . . . 180
8.114.2.6 pCallbkAddrLength . . . 180
8.114.2.7 pDisplayMode . . . 180
8.114.2.8 pIsUDHPresent . . . 180
8.114.2.9 pLanguage . . . 180
8.114.2.10 pMessage . . . 180
8.114.2.11 pMessageID . . . 180
8.114.2.12 pPartNum . . . 180
8.114.2.13 pPriority . . . 180
8.114.2.14 pPrivacy . . . 180
8.114.2.15 pReadAcknowledgementReq . . . 180
8.114.2.16 pReferenceNum . . . 180
8.114.2.17 pRelativeValidity . . . 180
8.114.2.18 pSenderAddr . . . 180
8.114.2.19 pSenderAddrLength . . . 180
8.114.2.20 pTextMsg . . . 180
8.114.2.21 pTextMsgLength . . . 180
8.114.2.22 pTotalNum . . . 180
8.114.2.23 pUserAcknowledgementReq . . . 180
8.115 cdmaMsgEncodingParams Struct Reference . . . 180
8.115.1 Detailed Description . . . 181
8.115.2 Field Documentation . . . 182
8.115.2.1 messageId . . . 182
8.115.2.2 pCallbackAddr . . . 182
8.115.2.3 pDestAddr . . . 182
8.115.2.4 pEncodingAlphabet . . . 182
8.115.2.5 pMessage . . . 182
8.115.2.6 pMessageSize . . . 182

8.115.2.7 pPriority . . . 182
8.115.2.8 pRelValidity . . . 182
8.115.2.9 pTextMsg . . . 182
8.115.2.10 textMsgLength . . . 182
8.116 CDMARSSIThresh Struct Reference . . . 182
8.116.1 Detailed Description . . . 182
8.116.2 Field Documentation . . . 182
8.116.2.1 CDMARSSIThreshListLen . . . 182
8.116.2.2 pCDMARSSIThreshList . . . 182
8.117 CDMASSInfo Struct Reference . . . 182
8.117.1 Detailed Description . . . 183
8.117.2 Field Documentation . . . 183
8.117.2.1 ecio . . . 183
8.117.2.2 rssi . . . 183
8.118 cdmaSSInfo Struct Reference . . . 183
8.118.1 Detailed Description . . . 183
8.118.2 Field Documentation . . . 183
8.118.2.1 ecio . . . 183
8.118.2.2 rssi . . . 184
8.119 CDMASysInfo Struct Reference . . . 184
8.119.1 Detailed Description . . . 184
8.119.2 Field Documentation . . . 186
8.119.2.1 baseId . . . 186
8.119.2.2 baseLat . . . 187
8.119.2.3 baseLong . . . 187
8.119.2.4 bsInfoValid . . . 187
8.119.2.5 bsPRev . . . 187
8.119.2.6 bsPRevValid . . . 187
8.119.2.7 ccsSupported . . . 187
8.119.2.8 ccsSupportedValid . . . 187
8.119.2.9 cdmaSysIdValid . . . 187
8.119.2.10 isSysPrlMatch . . . 187
8.119.2.11 isSysPrlMatchValid . . . 187
8.119.2.12 MCC . . . 187
8.119.2.13 MNC . . . 187
8.119.2.14 networkID . . . 187
8.119.2.15 networkIdValid . . . 187
8.119.2.16 packetZone . . . 187
8.119.2.17 packetZoneValid . . . 187
8.119.2.18 pRevInUse . . . 187

8.119.2.19 pRevInUseValid . . . 187
8.119.2.20 sysInfoCDMA . . . 187
8.119.2.21 systemID . . . 187
8.120 CDMASysInfoExt Struct Reference . . . 187
8.120.1 Detailed Description . . . 187
8.120.2 Field Documentation . . . 188
8.120.2.1 imsi_11_12 . . . 188
8.120.2.2 MCC . . . 188
8.121 CellDb Struct Reference . . . 188
8.121.1 Detailed Description . . . 188
8.121.2 Field Documentation . . . 188
8.121.2.1 mask . . . 188
8.122 cellParams Struct Reference . . . 188
8.122.1 Detailed Description . . . 189
8.122.2 Field Documentation . . . 189
8.122.2.1 pci . . . 189
8.122.2.2 rsrp . . . 189
8.122.2.3 rsrq . . . 189
8.122.2.4 rssi . . . 189
8.122.2.5 srxlev . . . 189
8.123 changeUIMPIN Struct Reference . . . 189
8.123.1 Detailed Description . . . 190
8.123.2 Field Documentation . . . 190
8.123.2.1 oldPINLen . . . 190
8.123.2.2 oldPINVal . . . 190
8.123.2.3 pinID . . . 190
8.123.2.4 pinLen . . . 190
8.123.2.5 pinVal . . . 190
8.124 ChannelRate Struct Reference . . . 190
8.124.1 Detailed Description . . . 190
8.124.2 Field Documentation . . . 191
8.124.2.1 CurrChanRxRate . . . 191
8.124.2.2 CurrChanTxRate . . . 191
8.124.2.3 MaxChanRxRate . . . 191
8.124.2.4 MaxChanTxRate . . . 191
8.125 channelRate Struct Reference . . . 191
8.125.1 Detailed Description . . . 191
8.125.2 Field Documentation . . . 191
8.125.2.1 CurrChanRxRate . . . 191
8.125.2.2 CurrChanTxRate . . . 191

8.126 ciotAcqOrderPref Struct Reference . . . 191
8.126.1 Detailed Description . . . 192
8.126.2 Field Documentation . . . 192
8.126.2.1 ciotAcqOrderLen . . . 192
8.126.2.2 pCiotAcqOrder . . . 192
8.127 CiotAcqOrderPrefTlv Struct Reference . . . 192
8.127.1 Detailed Description . . . 192
8.127.2 Field Documentation . . . 193
8.127.2.1 ciotAcqOrderLen . . . 193
8.127.2.2 pCiotAcqOrder . . . 193
8.127.2.3 TlvPresent . . . 193
8.128 CiotLteOpModePrefTlv Struct Reference . . . 193
8.128.1 Detailed Description . . . 193
8.128.2 Field Documentation . . . 193
8.128.2.1 ciotLteOpModePref . . . 194
8.128.2.2 TlvPresent . . . 194
8.129 CLIPResp Struct Reference . . . 194
8.129.1 Detailed Description . . . 194
8.129.2 Field Documentation . . . 194
8.129.2.1 ActiveStatus . . . 194
8.129.2.2 ProvisionStatus . . . 194
8.130 CLIRResp Struct Reference . . . 194
8.130.1 Detailed Description . . . 194
8.130.2 Field Documentation . . . 195
8.130.2.1 ActiveStatus . . . 195
8.130.2.2 ProvisionStatus . . . 195
8.131 ClkInfo Struct Reference . . . 195
8.131.1 Detailed Description . . . 195
8.131.2 Field Documentation . . . 196
8.131.2.1 mask . . . 196
8.132 CNAPResp Struct Reference . . . 196
8.132.1 Detailed Description . . . 197
8.132.2 Field Documentation . . . 197
8.132.2.1 ActiveStatus . . . 197
8.132.2.2 ProvisionStatus . . . 197
8.133 COLPResp Struct Reference . . . 197
8.133.1 Detailed Description . . . 197
8.133.2 Field Documentation . . . 198
8.133.2.1 ActiveStatus . . . 198
8.133.2.2 ProvisionStatus . . . 198

8.134 COLRResp Struct Reference . . . 198
8.134.1 Detailed Description . . . 198
8.134.2 Field Documentation . . . 198
8.134.2.1 ActiveStatus . . . 198
8.134.2.2 ProvisionStatus . . . 198
8.135 CommInfo Struct Reference . . . 198
8.135.1 Detailed Description . . . 199
8.135.2 Field Documentation . . . 200
8.135.2.1 imsRegState . . . 200
8.135.2.2 modemMode . . . 200
8.135.2.3 psState . . . 200
8.135.2.4 systemMode . . . 200
8.135.2.5 temperature . . . 200
8.136 ConnectionStatus Struct Reference . . . 200
8.136.1 Detailed Description . . . 200
8.136.2 Field Documentation . . . 201
8.136.2.1 MDMCallDuration . . . 201
8.136.2.2 MDMConnStatus . . . 201
8.137 connectionStatus Struct Reference . . . 201
8.137.1 Detailed Description . . . 201
8.137.2 Field Documentation . . . 201
8.137.2.1 MDMCallDuration . . . 202
8.137.2.2 MDMConnStatus . . . 202
8.138 connectNumInfo Struct Reference . . . 202
8.138.1 Detailed Description . . . 202
8.138.2 Field Documentation . . . 203
8.138.2.1 callerID . . . 203
8.138.2.2 callerIDLen . . . 203
8.138.2.3 numPlan . . . 203
8.138.2.4 numPresInd . . . 203
8.138.2.5 numType . . . 203
8.138.2.6 screeningInd . . . 203
8.139 CrashInfo Struct Reference . . . 203
8.139.1 Detailed Description . . . 203
8.139.2 Field Documentation . . . 204
8.139.2.1 crashData . . . 204
8.139.2.2 crashId . . . 204
8.139.2.3 crashStrLen . . . 204
8.139.2.4 gcDumpStrLen . . . 204
8.139.2.5 numCrashes . . . 204

8.139.2.6 pCrashString . . . 204
8.139.2.7 pGCDumpString . . . 204
8.140 CrashInfoParams Struct Reference . . . 204
8.140.1 Detailed Description . . . 204
8.140.2 Field Documentation . . . 205
8.140.2.1 pCrashInfo . . . 205
8.140.2.2 pDevCrashStatus . . . 205
8.141 crashInfoParams Struct Reference . . . 205
8.141.1 Detailed Description . . . 205
8.141.2 Field Documentation . . . 205
8.141.2.1 crashInfo . . . 205
8.141.2.2 crashStatus . . . 205
8.142 crashInformation Struct Reference . . . 205
8.142.1 Detailed Description . . . 206
8.142.2 Field Documentation . . . 206
8.142.2.1 crashData . . . 206
8.142.2.2 crashId . . . 206
8.142.2.3 crashString . . . 206
8.142.2.4 crashStrlen . . . 206
8.142.2.5 gcdumpString . . . 206
8.142.2.6 gcdumpStrlen . . . 206
8.142.2.7 numCrashes . . . 206
8.143 CreateProfileIn Struct Reference . . . 206
8.143.1 Detailed Description . . . 207
8.143.2 Field Documentation . . . 207
8.143.2.1 curProfile . . . 207
8.143.2.2 pProfileID . . . 207
8.143.2.3 pProfileType . . . 207
8.144 CreateProfileOut Struct Reference . . . 207
8.144.1 Detailed Description . . . 207
8.144.2 Field Documentation . . . 208
8.144.2.1 pExtErrorCode . . . 208
8.144.2.2 pProfileIndex . . . 208
8.144.2.3 pProfileType . . . 208
8.145 CsgId Struct Reference . . . 208
8.145.1 Detailed Description . . . 208
8.145.2 Field Documentation . . . 208
8.145.2.1 csgId . . . 208
8.145.2.2 TlvPresent . . . 208
8.146 CSGID Struct Reference . . . 208

8.146.1 Detailed Description . . . 209
8.146.2 Field Documentation . . . 209
8.146.2.1 id . . . 209
8.146.2.2 mcc . . . 209
8.146.2.3 mnc . . . 209
8.146.2.4 mncPcsDigits . . . 209
8.146.2.5 rat . . . 209
8.147 CUGInfo Struct Reference . . . 209
8.147.1 Detailed Description . . . 210
8.147.2 Field Documentation . . . 210
8.147.2.1 CUGIndex . . . 210
8.147.2.2 SuppOA . . . 210
8.147.2.3 SuppPrefCUG . . . 210
8.148 curAMRConfig Struct Reference . . . 210
8.148.1 Detailed Description . . . 210
8.148.2 Field Documentation . . . 211
8.148.2.1 gsmAmrStat . . . 211
8.148.2.2 wcdmaAmrStat . . . 211
8.149 CurrDataSysStat Struct Reference . . . 211
8.149.1 Detailed Description . . . 211
8.149.2 Field Documentation . . . 212
8.149.2.1 pCurrNetworkInfo . . . 212
8.149.2.2 pNetworkInfoLen . . . 212
8.149.2.3 pPrefNetwork . . . 212
8.150 currentCatEvent Union Reference . . . 212
8.150.1 Detailed Description . . . 212
8.150.2 Field Documentation . . . 212
8.150.2.1 CatAlphaIdtfr . . . 212
8.150.2.2 CatEndPS . . . 212
8.150.2.3 CatEventLst . . . 212
8.150.2.4 CatEvIDData . . . 212
8.150.2.5 CatRefresh . . . 212
8.151 CurrentImgList Struct Reference . . . 212
8.151.1 Detailed Description . . . 213
8.151.2 Field Documentation . . . 213
8.151.2.1 carrier . . . 213
8.151.2.2 fwvers . . . 213
8.151.2.3 numEntries . . . 213
8.151.2.4 pCurrImgInfo . . . 213
8.151.2.5 pkgver . . . 213

8.151.2.6 priver . . . 213
8.152 currentPLMN Struct Reference . . . 213
8.152.1 Detailed Description . . . 214
8.152.2 Field Documentation . . . 214
8.152.2.1 MCC . . . 214
8.152.2.2 MNC . . . 214
8.152.2.3 netDescr . . . 214
8.152.2.4 netDescrLength . . . 214
8.153 CurrImageInfo Struct Reference . . . 214
8.153.1 Detailed Description . . . 215
8.153.2 Field Documentation . . . 215
8.153.2.1 buildID . . . 215
8.153.2.2 buildIDLen . . . 215
8.153.2.3 imageType . . . 215
8.153.2.4 uniqueID . . . 215
8.154 CurrNetworkInfo Struct Reference . . . 215
8.154.1 Detailed Description . . . 215
8.154.2 Field Documentation . . . 216
8.154.2.1 NetworkType . . . 217
8.154.2.2 RATMask . . . 217
8.154.2.3 SOMask . . . 217
8.155 currNetworkInfo Struct Reference . . . 217
8.155.1 Detailed Description . . . 217
8.155.2 Field Documentation . . . 218
8.155.2.1 NetworkType . . . 218
8.155.2.2 RATMask . . . 218
8.155.2.3 SOMask . . . 218
8.156 custFeaturesInfo Struct Reference . . . 218
8.156.1 Detailed Description . . . 218
8.156.2 Field Documentation . . . 220
8.156.2.1 GpsEnable . . . 220
8.156.2.2 pDHCPRelayEnabled . . . 220
8.156.2.3 pDisableIMSI . . . 220
8.156.2.4 pGPSLPM . . . 220
8.156.2.5 pGPSSel . . . 220
8.156.2.6 pIPFamSupport . . . 220
8.156.2.7 pIsVoiceEnabled . . . 220
8.156.2.8 pRMAutoConnect . . . 220
8.156.2.9 pSMSSupport . . . 221
8.157 custFeaturesSetting Struct Reference . . . 221

8.157.1 Detailed Description . . . 221
8.157.2 Field Documentation . . . 222
8.157.2.1 pDHCPRelayEnabled . . . 222
8.157.2.2 pGPSEnable . . . 222
8.157.2.3 pGPSLPM . . . 222
8.157.2.4 pGPSSel . . . 222
8.157.2.5 pIsVoiceEnabled . . . 222
8.158 custSettingInfo Struct Reference . . . 222
8.158.1 Detailed Description . . . 222
8.158.2 Field Documentation . . . 223
8.158.2.1 cust_attr . . . 223
8.158.2.2 cust_id . . . 223
8.158.2.3 cust_value . . . 223
8.158.2.4 id_length . . . 223
8.158.2.5 value_length . . . 223
8.159 custSettingList Struct Reference . . . 223
8.159.1 Detailed Description . . . 223
8.159.2 Field Documentation . . . 223
8.159.2.1 custSetting . . . 223
8.159.2.2 list_type . . . 224
8.159.2.3 num_instances . . . 224
8.160 dataBearers Struct Reference . . . 224
8.160.1 Detailed Description . . . 224
8.160.2 Field Documentation . . . 224
8.160.2.1 dataBearerMask . . . 224
8.160.2.2 pCurDataBearerTechnology . . . 224
8.160.2.3 pLastCallDataBearerTechnology . . . 224
8.161 DataBearerTech Struct Reference . . . 224
8.161.1 Detailed Description . . . 224
8.161.2 Field Documentation . . . 226
8.161.2.1 ratValue . . . 226
8.161.2.2 soMask . . . 226
8.161.2.3 techType . . . 226
8.162 DataBearerTechExt Struct Reference . . . 226
8.162.1 Detailed Description . . . 227
8.162.2 Field Documentation . . . 227
8.162.2.1 pBearerTech . . . 227
8.162.2.2 pLastBearerTech . . . 227
8.163 dataBearerTechnology Struct Reference . . . 227
8.163.1 Detailed Description . . . 227

8.163.2 Field Documentation . . . 228
8.163.2.1 currentNetwork . . . 228
8.163.2.2 ratMask . . . 228
8.163.2.3 soMask . . . 228
8.164 dataRate Struct Reference . . . 228
8.164.1 Detailed Description . . . 228
8.164.2 Field Documentation . . . 229
8.164.2.1 dataRateMax . . . 229
8.164.2.2 guaranteedRate . . . 229
8.165 dataSrvCapabilities Struct Reference . . . 229
8.165.1 Detailed Description . . . 229
8.165.2 Field Documentation . . . 229
8.165.2.1 dataCapabilities . . . 229
8.165.2.2 dataCapabilitiesLen . . . 230
8.166 DataStatusDetail Struct Reference . . . 230
8.166.1 Detailed Description . . . 230
8.166.2 Field Documentation . . . 231
8.166.2.1 IPAddress . . . 231
8.166.2.2 LastErrCode . . . 231
8.167 DataULongLongTlv Struct Reference . . . 232
8.167.1 Field Documentation . . . 232
8.167.1.1 TlvPresent . . . 232
8.167.1.2 ullData . . . 232
8.168 DataULongTlv Struct Reference . . . 232
8.168.1 Field Documentation . . . 232
8.168.1.1 TlvPresent . . . 232
8.168.1.2 ulData . . . 232
8.169 DcsUsbPortNames Struct Reference . . . 232
8.169.1 Field Documentation . . . 232
8.169.1.1 AtCmdPort . . . 232
8.169.1.2 DmPort . . . 232
8.169.1.3 NmeaPort . . . 232
8.170 delAssistDataStatus Struct Reference . . . 232
8.170.1 Detailed Description . . . 233
8.170.2 Field Documentation . . . 233
8.170.2.1 results . . . 233
8.170.2.2 status . . . 233
8.171 depersonalizationInformation Struct Reference . . . 233
8.171.1 Detailed Description . . . 233
8.171.2 Field Documentation . . . 234

8.171.2.1 ckLen . . . 234
8.171.2.2 ckVal . . . 234
8.171.2.3 feature . . . 234
8.171.2.4 operation . . . 234
8.172 detailSvcInfo Struct Reference . . . 234
8.172.1 Detailed Description . . . 234
8.172.2 Field Documentation . . . 235
8.172.2.1 hdrHybrid . . . 235
8.172.2.2 hdrSrvStatus . . . 235
8.172.2.3 isSysForbidden . . . 235
8.172.2.4 srvCapability . . . 236
8.172.2.5 srvStatus . . . 236
8.173 DeviceConfigDetail Struct Reference . . . 236
8.173.1 Detailed Description . . . 236
8.173.2 Field Documentation . . . 236
8.173.2.1 Chipset . . . 236
8.173.2.2 HWVersion . . . 237
8.173.2.3 QLIC . . . 237
8.173.2.4 Technology . . . 237
8.174 DHCPOption Struct Reference . . . 237
8.174.1 Detailed Description . . . 237
8.174.2 Field Documentation . . . 237
8.174.2.1 optCode . . . 237
8.174.2.2 optValLen . . . 237
8.174.2.3 pOptVal . . . 237
8.175 DHCPOptionList Struct Reference . . . 237
8.175.1 Detailed Description . . . 237
8.175.2 Field Documentation . . . 238
8.175.2.1 numOpt . . . 238
8.175.2.2 pOptions . . . 238
8.176 diagInfo Struct Reference . . . 238
8.176.1 Detailed Description . . . 238
8.176.2 Field Documentation . . . 238
8.176.2.1 diagInfoLen . . . 238
8.176.2.2 diagnosticInfo . . . 238
8.177 dirNum Struct Reference . . . 238
8.177.1 Detailed Description . . . 239
8.177.2 Field Documentation . . . 239
8.177.2.1 dirNum . . . 239
8.177.2.2 dirNumLen . . . 239

8.178 dms_ActivationStatusTlv Struct Reference . . . 239
8.178.1 Detailed Description . . . 239
8.178.2 Field Documentation . . . 240
8.178.2.1 activationStatus . . . 240
8.178.2.2 TlvPresent . . . 240
8.179 dms_OperatingModeTlv Struct Reference . . . 240
8.179.1 Detailed Description . . . 240
8.179.2 Field Documentation . . . 240
8.179.2.1 operatingMode . . . 240
8.179.2.2 TlvPresent . . . 240
8.180 dms_PSMActiveTimerIndTlv Struct Reference . . . 240
8.180.1 Detailed Description . . . 240
8.180.2 Field Documentation . . . 241
8.180.2.1 ActiveTimerInd . . . 241
8.180.2.2 TlvPresent . . . 241
8.181 dms_PSMActiveTimerTlv Struct Reference . . . 241
8.181.1 Detailed Description . . . 241
8.181.2 Field Documentation . . . 241
8.181.2.1 activeTimer . . . 241
8.181.2.2 TlvPresent . . . 241
8.182 dms_PSMDurationDueToOOSTlv Struct Reference . . . 241
8.182.1 Detailed Description . . . 241
8.182.2 Field Documentation . . . 242
8.182.2.1 durationDueToOOS . . . 242
8.182.2.2 TlvPresent . . . 242
8.183 dms_PSMDurationThresholdTlv Struct Reference . . . 242
8.183.1 Detailed Description . . . 242
8.183.2 Field Documentation . . . 242
8.183.2.1 durationThreshold . . . 242
8.183.2.2 TlvPresent . . . 242
8.184 dms_PSMEarlyWakeupTimeTlv Struct Reference . . . 242
8.184.1 Detailed Description . . . 242
8.184.2 Field Documentation . . . 243
8.184.2.1 earlyWakeupTime . . . 243
8.184.2.2 TlvPresent . . . 243
8.185 dms_PSMEnableStateIndTlv Struct Reference . . . 243
8.185.1 Detailed Description . . . 243
8.185.2 Field Documentation . . . 243
8.185.2.1 EnableStateInd . . . 243
8.185.2.2 TlvPresent . . . 243

8.186 dms_PSMEnableStateTlv Struct Reference . . . 243
8.186.1 Detailed Description . . . 244
8.186.2 Field Documentation . . . 244
8.186.2.1 enableState . . . 244
8.186.2.2 TlvPresent . . . 244
8.187 dms_PSMPeriodicUpdateTimerIndTlv Struct Reference . . . 244
8.187.1 Detailed Description . . . 244
8.187.2 Field Documentation . . . 244
8.187.2.1 PeriodicUpdateTimerInd . . . 244
8.187.2.2 TlvPresent . . . 244
8.188 dms_PSMPeriodicUpdateTimerTlv Struct Reference . . . 244
8.188.1 Detailed Description . . . 245
8.188.2 Field Documentation . . . 245
8.188.2.1 periodicUpdateTimer . . . 245
8.188.2.2 TlvPresent . . . 245
8.189 dms_PSMRandomizationWindowTlv Struct Reference . . . 245
8.189.1 Detailed Description . . . 245
8.189.2 Field Documentation . . . 245
8.189.2.1 randomizationWindow . . . 245
8.189.2.2 TlvPresent . . . 245
8.190 dms_TemperatureTlv Struct Reference . . . 245
8.190.1 Detailed Description . . . 246
8.190.2 Field Documentation . . . 246
8.190.2.1 Temperature . . . 246
8.190.2.2 TempStat . . . 246
8.190.2.3 TlvPresent . . . 246
8.191 dms_VoltageTlv Struct Reference . . . 246
8.191.1 Detailed Description . . . 246
8.191.2 Field Documentation . . . 247
8.191.2.1 TlvPresent . . . 247
8.191.2.2 Voltage . . . 247
8.191.2.3 VoltStat . . . 247
8.192 dmsCurrentPRLInfo Struct Reference . . . 247
8.192.1 Detailed Description . . . 247
8.192.2 Field Documentation . . . 247
8.192.2.1 pPRLPreference . . . 247
8.192.2.2 pPRLVersion . . . 247
8.193 DMScustSettingInfo Struct Reference . . . 247
8.193.1 Detailed Description . . . 248
8.193.2 Field Documentation . . . 248

8.193.2.1 cust_attr . . . 248
8.193.2.2 cust_id . . . 248
8.193.2.3 cust_value . . . 248
8.193.2.4 id_length . . . 248
8.193.2.5 value_length . . . 248
8.194 DMScustSettingList Struct Reference . . . 248
8.194.1 Detailed Description . . . 248
8.194.2 Field Documentation . . . 249
8.194.2.1 custSetting . . . 249
8.194.2.2 list_type . . . 249
8.194.2.3 num_instances . . . 249
8.195 DMSgetCustomFeatureV2 Struct Reference . . . 249
8.195.1 Detailed Description . . . 249
8.195.2 Field Documentation . . . 249
8.195.2.1 pCustSettingInfo . . . 249
8.195.2.2 pCustSettingList . . . 249
8.195.2.3 pGetCustomInput . . . 249
8.196 DMSgetCustomInput Struct Reference . . . 250
8.196.1 Detailed Description . . . 250
8.196.2 Field Documentation . . . 250
8.196.2.1 cust_id . . . 250
8.196.2.2 list_type . . . 250
8.197 dmsIndicationRegisterReq Struct Reference . . . 250
8.197.1 Detailed Description . . . 250
8.197.2 Field Documentation . . . 250
8.197.2.1 pSwiGetResetInd . . . 251
8.198 dmsPsmCfgParamChange Struct Reference . . . 251
8.198.1 Detailed Description . . . 251
8.198.2 Field Documentation . . . 251
8.198.2.1 pActiveTimer . . . 251
8.198.2.2 pEnableState . . . 251
8.198.2.3 pPeriodicUpdateTimer . . . 251
8.199 dmsSwiGetPCInfo Struct Reference . . . 251
8.199.1 Detailed Description . . . 251
8.199.2 Field Documentation . . . 252
8.199.2.1 opMode . . . 253
8.199.2.2 pLpmFlag . . . 253
8.199.2.3 pPersistentLpm . . . 253
8.199.2.4 pPowerOffMode . . . 253
8.199.2.5 pWdisable . . . 253

8.200 dmsSwiGetResetInfo Struct Reference . . . 253
8.200.1 Detailed Description . . . 253
8.200.2 Field Documentation . . . 253
8.200.2.1 source . . . 253
8.200.2.2 type . . . 253
8.201 Domain Struct Reference . . . 253
8.201.1 Detailed Description . . . 254
8.201.2 Field Documentation . . . 254
8.201.2.1 domainLen . . . 254
8.201.2.2 domainName . . . 254
8.202 DomainNameList Struct Reference . . . 254
8.202.1 Detailed Description . . . 254
8.202.2 Field Documentation . . . 254
8.202.2.1 domain . . . 254
8.202.2.2 numInstances . . . 254
8.203 DRCParams Struct Reference . . . 254
8.203.1 Detailed Description . . . 255
8.203.2 Field Documentation . . . 255
8.203.2.1 DRCCover . . . 255
8.203.2.2 DRCValue . . . 255
8.204 DTMFInfo Struct Reference . . . 255
8.204.1 Detailed Description . . . 255
8.204.2 Field Documentation . . . 256
8.204.2.1 callID . . . 256
8.204.2.2 digitBuff . . . 256
8.204.2.3 digitCnt . . . 256
8.204.2.4 DTMFEvent . . . 256
8.205 DTMFLengths Struct Reference . . . 256
8.205.1 Detailed Description . . . 256
8.205.2 Field Documentation . . . 256
8.205.2.1 DTMFInterdigitInterval . . . 257
8.205.2.2 DTMFPulseWidth . . . 257
8.206 DUNCallInfoInd Struct Reference . . . 257
8.206.1 Field Documentation . . . 257
8.206.1.1 CallEndReason . . . 257
8.206.1.2 ChannelRate . . . 257
8.206.1.3 DataBearerTech . . . 257
8.206.1.4 DormancyStatus . . . 257
8.206.1.5 MdmConnStatus . . . 257
8.206.1.6 RXOKBytesCount . . . 257

8.206.1.7 TXOKBytesCount . . . 257
8.207 dunchannelRate Struct Reference . . . 257
8.207.1 Detailed Description . . . 257
8.207.2 Field Documentation . . . 258
8.207.2.1 CurrChanRxRate . . . 258
8.207.2.2 CurrChanTxRate . . . 258
8.207.2.3 MaxChanRxRate . . . 258
8.207.2.4 MaxChanTxRate . . . 258
8.208 ecioListElement Struct Reference . . . 258
8.208.1 Detailed Description . . . 258
8.208.2 Field Documentation . . . 258
8.208.2.1 ecio . . . 259
8.208.2.2 radioIf . . . 259
8.209 ECIOThresh Struct Reference . . . 259
8.209.1 Detailed Description . . . 259
8.209.2 Field Documentation . . . 259
8.209.2.1 ECIOThresListLen . . . 259
8.209.2.2 pECIOThresList . . . 259
8.210 ECTNum Struct Reference . . . 259
8.210.1 Detailed Description . . . 259
8.210.2 Field Documentation . . . 260
8.210.2.1 ECTCallState . . . 260
8.210.2.2 number . . . 260
8.210.2.3 presentationInd . . . 260
8.211 ehrpdMTUSizeTlv Struct Reference . . . 260
8.211.1 Detailed Description . . . 260
8.211.2 Field Documentation . . . 260
8.211.2.1 ehrpdMTUSize . . . 260
8.211.2.2 TlvPresent . . . 260
8.212 encryptedPIN1 Struct Reference . . . 261
8.212.1 Detailed Description . . . 261
8.212.2 Field Documentation . . . 261
8.212.2.1 pin1Len . . . 261
8.212.2.2 pin1Val . . . 261
8.213 eriDataparams Struct Reference . . . 261
8.213.1 Detailed Description . . . 261
8.213.2 Field Documentation . . . 262
8.213.2.1 eriData . . . 262
8.213.2.2 eriDataLen . . . 262
8.214 ERIFileparams Struct Reference . . . 262

8.214.1 Detailed Description . . . 262
8.214.2 Field Documentation . . . 262
8.214.2.1 pFile . . . 262
8.214.2.2 pFileSize . . . 262
8.215 errorRateListElement Struct Reference . . . 262
8.215.1 Detailed Description . . . 262
8.215.2 Field Documentation . . . 263
8.215.2.1 errorRate . . . 263
8.215.2.2 radioIf . . . 263
8.216 eTWSPLMNInfoTlv Struct Reference . . . 263
8.216.1 Detailed Description . . . 263
8.216.2 Field Documentation . . . 264
8.216.2.1 ETWSPLMNInfo . . . 264
8.216.2.2 TlvPresent . . . 264
8.217 extDispRecInfo Struct Reference . . . 264
8.217.1 Detailed Description . . . 264
8.217.2 Field Documentation . . . 264
8.217.2.1 dispType . . . 264
8.217.2.2 extDispInfo . . . 264
8.217.2.3 extDispInfoLen . . . 264
8.218 FactorySequenceNumber Struct Reference . . . 264
8.218.1 Detailed Description . . . 265
8.218.2 Field Documentation . . . 265
8.218.2.1 FSNumber . . . 265
8.219 fileAttributes Struct Reference . . . 265
8.219.1 Detailed Description . . . 265
8.219.2 Field Documentation . . . 268
8.219.2.1 fileID . . . 268
8.219.2.2 fileSize . . . 268
8.219.2.3 fileType . . . 268
8.219.2.4 rawLen . . . 268
8.219.2.5 rawValue . . . 268
8.219.2.6 recordCount . . . 268
8.219.2.7 recordSize . . . 268
8.219.2.8 secActivate . . . 268
8.219.2.9 secActivateMask . . . 268
8.219.2.10 secDeactivate . . . 268
8.219.2.11 secDeactivateMask . . . 268
8.219.2.12 secIncrease . . . 268
8.219.2.13 secIncreaseMask . . . 268

8.219.2.14secRead . . . 268
8.219.2.15secReadMask . . . 268
8.219.2.16secWrite . . . 268
8.219.2.17secWriteMask . . . 268
8.220fileInfo Struct Reference . . . 268
8.220.1 Detailed Description . . . 268
8.220.2 Field Documentation . . . 269
8.220.2.1 fileID . . . 269
8.220.2.2 path . . . 269
8.220.2.3 pathLen . . . 269
8.221FirmwareUpdatStat Struct Reference . . . 269
8.221.1 Detailed Description . . . 269
8.221.2 Field Documentation . . . 270
8.221.2.1 pImgType . . . 270
8.221.2.2 pLogString . . . 271
8.221.2.3 pLogStringLen . . . 271
8.221.2.4 pRefData . . . 271
8.221.2.5 pRefString . . . 271
8.221.2.6 pRefStringLen . . . 271
8.221.2.7 ResCode . . . 271
8.222FMSImageElement Struct Reference . . . 271
8.222.1 Detailed Description . . . 271
8.222.2 Field Documentation . . . 271
8.222.2.1 buildId . . . 271
8.222.2.2 buildIdLength . . . 271
8.222.2.3 imageId . . . 271
8.222.2.4 imageType . . . 271
8.223FMSImageIdElement Struct Reference . . . 271
8.223.1 Detailed Description . . . 272
8.223.2 Field Documentation . . . 272
8.223.2.1 buildID . . . 272
8.223.2.2 buildIDLength . . . 272
8.223.2.3 failureCount . . . 272
8.223.2.4 imageID . . . 272
8.223.2.5 storageIndex . . . 272
8.224FMSImageIDEntries Struct Reference . . . 272
8.224.1 Detailed Description . . . 273
8.224.2 Field Documentation . . . 273
8.224.2.1 executingImage . . . 273
8.224.2.2 imageIDElement . . . 273

8.224.2.3 imageIDSize . . . 273
8.224.2.4 imageType . . . 273
8.224.2.5 maxImages . . . 273
8.225 FMSImageList Struct Reference . . . 273
8.225.1 Detailed Description . . . 273
8.225.2 Field Documentation . . . 274
8.225.2.1 imageIDEntries . . . 274
8.225.2.2 listSize . . . 274
8.226 FMSPrefImageList Struct Reference . . . 274
8.226.1 Detailed Description . . . 274
8.226.2 Field Documentation . . . 274
8.226.2.1 listEntries . . . 274
8.226.2.2 listSize . . . 274
8.227 fwinfo_s Struct Reference . . . 274
8.227.1 Detailed Description . . . 274
8.227.2 Field Documentation . . . 275
8.227.2.1 Carrier . . . 275
8.227.2.2 FirmwareID . . . 275
8.227.2.3 GPSCapability . . . 275
8.227.2.4 Region . . . 275
8.227.2.5 Technology . . . 275
8.228 GERANInfo Struct Reference . . . 275
8.228.1 Detailed Description . . . 275
8.228.2 Field Documentation . . . 276
8.228.2.1 arfcn . . . 276
8.228.2.2 bsic . . . 276
8.228.2.3 cellID . . . 276
8.228.2.4 insNmrCellInfo . . . 277
8.228.2.5 lac . . . 277
8.228.2.6 nmrInst . . . 277
8.228.2.7 plmn . . . 277
8.228.2.8 rxLev . . . 277
8.228.2.9 timingAdvance . . . 277
8.229 geranInstInfo Struct Reference . . . 277
8.229.1 Detailed Description . . . 277
8.229.2 Field Documentation . . . 277
8.229.2.1 geranArfcn . . . 277
8.229.2.2 geranBsicBcc . . . 277
8.229.2.3 geranBsicNcc . . . 277
8.229.2.4 geranRssi . . . 277

8.230 getAllCallInformation Struct Reference . . . 278
8.230.1 Detailed Description . . . 278
8.230.2 Field Documentation . . . 278
8.230.2.1 ALS . . . 278
8.230.2.2 CallInfo . . . 278
8.230.2.3 isEmpty . . . 278
8.231 getAllCallRmtPtyName Struct Reference . . . 278
8.231.1 Detailed Description . . . 278
8.231.2 Field Documentation . . . 279
8.231.2.1 callID . . . 279
8.231.2.2 RemotePartyName . . . 279
8.232 getAllCallRmtPtyNum Struct Reference . . . 279
8.232.1 Detailed Description . . . 279
8.232.2 Field Documentation . . . 279
8.232.2.1 callID . . . 279
8.232.2.2 RemotePartyNum . . . 279
8.233 GetAudioPathConfigReq Struct Reference . . . 279
8.233.1 Detailed Description . . . 279
8.233.2 Field Documentation . . . 280
8.233.2.1 Item . . . 280
8.233.2.2 Profile . . . 280
8.234 GetAudioPathConfigResp Struct Reference . . . 280
8.234.1 Detailed Description . . . 280
8.234.2 Field Documentation . . . 281
8.234.2.1 pCodecSTGain . . . 282
8.234.2.2 pDTMFTXGain . . . 282
8.234.2.3 pECMode . . . 282
8.234.2.4 pMICGainSelect . . . 282
8.234.2.5 pNSEnable . . . 282
8.234.2.6 pRXAGCList . . . 282
8.234.2.7 pRXAVCAGCSwitch . . . 282
8.234.2.8 pRXAVCList . . . 282
8.234.2.9 pRXPCMIIRFltr . . . 282
8.234.2.10 pTXAGCList . . . 282
8.234.2.11 pTXAVCSwitch . . . 282
8.234.2.12 pTXGain . . . 282
8.234.2.13 pTXPCMIIRFltr . . . 282
8.235 GetAudioProfileReq Struct Reference . . . 282
8.235.1 Detailed Description . . . 282
8.235.2 Field Documentation . . . 282

8.235.2.1 Generator . . . 282
8.236 GetAudioProfileResp Struct Reference . . . 282
8.236.1 Detailed Description . . . 283
8.236.2 Field Documentation . . . 283
8.236.2.1 EarMute . . . 283
8.236.2.2 MicMute . . . 283
8.236.2.3 Profile . . . 283
8.236.2.4 Volume . . . 283
8.237 GetAudioVolTLBConfigReq Struct Reference . . . 284
8.237.1 Detailed Description . . . 284
8.237.2 Field Documentation . . . 284
8.237.2.1 Generator . . . 284
8.237.2.2 Item . . . 284
8.237.2.3 Profile . . . 284
8.237.2.4 Volume . . . 284
8.238 GetAudioVolTLBConfigResp Struct Reference . . . 284
8.238.1 Detailed Description . . . 285
8.238.2 Field Documentation . . . 285
8.238.2.1 ResCode . . . 285
8.239 getCallFWExtInfo Struct Reference . . . 285
8.239.1 Detailed Description . . . 285
8.239.2 Field Documentation . . . 285
8.239.2.1 CallFWExtInfo . . . 285
8.239.2.2 numInstances . . . 285
8.240 getCallFWInfo Struct Reference . . . 285
8.240.1 Detailed Description . . . 285
8.240.2 Field Documentation . . . 286
8.240.2.1 CallFWInfo . . . 286
8.240.2.2 numInstances . . . 286
8.241 getCustomFeatureV2 Struct Reference . . . 286
8.241.1 Detailed Description . . . 286
8.241.2 Field Documentation . . . 286
8.241.2.1 pCustSettingInfo . . . 286
8.241.2.2 pCustSettingList . . . 286
8.241.2.3 pGetCustomInput . . . 286
8.242 getCustomInput Struct Reference . . . 287
8.242.1 Detailed Description . . . 287
8.242.2 Field Documentation . . . 287
8.242.2.1 cust_id . . . 287
8.242.2.2 list_type . . . 287

8.243 getDUNCallInfoReq Struct Reference . . . 287
8.243.1 Detailed Description . . . 287
8.243.2 Field Documentation . . . 288
8.243.2.1 Mask . . . 288
8.243.2.2 pReportChannelRate . . . 288
8.243.2.3 pReportConnStatus . . . 288
8.243.2.4 pReportDataBearerTech . . . 288
8.243.2.5 pReportDormStatus . . . 288
8.243.2.6 pTransferStatInd . . . 288
8.244 getDUNCallInfoResp Struct Reference . . . 289
8.244.1 Detailed Description . . . 289
8.244.2 Field Documentation . . . 291
8.244.2.1 pCallEndReason . . . 291
8.244.2.2 pChannelRate . . . 291
8.244.2.3 pConnectionStatus . . . 291
8.244.2.4 pDataBearerTech . . . 291
8.244.2.5 pDormancyStatus . . . 291
8.244.2.6 pLastCallDataBearerTech . . . 291
8.244.2.7 pLastCallRXOKBytesCnt . . . 291
8.244.2.8 pLastCallTXOKBytesCnt . . . 291
8.244.2.9 pMdmCallDurationActive . . . 291
8.244.2.10 pRXOKBytesCount . . . 291
8.244.2.11 pTXOKBytesCount . . . 291
8.245 getDyingGaspCfg Struct Reference . . . 291
8.245.1 Detailed Description . . . 292
8.245.2 Field Documentation . . . 292
8.245.2.1 pDestSMSContent . . . 292
8.245.2.2 pDestSMSNum . . . 292
8.246 getDyingGaspStatistics Struct Reference . . . 292
8.246.1 Detailed Description . . . 292
8.246.2 Field Documentation . . . 292
8.246.2.1 pSMSAttemptedFlag . . . 293
8.246.2.2 pTimeStamp . . . 293
8.247 GetErrRateResp Struct Reference . . . 293
8.247.1 Detailed Description . . . 293
8.247.2 Field Documentation . . . 293
8.247.2.1 pCDMAFrameErrRate . . . 293
8.247.2.2 pGSMBER . . . 293
8.247.2.3 pHDRPackErrRate . . . 293
8.247.2.4 pWCDMABER . . . 293

8.248 GetHRPDStatsResp Struct Reference . . . 294
8.248.1 Detailed Description . . . 294
8.248.2 Field Documentation . . . 294
8.248.2.1 pDRCParams . . . 294
8.248.2.2 pPilotSetData . . . 294
8.248.2.3 pUATI . . . 294
8.249 GetIMSSMSConfigParams Struct Reference . . . 294
8.249.1 Detailed Description . . . 294
8.249.2 Field Documentation . . . 295
8.249.2.1 pPhoneCtxtURI . . . 295
8.249.2.2 pPhoneCtxtURILen . . . 295
8.249.2.3 pSettingResp . . . 295
8.249.2.4 pSMSFormat . . . 295
8.249.2.5 pSMSOverIPNwInd . . . 295
8.250 GetIMSUserConfigParams Struct Reference . . . 295
8.250.1 Detailed Description . . . 295
8.250.2 Field Documentation . . . 296
8.250.2.1 pIMSDomain . . . 296
8.250.2.2 pIMSDomainLen . . . 296
8.250.2.3 pSettingResp . . . 296
8.251 GetIMSVoIPConfigResp Struct Reference . . . 296
8.251.1 Detailed Description . . . 296
8.251.2 Field Documentation . . . 298
8.251.2.1 pAmrMode . . . 298
8.251.2.2 pAmrOctetAligned . . . 298
8.251.2.3 pAmrWbEnable . . . 298
8.251.2.4 pAmrWBMode . . . 298
8.251.2.5 pAmrWBOctetAligned . . . 298
8.251.2.6 pMinSessionExpiryTimer . . . 298
8.251.2.7 pRingBackTimer . . . 298
8.251.2.8 pRingingTimer . . . 298
8.251.2.9 pRTPRTCPInactTimer . . . 298
8.251.2.10 pScrAmrEnable . . . 298
8.251.2.11 pScrAmrWbEnable . . . 298
8.251.2.12 pSessionExpiryTimer . . . 298
8.251.2.13 pSettingResp . . . 298
8.252 GetInstIDResp Struct Reference . . . 298
8.252.1 Field Documentation . . . 298
8.252.1.1 pInstanceID . . . 298
8.252.1.2 pIPFamily . . . 299

8.253 GetM2MAudioProfileReq Struct Reference . . . 299
8.253.1 Detailed Description . . . 299
8.253.2 Field Documentation . . . 299
8.253.2.1 pGenerator . . . 299
8.254 GetM2MAudioProfileResp Struct Reference . . . 299
8.254.1 Detailed Description . . . 299
8.254.2 Field Documentation . . . 300
8.254.2.1 CwtMute . . . 300
8.254.2.2 EarMute . . . 300
8.254.2.3 Generator . . . 300
8.254.2.4 MicMute . . . 300
8.254.2.5 Profile . . . 300
8.254.2.6 Volume . . . 300
8.255 GetM2MAudioVolumeReq Struct Reference . . . 300
8.255.1 Detailed Description . . . 300
8.255.2 Field Documentation . . . 301
8.255.2.1 Generator . . . 301
8.255.2.2 Profile . . . 301
8.256 GetM2MAudioVolumeResp Struct Reference . . . 301
8.256.1 Detailed Description . . . 301
8.256.2 Field Documentation . . . 301
8.256.2.1 Level . . . 301
8.257 GetM2MAVMuteReq Struct Reference . . . 301
8.257.1 Detailed Description . . . 301
8.257.2 Field Documentation . . . 301
8.257.2.1 Profile . . . 302
8.258 GetM2MAVMuteResp Struct Reference . . . 302
8.258.1 Detailed Description . . . 302
8.258.2 Field Documentation . . . 302
8.258.2.1 CwtMute . . . 302
8.258.2.2 EarMute . . . 302
8.258.2.3 MicMute . . . 302
8.259 GetM2MSpkrGainReq Struct Reference . . . 302
8.259.1 Detailed Description . . . 302
8.259.2 Field Documentation . . . 303
8.259.2.1 Profile . . . 303
8.260 GetM2MSpkrGainResp Struct Reference . . . 303
8.260.1 Detailed Description . . . 303
8.260.2 Field Documentation . . . 303
8.260.2.1 Value . . . 303

8.261 getMsgWaitingInfo Struct Reference . . . 303
8.261.1 Detailed Description . . . 303
8.261.2 Field Documentation . . . 304
8.261.2.1 msgWaitInfo . . . 304
8.261.2.2 numInstances . . . 304
8.262 GetNetworkTimeResp Struct Reference . . . 304
8.262.1 Detailed Description . . . 304
8.262.2 Field Documentation . . . 304
8.262.2.1 p3GPP2TimeInfo . . . 304
8.262.2.2 p3GPPTimeInfo . . . 304
8.263 GetRegMgrConfigParams Struct Reference . . . 304
8.263.1 Detailed Description . . . 304
8.263.2 Field Documentation . . . 305
8.263.2.1 pIMSTestMode . . . 305
8.263.2.2 pPCSCFPort . . . 305
8.263.2.3 pPriCSCFPortName . . . 305
8.263.2.4 pPriCSCFPortNameLen . . . 305
8.263.2.5 pSettingResp . . . 305
8.264 GetSessionIDResp Struct Reference . . . 305
8.264.1 Field Documentation . . . 305
8.264.1.1 pSessionIDv4 . . . 305
8.264.1.2 pSessionIDv6 . . . 305
8.265 GetSIPConfigResp Struct Reference . . . 305
8.265.1 Detailed Description . . . 306
8.265.2 Field Documentation . . . 306
8.265.2.1 pSettingResp . . . 306
8.265.2.2 pSigCompEnabled . . . 306
8.265.2.3 pSIPLocalPort . . . 306
8.265.2.4 pSubscribeTimer . . . 306
8.265.2.5 pTimerSIPReg . . . 306
8.265.2.6 pTimerT1 . . . 306
8.265.2.7 pTimerT2 . . . 306
8.265.2.8 pTimerTf . . . 306
8.266 GnssData Struct Reference . . . 307
8.266.1 Detailed Description . . . 307
8.266.2 Field Documentation . . . 308
8.266.2.1 mask . . . 308
8.267 gnssSvInfoNotification Struct Reference . . . 308
8.267.1 Detailed Description . . . 309
8.267.2 Field Documentation . . . 309

8.267.2.1 bAltitudeAssumed . . . 309
8.267.2.2 pSatelliteInfo . . . 309
8.267.2.3 results . . . 309
8.268 GPRSQoS Struct Reference . . . 309
8.268.1 Detailed Description . . . 309
8.268.2 Field Documentation . . . 310
8.268.2.1 delayClass . . . 310
8.268.2.2 meanThroughputClass . . . 310
8.268.2.3 peakThroughputClass . . . 310
8.268.2.4 precedenceClass . . . 310
8.268.2.5 reliabilityClass . . . 310
8.269 GPRSRequestedQoS Struct Reference . . . 310
8.269.1 Detailed Description . . . 310
8.269.2 Field Documentation . . . 311
8.269.2.1 delayClass . . . 311
8.269.2.2 meanThroughputClass . . . 311
8.269.2.3 peakThroughputClass . . . 311
8.269.2.4 precedenceClass . . . 311
8.269.2.5 reliabilityClass . . . 311
8.270 GPSStateInfo Struct Reference . . . 311
8.270.1 Detailed Description . . . 312
8.270.2 Field Documentation . . . 314
8.270.2.1 Altitude . . . 314
8.270.2.2 EngineState . . . 314
8.270.2.3 glo_almanac_sv_msk . . . 314
8.270.2.4 glo_ephemeris_sv_msk . . . 314
8.270.2.5 glo_health_sv_msk . . . 314
8.270.2.6 glo_visible_sv_msk . . . 314
8.270.2.7 gps_almanac_sv_msk . . . 314
8.270.2.8 gps_ephemeris_sv_msk . . . 314
8.270.2.9 gps_health_sv_msk . . . 314
8.270.2.10 gps_visible_sv_msk . . . 314
8.270.2.11 HorizontalUncertainty . . . 314
8.270.2.12 Iono_valid . . . 314
8.270.2.13 Latitude . . . 314
8.270.2.14 Longitude . . . 314
8.270.2.15 sbas_almanac_sv_msk . . . 314
8.270.2.16 sbas_ephemeris_sv_msk . . . 314
8.270.2.17 sbas_health_sv_msk . . . 315
8.270.2.18 sbas_visible_sv_msk . . . 315

8.270.2.19 Time_uncert_ms . . . 315
8.270.2.20 TimeStmp_gps_week . . . 315
8.270.2.21 TimeStmp_tow_ms . . . 315
8.270.2.22 ValidMask . . . 315
8.270.2.23 VerticalUncertainty . . . 315
8.270.2.24 xtra_start_gps_minutes . . . 315
8.270.2.25 xtra_start_gps_week . . . 315
8.270.2.26 xtra_valid_duration_hours . . . 315
8.271 gpsTime_s Struct Reference . . . 315
8.271.1 Detailed Description . . . 315
8.271.2 Field Documentation . . . 315
8.271.2.1 gpsTimeOfWeekMs . . . 315
8.271.2.2 gpsWeek . . . 315
8.272 gsmCellInfo Struct Reference . . . 315
8.272.1 Detailed Description . . . 316
8.272.2 Field Documentation . . . 316
8.272.2.1 arfcn . . . 316
8.272.2.2 band1900 . . . 316
8.272.2.3 bsicId . . . 316
8.272.2.4 cellIdValid . . . 316
8.272.2.5 rssi . . . 316
8.272.2.6 srxlev . . . 316
8.273 GSMRSSIThresh Struct Reference . . . 317
8.273.1 Detailed Description . . . 317
8.273.2 Field Documentation . . . 317
8.273.2.1 GSMRSSIThreshListLen . . . 317
8.273.2.2 pGSMRSSIThreshList . . . 317
8.274 GSMSrvStatusInfo Struct Reference . . . 317
8.274.1 Detailed Description . . . 317
8.274.2 Field Documentation . . . 318
8.274.2.1 isPrefDataPath . . . 318
8.274.2.2 srvStatus . . . 318
8.274.2.3 trueSrvStatus . . . 318
8.275 GSMSysInfo Struct Reference . . . 318
8.275.1 Detailed Description . . . 318
8.275.2 Field Documentation . . . 320
8.275.2.1 cellId . . . 320
8.275.2.2 cellIdValid . . . 320
8.275.2.3 dtmSupp . . . 320
8.275.2.4 dtmSuppValid . . . 320

8.275.2.5 egprsSupp . . . 320
8.275.2.6 egprsSuppValid . . . 320
8.275.2.7 lac . . . 321
8.275.2.8 lacValid . . . 321
8.275.2.9 MCC . . . 321
8.275.2.10 MNC . . . 321
8.275.2.11 networkIdValid . . . 321
8.275.2.12 regRejectInfoValid . . . 321
8.275.2.13 rejCause . . . 321
8.275.2.14 rejectSrvDomain . . . 321
8.275.2.15 sysInfoGSM . . . 321
8.276 gyroAcceptReady_s Struct Reference . . . 321
8.276.1 Detailed Description . . . 321
8.276.2 Field Documentation . . . 321
8.276.2.1 batchPerSec . . . 321
8.276.2.2 injectEnable . . . 322
8.276.2.3 samplesPerBatch . . . 322
8.277 gyroTempAcceptReady_s Struct Reference . . . 322
8.277.1 Detailed Description . . . 322
8.277.2 Field Documentation . . . 322
8.277.2.1 batchPerSec . . . 322
8.277.2.2 injectEnable . . . 322
8.277.2.3 samplesPerBatch . . . 322
8.278 HDRECIOThresh Struct Reference . . . 322
8.278.1 Detailed Description . . . 323
8.278.2 Field Documentation . . . 323
8.278.2.1 HDRECIOThreshListLen . . . 323
8.278.2.2 pHDRECIOThreshList . . . 323
8.279 HDRIOThresh Struct Reference . . . 323
8.279.1 Detailed Description . . . 323
8.279.2 Field Documentation . . . 323
8.279.2.1 HDRIOThreshListLen . . . 323
8.279.2.2 pHDRIOThreshList . . . 323
8.280 HDRPersonalityInd Struct Reference . . . 323
8.280.1 Field Documentation . . . 324
8.280.1.1 pCurrentPersonality . . . 324
8.280.1.2 pPersonalityListLength . . . 324
8.280.1.3 pProtocolSubtypeElement . . . 324
8.281 HDRPersonalityResp Struct Reference . . . 324
8.281.1 Detailed Description . . . 324

8.281.2 Field Documentation . . . 324
8.281.2.1 pCurrentPersonality . . . 324
8.281.2.2 pPersonalityListLength . . . 324
8.281.2.3 pProtocolSubtypeElement . . . 324
8.282 HDRProtSubtypResp Struct Reference . . . 324
8.282.1 Detailed Description . . . 325
8.282.2 Field Documentation . . . 325
8.282.2.1 pAppSubType . . . 325
8.282.2.2 pCurrentPrsnlty . . . 325
8.282.2.3 pPersonalityListLength . . . 325
8.282.2.4 pProtoSubTypElmnt . . . 325
8.283 HDRRSSIThresh Struct Reference . . . 325
8.283.1 Detailed Description . . . 325
8.283.2 Field Documentation . . . 326
8.283.2.1 HDRRSSIThreshListLen . . . 326
8.283.2.2 pHDRRSSIThreshList . . . 326
8.284 HDRSINRThresh Struct Reference . . . 326
8.284.1 Detailed Description . . . 326
8.284.2 Field Documentation . . . 326
8.284.2.1 HDRSINRThresListLen . . . 326
8.284.2.2 pHDRSINRThresList . . . 326
8.285 HDRSINRThreshold Struct Reference . . . 326
8.285.1 Detailed Description . . . 327
8.285.2 Field Documentation . . . 327
8.285.2.1 HDRSINRThreshListLen . . . 327
8.285.2.2 pHDRSINRThreshList . . . 327
8.286 HDRSSInfo Struct Reference . . . 327
8.286.1 Detailed Description . . . 327
8.286.2 Field Documentation . . . 328
8.286.2.1 ecio . . . 328
8.286.2.2 io . . . 328
8.286.2.3 rssi . . . 328
8.286.2.4 sinr . . . 328
8.287 hdrSSInfo Struct Reference . . . 328
8.287.1 Detailed Description . . . 328
8.287.2 Field Documentation . . . 329
8.287.2.1 ecio . . . 329
8.287.2.2 io . . . 329
8.287.2.3 rssi . . . 329
8.287.2.4 sinr . . . 329

8.288 HDRSysInfo Struct Reference . . . 329
8.288.1 Detailed Description . . . 330
8.288.2 Field Documentation . . . 331
8.288.2.1 hdrActiveProt . . . 331
8.288.2.2 hdrActiveProtValid . . . 331
8.288.2.3 hdrPersonality . . . 331
8.288.2.4 hdrPersonalityValid . . . 331
8.288.2.5 is856SysId . . . 331
8.288.2.6 is856SysIdValid . . . 331
8.288.2.7 isSysPrlMatch . . . 331
8.288.2.8 isSysPrlMatchValid . . . 331
8.288.2.9 sysInfoHDR . . . 331
8.289 homeSIDNID Struct Reference . . . 331
8.289.1 Detailed Description . . . 331
8.289.2 Field Documentation . . . 332
8.289.2.1 numInstances . . . 332
8.289.2.2 SidNid . . . 332
8.290 hotSwapStatus Struct Reference . . . 332
8.290.1 Detailed Description . . . 332
8.290.2 Field Documentation . . . 332
8.290.2.1 hotSwap . . . 332
8.290.2.2 hotSwapLength . . . 332
8.291 hrpdMTUSizeTlv Struct Reference . . . 332
8.291.1 Detailed Description . . . 332
8.291.2 Field Documentation . . . 333
8.291.2.1 hrpdMTUSize . . . 333
8.291.2.2 TlvPresent . . . 333
8.292 image_info_t Struct Reference . . . 333
8.292.1 Detailed Description . . . 333
8.292.2 Field Documentation . . . 333
8.292.2.1 buildID . . . 333
8.292.2.2 buildIDLen . . . 333
8.292.2.3 imageType . . . 333
8.292.2.4 uniqueID . . . 334
8.293 ImageElement Struct Reference . . . 334
8.293.1 Detailed Description . . . 334
8.293.2 Field Documentation . . . 334
8.293.2.1 buildId . . . 334
8.293.2.2 buildIdLength . . . 334
8.293.2.3 imageId . . . 334

8.293.2.4 imageType . . . 334
8.294 ImageIdElement Struct Reference . . . 334
8.294.1 Detailed Description . . . 335
8.294.2 Field Documentation . . . 335
8.294.2.1 buildID . . . 335
8.294.2.2 buildIDLength . . . 335
8.294.2.3 failureCount . . . 335
8.294.2.4 imageID . . . 335
8.294.2.5 storageIndex . . . 335
8.295 ImageIDEntries Struct Reference . . . 335
8.295.1 Detailed Description . . . 335
8.295.2 Field Documentation . . . 336
8.295.2.1 executingImage . . . 336
8.295.2.2 imageIDElement . . . 336
8.295.2.3 imageIDSize . . . 336
8.295.2.4 imageType . . . 336
8.295.2.5 maxImages . . . 336
8.296 ImageList Struct Reference . . . 336
8.296.1 Detailed Description . . . 336
8.296.2 Field Documentation . . . 336
8.296.2.1 imageIDEntries . . . 337
8.296.2.2 listSize . . . 337
8.297 IMSAIndRegisterInfo Struct Reference . . . 337
8.297.1 Detailed Description . . . 337
8.297.2 Field Documentation . . . 337
8.297.2.1 pPdpStatusConfig . . . 337
8.297.2.2 pRatHandoverStatusConfig . . . 338
8.297.2.3 pRegStatusConfig . . . 338
8.297.2.4 pServiceStatusConfig . . . 338
8.298 imsaPdpStatusInfo Struct Reference . . . 338
8.298.1 Detailed Description . . . 338
8.298.2 Field Documentation . . . 338
8.298.2.1 connetionState . . . 338
8.298.2.2 pFailErrorCode . . . 338
8.299 imsaRatStatusInfo Struct Reference . . . 338
8.299.1 Detailed Description . . . 338
8.299.2 Field Documentation . . . 339
8.299.2.1 pErrorCodeStr . . . 339
8.299.2.2 pRATStatus . . . 339
8.299.2.3 pSrcRAT . . . 339

8.299.2.4 pTgtRAT . . . 339
8.300 IMSARegistrationStatus Struct Reference . . . 339
8.300.1 Detailed Description . . . 339
8.300.2 Field Documentation . . . 340
8.300.2.1 pImsRegErrCode . . . 340
8.300.2.2 pImsRegStatus . . . 340
8.300.2.3 pNewImsRegStatus . . . 340
8.301 imsaRegStatusInfo Struct Reference . . . 340
8.301.1 Detailed Description . . . 340
8.301.2 Field Documentation . . . 340
8.301.2.1 pbIMSRegistered . . . 340
8.301.2.2 pImsRegStatus . . . 340
8.301.2.3 pRegStatusErrorCode . . . 340
8.302 IMSAServiceStatus Struct Reference . . . 340
8.302.1 Detailed Description . . . 341
8.302.2 Field Documentation . . . 342
8.302.2.1 pSmsServiceRat . . . 342
8.302.2.2 pSmsServiceStatus . . . 342
8.302.2.3 pUtServiceRat . . . 342
8.302.2.4 pUtServiceStatus . . . 342
8.302.2.5 pVoipServiceRat . . . 342
8.302.2.6 pVoipServiceStatus . . . 342
8.302.2.7 pVsServiceRat . . . 342
8.302.2.8 pVsServiceStatus . . . 342
8.302.2.9 pVtServiceRat . . . 343
8.302.2.10 pVtServiceStatus . . . 343
8.303 IMSASupportedFieldsResp Struct Reference . . . 343
8.303.1 Detailed Description . . . 343
8.303.2 Field Documentation . . . 343
8.303.2.1 pIndFieldsList . . . 343
8.303.2.2 pReqFieldsList . . . 343
8.303.2.3 pRespFieldsList . . . 343
8.304 IMSASupportedMsgInfo Struct Reference . . . 343
8.304.1 Detailed Description . . . 343
8.304.2 Field Documentation . . . 344
8.304.2.1 pSupportedMsgList . . . 344
8.305 imsaSvcStatusInfo Struct Reference . . . 344
8.305.1 Detailed Description . . . 344
8.305.2 Field Documentation . . . 344
8.305.2.1 pSMSSvcRAT . . . 344

8.305.2.2 pSMSSvcStatus . . . 344
8.305.2.3 pUTSvcRAT . . . 344
8.305.2.4 pUTSvcStatus . . . 344
8.305.2.5 pVOIPSvcRAT . . . 345
8.305.2.6 pVOIPSvcStatus . . . 345
8.305.2.7 pVTSvcRAT . . . 345
8.305.2.8 pVTSvcStatus . . . 345
8.306imsCfgIndRegisterInfo Struct Reference . . . 345
8.306.1 Detailed Description . . . 345
8.306.2 Field Documentation . . . 346
8.306.2.1 pRegMgrConfigEvents . . . 346
8.306.2.2 pSIPConfigEvents . . . 346
8.306.2.3 pSMSConfigEvents . . . 346
8.306.2.4 pUserConfigEvents . . . 346
8.306.2.5 pVoIPConfigEvents . . . 346
8.307imsRegMgrConfigInfo Struct Reference . . . 346
8.307.1 Detailed Description . . . 346
8.307.2 Field Documentation . . . 347
8.307.2.1 pCSCFPortName . . . 347
8.307.2.2 pIMSTestMode . . . 347
8.307.2.3 pPriCSCFPort . . . 347
8.308imsSIPConfigInfo Struct Reference . . . 347
8.308.1 Detailed Description . . . 347
8.308.2 Field Documentation . . . 348
8.308.2.1 pSigCompEnabled . . . 348
8.308.2.2 pSIPLocalPort . . . 348
8.308.2.3 pSubscribeTimer . . . 348
8.308.2.4 pTimerSIPReg . . . 348
8.308.2.5 pTimerT1 . . . 348
8.308.2.6 pTimerT2 . . . 348
8.308.2.7 pTimerTf . . . 348
8.309imsSMSConfigInfo Struct Reference . . . 348
8.309.1 Detailed Description . . . 348
8.309.2 Field Documentation . . . 348
8.309.2.1 pPhoneCtxtURI . . . 348
8.309.2.2 pSMSFormat . . . 348
8.309.2.3 pSMSOverIPNwInd . . . 348
8.310imsUserConfigInfo Struct Reference . . . 349
8.310.1 Detailed Description . . . 349
8.310.2 Field Documentation . . . 349

8.310.2.1 pIMSDomain . . . 349
8.311 imsVoIPConfigInfo Struct Reference . . . 349
8.311.1 Detailed Description . . . 349
8.311.2 Field Documentation . . . 351
8.311.2.1 pAmrMode . . . 351
8.311.2.2 pAmrOctetAligned . . . 351
8.311.2.3 pAmrWbEnable . . . 351
8.311.2.4 pAmrWBMode . . . 351
8.311.2.5 pAmrWBOctetAligned . . . 351
8.311.2.6 pMinSessionExpiryTimer . . . 351
8.311.2.7 pRingBackTimer . . . 351
8.311.2.8 pRingingTimer . . . 351
8.311.2.9 pRTPRTCPInactTimer . . . 351
8.311.2.10 pScrAmrEnable . . . 351
8.311.2.11 pScrAmrWbEnable . . . 351
8.311.2.12 pSessionExpiryTimer . . . 351
8.312 IndFieldsList Struct Reference . . . 351
8.312.1 Detailed Description . . . 352
8.312.2 Field Documentation . . . 352
8.312.2.1 indicationFields . . . 352
8.312.2.2 indicationFieldsLen . . . 352
8.313 infoInterFreq Struct Reference . . . 352
8.313.1 Detailed Description . . . 352
8.313.2 Field Documentation . . . 353
8.313.2.1 cell_resel_priority . . . 353
8.313.2.2 cellInterFreqParams . . . 353
8.313.2.3 cells_len . . . 353
8.313.2.4 earfcn . . . 353
8.313.2.5 threshXHigh . . . 353
8.313.2.6 threshXLow . . . 353
8.314 IOThresh Struct Reference . . . 353
8.314.1 Detailed Description . . . 353
8.314.2 Field Documentation . . . 354
8.314.2.1 IOThresListLen . . . 354
8.314.2.2 pIOThresList . . . 354
8.315 IPv4Addr Struct Reference . . . 354
8.315.1 Detailed Description . . . 354
8.315.2 Field Documentation . . . 354
8.315.2.1 addr . . . 354
8.315.2.2 subnetMask . . . 354

8.316 IPv4Config Struct Reference . . . 354
8.316.1 Detailed Description . . . 354
8.316.2 Field Documentation . . . 355
8.316.2.1 IPv4Addr . . . 355
8.316.2.2 IPv4Port . . . 355
8.317 IPv4Info Struct Reference . . . 355
8.317.1 Detailed Description . . . 355
8.317.2 Field Documentation . . . 355
8.317.2.1 address . . . 355
8.317.2.2 port . . . 355
8.317.2.3 TlvPresent . . . 355
8.318 IPv6Addr Struct Reference . . . 355
8.318.1 Detailed Description . . . 355
8.318.2 Field Documentation . . . 356
8.318.2.1 addr . . . 356
8.318.2.2 prefixLen . . . 356
8.319 IPV6AddressInfo Struct Reference . . . 356
8.319.1 Detailed Description . . . 356
8.319.2 Field Documentation . . . 356
8.319.2.1 IPAddressV6 . . . 356
8.319.2.2 IPV6PrefixLen . . . 356
8.320 ipv6AddressInfo Struct Reference . . . 356
8.320.1 Detailed Description . . . 356
8.320.2 Field Documentation . . . 357
8.320.2.1 IPAddressV6 . . . 357
8.320.2.2 IPV6PrefixLen . . . 357
8.321 IPv6Config Struct Reference . . . 357
8.321.1 Detailed Description . . . 357
8.321.2 Field Documentation . . . 357
8.321.2.1 IPv6Addr . . . 357
8.321.2.2 IPv6Port . . . 357
8.322 IPV6GWAddressInfo Struct Reference . . . 357
8.322.1 Detailed Description . . . 357
8.322.2 Field Documentation . . . 358
8.322.2.1 gwAddressV6 . . . 358
8.322.2.2 gwV6PrefixLen . . . 358
8.323 IPv6Info Struct Reference . . . 358
8.323.1 Detailed Description . . . 358
8.323.2 Field Documentation . . . 358
8.323.2.1 address . . . 358

8.323.2.2 port . . . 358
8.323.2.3 TlvPresent . . . 358
8.324 IPv6TrafCls Struct Reference . . . 358
8.324.1 Detailed Description . . . 359
8.324.2 Field Documentation . . . 359
8.324.2.1 mask . . . 359
8.324.2.2 val . . . 359
8.325 LibPackGPRSRequestedQoS Struct Reference . . . 359
8.325.1 Detailed Description . . . 359
8.325.2 Field Documentation . . . 360
8.325.2.1 delayClass . . . 360
8.325.2.2 meanThroughputClass . . . 360
8.325.2.3 peakThroughputClass . . . 360
8.325.2.4 precedenceClass . . . 360
8.325.2.5 reliabilityClass . . . 360
8.326 LibpackProfile3GPP Struct Reference . . . 360
8.326.1 Detailed Description . . . 361
8.326.2 Field Documentation . . . 365
8.326.2.1 pAddrAllocPref . . . 365
8.326.2.2 pAPNClass . . . 365
8.326.2.3 pAPNDisabledFlag . . . 365
8.326.2.4 pAPNName . . . 365
8.326.2.5 pAPNnameSize . . . 365
8.326.2.6 pAuthenticationPref . . . 365
8.326.2.7 pGPRSMinimumQoS . . . 365
8.326.2.8 pGPRSRequestedQos . . . 366
8.326.2.9 pImCnFlag . . . 366
8.326.2.10 pIPv4AddrPref . . . 366
8.326.2.11 pIPv6AddPref . . . 366
8.326.2.12 pPassword . . . 366
8.326.2.13 pPasswordSize . . . 366
8.326.2.14 pPcscfAddrUsingDhcp . . . 366
8.326.2.15 pPcscfAddrUsingPCO . . . 366
8.326.2.16 pPDNInactivTimeout . . . 366
8.326.2.17 pPdpAccessConFlag . . . 366
8.326.2.18 pPdpContext . . . 366
8.326.2.19 pPdpDataCompType . . . 366
8.326.2.20 pPdpHdrCompType . . . 366
8.326.2.21 pPDPtype . . . 366
8.326.2.22 pPriDNSIPv4AddPref . . . 366

8.326.2.23 pPriDNSIPv6addpref . . . 366
8.326.2.24 pPrimaryID . . . 366
8.326.2.25 pProfilename . . . 366
8.326.2.26 pProfilenameSize . . . 366
8.326.2.27 pQosClassID . . . 366
8.326.2.28 pSecDNSIPv4AddPref . . . 366
8.326.2.29 pSecDNSIPv6addpref . . . 366
8.326.2.30 pSecondaryFlag . . . 366
8.326.2.31 pSupportEmergencyCalls . . . 366
8.326.2.32 pTFTID1Params . . . 366
8.326.2.33 pTFTID2Params . . . 366
8.326.2.34 pUMTSMinQoS . . . 366
8.326.2.35 pUMTSMinQosSigInd . . . 366
8.326.2.36 pUMTSReqQoS . . . 367
8.326.2.37 pUMTSReqQoSSigInd . . . 367
8.326.2.38 pUsername . . . 367
8.326.2.39 pUsernameSize . . . 367
8.327 LibpackProfile3GPP2 Struct Reference . . . 367
8.327.1 Detailed Description . . . 367
8.327.2 Field Documentation . . . 371
8.327.2.1 pAllowLinger . . . 371
8.327.2.2 pAPNClass3GPP2 . . . 371
8.327.2.3 pAPNEnabled3GPP2 . . . 371
8.327.2.4 pApnString . . . 371
8.327.2.5 pApnStringSize . . . 371
8.327.2.6 pAppPriority . . . 371
8.327.2.7 pAppType . . . 371
8.327.2.8 pAuthPassword . . . 371
8.327.2.9 pAuthPasswordSize . . . 371
8.327.2.10 pAuthProtocol . . . 371
8.327.2.11 pAuthRetryCount . . . 371
8.327.2.12 pAuthTimeout . . . 371
8.327.2.13 pDataMode . . . 371
8.327.2.14 pDataRate . . . 371
8.327.2.15 pIpcpAckTimeout . . . 371
8.327.2.16 pIpcpCreqRetryCount . . . 371
8.327.2.17 pIsPcscfAddressNedded . . . 371
8.327.2.18 pLcpAckTimeout . . . 371
8.327.2.19 pLcpCreqRetryCount . . . 372
8.327.2.20 pNegoDnsSrvrPref . . . 372

8.327.2.21 pPDNInactivTimeout3GPP2 . . . 372
8.327.2.22 pPdnType . . . 372
8.327.2.23 pPppSessCloseTimer1x . . . 372
8.327.2.24 pPppSessCloseTimerDO . . . 372
8.327.2.25 pPrimaryV4DnsAddress . . . 372
8.327.2.26 pPriV6DnsAddress . . . 372
8.327.2.27 pRATType . . . 372
8.327.2.28 pSecondaryV4DnsAddress . . . 372
8.327.2.29 pSecV6DnsAddress . . . 372
8.327.2.30 pUserId . . . 372
8.327.2.31 pUserIdSize . . . 372
8.328 LibPackprofile_3GPP Struct Reference . . . 372
8.328.1 Detailed Description . . . 373
8.328.2 Field Documentation . . . 376
8.328.2.1 pAddrAllocPref . . . 377
8.328.2.2 pAPNClass . . . 377
8.328.2.3 pAPNDisabledFlag . . . 377
8.328.2.4 pAPNName . . . 377
8.328.2.5 pAPNnameSize . . . 377
8.328.2.6 pAuthenticationPref . . . 377
8.328.2.7 pGPRSMinimumQoS . . . 377
8.328.2.8 pGPRSRequestedQos . . . 377
8.328.2.9 pImCnFlag . . . 377
8.328.2.10 pIPv4AddrPref . . . 377
8.328.2.11 pIPv6AddPref . . . 377
8.328.2.12 pPassword . . . 377
8.328.2.13 pPasswordSize . . . 377
8.328.2.14 pPcscfAddrUsingDhcp . . . 377
8.328.2.15 pPcscfAddrUsingPCO . . . 377
8.328.2.16 pPDNInactivTimeout . . . 377
8.328.2.17 pPdpAccessConFlag . . . 377
8.328.2.18 pPdpContext . . . 377
8.328.2.19 pPdpDataCompType . . . 377
8.328.2.20 pPdpHdrCompType . . . 377
8.328.2.21 pPDPtype . . . 377
8.328.2.22 pPriDNSIPv4AddPref . . . 377
8.328.2.23 pPriDNSIPv6addpref . . . 377
8.328.2.24 pPrimaryID . . . 377
8.328.2.25 pProfilename . . . 377
8.328.2.26 pProfilenameSize . . . 377

8.328.2.27 pQosClassID . . . 377
8.328.2.28 pSecDNSIPv4AddPref . . . 377
8.328.2.29 pSecDNSIPv6addpref . . . 378
8.328.2.30 pSecondaryFlag . . . 378
8.328.2.31 pSupportEmergencyCalls . . . 378
8.328.2.32 pTFTID1Params . . . 378
8.328.2.33 pTFTID2Params . . . 378
8.328.2.34 pUMTSMinQoS . . . 378
8.328.2.35 pUMTSMinQosSigInd . . . 378
8.328.2.36 pUMTSReqQoS . . . 378
8.328.2.37 pUMTSReqQoSSigInd . . . 378
8.328.2.38 pUsername . . . 378
8.328.2.39 pUsernameSize . . . 378
8.329 LibPackprofile_3GPP2 Struct Reference . . . 378
8.329.1 Detailed Description . . . 379
8.329.2 Field Documentation . . . 382
8.329.2.1 pAllowLinger . . . 382
8.329.2.2 pAPNClass3GPP2 . . . 382
8.329.2.3 pAPNEnabled3GPP2 . . . 382
8.329.2.4 pApnString . . . 382
8.329.2.5 pApnStringSize . . . 382
8.329.2.6 pAppPriority . . . 382
8.329.2.7 pAppType . . . 382
8.329.2.8 pAuthPassword . . . 382
8.329.2.9 pAuthPassword_tSize . . . 382
8.329.2.10 pAuthProtocol . . . 382
8.329.2.11 pAuthRetryCount . . . 382
8.329.2.12 pAuthTimeout . . . 382
8.329.2.13 pDataMode . . . 382
8.329.2.14 pDataRate . . . 382
8.329.2.15 pIpcpAckTimeout . . . 383
8.329.2.16 pIpcpCreqRetryCount . . . 383
8.329.2.17 pIsPcscfAddressNedded . . . 383
8.329.2.18 pLcpAckTimeout . . . 383
8.329.2.19 pLcpCreqRetryCount . . . 383
8.329.2.20 pNegoDnsSrvrPref . . . 383
8.329.2.21 pPDNInactivTimeout3GPP2 . . . 383
8.329.2.22 pPdnType . . . 383
8.329.2.23 pPppSessCloseTimer1x . . . 383
8.329.2.24 pPppSessCloseTimerDO . . . 383

8.329.2.25 pPrimaryV4DnsAddress . . . 383
8.329.2.26 pPriV6DnsAddress . . . 383
8.329.2.27 pRATType . . . 383
8.329.2.28 pSecondaryV4DnsAddress . . . 383
8.329.2.29 pSecV6DnsAddress . . . 383
8.329.2.30 pUserId . . . 383
8.329.2.31 pUserIdSize . . . 383
8.330 LibPackQosClassID Struct Reference . . . 383
8.330.1 Detailed Description . . . 383
8.330.2 Field Documentation . . . 384
8.330.2.1 gDlBitRate . . . 384
8.330.2.2 gUlBitRate . . . 384
8.330.2.3 maxDlBitRate . . . 384
8.330.2.4 maxUlBitRate . . . 384
8.330.2.5 QCI . . . 384
8.331 LibPackTFTIDParams Struct Reference . . . 384
8.331.1 Detailed Description . . . 384
8.331.2 Field Documentation . . . 385
8.331.2.1 destPortRangeEnd . . . 385
8.331.2.2 destPortRangeStart . . . 385
8.331.2.3 eValid . . . 386
8.331.2.4 filterId . . . 386
8.331.2.5 flowLabel . . . 386
8.331.2.6 IPSECSPI . . . 386
8.331.2.7 ipVersion . . . 386
8.331.2.8 nextHeader . . . 386
8.331.2.9 pSourceIP . . . 386
8.331.2.10 sourceIPMask . . . 386
8.331.2.11 srcPortRangeEnd . . . 386
8.331.2.12 srcPortRangeStart . . . 386
8.331.2.13 tosMask . . . 386
8.332 LibPackUMTSQoS Struct Reference . . . 386
8.332.1 Detailed Description . . . 386
8.332.2 Field Documentation . . . 388
8.332.2.1 deliveryErrSDU . . . 388
8.332.2.2 grntDownlinkBitrate . . . 388
8.332.2.3 grntUplinkBitrate . . . 388
8.332.2.4 maxDownlinkBitrate . . . 388
8.332.2.5 maxSDUSize . . . 388
8.332.2.6 maxUplinkBitrate . . . 388

8.332.2.7 qosDeliveryOrder . . . 388
8.332.2.8 resBerRatio . . . 388
8.332.2.9 sduErrorRatio . . . 388
8.332.2.10 trafficClass . . . 388
8.332.2.11 trafficPriority . . . 388
8.332.2.12 transferDelay . . . 388
8.333 LibPackUMTSReqQoSSigInd Struct Reference . . . 389
8.333.1 Detailed Description . . . 389
8.333.2 Field Documentation . . . 389
8.333.2.1 SigInd . . . 389
8.333.2.2 UMTSReqQoS . . . 389
8.334 lineCtrlInfo Struct Reference . . . 389
8.334.1 Detailed Description . . . 389
8.334.2 Field Documentation . . . 390
8.334.2.1 polarityIncluded . . . 390
8.334.2.2 pwrDenialTime . . . 390
8.334.2.3 revPolarity . . . 390
8.334.2.4 toggleMode . . . 390
8.335 loc_accelAcceptReady Struct Reference . . . 390
8.335.1 Detailed Description . . . 390
8.335.2 Field Documentation . . . 390
8.335.2.1 batchPerSec . . . 390
8.335.2.2 injectEnable . . . 391
8.335.2.3 samplesPerBatch . . . 391
8.336 loc_accelTempAcceptReady Struct Reference . . . 391
8.336.1 Detailed Description . . . 391
8.336.2 Field Documentation . . . 391
8.336.2.1 batchPerSec . . . 391
8.336.2.2 injectEnable . . . 391
8.336.2.3 samplesPerBatch . . . 391
8.337 loc_BdsSV Struct Reference . . . 391
8.337.1 Detailed Description . . . 392
8.337.2 Field Documentation . . . 392
8.337.2.1 id . . . 392
8.337.2.2 mask . . . 392
8.338 loc_BdsSVInfo Struct Reference . . . 392
8.338.1 Detailed Description . . . 392
8.338.2 Field Documentation . . . 392
8.338.2.1 len . . . 392
8.338.2.2 pSV . . . 392

8.339 loc_CellDb Struct Reference . . . 392
8.339.1 Detailed Description . . . 393
8.339.2 Field Documentation . . . 393
8.339.2.1 mask . . . 393
8.340 loc_ClkInfo Struct Reference . . . 393
8.340.1 Detailed Description . . . 393
8.340.2 Field Documentation . . . 394
8.340.2.1 mask . . . 394
8.341 loc_GnssData Struct Reference . . . 394
8.341.1 Detailed Description . . . 395
8.341.2 Field Documentation . . . 395
8.341.2.1 mask . . . 396
8.342 loc_gpsTime Struct Reference . . . 396
8.342.1 Detailed Description . . . 396
8.342.2 Field Documentation . . . 396
8.342.2.1 gpsTimeOfWeekMs . . . 396
8.342.2.2 gpsWeek . . . 396
8.343 loc_gyroAcceptReady Struct Reference . . . 396
8.343.1 Detailed Description . . . 396
8.343.2 Field Documentation . . . 397
8.343.2.1 batchPerSec . . . 397
8.343.2.2 injectEnable . . . 397
8.343.2.3 samplesPerBatch . . . 397
8.344 loc_gyroTempAcceptReady Struct Reference . . . 397
8.344.1 Detailed Description . . . 397
8.344.2 Field Documentation . . . 398
8.344.2.1 batchPerSec . . . 398
8.344.2.2 injectEnable . . . 398
8.344.2.3 samplesPerBatch . . . 398
8.345 loc_IPv4Config Struct Reference . . . 398
8.345.1 Detailed Description . . . 398
8.345.2 Field Documentation . . . 398
8.345.2.1 IPv4Addr . . . 398
8.345.2.2 IPv4Port . . . 398
8.346 loc_IPv4Info Struct Reference . . . 398
8.346.1 Detailed Description . . . 398
8.346.2 Field Documentation . . . 399
8.346.2.1 address . . . 399
8.346.2.2 port . . . 399
8.346.2.3 TlvPresent . . . 399

8.347 loc_IPv6Config Struct Reference . . . 399
8.347.1 Detailed Description . . . 399
8.347.2 Field Documentation . . . 399
8.347.2.1 IPv6Addr . . . 399
8.347.2.2 IPv6Port . . . 399
8.348 loc_IPv6Info Struct Reference . . . 399
8.348.1 Detailed Description . . . 399
8.348.2 Field Documentation . . . 400
8.348.2.1 address . . . 400
8.348.2.2 port . . . 400
8.348.2.3 TlvPresent . . . 400
8.349 loc_LocApplicationInfo Struct Reference . . . 400
8.349.1 Detailed Description . . . 400
8.349.2 Field Documentation . . . 401
8.349.2.1 appNameLength . . . 401
8.349.2.2 appProviderLength . . . 401
8.349.2.3 appVersionLength . . . 401
8.349.2.4 appVersionValid . . . 401
8.349.2.5 pAppName . . . 401
8.349.2.6 pAppProvider . . . 401
8.349.2.7 pAppVersion . . . 401
8.350 loc_precisionDilution Struct Reference . . . 401
8.350.1 Detailed Description . . . 401
8.350.2 Field Documentation . . . 402
8.350.2.1 HDOP . . . 402
8.350.2.2 PDOP . . . 402
8.350.2.3 VDOP . . . 402
8.351 loc_satelliteInfo Struct Reference . . . 402
8.351.1 Detailed Description . . . 402
8.351.2 Field Documentation . . . 404
8.351.2.1 azimuth . . . 404
8.351.2.2 elevation . . . 404
8.351.2.3 gnssSvId . . . 404
8.351.2.4 healthStatus . . . 404
8.351.2.5 snr . . . 404
8.351.2.6 svInfoMask . . . 404
8.351.2.7 svListLen . . . 404
8.351.2.8 svStatus . . . 404
8.351.2.9 system . . . 404
8.351.2.10 validMask . . . 404

8.352loc_sensorDataUsage Struct Reference . . . 404
8.352.1 Detailed Description . . . 404
8.352.2 Field Documentation . . . 405
8.352.2.1 aidingIndicatorMask . . . 405
8.352.2.2 usageMask . . . 405
8.353loc_SV Struct Reference . . . 405
8.353.1 Detailed Description . . . 405
8.353.2 Field Documentation . . . 406
8.353.2.1 id . . . 406
8.353.2.2 mask . . . 406
8.353.2.3 system . . . 406
8.354loc_SVInfo Struct Reference . . . 406
8.354.1 Detailed Description . . . 406
8.354.2 Field Documentation . . . 406
8.354.2.1 len . . . 406
8.354.2.2 pSV . . . 406
8.355loc_svUsedforFix Struct Reference . . . 406
8.355.1 Detailed Description . . . 406
8.355.2 Field Documentation . . . 407
8.355.2.1 gnssSvUsedList . . . 407
8.355.2.2 gnssSvUsedList_len . . . 407
8.356loc_urlAddr Struct Reference . . . 407
8.356.1 Detailed Description . . . 407
8.356.2 Field Documentation . . . 407
8.356.2.1 address . . . 407
8.356.2.2 TlvPresent . . . 407
8.357loc_URLAddrInfo Struct Reference . . . 407
8.357.1 Detailed Description . . . 408
8.357.2 Field Documentation . . . 408
8.357.2.1 urlAddr . . . 408
8.358LocApplicationInfo Struct Reference . . . 408
8.358.1 Detailed Description . . . 408
8.358.2 Field Documentation . . . 409
8.358.2.1 appNameLength . . . 409
8.358.2.2 appProviderLength . . . 409
8.358.2.3 appVersionLength . . . 409
8.358.2.4 appVersionValid . . . 409
8.358.2.5 pAppName . . . 409
8.358.2.6 pAppProvider . . . 409
8.358.2.7 pAppVersion . . . 409

8.359 LocDelAssDataReq Struct Reference . . . 409
8.359.1 Detailed Description . . . 409
8.359.2 Field Documentation . . . 410
8.359.2.1 pBdsSVInfo . . . 410
8.359.2.2 pCellDb . . . 410
8.359.2.3 pClkInfo . . . 410
8.359.2.4 pGnssData . . . 410
8.359.2.5 pSVInfo . . . 410
8.360 LOCEventRegisterReqResp Struct Reference . . . 410
8.360.1 Detailed Description . . . 410
8.360.2 Field Documentation . . . 412
8.360.2.1 eventRegister . . . 412
8.361 LOCExtPowerStateReqResp Struct Reference . . . 412
8.361.1 Detailed Description . . . 412
8.361.2 Field Documentation . . . 412
8.361.2.1 extPowerState . . . 412
8.362 LocGetServerReq Struct Reference . . . 412
8.362.1 Detailed Description . . . 412
8.362.2 Field Documentation . . . 413
8.362.2.1 pServerAddrTypeMask . . . 413
8.362.2.2 serverType . . . 413
8.363 LocInjectPositionReq Struct Reference . . . 413
8.363.1 Detailed Description . . . 413
8.363.2 Field Documentation . . . 416
8.363.2.1 pAltitudeSrcInfo . . . 416
8.363.2.2 pAltitudeWrtEllipsoid . . . 416
8.363.2.3 pAltitudeWrtMeanSeaLevel . . . 416
8.363.2.4 pHorConfidence . . . 417
8.363.2.5 pHorReliability . . . 417
8.363.2.6 pHorUncCircular . . . 417
8.363.2.7 pLatitude . . . 417
8.363.2.8 pLongitude . . . 417
8.363.2.9 pPositionSrc . . . 417
8.363.2.10 pRawHorConfidence . . . 417
8.363.2.11 pRawHorUncCircular . . . 417
8.363.2.12 pTimestampAge . . . 417
8.363.2.13 pTimestampUtc . . . 417
8.363.2.14 pVertConfidence . . . 417
8.363.2.15 pVertReliability . . . 417
8.363.2.16 pVertUnc . . . 417

8.364 LocInjectSensorDataReq Struct Reference . . . 417
8.364.1 Detailed Description . . . 417
8.364.2 Field Documentation . . . 418
8.364.2.1 pAcceleroData . . . 418
8.364.2.2 pAcceleroTempData . . . 418
8.364.2.3 pAcceleroTimeSrc . . . 418
8.364.2.4 pGyroData . . . 418
8.364.2.5 pGyroTempData . . . 418
8.364.2.6 pGyroTimeSrc . . . 418
8.364.2.7 pOpaqueIdentifier . . . 418
8.365 LocSetCradleMountReq Struct Reference . . . 418
8.365.1 Detailed Description . . . 419
8.365.2 Field Documentation . . . 419
8.365.2.1 pConfidence . . . 419
8.365.2.2 state . . . 419
8.366 LocSetServerReq Struct Reference . . . 419
8.366.1 Detailed Description . . . 419
8.366.2 Field Documentation . . . 420
8.366.2.1 pIPv4Config . . . 420
8.366.2.2 pIPv6Config . . . 420
8.366.2.3 pURLAddr . . . 420
8.366.2.4 serverType . . . 420
8.367 LOCStartReq Struct Reference . . . 420
8.367.1 Detailed Description . . . 420
8.367.2 Field Documentation . . . 421
8.367.2.1 pApplicationInfo . . . 421
8.367.2.2 pConfigAltitudeAssumed . . . 421
8.367.2.3 pHorizontalAccuracyLvl . . . 421
8.367.2.4 pIntermediateReportState . . . 421
8.367.2.5 pMinIntervalTime . . . 421
8.367.2.6 pRecurrenceType . . . 421
8.367.2.7 SessionId . . . 422
8.368 LOCStopReq Struct Reference . . . 422
8.368.1 Detailed Description . . . 422
8.368.2 Field Documentation . . . 422
8.368.2.1 sessionId . . . 422
8.369 LteCQIParm Struct Reference . . . 422
8.369.1 Detailed Description . . . 422
8.369.2 Field Documentation . . . 423
8.369.2.1 CQIValueCW0 . . . 423

8.369.2.2 CQIValueCW1 . . . 423
8.369.2.3 ValidityCW0 . . . 423
8.369.2.4 ValidityCW1 . . . 423
8.370 IteEARFCN Struct Reference . . . 423
8.370.1 Detailed Description . . . 423
8.370.2 Field Documentation . . . 423
8.370.2.1 earfcn0 . . . 423
8.370.2.2 earfcn1 . . . 423
8.370.2.3 status . . . 423
8.371 IteGsmCellInfo Struct Reference . . . 423
8.371.1 Detailed Description . . . 424
8.371.2 Field Documentation . . . 424
8.371.2.1 cellReselPriority . . . 424
8.371.2.2 cells_len . . . 424
8.371.2.3 GsmCellInfo . . . 424
8.371.2.4 nccPermitted . . . 424
8.371.2.5 threshGsmHigh . . . 425
8.371.2.6 threshGsmLow . . . 425
8.372 LTEInfo Struct Reference . . . 425
8.372.1 Detailed Description . . . 425
8.372.2 Field Documentation . . . 426
8.372.2.1 band . . . 426
8.372.2.2 bandwidth . . . 427
8.372.2.3 emmConnState . . . 427
8.372.2.4 emmState . . . 427
8.372.2.5 emmSubState . . . 427
8.372.2.6 RXChan . . . 427
8.372.2.7 TXChan . . . 427
8.373 LTEInfoInterfreq Struct Reference . . . 427
8.373.1 Detailed Description . . . 427
8.373.2 Field Documentation . . . 427
8.373.2.1 freqsLen . . . 427
8.373.2.2 InfoInterfreq . . . 427
8.373.2.3 ueInIdle . . . 427
8.374 LTEInfoIntrafreq Struct Reference . . . 427
8.374.1 Detailed Description . . . 428
8.374.2 Field Documentation . . . 429
8.374.2.1 CellParams . . . 429
8.374.2.2 cellReselPriority . . . 429
8.374.2.3 cellsLen . . . 429

8.374.2.4 earfcn . . . 429
8.374.2.5 globalCellId . . . 429
8.374.2.6 plmn . . . 429
8.374.2.7 servingCellId . . . 429
8.374.2.8 sIntraSearch . . . 429
8.374.2.9 sNonIntraSearch . . . 429
8.374.2.10 tac . . . 429
8.374.2.11 threshServingLow . . . 429
8.374.2.12 ueInIdle . . . 429
8.375 LTEInfoNeighboringGSM Struct Reference . . . 429
8.375.1 Detailed Description . . . 430
8.375.2 Field Documentation . . . 430
8.375.2.1 freqsLen . . . 430
8.375.2.2 LteGsmCellInfo . . . 430
8.375.2.3 ueInIdle . . . 430
8.376 LTEInfoNeighboringWCDMA Struct Reference . . . 430
8.376.1 Detailed Description . . . 430
8.376.2 Field Documentation . . . 431
8.376.2.1 freqsLen . . . 431
8.376.2.2 LTEWCDMACellInfo . . . 431
8.376.2.3 ueInIdle . . . 431
8.377 LteM1BandPrefTlv Struct Reference . . . 431
8.377.1 Detailed Description . . . 431
8.377.2 Field Documentation . . . 432
8.377.2.1 lteM1BandPref . . . 433
8.377.2.2 TlvPresent . . . 433
8.378 LteNasReleaseInfo_s Struct Reference . . . 433
8.378.1 Detailed Description . . . 433
8.378.2 Field Documentation . . . 433
8.378.2.1 nas_major . . . 433
8.378.2.2 nas_minor . . . 433
8.378.2.3 nas_release . . . 433
8.379 LteNb1BandPrefTlv Struct Reference . . . 433
8.379.1 Detailed Description . . . 433
8.379.2 Field Documentation . . . 435
8.379.2.1 lteNb1BandPref . . . 435
8.379.2.2 TlvPresent . . . 435
8.380 LTEOperationMode Struct Reference . . . 435
8.380.1 Detailed Description . . . 435
8.380.2 Field Documentation . . . 435

8.380.2.1 pLTEOperationMode . . . 435
8.380.2.2 TlvPresent . . . 435
8.381 ltePCI Struct Reference . . . 435
8.381.1 Detailed Description . . . 435
8.381.2 Field Documentation . . . 436
8.381.2.1 earfcn . . . 436
8.381.2.2 pci . . . 436
8.381.2.3 status . . . 436
8.382 lteRsrpinformation Struct Reference . . . 436
8.382.1 Detailed Description . . . 436
8.382.2 Field Documentation . . . 436
8.382.2.1 rsrplevel . . . 436
8.383 LTERSRPThresh Struct Reference . . . 436
8.383.1 Detailed Description . . . 436
8.383.2 Field Documentation . . . 437
8.383.2.1 LTERSRPThreshListLen . . . 437
8.383.2.2 pLTERSRPThreshList . . . 437
8.384 LTERSRQThresh Struct Reference . . . 437
8.384.1 Detailed Description . . . 437
8.384.2 Field Documentation . . . 437
8.384.2.1 LTERSRQThreshListLen . . . 437
8.384.2.2 pLTERSRQThreshList . . . 437
8.385 LTERSSIThresh Struct Reference . . . 437
8.385.1 Detailed Description . . . 437
8.385.2 Field Documentation . . . 438
8.385.2.1 LTERSSIThreshListLen . . . 438
8.385.2.2 pLTERSSIThreshList . . . 438
8.386 LteSccRxInfoResp Struct Reference . . . 438
8.386.1 Detailed Description . . . 438
8.386.2 Field Documentation . . . 438
8.386.2.1 pSccRxInfo . . . 438
8.387 LTESigRptCfg Struct Reference . . . 438
8.387.1 Detailed Description . . . 438
8.387.2 Field Documentation . . . 439
8.387.2.1 avgPeriod . . . 439
8.387.2.2 rptRate . . . 439
8.388 LTESigRptConfig Struct Reference . . . 439
8.388.1 Detailed Description . . . 439
8.388.2 Field Documentation . . . 440
8.388.2.1 avgPeriod . . . 440

8.388.2.2 rptRate . . . 440
8.389 IteSnrinformation Struct Reference . . . 440
8.389.1 Detailed Description . . . 440
8.389.2 Field Documentation . . . 440
8.389.2.1 snrlevel . . . 441
8.390 LTESNRThresh Struct Reference . . . 441
8.390.1 Detailed Description . . . 441
8.390.2 Field Documentation . . . 441
8.390.2.1 LTESNRThresListLen . . . 441
8.390.2.2 pLTESNRThresList . . . 441
8.391 LTESNRThreshold Struct Reference . . . 441
8.391.1 Detailed Description . . . 441
8.391.2 Field Documentation . . . 442
8.391.2.1 LTESNRThreshListLen . . . 442
8.391.2.2 pLTESNRThreshList . . . 442
8.392 LTESSInfo Struct Reference . . . 442
8.392.1 Detailed Description . . . 442
8.392.2 Field Documentation . . . 442
8.392.2.1 rsrp . . . 442
8.392.2.2 rsrq . . . 442
8.392.2.3 rssi . . . 443
8.392.2.4 snr . . . 443
8.393 IteSSInfo Struct Reference . . . 443
8.393.1 Detailed Description . . . 443
8.393.2 Field Documentation . . . 443
8.393.2.1 rsrp . . . 443
8.393.2.2 rsrq . . . 443
8.393.2.3 rssi . . . 443
8.393.2.4 snr . . . 443
8.394 LTESysInfo Struct Reference . . . 443
8.394.1 Detailed Description . . . 444
8.394.2 Field Documentation . . . 445
8.394.2.1 cellId . . . 445
8.394.2.2 cellIdValid . . . 445
8.394.2.3 lac . . . 445
8.394.2.4 lacValid . . . 445
8.394.2.5 MCC . . . 446
8.394.2.6 MNC . . . 446
8.394.2.7 networkIdValid . . . 446
8.394.2.8 regRejectInfoValid . . . 446

8.394.2.9 rejCause . . . 446
8.394.2.10 rejectSrvDomain . . . 446
8.394.2.11 sysInfoLTE . . . 446
8.394.2.12 tac . . . 446
8.394.2.13 tacValid . . . 446
8.395 IteWcdmaCellInfo Struct Reference . . . 446
8.395.1 Detailed Description . . . 446
8.395.2 Field Documentation . . . 447
8.395.2.1 cellReselPriority . . . 447
8.395.2.2 cellsLen . . . 447
8.395.2.3 threshXhigh . . . 447
8.395.2.4 threshXlow . . . 447
8.395.2.5 uarfcn . . . 447
8.395.2.6 WCDMACellInfo . . . 447
8.396 messageModeTlv Struct Reference . . . 447
8.396.1 Detailed Description . . . 447
8.396.2 Field Documentation . . . 447
8.396.2.1 MessageModeInfo . . . 447
8.396.2.2 TlvPresent . . . 447
8.397 messageWaitingInfoContent Struct Reference . . . 447
8.397.1 Detailed Description . . . 448
8.397.2 Field Documentation . . . 448
8.397.2.1 activeInd . . . 448
8.397.2.2 msgCount . . . 448
8.397.2.3 msgType . . . 448
8.398 minBasedIMSI Struct Reference . . . 448
8.398.1 Detailed Description . . . 448
8.398.2 Field Documentation . . . 449
8.398.2.1 imsiM1112 . . . 449
8.398.2.2 imsiMS1 . . . 449
8.398.2.3 imsiMS2 . . . 449
8.398.2.4 mccM . . . 449
8.399 mitigationDevList Struct Reference . . . 449
8.399.1 Detailed Description . . . 449
8.399.2 Field Documentation . . . 449
8.399.2.1 maxMitigationLevel . . . 450
8.399.2.2 mitigationDevId . . . 450
8.399.2.3 mitigationDevIdLen . . . 450
8.400 MNRInfo Struct Reference . . . 450
8.400.1 Detailed Description . . . 450

8.400.2 Field Documentation . . . 450
8.400.2.1 mcc . . . 450
8.400.2.2 mnc . . . 450
8.400.2.3 rat . . . 450
8.401 ModifyProfileIn Struct Reference . . . 450
8.401.1 Detailed Description . . . 450
8.401.2 Field Documentation . . . 451
8.401.2.1 curProfile . . . 451
8.401.2.2 pProfileID . . . 451
8.401.2.3 pProfileType . . . 451
8.402 ModifyProfileOut Struct Reference . . . 451
8.402.1 Detailed Description . . . 451
8.402.2 Field Documentation . . . 451
8.402.2.1 pExtErrorCode . . . 451
8.403 msgWaitingInfo Struct Reference . . . 451
8.403.1 Detailed Description . . . 452
8.403.2 Field Documentation . . . 452
8.403.2.1 msgWaitInfo . . . 452
8.403.2.2 numInstances . . . 452
8.404 mtuSize3gppTlv Struct Reference . . . 452
8.404.1 Detailed Description . . . 452
8.404.2 Field Documentation . . . 452
8.404.2.1 MTUSize3gpp . . . 452
8.404.2.2 TlvPresent . . . 452
8.405 MTUSizeReq Struct Reference . . . 453
8.405.1 Detailed Description . . . 453
8.405.2 Field Documentation . . . 453
8.405.2.1 MTUSize . . . 453
8.406 namName Struct Reference . . . 453
8.406.1 Detailed Description . . . 453
8.406.2 Field Documentation . . . 453
8.406.2.1 namName . . . 453
8.406.2.2 namNameLen . . . 453
8.407 nas_acqOrderPref Struct Reference . . . 454
8.407.1 Detailed Description . . . 454
8.407.2 Field Documentation . . . 454
8.407.2.1 acqOrdeLen . . . 454
8.407.2.2 pAcqOrder . . . 454
8.408 nas_AcqOrderPrefTlv Struct Reference . . . 454
8.408.1 Detailed Description . . . 454

8.408.2 Field Documentation . . . 455
8.408.2.1 acqOrdeLen . . . 455
8.408.2.2 pAcqOrder . . . 455
8.408.2.3 TlvPresent . . . 455
8.409 nas_ActPilotPNElement Struct Reference . . . 455
8.409.1 Detailed Description . . . 455
8.409.2 Field Documentation . . . 455
8.409.2.1 ActSetPilotPN . . . 455
8.409.2.2 ActSetPilotPNStrength . . . 455
8.410 nas_AddCDMASysInfo Struct Reference . . . 456
8.410.1 Detailed Description . . . 456
8.410.2 Field Documentation . . . 456
8.410.2.1 geoSysIdx . . . 456
8.410.2.2 regPrd . . . 456
8.411 nas_AddSysInfo Struct Reference . . . 456
8.411.1 Detailed Description . . . 456
8.411.2 Field Documentation . . . 457
8.411.2.1 cellBroadcastCap . . . 457
8.411.2.2 geoSysIdx . . . 457
8.412 nas_BandPrefTlv Struct Reference . . . 457
8.412.1 Detailed Description . . . 457
8.412.2 Field Documentation . . . 459
8.412.2.1 BandPref . . . 459
8.412.2.2 TlvPresent . . . 459
8.413 nas_CallBarringSysInfo Struct Reference . . . 459
8.413.1 Detailed Description . . . 459
8.413.2 Field Documentation . . . 459
8.413.2.1 csBarStatus . . . 459
8.413.2.2 psBarStatus . . . 459
8.414 nas_callBarStatus Struct Reference . . . 459
8.414.1 Detailed Description . . . 460
8.414.2 Field Documentation . . . 460
8.414.2.1 csBarStatus . . . 460
8.414.2.2 psBarStatus . . . 460
8.415 nas_CDMAChannel Struct Reference . . . 460
8.415.1 Detailed Description . . . 460
8.415.2 Field Documentation . . . 461
8.415.2.1 priChA . . . 461
8.415.2.2 priChB . . . 461
8.415.2.3 secChA . . . 461

8.415.2.4 secChB . . . 461
8.416 nas_CDMAECIOThresh Struct Reference . . . 461
8.416.1 Detailed Description . . . 461
8.416.2 Field Documentation . . . 461
8.416.2.1 CDMAECIOThreshListLen . . . 461
8.416.2.2 pCDMAECIOThreshList . . . 462
8.417 nas_CDMAInfo Struct Reference . . . 462
8.417.1 Detailed Description . . . 462
8.417.2 Field Documentation . . . 462
8.417.2.1 baseId . . . 462
8.417.2.2 baseLat . . . 462
8.417.2.3 baseLong . . . 462
8.417.2.4 nid . . . 463
8.417.2.5 refpn . . . 463
8.417.2.6 sid . . . 463
8.418 nas_CDMARSSIThresh Struct Reference . . . 463
8.418.1 Detailed Description . . . 463
8.418.2 Field Documentation . . . 463
8.418.2.1 CDMARSSIThreshListLen . . . 463
8.418.2.2 pCDMARSSIThreshList . . . 463
8.419 nas_CDMASysInfo Struct Reference . . . 463
8.419.1 Detailed Description . . . 464
8.419.2 Field Documentation . . . 466
8.419.2.1 baseId . . . 466
8.419.2.2 baseLat . . . 466
8.419.2.3 baseLong . . . 466
8.419.2.4 bsInfoValid . . . 466
8.419.2.5 bsPRev . . . 466
8.419.2.6 bsPRevValid . . . 466
8.419.2.7 ccsSupported . . . 466
8.419.2.8 ccsSupportedValid . . . 466
8.419.2.9 cdmaSysIdValid . . . 466
8.419.2.10 isSysPrlMatch . . . 466
8.419.2.11 isSysPrlMatchValid . . . 466
8.419.2.12 MCC . . . 466
8.419.2.13 MNC . . . 466
8.419.2.14 networkID . . . 466
8.419.2.15 networkIdValid . . . 467
8.419.2.16 packetZone . . . 467
8.419.2.17 packetZoneValid . . . 467

8.419.2.18 pRevInUse . . . 467
8.419.2.19 pRevInUseValid . . . 467
8.419.2.20 sysInfoCDMA . . . 467
8.419.2.21 systemID . . . 467
8.420 nas_CDMASysInfoExt Struct Reference . . . 467
8.420.1 Detailed Description . . . 467
8.420.2 Field Documentation . . . 467
8.420.2.1 imsi_11_12 . . . 467
8.420.2.2 MCC . . . 467
8.421 nas_cellParams Struct Reference . . . 467
8.421.1 Detailed Description . . . 468
8.421.2 Field Documentation . . . 468
8.421.2.1 pci . . . 468
8.421.2.2 rsrp . . . 468
8.421.2.3 rsrq . . . 468
8.421.2.4 rssi . . . 468
8.421.2.5 srxlev . . . 468
8.422 nas_ciotAcqOrderPref Struct Reference . . . 468
8.422.1 Detailed Description . . . 468
8.422.2 Field Documentation . . . 469
8.422.2.1 ciotAcqOrderLen . . . 469
8.422.2.2 pCiotAcqOrder . . . 469
8.423 nas_CiotAcqOrderPrefTlv Struct Reference . . . 469
8.423.1 Detailed Description . . . 469
8.423.2 Field Documentation . . . 470
8.423.2.1 ciotAcqOrderLen . . . 470
8.423.2.2 pCiotAcqOrder . . . 470
8.423.2.3 TlvPresent . . . 470
8.424 nas_CiotLteOpModePrefTlv Struct Reference . . . 470
8.424.1 Detailed Description . . . 470
8.424.2 Field Documentation . . . 470
8.424.2.1 ciotLteOpModePref . . . 470
8.424.2.2 TlvPresent . . . 470
8.425 nas_CommInfo Struct Reference . . . 470
8.425.1 Detailed Description . . . 471
8.425.2 Field Documentation . . . 472
8.425.2.1 imsRegState . . . 472
8.425.2.2 modemMode . . . 472
8.425.2.3 psState . . . 472
8.425.2.4 systemMode . . . 472

8.425.2.5 temperature . . . 472
8.426 nas_CSGID Struct Reference . . . 472
8.426.1 Detailed Description . . . 472
8.426.2 Field Documentation . . . 473
8.426.2.1 id . . . 473
8.426.2.2 mcc . . . 473
8.426.2.3 mnc . . . 473
8.426.2.4 mncPcsDigits . . . 473
8.426.2.5 rat . . . 473
8.427 nas_currentPLMN Struct Reference . . . 473
8.427.1 Detailed Description . . . 473
8.427.2 Field Documentation . . . 474
8.427.2.1 MCC . . . 474
8.427.2.2 MNC . . . 474
8.427.2.3 netDescr . . . 474
8.427.2.4 netDescrLength . . . 474
8.428 nas_dataSrvCapabilities Struct Reference . . . 474
8.428.1 Detailed Description . . . 474
8.428.2 Field Documentation . . . 475
8.428.2.1 dataCapabilities . . . 475
8.428.2.2 dataCapabilitiesLen . . . 475
8.429 nas_DataStatusDetail Struct Reference . . . 475
8.429.1 Detailed Description . . . 475
8.429.2 Field Documentation . . . 476
8.429.2.1 IPAddress . . . 476
8.429.2.2 LastErrCode . . . 476
8.430 nas_detailSvcInfo Struct Reference . . . 477
8.430.1 Detailed Description . . . 477
8.430.2 Field Documentation . . . 478
8.430.2.1 hdrHybrid . . . 478
8.430.2.2 hdrSrvStatus . . . 478
8.430.2.3 isSysForbidden . . . 478
8.430.2.4 srvCapability . . . 478
8.430.2.5 srvStatus . . . 478
8.431 nas_DeviceConfigDetail Struct Reference . . . 478
8.431.1 Detailed Description . . . 478
8.431.2 Field Documentation . . . 479
8.431.2.1 Chipset . . . 479
8.431.2.2 HWVersion . . . 479
8.431.2.3 QLIC . . . 479

8.431.2.4 Technology . . . 479
8.432 nas_dirNum Struct Reference . . . 479
8.432.1 Detailed Description . . . 479
8.432.2 Field Documentation . . . 479
8.432.2.1 dirNum . . . 479
8.432.2.2 dirNumLen . . . 479
8.433 nas_DRCParams Struct Reference . . . 479
8.433.1 Detailed Description . . . 480
8.433.2 Field Documentation . . . 480
8.433.2.1 DRCCover . . . 480
8.433.2.2 DRCValue . . . 480
8.434 nas_ecioListElement Struct Reference . . . 480
8.434.1 Detailed Description . . . 480
8.434.2 Field Documentation . . . 480
8.434.2.1 ecio . . . 481
8.434.2.2 radioIf . . . 481
8.435 nas_ECIOThresh Struct Reference . . . 481
8.435.1 Detailed Description . . . 481
8.435.2 Field Documentation . . . 481
8.435.2.1 ECIOThresListLen . . . 481
8.435.2.2 pECIOThresList . . . 481
8.436 nas_EmerModeTlv Struct Reference . . . 481
8.436.1 Detailed Description . . . 481
8.436.2 Field Documentation . . . 482
8.436.2.1 EmerMode . . . 482
8.436.2.2 TlvPresent . . . 482
8.437 nas_errorRateListElement Struct Reference . . . 482
8.437.1 Detailed Description . . . 482
8.437.2 Field Documentation . . . 483
8.437.2.1 errorRate . . . 483
8.437.2.2 radioIf . . . 483
8.438 nas_GERANInfo Struct Reference . . . 483
8.438.1 Detailed Description . . . 483
8.438.2 Field Documentation . . . 484
8.438.2.1 arfcn . . . 484
8.438.2.2 bsic . . . 484
8.438.2.3 cellID . . . 484
8.438.2.4 insNmrCellInfo . . . 484
8.438.2.5 lac . . . 484
8.438.2.6 nmrInst . . . 484

8.438.2.7 plmn . . . 484
8.438.2.8 rxLev . . . 484
8.438.2.9 timingAdvance . . . 484
8.439 nas_geranInstInfo Struct Reference . . . 485
8.439.1 Detailed Description . . . 485
8.439.2 Field Documentation . . . 485
8.439.2.1 geranArfcn . . . 485
8.439.2.2 geranBsicBcc . . . 485
8.439.2.3 geranBsicNcc . . . 485
8.439.2.4 geranRssi . . . 485
8.440 nas_gsmCellInfo Struct Reference . . . 485
8.440.1 Detailed Description . . . 486
8.440.2 Field Documentation . . . 486
8.440.2.1 arfcn . . . 486
8.440.2.2 band1900 . . . 486
8.440.2.3 bsicId . . . 486
8.440.2.4 cellIdValid . . . 486
8.440.2.5 rssi . . . 486
8.440.2.6 srxlev . . . 486
8.441 nas_GSMRSSIThresh Struct Reference . . . 486
8.441.1 Detailed Description . . . 487
8.441.2 Field Documentation . . . 487
8.441.2.1 GSMRSSIThreshListLen . . . 487
8.441.2.2 pGSMRSSIThreshList . . . 487
8.442 nas_GSMSrvStatusInfo Struct Reference . . . 487
8.442.1 Detailed Description . . . 487
8.442.2 Field Documentation . . . 488
8.442.2.1 isPrefDataPath . . . 488
8.442.2.2 srvStatus . . . 488
8.442.2.3 trueSrvStatus . . . 488
8.443 nas_GSMSysInfo Struct Reference . . . 488
8.443.1 Detailed Description . . . 488
8.443.2 Field Documentation . . . 490
8.443.2.1 cellId . . . 490
8.443.2.2 cellIdValid . . . 490
8.443.2.3 dtmSupp . . . 490
8.443.2.4 dtmSuppValid . . . 490
8.443.2.5 egprsSupp . . . 490
8.443.2.6 egprsSuppValid . . . 490
8.443.2.7 lac . . . 490

8.443.2.8 lacValid . . . 490
8.443.2.9 MCC . . . 490
8.443.2.10 MNC . . . 490
8.443.2.11 networkIdValid . . . 490
8.443.2.12 regRejectInfoValid . . . 490
8.443.2.13 rejCause . . . 491
8.443.2.14 rejectSrvDomain . . . 491
8.443.2.15 sysInfoGSM . . . 491
8.444 nas_GWAcqOrderPrefTlv Struct Reference . . . 491
8.444.1 Detailed Description . . . 491
8.444.2 Field Documentation . . . 491
8.444.2.1 GWAcqOrderPref . . . 491
8.444.2.2 TlvPresent . . . 491
8.445 nas_HDRECIOThresh Struct Reference . . . 491
8.445.1 Detailed Description . . . 491
8.445.2 Field Documentation . . . 492
8.445.2.1 HDRECIOThreshListLen . . . 492
8.445.2.2 pHDRECIOThreshList . . . 492
8.446 nas_HDRIOThresh Struct Reference . . . 492
8.446.1 Detailed Description . . . 492
8.446.2 Field Documentation . . . 492
8.446.2.1 HDRIOThreshListLen . . . 492
8.446.2.2 pHDRIOThreshList . . . 492
8.447 nas_HDRPersonality_Ind_Data Struct Reference . . . 492
8.447.1 Detailed Description . . . 493
8.447.2 Field Documentation . . . 493
8.447.2.1 pCurrentPersonality . . . 493
8.447.2.2 pPersonalityListLength . . . 493
8.447.2.3 pProtocolSubtypeElement . . . 493
8.448 nas_HDRRSSIThresh Struct Reference . . . 493
8.448.1 Detailed Description . . . 493
8.448.2 Field Documentation . . . 493
8.448.2.1 HDRRSSIThreshListLen . . . 493
8.448.2.2 pHDRRSSIThreshList . . . 493
8.449 nas_HDRSINRThresh Struct Reference . . . 494
8.449.1 Detailed Description . . . 494
8.449.2 Field Documentation . . . 494
8.449.2.1 HDRSINRThresListLen . . . 494
8.449.2.2 pHDRSINRThresList . . . 494
8.450 nas_HDRSINRThreshold Struct Reference . . . 494

8.450.1 Detailed Description . . . 494
8.450.2 Field Documentation . . . 495
8.450.2.1 HDRSINRThreshListLen . . . 495
8.450.2.2 pHDRSINRThreshList . . . 495
8.451 nas_HDRSysInfo Struct Reference . . . 495
8.451.1 Detailed Description . . . 495
8.451.2 Field Documentation . . . 497
8.451.2.1 hdrActiveProt . . . 497
8.451.2.2 hdrActiveProtValid . . . 497
8.451.2.3 hdrPersonality . . . 497
8.451.2.4 hdrPersonalityValid . . . 497
8.451.2.5 is856SysId . . . 497
8.451.2.6 is856SysIdValid . . . 497
8.451.2.7 isSysPrlMatch . . . 497
8.451.2.8 isSysPrlMatchValid . . . 497
8.451.2.9 sysInfoHDR . . . 497
8.452 nas_homeSIDNID Struct Reference . . . 497
8.452.1 Detailed Description . . . 497
8.452.2 Field Documentation . . . 497
8.452.2.1 numInstances . . . 497
8.452.2.2 SidNid . . . 498
8.453 nas_infoInterFreq Struct Reference . . . 498
8.453.1 Detailed Description . . . 498
8.453.2 Field Documentation . . . 498
8.453.2.1 cell_resel_priority . . . 498
8.453.2.2 cellInterFreqParams . . . 499
8.453.2.3 cells_len . . . 499
8.453.2.4 earfcn . . . 499
8.453.2.5 threshXHigh . . . 499
8.453.2.6 threshXLow . . . 499
8.454 nas_IOThresh Struct Reference . . . 499
8.454.1 Detailed Description . . . 499
8.454.2 Field Documentation . . . 499
8.454.2.1 IOThresListLen . . . 499
8.454.2.2 pIOThresList . . . 499
8.455 nas_LTEBandPrefTlv Struct Reference . . . 499
8.455.1 Detailed Description . . . 499
8.455.2 Field Documentation . . . 500
8.455.2.1 LTEBandPref . . . 501
8.455.2.2 TlvPresent . . . 501

8.456 nas_lteEARFCN Struct Reference . . . 501
8.456.1 Detailed Description . . . 501
8.456.2 Field Documentation . . . 501
8.456.2.1 earfcn0 . . . 501
8.456.2.2 earfcn1 . . . 501
8.456.2.3 status . . . 501
8.457 nas_lteGsmCellInfo Struct Reference . . . 501
8.457.1 Detailed Description . . . 501
8.457.2 Field Documentation . . . 502
8.457.2.1 cellReselPriority . . . 502
8.457.2.2 cells_len . . . 502
8.457.2.3 GsmCellInfo . . . 502
8.457.2.4 nccPermitted . . . 502
8.457.2.5 threshGsmHigh . . . 502
8.457.2.6 threshGsmLow . . . 502
8.458 nas_LTEInfo Struct Reference . . . 502
8.458.1 Detailed Description . . . 503
8.458.2 Field Documentation . . . 504
8.458.2.1 band . . . 504
8.458.2.2 bandwidth . . . 504
8.458.2.3 emmConnState . . . 504
8.458.2.4 emmState . . . 504
8.458.2.5 emmSubState . . . 504
8.458.2.6 RXChan . . . 504
8.458.2.7 TXChan . . . 504
8.459 nas_LTEInfoInterfreq Struct Reference . . . 505
8.459.1 Detailed Description . . . 505
8.459.2 Field Documentation . . . 505
8.459.2.1 freqsLen . . . 505
8.459.2.2 InfoInterfreq . . . 505
8.459.2.3 ueInIdle . . . 505
8.460 nas_LTEInfoIntrafreq Struct Reference . . . 505
8.460.1 Detailed Description . . . 506
8.460.2 Field Documentation . . . 507
8.460.2.1 CellParams . . . 507
8.460.2.2 cellReselPriority . . . 507
8.460.2.3 cellsLen . . . 507
8.460.2.4 earfcn . . . 507
8.460.2.5 globalCellId . . . 507
8.460.2.6 plmn . . . 507

8.460.2.7 servingCellId . . . 507
8.460.2.8 sIntraSearch . . . 507
8.460.2.9 sNonIntraSearch . . . 507
8.460.2.10 tac . . . 507
8.460.2.11 threshServingLow . . . 507
8.460.2.12 ueInIdle . . . 507
8.461 nas_LTEInfoNeighboringGSM Struct Reference . . . 507
8.461.1 Detailed Description . . . 508
8.461.2 Field Documentation . . . 508
8.461.2.1 freqsLen . . . 508
8.461.2.2 LteGsmCellInfo . . . 508
8.461.2.3 ueInIdle . . . 508
8.462 nas_LTEInfoNeighboringWCDMA Struct Reference . . . 508
8.462.1 Detailed Description . . . 508
8.462.2 Field Documentation . . . 509
8.462.2.1 freqsLen . . . 509
8.462.2.2 LTEWCDMACellInfo . . . 509
8.462.2.3 ueInIdle . . . 509
8.463 nas_LteM1BandPrefTlv Struct Reference . . . 509
8.463.1 Detailed Description . . . 509
8.463.2 Field Documentation . . . 510
8.463.2.1 lteM1BandPref . . . 511
8.463.2.2 TlvPresent . . . 511
8.464 nas_LteNb1BandPrefTlv Struct Reference . . . 511
8.464.1 Detailed Description . . . 511
8.464.2 Field Documentation . . . 512
8.464.2.1 lteNb1BandPref . . . 513
8.464.2.2 TlvPresent . . . 513
8.465 nas_LTEOperationMode Struct Reference . . . 513
8.465.1 Detailed Description . . . 513
8.465.2 Field Documentation . . . 513
8.465.2.1 pLTEOperationMode . . . 513
8.465.2.2 TlvPresent . . . 513
8.466 nas_ltePCI Struct Reference . . . 513
8.466.1 Detailed Description . . . 513
8.466.2 Field Documentation . . . 514
8.466.2.1 earfcn . . . 514
8.466.2.2 pci . . . 514
8.466.2.3 status . . . 514
8.467 nas_lteRsrpinformation Struct Reference . . . 514

8.467.1 Detailed Description . . . 514
8.467.2 Field Documentation . . . 514
8.467.2.1 rsrplevel . . . 514
8.468 nas_LTERSRPThresh Struct Reference . . . 514
8.468.1 Detailed Description . . . 514
8.468.2 Field Documentation . . . 514
8.468.2.1 LTERSRPThreshListLen . . . 515
8.468.2.2 pLTERSRPThreshList . . . 515
8.469 nas_LTERSRQThresh Struct Reference . . . 515
8.469.1 Detailed Description . . . 515
8.469.2 Field Documentation . . . 515
8.469.2.1 LTERSRQThreshListLen . . . 515
8.469.2.2 pLTERSRQThreshList . . . 515
8.470 nas_LTERSSIThresh Struct Reference . . . 515
8.470.1 Detailed Description . . . 515
8.470.2 Field Documentation . . . 516
8.470.2.1 LTERSSIThreshListLen . . . 516
8.470.2.2 pLTERSSIThreshList . . . 516
8.471 nas_LTESigRptCfg Struct Reference . . . 516
8.471.1 Detailed Description . . . 516
8.471.2 Field Documentation . . . 516
8.471.2.1 avgPeriod . . . 516
8.471.2.2 rptRate . . . 516
8.472 nas_LTESigRptConfig Struct Reference . . . 517
8.472.1 Detailed Description . . . 517
8.472.2 Field Documentation . . . 517
8.472.2.1 avgPeriod . . . 517
8.472.2.2 rptRate . . . 517
8.473 nas_lteSnrinformation Struct Reference . . . 517
8.473.1 Detailed Description . . . 518
8.473.2 Field Documentation . . . 518
8.473.2.1 snrlevel . . . 518
8.474 nas_LTESNRThresh Struct Reference . . . 518
8.474.1 Detailed Description . . . 518
8.474.2 Field Documentation . . . 518
8.474.2.1 LTESNRThresListLen . . . 518
8.474.2.2 pLTESNRThresList . . . 518
8.475 nas_LTESNRThreshold Struct Reference . . . 518
8.475.1 Detailed Description . . . 519
8.475.2 Field Documentation . . . 519

8.475.2.1 LTESNRThreshListLen . . . 519
8.475.2.2 pLTESNRThreshList . . . 519
8.476 nas_LTESysInfo Struct Reference . . . 519
8.476.1 Detailed Description . . . 519
8.476.2 Field Documentation . . . 521
8.476.2.1 cellId . . . 521
8.476.2.2 cellIdValid . . . 521
8.476.2.3 lac . . . 521
8.476.2.4 lacValid . . . 521
8.476.2.5 MCC . . . 521
8.476.2.6 MNC . . . 521
8.476.2.7 networkIdValid . . . 521
8.476.2.8 regRejectInfoValid . . . 521
8.476.2.9 rejCause . . . 521
8.476.2.10 rejectSrvDomain . . . 521
8.476.2.11 sysInfoLTE . . . 521
8.476.2.12 tac . . . 521
8.476.2.13 tacValid . . . 521
8.477 nas_lteWcdmaCellInfo Struct Reference . . . 521
8.477.1 Detailed Description . . . 522
8.477.2 Field Documentation . . . 522
8.477.2.1 cellReselPriority . . . 522
8.477.2.2 cellsLen . . . 522
8.477.2.3 threshXhigh . . . 522
8.477.2.4 threshXlow . . . 522
8.477.2.5 uarfcn . . . 522
8.477.2.6 WCDMACellInfo . . . 522
8.478 nas_minBasedIMSI Struct Reference . . . 522
8.478.1 Detailed Description . . . 523
8.478.2 Field Documentation . . . 523
8.478.2.1 imsiM1112 . . . 523
8.478.2.2 imsiMS1 . . . 523
8.478.2.3 imsiMS2 . . . 523
8.478.2.4 mccM . . . 523
8.479 nas_MNRInfo Struct Reference . . . 523
8.479.1 Detailed Description . . . 523
8.479.2 Field Documentation . . . 524
8.479.2.1 mcc . . . 524
8.479.2.2 mnc . . . 524
8.479.2.3 rat . . . 524

8.480 nas_ModePrefTlv Struct Reference . . . 524
8.480.1 Detailed Description . . . 524
8.480.2 Field Documentation . . . 524
8.480.2.1 ModePref . . . 524
8.480.2.2 TlvPresent . . . 525
8.481 nas_namName Struct Reference . . . 525
8.481.1 Detailed Description . . . 525
8.481.2 Field Documentation . . . 525
8.481.2.1 namName . . . 525
8.481.2.2 namNameLen . . . 525
8.482 nas_netSelectionPref Struct Reference . . . 525
8.482.1 Detailed Description . . . 525
8.482.2 Field Documentation . . . 526
8.482.2.1 mcc . . . 526
8.482.2.2 mnc . . . 526
8.482.2.3 netReg . . . 526
8.483 nas_NetSelPrefTlv Struct Reference . . . 526
8.483.1 Detailed Description . . . 526
8.483.2 Field Documentation . . . 526
8.483.2.1 NetSelPref . . . 526
8.483.2.2 TlvPresent . . . 526
8.484 nas_NetworkStat1x Struct Reference . . . 526
8.484.1 Detailed Description . . . 527
8.484.2 Field Documentation . . . 528
8.484.2.1 ActSetCnt . . . 528
8.484.2.2 NeighborSetCnt . . . 528
8.484.2.3 pActPilotPNElements . . . 528
8.484.2.4 pNeighborSetPilotPN . . . 528
8.484.2.5 RX_EC_IO . . . 528
8.484.2.6 RX_PWR . . . 528
8.484.2.7 SO . . . 528
8.484.2.8 State . . . 528
8.484.2.9 TX_PWR . . . 529
8.485 nas_NetworkStatEVDO Struct Reference . . . 529
8.485.1 Detailed Description . . . 529
8.485.2 Field Documentation . . . 530
8.485.2.1 MACIndex . . . 530
8.485.2.2 PER . . . 530
8.485.2.3 PilotEnergy . . . 530
8.485.2.4 pSectorID . . . 530

8.485.2.5 RX_PWR . . . 530
8.485.2.6 SectorIDLen . . . 530
8.485.2.7 SNR . . . 530
8.485.2.8 State . . . 530
8.486 nas_nmrCellInfo Struct Reference . . . 530
8.486.1 Detailed Description . . . 530
8.486.2 Field Documentation . . . 531
8.486.2.1 nmrArfcn . . . 531
8.486.2.2 nmrBsic . . . 531
8.486.2.3 nmrCellID . . . 531
8.486.2.4 nmrLac . . . 531
8.486.2.5 nmrPlmn . . . 531
8.486.2.6 nmrRxLev . . . 531
8.487 nas_nr5gBandPref Struct Reference . . . 531
8.487.1 Detailed Description . . . 532
8.487.2 Field Documentation . . . 532
8.487.2.1 bits_129_192 . . . 532
8.487.2.2 bits_193_256 . . . 532
8.487.2.3 bits_1_64 . . . 532
8.487.2.4 bits_65_128 . . . 532
8.488 nas_NR5gBandPrefTlv Struct Reference . . . 532
8.488.1 Detailed Description . . . 532
8.488.2 Field Documentation . . . 533
8.488.2.1 bits_129_192 . . . 533
8.488.2.2 bits_193_256 . . . 533
8.488.2.3 bits_1_64 . . . 533
8.488.2.4 bits_65_128 . . . 533
8.488.2.5 TlvPresent . . . 533
8.489 nas_operatorNameString Struct Reference . . . 533
8.489.1 Detailed Description . . . 533
8.489.2 Field Documentation . . . 533
8.489.2.1 PLMNName . . . 533
8.490 nas_OperatorPLMNData Struct Reference . . . 533
8.490.1 Detailed Description . . . 534
8.490.2 Field Documentation . . . 534
8.490.2.1 lac1 . . . 534
8.490.2.2 lac2 . . . 534
8.490.2.3 mcc . . . 534
8.490.2.4 mnc . . . 534
8.490.2.5 PLMNRecID . . . 534

8.491 nas_operatorPLMNList Struct Reference . . . 534
8.491.1 Detailed Description . . . 535
8.491.2 Field Documentation . . . 535
8.491.2.1 numInstance . . . 535
8.491.2.2 PLMNData . . . 535
8.492 nas_PhyCaAggPcellInfo Struct Reference . . . 535
8.492.1 Detailed Description . . . 535
8.492.2 Field Documentation . . . 536
8.492.2.1 dl_bw_value . . . 536
8.492.2.2 freq . . . 536
8.492.2.3 iLTEbandValue . . . 536
8.492.2.4 pci . . . 536
8.492.2.5 TlvPresent . . . 536
8.493 nas_PhyCaAggScellDlBw Struct Reference . . . 536
8.493.1 Detailed Description . . . 536
8.493.2 Field Documentation . . . 536
8.493.2.1 dl_bw_value . . . 536
8.493.2.2 TlvPresent . . . 536
8.494 nas_PhyCaAggScellIndex Struct Reference . . . 536
8.494.1 Detailed Description . . . 536
8.494.2 Field Documentation . . . 537
8.494.2.1 scell_idx . . . 537
8.494.2.2 TlvPresent . . . 537
8.495 nas_PhyCaAggScellIndType Struct Reference . . . 537
8.495.1 Detailed Description . . . 537
8.495.2 Field Documentation . . . 537
8.495.2.1 freq . . . 537
8.495.2.2 pci . . . 537
8.495.2.3 scell_state . . . 537
8.495.2.4 TlvPresent . . . 537
8.496 nas_PhyCaAggScellInfo Struct Reference . . . 538
8.496.1 Detailed Description . . . 538
8.496.2 Field Documentation . . . 540
8.496.2.1 dl_bw_value . . . 540
8.496.2.2 freq . . . 540
8.496.2.3 iLTEbandValue . . . 540
8.496.2.4 pci . . . 540
8.496.2.5 scell_state . . . 540
8.496.2.6 TlvPresent . . . 540
8.497 nas_PilotSetData Struct Reference . . . 540

8.497.1 Detailed Description . . . 540
8.497.2 Field Documentation . . . 540
8.497.2.1 NumPilots . . . 540
8.497.2.2 pPilotSetInfo . . . 540
8.498 nas_PilotSetParams Struct Reference . . . 541
8.498.1 Detailed Description . . . 541
8.498.2 Field Documentation . . . 541
8.498.2.1 PilotPN . . . 541
8.498.2.2 PilotStrength . . . 541
8.498.2.3 PilotType . . . 541
8.499 nas_PLMNNetworkName Struct Reference . . . 541
8.499.1 Detailed Description . . . 541
8.499.2 Field Documentation . . . 542
8.499.2.1 numInstance . . . 542
8.499.2.2 PLMNNetName . . . 542
8.500 nas_PLMNNetworkNameData Struct Reference . . . 542
8.500.1 Detailed Description . . . 542
8.500.2 Field Documentation . . . 543
8.500.2.1 codingScheme . . . 543
8.500.2.2 countryInitials . . . 543
8.500.2.3 longName . . . 543
8.500.2.4 longNameLen . . . 543
8.500.2.5 longNameSpareBits . . . 543
8.500.2.6 shortName . . . 543
8.500.2.7 shortNameLen . . . 543
8.500.2.8 shortNameSpareBits . . . 543
8.501 nas_PRLPrefTlv Struct Reference . . . 543
8.501.1 Detailed Description . . . 544
8.501.2 Field Documentation . . . 544
8.501.2.1 PRLPref . . . 544
8.501.2.2 TlvPresent . . . 544
8.502 nas_protocolSubtypeElement Struct Reference . . . 544
8.502.1 Detailed Description . . . 544
8.502.2 Field Documentation . . . 545
8.502.2.1 AccessMac . . . 545
8.502.2.2 AuthProt . . . 545
8.502.2.3 ControlMac . . . 545
8.502.2.4 EncryptProt . . . 545
8.502.2.5 ForwardMac . . . 545
8.502.2.6 IdleState . . . 545

8.502.2.7 KeyExchange . . . 545
8.502.2.8 MultDisc . . . 545
8.502.2.9 PhysicalLayer . . . 545
8.502.2.10 ReverseMac . . . 545
8.502.2.11 SecProt . . . 545
8.502.2.12 VirtStream . . . 545
8.503 nas_qaQmi3Gpp2TimeZone Struct Reference . . . 546
8.503.1 Detailed Description . . . 546
8.503.2 Field Documentation . . . 546
8.503.2.1 daylightSavings . . . 546
8.503.2.2 leapSeconds . . . 546
8.503.2.3 localTimeOffset . . . 546
8.504 nas_QmiNas3GppNetworkInfo Struct Reference . . . 546
8.504.1 Detailed Description . . . 546
8.504.2 Field Documentation . . . 547
8.504.2.1 Desription . . . 547
8.504.2.2 Forbidden . . . 547
8.504.2.3 InUse . . . 547
8.504.2.4 MCC . . . 547
8.504.2.5 MNC . . . 547
8.504.2.6 Preferred . . . 547
8.504.2.7 Roaming . . . 547
8.505 nas_QmiNas3GppNetworkRAT Struct Reference . . . 548
8.505.1 Detailed Description . . . 548
8.505.2 Field Documentation . . . 548
8.505.2.1 MCC . . . 548
8.505.2.2 MNC . . . 548
8.505.2.3 RAT . . . 548
8.506 nas_QmisNasPcsDigit Struct Reference . . . 548
8.506.1 Detailed Description . . . 548
8.506.2 Field Documentation . . . 549
8.506.2.1 includes_pcs_digit . . . 549
8.506.2.2 MCC . . . 549
8.506.2.3 MNC . . . 549
8.507 nas_RankIndicatorTlv Struct Reference . . . 549
8.507.1 Detailed Description . . . 549
8.507.2 Field Documentation . . . 549
8.507.2.1 count0 . . . 549
8.507.2.2 count1 . . . 549
8.507.2.3 TlvPresent . . . 549

8.508 nas_RatDisabledMaskTlv Struct Reference . . . 549
8.508.1 Detailed Description . . . 550
8.508.2 Field Documentation . . . 550
8.508.2.1 ratDisabledMask . . . 550
8.508.2.2 TlvPresent . . . 550
8.509 nas_RejectReasonTlv Struct Reference . . . 550
8.509.1 Detailed Description . . . 550
8.509.2 Field Documentation . . . 550
8.509.2.1 rejectCause . . . 551
8.509.2.2 serviceDomain . . . 551
8.509.2.3 TlvPresent . . . 551
8.510 nas_RFBandInfoElements Struct Reference . . . 551
8.510.1 Detailed Description . . . 551
8.510.2 Field Documentation . . . 551
8.510.2.1 activeBandClass . . . 551
8.510.2.2 activeChannel . . . 551
8.510.2.3 radioInterface . . . 551
8.511 nas_RfBandInfoExtFormat Struct Reference . . . 551
8.511.1 Detailed Description . . . 551
8.511.2 Field Documentation . . . 552
8.511.2.1 pInstancesSize . . . 552
8.511.2.2 pRfBandInfoExtFormatParam . . . 552
8.511.2.3 TlvPresent . . . 552
8.512 nas_RfBandInfoExtFormatElements Struct Reference . . . 552
8.512.1 Detailed Description . . . 552
8.512.2 Field Documentation . . . 552
8.512.2.1 activeBand . . . 552
8.512.2.2 activeChannel . . . 552
8.512.2.3 radioInterface . . . 553
8.513 nas_RfBandInfoList Struct Reference . . . 553
8.513.1 Detailed Description . . . 553
8.513.2 Field Documentation . . . 553
8.513.2.1 pInstanceSize . . . 553
8.513.2.2 pRFBandInfoParam . . . 553
8.514 nas_RfBandwidthInfo Struct Reference . . . 553
8.514.1 Detailed Description . . . 553
8.514.2 Field Documentation . . . 554
8.514.2.1 pInstancesSize . . . 554
8.514.2.2 pRfBandwidthInfoParam . . . 554
8.514.2.3 TlvPresent . . . 554

8.515 nas_RfBandwidthInfoElements Struct Reference . . . 554
8.515.1 Detailed Description . . . 554
8.515.2 Field Documentation . . . 554
8.515.2.1 bandwidth . . . 554
8.515.2.2 radioInterface . . . 555
8.516 nas_RfDedicatedBandInfo Struct Reference . . . 555
8.516.1 Detailed Description . . . 555
8.516.2 Field Documentation . . . 555
8.516.2.1 pInstancesSize . . . 555
8.516.2.2 pRfDedicatedBandInfoParam . . . 555
8.516.2.3 TlvPresent . . . 555
8.517 nas_RfDedicatedBandInfoElements Struct Reference . . . 555
8.517.1 Detailed Description . . . 555
8.517.2 Field Documentation . . . 556
8.517.2.1 dedicatedBand . . . 556
8.517.2.2 radioInterface . . . 556
8.518 nas_RFInfoTlv Struct Reference . . . 556
8.518.1 Detailed Description . . . 556
8.518.2 Field Documentation . . . 557
8.518.2.1 activeBandClass . . . 557
8.518.2.2 activeChannel . . . 557
8.518.2.3 radioInterface . . . 557
8.518.2.4 radioInterfaceSize . . . 557
8.518.2.5 TlvPresent . . . 557
8.519 nas_roamIndList Struct Reference . . . 557
8.519.1 Detailed Description . . . 557
8.519.2 Field Documentation . . . 557
8.519.2.1 numInstances . . . 558
8.519.2.2 radioInterface . . . 558
8.519.2.3 roamIndicator . . . 558
8.520 nas_RoamPrefTlv Struct Reference . . . 558
8.520.1 Detailed Description . . . 558
8.520.2 Field Documentation . . . 558
8.520.2.1 RoamPref . . . 558
8.520.2.2 TlvPresent . . . 558
8.521 nas_RSRPThresh Struct Reference . . . 558
8.521.1 Detailed Description . . . 558
8.521.2 Field Documentation . . . 559
8.521.2.1 pRSRPThresList . . . 559
8.521.2.2 RSRPThresListLen . . . 559

8.522 nas_rsrqInformation Struct Reference . . . 559
8.522.1 Detailed Description . . . 559
8.522.2 Field Documentation . . . 559
8.522.2.1 radioIf . . . 559
8.522.2.2 rsrq . . . 559
8.523 nas_RSRQThresh Struct Reference . . . 559
8.523.1 Detailed Description . . . 560
8.523.2 Field Documentation . . . 560
8.523.2.1 pRSRQThresList . . . 560
8.523.2.2 RSRQThresListLen . . . 560
8.524 nas_RSSIThresh Struct Reference . . . 560
8.524.1 Detailed Description . . . 560
8.524.2 Field Documentation . . . 561
8.524.2.1 pRSSIThresList . . . 561
8.524.2.2 RSSIThresListLen . . . 561
8.525 nas_rxInfo Struct Reference . . . 561
8.525.1 Detailed Description . . . 561
8.525.2 Field Documentation . . . 562
8.525.2.1 ecio . . . 562
8.525.2.2 isRadioTuned . . . 562
8.525.2.3 phase . . . 562
8.525.2.4 rscp . . . 562
8.525.2.5 rsrp . . . 562
8.525.2.6 rxPower . . . 562
8.526 nas_RxSigInfo Struct Reference . . . 562
8.526.1 Detailed Description . . . 562
8.526.2 Field Documentation . . . 563
8.526.2.1 isRadioTuned . . . 563
8.526.2.2 rsrp . . . 563
8.526.2.3 rxChainIndex . . . 563
8.526.2.4 rxPower . . . 563
8.527 nas_rxSignalStrengthListElement Struct Reference . . . 563
8.527.1 Detailed Description . . . 563
8.527.2 Field Documentation . . . 564
8.527.2.1 radioIf . . . 564
8.527.2.2 rxSignalStrength . . . 564
8.528 nas_SccRxInfo Struct Reference . . . 564
8.528.1 Detailed Description . . . 564
8.528.2 Field Documentation . . . 565
8.528.2.1 numInstances . . . 565

8.528.2.2 rsrq . . . 565
8.528.2.3 sigInfo . . . 565
8.528.2.4 snr . . . 565
8.528.2.5 TlvPresent . . . 565
8.529 nas_serviceProviderName Struct Reference . . . 565
8.529.1 Detailed Description . . . 565
8.529.2 Field Documentation . . . 565
8.529.2.1 displayCondition . . . 565
8.529.2.2 spn . . . 565
8.529.2.3 spnLength . . . 565
8.530 nas_servSystem Struct Reference . . . 566
8.530.1 Detailed Description . . . 566
8.530.2 Field Documentation . . . 567
8.530.2.1 csAttachState . . . 567
8.530.2.2 numRadioInterfaces . . . 567
8.530.2.3 psAttachState . . . 567
8.530.2.4 radioInterface . . . 567
8.530.2.5 regState . . . 567
8.530.2.6 selNetwork . . . 567
8.531 nas_sidNid Struct Reference . . . 567
8.531.1 Detailed Description . . . 567
8.531.2 Field Documentation . . . 567
8.531.2.1 nid . . . 567
8.531.2.2 sid . . . 567
8.532 nas_SignalStrengthTlv Struct Reference . . . 568
8.532.1 Detailed Description . . . 568
8.532.2 Field Documentation . . . 568
8.532.2.1 radioInterface . . . 568
8.532.2.2 signalStrength . . . 568
8.532.2.3 TlvPresent . . . 568
8.533 nas_SLQSSignalStrengthsIndReq Struct Reference . . . 568
8.533.1 Detailed Description . . . 568
8.533.2 Field Documentation . . . 569
8.533.2.1 ecioDelta . . . 569
8.533.2.2 ecioThresholdList . . . 569
8.533.2.3 ecioThresholdListLen . . . 570
8.533.2.4 ioDelta . . . 570
8.533.2.5 lteRsrpDelta . . . 570
8.533.2.6 lteSnrDelta . . . 570
8.533.2.7 rsrqDelta . . . 570

8.533.2.8 rxSignalStrengthDelta . . . 570
8.533.2.9 sinrDelta . . . 570
8.533.2.10 sinrThresholdList . . . 570
8.533.2.11 sinrThresholdListLen . . . 570
8.534 nas_SLQSSignalStrengthsInformation Struct Reference . . . 570
8.534.1 Detailed Description . . . 570
8.534.2 Field Documentation . . . 570
8.534.2.1 ecioInfo . . . 570
8.534.2.2 errorRateInfo . . . 570
8.534.2.3 io . . . 570
8.534.2.4 lteRsrpinfo . . . 571
8.534.2.5 lteSnrinfo . . . 571
8.534.2.6 rsrqInfo . . . 571
8.534.2.7 rxSignalStrengthInfo . . . 571
8.534.2.8 sinr . . . 571
8.535 nas_SLQSSignalStrengthsTlv Struct Reference . . . 571
8.535.1 Detailed Description . . . 571
8.535.2 Field Documentation . . . 571
8.535.2.1 sSLQSSignalStrengthsInfo . . . 571
8.535.2.2 TlvPresent . . . 571
8.536 nas_SrvDomainPrefTlv Struct Reference . . . 571
8.536.1 Detailed Description . . . 571
8.536.2 Field Documentation . . . 572
8.536.2.1 SrvDomainPref . . . 572
8.536.2.2 TlvPresent . . . 572
8.537 nas_SrvStatusInfo Struct Reference . . . 572
8.537.1 Detailed Description . . . 572
8.537.2 Field Documentation . . . 572
8.537.2.1 isPrefDataPath . . . 573
8.537.2.2 srvStatus . . . 573
8.538 nas_sysInfoCommon Struct Reference . . . 573
8.538.1 Detailed Description . . . 573
8.538.2 Field Documentation . . . 574
8.538.2.1 isSysForbidden . . . 574
8.538.2.2 isSysForbiddenValid . . . 574
8.538.2.3 roamStatus . . . 574
8.538.2.4 roamStatusValid . . . 574
8.538.2.5 srvCapability . . . 575
8.538.2.6 srvCapabilityValid . . . 575
8.538.2.7 srvDomain . . . 575

8.538.2.8 srvDomainValid . . . 575
8.539 nas_TDSCDMAECIOThresh Struct Reference . . . 575
8.539.1 Detailed Description . . . 575
8.539.2 Field Documentation . . . 575
8.539.2.1 pTDSCDMAECIOThreshList . . . 575
8.539.2.2 TDSCDMAECIOThreshListLen . . . 575
8.540 nas_TDSCDMARSCPThresh Struct Reference . . . 575
8.540.1 Detailed Description . . . 575
8.540.2 Field Documentation . . . 576
8.540.2.1 pTDSCDMARSCPThreshList . . . 576
8.540.2.2 TDSCDMARSCPThreshListLen . . . 576
8.541 nas_TDSCDMARSSIThresh Struct Reference . . . 576
8.541.1 Detailed Description . . . 576
8.541.2 Field Documentation . . . 576
8.541.2.1 pTDSCDMARSSIThreshList . . . 576
8.541.2.2 TDSCDMARSSIThreshListLen . . . 576
8.542 nas_TDSCDMASINRCONFThresh Struct Reference . . . 576
8.542.1 Detailed Description . . . 576
8.542.2 Field Documentation . . . 577
8.542.2.1 pTDSCDMASINRCONFThreshList . . . 577
8.542.2.2 TDSCDMASINRCONFThreshListLen . . . 577
8.543 nas_TDSCDMASINRThresh Struct Reference . . . 577
8.543.1 Detailed Description . . . 577
8.543.2 Field Documentation . . . 577
8.543.2.1 pTDSCDMASINRThreshList . . . 577
8.543.2.2 TDSCDMASINRThreshListLen . . . 577
8.544 nas_timeInfo Struct Reference . . . 577
8.544.1 Detailed Description . . . 578
8.544.2 Field Documentation . . . 579
8.544.2.1 day . . . 579
8.544.2.2 dayLtSavingAdj . . . 579
8.544.2.3 dayOfWeek . . . 579
8.544.2.4 hour . . . 579
8.544.2.5 minute . . . 579
8.544.2.6 month . . . 579
8.544.2.7 radioInterface . . . 579
8.544.2.8 second . . . 579
8.544.2.9 timeZone . . . 579
8.544.2.10 TlvPresent . . . 579
8.544.2.11 year . . . 579

8.545 nas_trueIMSI Struct Reference . . . 579
8.545.1 Detailed Description . . . 579
8.545.2 Field Documentation . . . 580
8.545.2.1 imsiT1112 . . . 580
8.545.2.2 imsiTaddrNum . . . 580
8.545.2.3 imsiTS1 . . . 580
8.545.2.4 imsiTS2 . . . 580
8.545.2.5 mccT . . . 580
8.546 nas_txInfo Struct Reference . . . 580
8.546.1 Detailed Description . . . 580
8.546.2 Field Documentation . . . 581
8.546.2.1 isInTraffic . . . 581
8.546.2.2 txPower . . . 581
8.547 nas_UMTSInfo Struct Reference . . . 581
8.547.1 Detailed Description . . . 581
8.547.2 Field Documentation . . . 582
8.547.2.1 cellID . . . 582
8.547.2.2 ecio . . . 582
8.547.2.3 geranInst . . . 582
8.547.2.4 GeranInstInfo . . . 582
8.547.2.5 lac . . . 582
8.547.2.6 plmn . . . 582
8.547.2.7 psc . . . 582
8.547.2.8 rscp . . . 582
8.547.2.9 uarfcn . . . 582
8.547.2.10 umtsInst . . . 582
8.547.2.11 UMTSInstInfo . . . 582
8.548 nas_UMTSinstInfo Struct Reference . . . 582
8.548.1 Detailed Description . . . 583
8.548.2 Field Documentation . . . 583
8.548.2.1 umtsEcio . . . 583
8.548.2.2 umtsPsc . . . 583
8.548.2.3 umtsRscp . . . 583
8.548.2.4 umtsUarfcn . . . 583
8.549 nas_umtsLTENbrCell Struct Reference . . . 583
8.549.1 Detailed Description . . . 583
8.549.2 Field Documentation . . . 584
8.549.2.1 cellIsTDD . . . 584
8.549.2.2 earfcn . . . 584
8.549.2.3 pci . . . 584

8.549.2.4 rsrp . . . 584
8.549.2.5 rsrq . . . 584
8.549.2.6 srxlev . . . 584
8.550 nas_UniversalTime Struct Reference . . . 584
8.550.1 Detailed Description . . . 584
8.550.2 Field Documentation . . . 585
8.550.2.1 day . . . 585
8.550.2.2 dayOfWeek . . . 585
8.550.2.3 hour . . . 585
8.550.2.4 minute . . . 585
8.550.2.5 month . . . 585
8.550.2.6 second . . . 585
8.550.2.7 year . . . 585
8.551 nas_wcdmaCellInfo Struct Reference . . . 585
8.551.1 Detailed Description . . . 585
8.551.2 Field Documentation . . . 586
8.551.2.1 cpich_ecno . . . 586
8.551.2.2 cpich_rscp . . . 586
8.551.2.3 psc . . . 586
8.551.2.4 srxlev . . . 586
8.552 nas_WCDMAECIOThresh Struct Reference . . . 586
8.552.1 Detailed Description . . . 586
8.552.2 Field Documentation . . . 587
8.552.2.1 pWCDMAECIOThreshList . . . 587
8.552.2.2 WCDMAECIOThreshListLen . . . 587
8.553 nas_WCDMAInfoLTENeighborCell Struct Reference . . . 587
8.553.1 Detailed Description . . . 587
8.553.2 Field Documentation . . . 587
8.553.2.1 UMTSLTENbrCell . . . 587
8.553.2.2 umtsLTENbrCellLen . . . 587
8.553.2.3 wcdmaRRCState . . . 587
8.554 nas_WCDMARSSIThresh Struct Reference . . . 587
8.554.1 Detailed Description . . . 588
8.554.2 Field Documentation . . . 588
8.554.2.1 pWCDMARSSIThreshList . . . 588
8.554.2.2 WCDMARSSIThreshListLen . . . 588
8.555 nas_WCDMASysInfo Struct Reference . . . 588
8.555.1 Detailed Description . . . 588
8.555.2 Field Documentation . . . 591
8.555.2.1 cellId . . . 591

8.555.2.2 cellIdValid . . . 591
8.555.2.3 hsCallStatus . . . 591
8.555.2.4 hsCallStatusValid . . . 591
8.555.2.5 hsInd . . . 591
8.555.2.6 hsIndValid . . . 591
8.555.2.7 lac . . . 591
8.555.2.8 lacValid . . . 591
8.555.2.9 MCC . . . 591
8.555.2.10 MNC . . . 591
8.555.2.11 networkIdValid . . . 591
8.555.2.12 psc . . . 591
8.555.2.13 pscValid . . . 591
8.555.2.14 regRejectInfoValid . . . 591
8.555.2.15 rejCause . . . 591
8.555.2.16 rejectSrvDomain . . . 591
8.555.2.17 sysInfoWCDMA . . . 591
8.556 nas_wcdmaUARFCN Struct Reference . . . 591
8.556.1 Detailed Description . . . 592
8.556.2 Field Documentation . . . 592
8.556.2.1 status . . . 592
8.556.2.2 uarfcn . . . 592
8.557 NASBandPreferenceTlv Struct Reference . . . 592
8.557.1 Detailed Description . . . 592
8.557.2 Field Documentation . . . 592
8.557.2.1 band_pref . . . 592
8.557.2.2 TlvPresent . . . 592
8.558 nasCellLocationInfoResp Struct Reference . . . 592
8.558.1 Detailed Description . . . 593
8.558.2 Field Documentation . . . 593
8.558.2.1 pCDMAInfo . . . 593
8.558.2.2 pGERANInfo . . . 593
8.558.2.3 pLTEInfoInterfreq . . . 593
8.558.2.4 pLTEInfoIntrafreq . . . 593
8.558.2.5 pLTEInfoNeighboringGSM . . . 593
8.558.2.6 pLTEInfoNeighboringWCDMA . . . 593
8.558.2.7 pUMTSCellID . . . 593
8.558.2.8 pUMTSInfo . . . 594
8.558.2.9 pWCDMAInfoLTENeighborCell . . . 594
8.559 NASEmergencyModeTlv Struct Reference . . . 594
8.559.1 Detailed Description . . . 594

8.559.2 Field Documentation . . . 594
8.559.2.1 EmerMode . . . 594
8.559.2.2 TlvPresent . . . 594
8.560 nasGet3GPP2SubscriptionInfoReq Struct Reference . . . 594
8.560.1 Detailed Description . . . 594
8.560.2 Field Documentation . . . 594
8.560.2.1 namID . . . 594
8.561 nasGet3GPP2SubscriptionInfoResp Struct Reference . . . 594
8.561.1 Detailed Description . . . 595
8.561.2 Field Documentation . . . 595
8.561.2.1 pCDMAChannel . . . 595
8.561.2.2 pDirNum . . . 595
8.561.2.3 pHomeSIDNID . . . 595
8.561.2.4 pMinBasedIMSI . . . 595
8.561.2.5 pNAMNameInfo . . . 595
8.561.2.6 pTrueIMSI . . . 595
8.562 nasGeteDRXParamsResp Struct Reference . . . 595
8.562.1 Detailed Description . . . 596
8.562.2 Field Documentation . . . 596
8.562.2.1 pCycleLen . . . 596
8.562.2.2 pEdrxEnable . . . 596
8.562.2.3 pPagingTimeWindow . . . 596
8.563 nasGetHDRColorCodeResp Struct Reference . . . 596
8.563.1 Detailed Description . . . 596
8.563.2 Field Documentation . . . 596
8.563.2.1 pColorCode . . . 596
8.564 nasGetLTECphyCa Struct Reference . . . 597
8.564.1 Field Documentation . . . 597
8.564.1.1 sPhyCaAggPcellInfo . . . 597
8.564.1.2 sPhyCaAggScellDlBw . . . 597
8.564.1.3 sPhyCaAggScellIndex . . . 597
8.564.1.4 sPhyCaAggScellIndType . . . 597
8.564.1.5 sPhyCaAggScellInfo . . . 597
8.565 NasGetLTECphyCaInfo Struct Reference . . . 597
8.565.1 Detailed Description . . . 597
8.565.2 Field Documentation . . . 598
8.565.2.1 PhyCaAggPcellInfo . . . 598
8.565.2.2 PhyCaAggScellDlBw . . . 598
8.565.2.3 PhyCaAggScellIndex . . . 598
8.565.2.4 PhyCaAggScellIndType . . . 598

8.565.2.5 PhyCaAggScellInfo . . . 598
8.566 nasGetLTECphyCaResp Struct Reference . . . 598
8.566.1 Field Documentation . . . 598
8.566.1.1 pPhyCaAggPcellInfo . . . 598
8.566.1.2 pPhyCaAggScellDlBw . . . 598
8.566.1.3 pPhyCaAggScellIndex . . . 598
8.566.1.4 pPhyCaAggScellIndType . . . 598
8.566.1.5 pPhyCaAggScellInfo . . . 598
8.567 NasGetRFInfoResp Struct Reference . . . 598
8.567.1 Detailed Description . . . 598
8.567.2 Field Documentation . . . 599
8.567.2.1 pLTEOperationMode . . . 599
8.567.2.2 pRfBandInfoExtFormat . . . 599
8.567.2.3 pRfBandwidthInfo . . . 599
8.567.2.4 pRfDedicatedBandInfo . . . 599
8.567.2.5 rfbandInfoList . . . 599
8.568 nasGetSigInfoResp Struct Reference . . . 599
8.568.1 Detailed Description . . . 599
8.568.2 Field Documentation . . . 600
8.568.2.1 pCDMASSInfo . . . 600
8.568.2.2 pGSMSSInfo . . . 600
8.568.2.3 pHDRSSInfo . . . 600
8.568.2.4 pLTESSInfo . . . 600
8.568.2.5 pTDSCDMASigInfoExt . . . 600
8.568.2.6 pTDSCDMASigInfoRscp . . . 600
8.568.2.7 pWCDMASSInfo . . . 600
8.569 nasGetSysInfoResp Struct Reference . . . 600
8.569.1 Detailed Description . . . 601
8.569.2 Field Documentation . . . 602
8.569.2.1 pAddCDMASysInfo . . . 602
8.569.2.2 pAddGSMSysInfo . . . 602
8.569.2.3 pAddHDRSysInfo . . . 602
8.569.2.4 pAddLTESysInfo . . . 602
8.569.2.5 pAddWCDMASysInfo . . . 602
8.569.2.6 pCDMASrvStatusInfo . . . 602
8.569.2.7 pCDMASysInfo . . . 602
8.569.2.8 pGSMCallBarringSysInfo . . . 602
8.569.2.9 pGSMCipherDomainSysInfo . . . 602
8.569.2.10 pGSMSrvStatusInfo . . . 602
8.569.2.11 pGSMSysInfo . . . 603

8.569.2.12 pHDRSrvStatusInfo . . . 603
8.569.2.13 pHDRSysInfo . . . 603
8.569.2.14 pLTESrvStatusInfo . . . 603
8.569.2.15 pLTESysInfo . . . 603
8.569.2.16 pLTEVoiceSupportSysInfo . . . 603
8.569.2.17 pWCDMACallBarringSysInfo . . . 603
8.569.2.18 pWCDMACipherDomainSysInfo . . . 603
8.569.2.19 pWCDMASrvStatusInfo . . . 603
8.569.2.20 pWCDMASysInfo . . . 603
8.570 nasGetTxRxInfoReq Struct Reference . . . 603
8.570.1 Detailed Description . . . 603
8.570.2 Field Documentation . . . 603
8.570.2.1 radio_if . . . 603
8.571 nasGetTxRxInfoResp Struct Reference . . . 603
8.571.1 Detailed Description . . . 604
8.571.2 Field Documentation . . . 604
8.571.2.1 pRXChain0Info . . . 604
8.571.2.2 pRXChain1Info . . . 604
8.571.2.3 pTXInfo . . . 604
8.572 NASGWAcqOrderPrefTlv Struct Reference . . . 604
8.572.1 Detailed Description . . . 604
8.572.2 Field Documentation . . . 604
8.572.2.1 GWAcqOrderPref . . . 604
8.572.2.2 TlvPresent . . . 604
8.573 nasIndicationRegisterReq Struct Reference . . . 604
8.573.1 Detailed Description . . . 605
8.573.2 Field Documentation . . . 607
8.573.2.1 pDDTMInd . . . 607
8.573.2.2 pDualStandByPrefInd . . . 607
8.573.2.3 pErrorRateInd . . . 607
8.573.2.4 pHDRNewUATIAssInd . . . 607
8.573.2.5 pHDRSessionCloseInd . . . 607
8.573.2.6 pLTECphyCa . . . 607
8.573.2.7 pManagedRoamingInd . . . 607
8.573.2.8 pNetworkRejectInd . . . 607
8.573.2.9 pNetworkTimeInd . . . 607
8.573.2.10 pServingSystemInd . . . 607
8.573.2.11 pSignalStrengthInd . . . 607
8.573.2.12 pSubscriptionInfoInd . . . 607
8.573.2.13 pSuppressSysInfoInd . . . 607

8.573.2.14 pSysInfoInd . . . 607
8.573.2.15 pSystemSelectionInd . . . 608
8.574 nasInitNetworkReg Struct Reference . . . 608
8.574.1 Detailed Description . . . 608
8.574.2 Field Documentation . . . 608
8.574.2.1 pChangeDuration . . . 608
8.574.2.2 pMncPcsDigitStatus . . . 608
8.574.2.3 pMNRInfo . . . 608
8.574.2.4 regAction . . . 608
8.575 NASLTEBandPreferenceTlv Struct Reference . . . 608
8.575.1 Detailed Description . . . 609
8.575.2 Field Documentation . . . 609
8.575.2.1 LTEBandPref . . . 609
8.575.2.2 TlvPresent . . . 609
8.576 NASLteNasReleaseInfoTlv Struct Reference . . . 609
8.576.1 Detailed Description . . . 609
8.576.2 Field Documentation . . . 609
8.576.2.1 nas_major . . . 609
8.576.2.2 nas_minor . . . 609
8.576.2.3 nas_release . . . 610
8.576.2.4 TlvPresent . . . 610
8.577 NASModePreferenceTlv Struct Reference . . . 610
8.577.1 Detailed Description . . . 610
8.577.2 Field Documentation . . . 610
8.577.2.1 ModePref . . . 610
8.577.2.2 TlvPresent . . . 610
8.578 NASNetSelPreferenceTlv Struct Reference . . . 610
8.578.1 Detailed Description . . . 610
8.578.2 Field Documentation . . . 610
8.578.2.1 NetSelPref . . . 610
8.578.2.2 TlvPresent . . . 610
8.579 nasNetworkReject Struct Reference . . . 610
8.579.1 Detailed Description . . . 611
8.579.2 Field Documentation . . . 613
8.579.2.1 pCsgId . . . 613
8.579.2.2 pPlmnId . . . 613
8.579.2.3 radioIf . . . 613
8.579.2.4 rejectCause . . . 613
8.579.2.5 serviceDomain . . . 613
8.580 nasNetworkTime Struct Reference . . . 613

8.580.1 Detailed Description . . . 613
8.580.2 Field Documentation . . . 614
8.580.2.1 pDayltSavAdj . . . 614
8.580.2.2 pRadioInterface . . . 614
8.580.2.3 pTimeZone . . . 614
8.580.2.4 universalTime . . . 614
8.581 nasOperatorNameResp Struct Reference . . . 614
8.581.1 Detailed Description . . . 614
8.581.2 Field Documentation . . . 615
8.581.2.1 pNITZInformation . . . 615
8.581.2.2 pOperatorNameString . . . 615
8.581.2.3 pOperatorPLMNList . . . 615
8.581.2.4 pPLMNNetworkName . . . 615
8.581.2.5 pSrvcProviderName . . . 615
8.582 NASOTAMessageTlv Struct Reference . . . 615
8.582.1 Detailed Description . . . 615
8.582.2 Field Documentation . . . 616
8.582.2.1 data_buf . . . 616
8.582.2.2 data_len . . . 616
8.582.2.3 message_type . . . 616
8.582.2.4 TlvPresent . . . 616
8.583 NASPhyCaAggPcellInfo Struct Reference . . . 616
8.583.1 Detailed Description . . . 616
8.583.2 Field Documentation . . . 616
8.583.2.1 dl_bw_value . . . 616
8.583.2.2 freq . . . 616
8.583.2.3 iLTEbandValue . . . 616
8.583.2.4 pci . . . 617
8.583.2.5 TlvPresent . . . 617
8.584 NASPhyCaAggScellDlBw Struct Reference . . . 617
8.584.1 Detailed Description . . . 617
8.584.2 Field Documentation . . . 617
8.584.2.1 dl_bw_value . . . 617
8.584.2.2 TlvPresent . . . 617
8.585 NASPhyCaAggScellIndex Struct Reference . . . 617
8.585.1 Detailed Description . . . 617
8.585.2 Field Documentation . . . 617
8.585.2.1 scell_idx . . . 618
8.585.2.2 TlvPresent . . . 618
8.586 NASPhyCaAggScellIndType Struct Reference . . . 618

8.586.1 Detailed Description . . . 618
8.586.2 Field Documentation . . . 618
8.586.2.1 freq . . . 618
8.586.2.2 pci . . . 618
8.586.2.3 scell_state . . . 618
8.586.2.4 TlvPresent . . . 618
8.587 NASPhyCaAggScellInfo Struct Reference . . . 618
8.587.1 Detailed Description . . . 619
8.587.2 Field Documentation . . . 619
8.587.2.1 dl_bw_value . . . 619
8.587.2.2 freq . . . 619
8.587.2.3 iLTEbandValue . . . 619
8.587.2.4 pci . . . 619
8.587.2.5 scell_state . . . 619
8.587.2.6 TlvPresent . . . 619
8.588 nasPLMNNameReq Struct Reference . . . 619
8.588.1 Detailed Description . . . 620
8.588.2 Field Documentation . . . 620
8.588.2.1 mcc . . . 620
8.588.2.2 mnc . . . 620
8.588.2.3 pMncPcsStatus . . . 620
8.589 nasPLMNNameResp Struct Reference . . . 620
8.589.1 Detailed Description . . . 621
8.589.2 Field Documentation . . . 622
8.589.2.1 longName . . . 622
8.589.2.2 longNameCI . . . 622
8.589.2.3 longNameEn . . . 622
8.589.2.4 longNameLen . . . 622
8.589.2.5 longNameSB . . . 622
8.589.2.6 shortName . . . 622
8.589.2.7 shortNameCI . . . 622
8.589.2.8 shortNameEn . . . 622
8.589.2.9 shortNameLen . . . 622
8.589.2.10 shortNameSB . . . 622
8.589.2.11 spn . . . 622
8.589.2.12 spnEncoding . . . 623
8.589.2.13 spnLength . . . 623
8.590 NASPRLPreferenceTlv Struct Reference . . . 623
8.590.1 Detailed Description . . . 623
8.590.2 Field Documentation . . . 623

8.590.2.1 PRLPref . . . 623
8.590.2.2 TlvPresent . . . 623
8.591 NASQmiCbkNasSwiOTAMessageInd Struct Reference . . . 623
8.591.1 Detailed Description . . . 623
8.591.2 Field Documentation . . . 623
8.591.2.1 nasRelInfoTlv . . . 624
8.591.2.2 otaMsgTlv . . . 624
8.591.2.3 timeTlv . . . 624
8.592 NASQmiCbkNasSystemSelPrefInd Struct Reference . . . 624
8.592.1 Detailed Description . . . 624
8.592.2 Field Documentation . . . 625
8.592.2.1 BPTlv . . . 625
8.592.2.2 EMTlv . . . 625
8.592.2.3 GWAOPTlv . . . 625
8.592.2.4 LBPTlv . . . 625
8.592.2.5 MPTlv . . . 625
8.592.2.6 NSPTlv . . . 625
8.592.2.7 PRLPTlv . . . 625
8.592.2.8 RPTlv . . . 625
8.592.2.9 SDPTlv . . . 625
8.593 NASRoamPreferenceTlv Struct Reference . . . 625
8.593.1 Detailed Description . . . 625
8.593.2 Field Documentation . . . 625
8.593.2.1 RoamPref . . . 625
8.593.2.2 TlvPresent . . . 625
8.594 NASServDomainPrefTlv Struct Reference . . . 625
8.594.1 Detailed Description . . . 626
8.594.2 Field Documentation . . . 626
8.594.2.1 SrvDomainPref . . . 626
8.594.2.2 TlvPresent . . . 626
8.595 NASServingSystemInfo Struct Reference . . . 626
8.595.1 Detailed Description . . . 626
8.595.2 Field Documentation . . . 627
8.595.2.1 csAttachState . . . 627
8.595.2.2 hdrPersonality . . . 627
8.595.2.3 psAttachState . . . 627
8.595.2.4 radioInterfaceList . . . 627
8.595.2.5 radioInterfaceNo . . . 627
8.595.2.6 registrationState . . . 627
8.595.2.7 selectedNetwork . . . 627

8.596 nasSeteDRXParamsReq Struct Reference . . . 627
8.596.1 Detailed Description . . . 627
8.596.2 Field Documentation . . . 628
8.596.2.1 pCycleLen . . . 628
8.596.2.2 pEdrxEnable . . . 628
8.596.2.3 pPagingTimeWindow . . . 628
8.597 nasSigInfo Struct Reference . . . 628
8.597.1 Detailed Description . . . 628
8.597.2 Field Documentation . . . 629
8.597.2.1 pCDMASigInfo . . . 629
8.597.2.2 pGSMSigInfo . . . 629
8.597.2.3 pHDRSigInfo . . . 629
8.597.2.4 pLTESigInfo . . . 629
8.597.2.5 pRscp . . . 629
8.597.2.6 pTDSCDMASigInfoExt . . . 629
8.597.2.7 pWCDMASigInfo . . . 629
8.598 nasSwiGetChannelLockResp Struct Reference . . . 629
8.598.1 Detailed Description . . . 629
8.598.2 Field Documentation . . . 630
8.598.2.1 pLteEARFCN . . . 630
8.598.2.2 pLtePCI . . . 630
8.598.2.3 pWcdmaUARFCN . . . 630
8.599 NasSwiIndReg Struct Reference . . . 630
8.599.1 Detailed Description . . . 630
8.599.2 Field Documentation . . . 631
8.599.2.1 gsmUmtsDl . . . 631
8.599.2.2 gsmUmtsUl . . . 631
8.599.2.3 lteEmmDl . . . 631
8.599.2.4 lteEmmUl . . . 631
8.599.2.5 lteEsmDl . . . 631
8.599.2.6 lteEsmUl . . . 631
8.599.2.7 pRankIndicatorInd . . . 631
8.599.2.8 pTimer . . . 631
8.600 nasSwiSetChannelLockReq Struct Reference . . . 631
8.600.1 Detailed Description . . . 631
8.600.2 Field Documentation . . . 631
8.600.2.1 pLteEARFCN . . . 631
8.600.2.2 pLtePCI . . . 632
8.600.2.3 pWcdmaUARFCN . . . 632
8.601 nasSysInfo Struct Reference . . . 632

8.601.1 Detailed Description . . . 632
8.601.2 Field Documentation . . . 634
8.601.2.1 pAddCDMASysInfo . . . 634
8.601.2.2 pAddGSMSysInfo . . . 634
8.601.2.3 pAddHDRSysInfo . . . 634
8.601.2.4 pAddLTESysInfo . . . 634
8.601.2.5 pAddWCDMASysInfo . . . 634
8.601.2.6 pCDMASrvStatusInfo . . . 634
8.601.2.7 pCDMASysInfo . . . 634
8.601.2.8 pGSMCallBarringSysInfo . . . 634
8.601.2.9 pGSMCipherDomainSysInfo . . . 634
8.601.2.10 pGSMSrvStatusInfo . . . 634
8.601.2.11 pGSMSysInfo . . . 634
8.601.2.12 pHDRSrvStatusInfo . . . 634
8.601.2.13 pHDRSysInfo . . . 634
8.601.2.14 pLTESrvStatusInfo . . . 634
8.601.2.15 pLTESysInfo . . . 634
8.601.2.16 pLTEVoiceSupportSysInfo . . . 634
8.601.2.17 pSysInfoNoChange . . . 634
8.601.2.18 pWCDMACallBarringSysInfo . . . 634
8.601.2.19 pWCDMACipherDomainSysInfo . . . 634
8.601.2.20 pWCDMASrvStatusInfo . . . 635
8.601.2.21 pWCDMASysInfo . . . 635
8.602 NASTimeInfoTlv Struct Reference . . . 635
8.602.1 Detailed Description . . . 635
8.602.2 Field Documentation . . . 635
8.602.2.1 time . . . 635
8.602.2.2 TlvPresent . . . 635
8.603 nasTimers Struct Reference . . . 635
8.603.1 Detailed Description . . . 635
8.603.2 Field Documentation . . . 636
8.603.2.1 t3396_apn . . . 636
8.603.2.2 t3396_plmn_id . . . 636
8.603.2.3 t3396_val . . . 636
8.604 netSelectionPref Struct Reference . . . 636
8.604.1 Detailed Description . . . 636
8.604.2 Field Documentation . . . 636
8.604.2.1 mcc . . . 636
8.604.2.2 mnc . . . 636
8.604.2.3 netReg . . . 636

8.605 NetStats Struct Reference . . . 636
8.605.1 Detailed Description . . . 637
8.605.2 Field Documentation . . . 637
8.605.2.1 rx_bytes . . . 637
8.605.2.2 rx_errors . . . 637
8.605.2.3 rx_overflows . . . 637
8.605.2.4 rx_packets . . . 637
8.605.2.5 tx_bytes . . . 637
8.605.2.6 tx_errors . . . 637
8.605.2.7 tx_overflows . . . 637
8.605.2.8 tx_packets . . . 637
8.606 NetworkDebugResp Struct Reference . . . 638
8.606.1 Detailed Description . . . 638
8.606.2 Field Documentation . . . 638
8.606.2.1 pDataStatusDetail . . . 638
8.606.2.2 pDeviceConfigDetail . . . 638
8.606.2.3 pNetworkStat1x . . . 638
8.606.2.4 pNetworkStatEVDO . . . 638
8.606.2.5 pObjectVer . . . 638
8.607 NetworkStat1x Struct Reference . . . 638
8.607.1 Detailed Description . . . 639
8.607.2 Field Documentation . . . 640
8.607.2.1 ActSetCnt . . . 640
8.607.2.2 NeighborSetCnt . . . 640
8.607.2.3 pActPilotPNElements . . . 640
8.607.2.4 pNeighborSetPilotPN . . . 640
8.607.2.5 RX_EC_IO . . . 640
8.607.2.6 RX_PWR . . . 640
8.607.2.7 SO . . . 640
8.607.2.8 State . . . 640
8.607.2.9 TX_PWR . . . 641
8.608 NetworkStatEVDO Struct Reference . . . 641
8.608.1 Detailed Description . . . 641
8.608.2 Field Documentation . . . 642
8.608.2.1 MACIndex . . . 642
8.608.2.2 PER . . . 642
8.608.2.3 PilotEnergy . . . 642
8.608.2.4 pSectorID . . . 642
8.608.2.5 RX_PWR . . . 642
8.608.2.6 SectorIDLen . . . 642

8.608.2.7 SNR . . . 642
8.608.2.8 State . . . 642
8.609 newMTMessageTlv Struct Reference . . . 642
8.609.1 Detailed Description . . . 642
8.609.2 Field Documentation . . . 643
8.609.2.1 MTMessageInfo . . . 643
8.609.2.2 TlvPresent . . . 643
8.610 newPwdData Struct Reference . . . 643
8.610.1 Detailed Description . . . 643
8.610.2 Field Documentation . . . 643
8.610.2.1 newPwd . . . 643
8.610.2.2 newPwdAgain . . . 643
8.611 nmrCellInfo Struct Reference . . . 643
8.611.1 Detailed Description . . . 644
8.611.2 Field Documentation . . . 644
8.611.2.1 nmrArfcn . . . 644
8.611.2.2 nmrBsic . . . 644
8.611.2.3 nmrCellID . . . 644
8.611.2.4 nmrLac . . . 644
8.611.2.5 nmrPlmn . . . 644
8.611.2.6 nmrRxLev . . . 644
8.612 nr5gBandPref Struct Reference . . . 645
8.612.1 Detailed Description . . . 645
8.612.2 Field Documentation . . . 645
8.612.2.1 bits_129_192 . . . 645
8.612.2.2 bits_193_256 . . . 645
8.612.2.3 bits_1_64 . . . 645
8.612.2.4 bits_65_128 . . . 645
8.613 NR5gBandPrefTlv Struct Reference . . . 645
8.613.1 Detailed Description . . . 645
8.613.2 Field Documentation . . . 646
8.613.2.1 bits_129_192 . . . 646
8.613.2.2 bits_193_256 . . . 646
8.613.2.3 bits_1_64 . . . 646
8.613.2.4 bits_65_128 . . . 646
8.613.2.5 TlvPresent . . . 646
8.614 NSSAudioCtrl Struct Reference . . . 646
8.614.1 Detailed Description . . . 646
8.614.2 Field Documentation . . . 646
8.614.2.1 downLink . . . 646

8.614.2.2 upLink . . . 647
8.615 NWProfile Struct Reference . . . 647
8.615.1 Detailed Description . . . 647
8.615.2 Field Documentation . . . 647
8.615.2.1 pProfSz . . . 647
8.615.2.2 pProfValues . . . 647
8.615.2.3 tech . . . 647
8.616 omaDmConfigTlv Struct Reference . . . 647
8.616.1 Detailed Description . . . 647
8.616.2 Field Documentation . . . 648
8.616.2.1 alertmsg . . . 648
8.616.2.2 alertmsglength . . . 648
8.616.2.3 state . . . 648
8.616.2.4 userInputReq . . . 648
8.616.2.5 userInputTimeout . . . 648
8.617 omaDmConfigTlvExt Struct Reference . . . 648
8.617.1 Detailed Description . . . 648
8.617.2 Field Documentation . . . 650
8.617.2.1 alertmsg . . . 650
8.617.2.2 alertmsglength . . . 650
8.617.2.3 state . . . 650
8.617.2.4 userInputReq . . . 650
8.617.2.5 userInputTimeout . . . 650
8.618 omaDmFotaTlv Struct Reference . . . 650
8.618.1 Detailed Description . . . 650
8.618.2 Field Documentation . . . 651
8.618.2.1 description . . . 651
8.618.2.2 descriptionlength . . . 651
8.618.2.3 fwdloadsize . . . 652
8.618.2.4 fwloadComplete . . . 652
8.618.2.5 namelength . . . 652
8.618.2.6 package_name . . . 652
8.618.2.7 sessionType . . . 652
8.618.2.8 severity . . . 652
8.618.2.9 state . . . 652
8.618.2.10 updateCompleteStatus . . . 652
8.618.2.11 userInputReq . . . 652
8.618.2.12 userInputTimeout . . . 652
8.618.2.13 version . . . 652
8.618.2.14 versionlength . . . 652

8.619 omaDmFotaTlvExt Struct Reference . . . 652
8.619.1 Detailed Description . . . 652
8.619.2 Field Documentation . . . 654
8.619.2.1 description . . . 654
8.619.2.2 descriptionlength . . . 654
8.619.2.3 fumoResultCode . . . 654
8.619.2.4 namelength . . . 654
8.619.2.5 package_name . . . 654
8.619.2.6 packageSize . . . 654
8.619.2.7 receivedBytes . . . 654
8.619.2.8 reserved . . . 654
8.619.2.9 state . . . 654
8.619.2.10 userInputTimeout . . . 654
8.619.2.11 version . . . 654
8.619.2.12 versionlength . . . 654
8.620 omaDmNotificationsTlv Struct Reference . . . 654
8.620.1 Detailed Description . . . 654
8.620.2 Field Documentation . . . 655
8.620.2.1 notification . . . 655
8.620.2.2 sessionStatus . . . 655
8.621 operatorNameString Struct Reference . . . 655
8.621.1 Detailed Description . . . 655
8.621.2 Field Documentation . . . 655
8.621.2.1 PLMNName . . . 656
8.622 OperatorPLMNData Struct Reference . . . 656
8.622.1 Detailed Description . . . 656
8.622.2 Field Documentation . . . 656
8.622.2.1 lac1 . . . 656
8.622.2.2 lac2 . . . 656
8.622.2.3 mcc . . . 656
8.622.2.4 mnc . . . 656
8.622.2.5 PLMNRecID . . . 656
8.623 operatorPLMNList Struct Reference . . . 656
8.623.1 Detailed Description . . . 657
8.623.2 Field Documentation . . . 657
8.623.2.1 numInstance . . . 657
8.623.2.2 PLMNData . . . 657
8.624 pack_dms_ActivateAutomatic_t Struct Reference . . . 657
8.624.1 Detailed Description . . . 657
8.624.2 Field Documentation . . . 657

8.624.2.1 actCode . . . 657
8.625 pack_dms_GetCustFeaturesV2_t Struct Reference . . . 657
8.625.1 Detailed Description . . . 658
8.625.2 Field Documentation . . . 658
8.625.2.1 cust_id . . . 658
8.625.2.2 list_type . . . 658
8.625.2.3 Tlvresult . . . 658
8.626 pack_dms_ResetToFactoryDefaults_t Struct Reference . . . 658
8.626.1 Detailed Description . . . 658
8.626.2 Field Documentation . . . 658
8.626.2.1 spc . . . 658
8.627 pack_dms_SetActivationStatusCallback_t Struct Reference . . . 658
8.627.1 Detailed Description . . . 659
8.627.2 Field Documentation . . . 659
8.627.2.1 activationState . . . 659
8.628 pack_dms_SetCrashAction_t Struct Reference . . . 659
8.628.1 Detailed Description . . . 659
8.628.2 Field Documentation . . . 659
8.628.2.1 crashAction . . . 659
8.629 pack_dms_SetCustFeature_t Struct Reference . . . 659
8.629.1 Detailed Description . . . 660
8.629.2 Field Documentation . . . 661
8.629.2.1 DHCPRelayEnabled . . . 661
8.629.2.2 DisableIMSI . . . 661
8.629.2.3 GpsEnable . . . 661
8.629.2.4 GPSLPM . . . 661
8.629.2.5 GPSSel . . . 661
8.629.2.6 IPFamSupport . . . 661
8.629.2.7 IsVoiceEnabled . . . 661
8.629.2.8 RMAutoConnect . . . 661
8.629.2.9 SMSSupport . . . 661
8.630 pack_dms_SetCustFeaturesV2_t Struct Reference . . . 661
8.630.1 Detailed Description . . . 662
8.630.2 Field Documentation . . . 662
8.630.2.1 cust_id . . . 662
8.630.2.2 cust_value . . . 662
8.630.2.3 Tlvresult . . . 662
8.630.2.4 value_length . . . 662
8.631 pack_dms_SetEventReport_t Struct Reference . . . 662
8.631.1 Detailed Description . . . 662

8.631.2 Field Documentation . . . 662
8.631.2.1 mode . . . 662
8.632 pack_dms_SetIndicationRegister_t Struct Reference . . . 663
8.632.1 Detailed Description . . . 663
8.632.2 Field Documentation . . . 663
8.632.2.1 PSMCfgChangeInfo . . . 663
8.632.2.2 PSMStatus . . . 663
8.632.2.3 RptIMSCapability . . . 663
8.633 pack_dms_SetPower_t Struct Reference . . . 663
8.633.1 Detailed Description . . . 664
8.633.2 Field Documentation . . . 664
8.633.2.1 mode . . . 664
8.633.2.2 Tlvresult . . . 664
8.634 pack_dms_SetUSBComp_t Struct Reference . . . 664
8.634.1 Detailed Description . . . 664
8.634.2 Field Documentation . . . 665
8.634.2.1 Tlvresult . . . 665
8.634.2.2 USBComp . . . 665
8.635 pack_dms_SLQSDmsSwiIndicationRegister_t Struct Reference . . . 665
8.635.1 Detailed Description . . . 665
8.635.2 Field Documentation . . . 666
8.635.2.1 resetInfoInd . . . 666
8.636 pack_dms_SLQSSetPowerSaveModeConfig_t Struct Reference . . . 666
8.636.1 Detailed Description . . . 666
8.636.2 Field Documentation . . . 666
8.636.2.1 pActiveTimer . . . 666
8.636.2.2 pPeriodicUpdateTimer . . . 666
8.636.2.3 pPsmEnableState . . . 666
8.637 pack_dms_SLQSSwiGetCrashInfo_t Struct Reference . . . 666
8.637.1 Detailed Description . . . 667
8.637.2 Field Documentation . . . 667
8.637.2.1 clear . . . 667
8.638 pack_dms_SLQSSwiSetDyingGaspCfg_t Struct Reference . . . 667
8.638.1 Detailed Description . . . 667
8.638.2 Field Documentation . . . 667
8.638.2.1 pDestSMSContent . . . 667
8.638.2.2 pDestSMSNum . . . 667
8.639 pack_dms_SLQSSwiSetHostDevInfo_t Struct Reference . . . 667
8.639.1 Detailed Description . . . 668
8.639.2 Field Documentation . . . 668

8.639.2.1 manString . . . 668
8.639.2.2 modelString . . . 668
8.639.2.3 plasmaIDString . . . 668
8.639.2.4 swVerString . . . 668
8.640 pack_dms_SLQSSwiSetOSInfo_t Struct Reference . . . 668
8.640.1 Detailed Description . . . 668
8.640.2 Field Documentation . . . 669
8.640.2.1 nameString . . . 669
8.640.2.2 versionString . . . 669
8.641 pack_dms_SwiSetEventReport_t Struct Reference . . . 669
8.641.1 Detailed Description . . . 669
8.641.2 Field Documentation . . . 669
8.641.2.1 pTempReport . . . 669
8.641.2.2 pVoltReport . . . 669
8.642 pack_dms_UIMChangePIN_t Struct Reference . . . 669
8.642.1 Detailed Description . . . 669
8.642.2 Field Documentation . . . 670
8.642.2.1 id . . . 670
8.642.2.2 newValue . . . 670
8.642.2.3 oldValue . . . 670
8.643 pack_dms_UIMGetControlKeyStatus_t Struct Reference . . . 670
8.643.1 Detailed Description . . . 670
8.643.2 Field Documentation . . . 670
8.643.2.1 facility . . . 670
8.644 pack_dms_UIMGetICCID_t Struct Reference . . . 670
8.644.1 Detailed Description . . . 671
8.644.2 Field Documentation . . . 671
8.644.2.1 Tlvresult . . . 671
8.645 pack_dms_UIMSetControlKeyProtection_t Struct Reference . . . 671
8.645.1 Detailed Description . . . 671
8.645.2 Field Documentation . . . 671
8.645.2.1 facility . . . 671
8.645.2.2 facilityCk . . . 671
8.645.2.3 facilityState . . . 672
8.646 pack_dms_UIMSetPINProtection_t Struct Reference . . . 672
8.646.1 Detailed Description . . . 672
8.646.2 Field Documentation . . . 672
8.646.2.1 bEnable . . . 672
8.646.2.2 id . . . 672
8.646.2.3 value . . . 672

8.647 pack_dms_UIMUnblockControlKey_t Struct Reference . . . 672
8.647.1 Detailed Description . . . 672
8.647.2 Field Documentation . . . 673
8.647.2.1 facility . . . 673
8.647.2.2 facilityCk . . . 673
8.648 pack_dms_UIMUnblockPIN_t Struct Reference . . . 673
8.648.1 Detailed Description . . . 673
8.648.2 Field Documentation . . . 673
8.648.2.1 id . . . 673
8.648.2.2 newPin . . . 673
8.648.2.3 pukValue . . . 673
8.649 pack_dms_UIMVerifyPIN_t Struct Reference . . . 674
8.649.1 Detailed Description . . . 674
8.649.2 Field Documentation . . . 674
8.649.2.1 id . . . 674
8.649.2.2 value . . . 674
8.650 pack_fms_GetImagesPreference_t Struct Reference . . . 674
8.650.1 Detailed Description . . . 674
8.650.2 Field Documentation . . . 674
8.650.2.1 Tlvresult . . . 674
8.651 pack_fms_GetStoredImages_t Struct Reference . . . 674
8.651.1 Detailed Description . . . 675
8.651.2 Field Documentation . . . 675
8.651.2.1 Tlvresult . . . 675
8.652 pack_fms_SetImagesPreference_t Struct Reference . . . 675
8.652.1 Detailed Description . . . 675
8.652.2 Field Documentation . . . 676
8.652.2.1 bForceDownload . . . 676
8.652.2.2 imageListSize . . . 676
8.652.2.3 modemindex . . . 676
8.652.2.4 pImageList . . . 676
8.652.2.5 Tlvresult . . . 676
8.653 pack_loc_Delete_Assist_Data_t Struct Reference . . . 676
8.653.1 Detailed Description . . . 676
8.653.2 Field Documentation . . . 676
8.653.2.1 pBdsSVInfo . . . 676
8.653.2.2 pCellDb . . . 676
8.653.2.3 pClkInfo . . . 677
8.653.2.4 pGnssData . . . 677
8.653.2.5 pSVInfo . . . 677

8.653.2.6 Tlvresult . . . 677
8.654 pack_loc_EventRegister_t Struct Reference . . . 677
8.654.1 Detailed Description . . . 677
8.654.2 Field Documentation . . . 679
8.654.2.1 eventRegister . . . 679
8.654.2.2 Tlvresult . . . 679
8.655 pack_loc_SetExtPowerState_t Struct Reference . . . 679
8.655.1 Detailed Description . . . 679
8.655.2 Field Documentation . . . 679
8.655.2.1 extPowerState . . . 679
8.655.2.2 Tlvresult . . . 679
8.656 pack_loc_SetOperationMode_t Struct Reference . . . 679
8.656.1 Detailed Description . . . 680
8.656.2 Field Documentation . . . 680
8.656.2.1 mode . . . 680
8.656.2.2 Tlvresult . . . 680
8.657 pack_loc_SLQSLOCGetBestAvailPos_t Struct Reference . . . 680
8.657.1 Detailed Description . . . 680
8.657.2 Field Documentation . . . 680
8.657.2.1 Tlvresult . . . 680
8.657.2.2 xid . . . 681
8.658 pack_loc_SLQSLOCGetServer_t Struct Reference . . . 681
8.658.1 Detailed Description . . . 681
8.658.2 Field Documentation . . . 681
8.658.2.1 has_serverAddrTypeMask . . . 681
8.658.2.2 serverAddrTypeMask . . . 681
8.658.2.3 serverType . . . 681
8.659 pack_loc_SLQSLOCInjectPosition_t Struct Reference . . . 681
8.659.1 Detailed Description . . . 682
8.659.2 Field Documentation . . . 685
8.659.2.1 altitudeSrcInfo . . . 685
8.659.2.2 altitudeWrtEllipsoid . . . 685
8.659.2.3 altitudeWrtMeanSeaLevel . . . 685
8.659.2.4 has_altitudeSrcInfo . . . 685
8.659.2.5 has_altitudeWrtEllipsoid . . . 685
8.659.2.6 has_altitudeWrtMeanSeaLevel . . . 685
8.659.2.7 has_horConfidence . . . 685
8.659.2.8 has_horReliability . . . 685
8.659.2.9 has_horUncCircular . . . 685
8.659.2.10 has_latitude . . . 685

8.659.2.11 has_longitude . . . 685
8.659.2.12 has_positionSrc . . . 685
8.659.2.13 has_rawHorConfidence . . . 685
8.659.2.14 has_rawHorUncCircular . . . 685
8.659.2.15 has_timestampAge . . . 685
8.659.2.16 has_timestampUtc . . . 685
8.659.2.17 has_vertConfidence . . . 685
8.659.2.18 has_vertRelicability . . . 686
8.659.2.19 has_vertUnc . . . 686
8.659.2.20 horConfidence . . . 686
8.659.2.21 horReliability . . . 686
8.659.2.22 horUncCircular . . . 686
8.659.2.23 latitude . . . 686
8.659.2.24 longitude . . . 686
8.659.2.25 positionSrc . . . 686
8.659.2.26 rawHorConfidence . . . 686
8.659.2.27 rawHorUncCircular . . . 686
8.659.2.28 timestampAge . . . 686
8.659.2.29 timestampUtc . . . 686
8.659.2.30 vertConfidence . . . 686
8.659.2.31 vertReliability . . . 686
8.659.2.32 vertUnc . . . 686
8.660 pack_loc_SLQSLOCInjectSensorData_t Struct Reference . . . 686
8.660.1 Detailed Description . . . 686
8.660.2 Field Documentation . . . 687
8.660.2.1 acceleroData . . . 687
8.660.2.2 acceleroTimeSrc . . . 687
8.660.2.3 accelTemp . . . 687
8.660.2.4 gyroData . . . 687
8.660.2.5 gyroTemp . . . 688
8.660.2.6 gyroTimeSrc . . . 688
8.660.2.7 has_acceleroTimeSrc . . . 688
8.660.2.8 has_accelTemp . . . 688
8.660.2.9 has_accleroData . . . 688
8.660.2.10 has_gyroData . . . 688
8.660.2.11 has_gyroTemp . . . 688
8.660.2.12 has_gyroTimeSrc . . . 688
8.660.2.13 has_opaqueId . . . 688
8.660.2.14 opaqueId . . . 688
8.661 pack_loc_SLQSLOCInjectUTCTime_t Struct Reference . . . 688

8.661.1 Detailed Description . . . 688
8.661.2 Field Documentation . . . 688
8.661.2.1 timeMsec . . . 688
8.661.2.2 timeUncMsec . . . 688
8.662 pack_loc_SLQSLOCSetCradleMountConfig_t Struct Reference . . . 688
8.662.1 Detailed Description . . . 689
8.662.2 Field Documentation . . . 689
8.662.2.1 confidence . . . 689
8.662.2.2 has_confidence . . . 689
8.662.2.3 state . . . 689
8.663 pack_loc_SLQSLOCSetServer_t Struct Reference . . . 689
8.663.1 Detailed Description . . . 689
8.663.2 Field Documentation . . . 690
8.663.2.1 pIPv4Config . . . 690
8.663.2.2 pIPv6Config . . . 690
8.663.2.3 pURLAddr . . . 690
8.663.2.4 serverType . . . 690
8.664 pack_loc_Start_t Struct Reference . . . 690
8.664.1 Detailed Description . . . 690
8.664.2 Field Documentation . . . 691
8.664.2.1 pApplicationInfo . . . 691
8.664.2.2 pConfigAltitudeAssumed . . . 691
8.664.2.3 pHorizontalAccuracyLvl . . . 691
8.664.2.4 pIntermediateReportState . . . 691
8.664.2.5 pMinIntervalTime . . . 691
8.664.2.6 pRecurrenceType . . . 692
8.664.2.7 SessionId . . . 692
8.664.2.8 Tlvresult . . . 692
8.665 pack_loc_Stop_t Struct Reference . . . 692
8.665.1 Detailed Description . . . 692
8.665.2 Field Documentation . . . 692
8.665.2.1 SessionId . . . 692
8.665.2.2 Tlvresult . . . 692
8.666 pack_nas_InitiateDomainAttach_t Struct Reference . . . 692
8.666.1 Detailed Description . . . 692
8.666.2 Field Documentation . . . 692
8.666.2.1 action . . . 693
8.667 pack_nas_SetACCOLC_t Struct Reference . . . 693
8.667.1 Detailed Description . . . 693
8.667.2 Field Documentation . . . 693

8.667.2.1 accolc . . . 693
8.667.2.2 spc . . . 693
8.668 pack_nas_SetCDMANetworkParameters_t Struct Reference . . . 693
8.668.1 Detailed Description . . . 693
8.668.2 Field Documentation . . . 694
8.668.2.1 pApplication . . . 694
8.668.2.2 pBroadcast . . . 694
8.668.2.3 pCustomSCP . . . 694
8.668.2.4 pForceRev0 . . . 694
8.668.2.5 pProtocol . . . 694
8.668.2.6 pRoaming . . . 694
8.668.2.7 pSPC . . . 695
8.669 pack_nas_SetNetworkPreference_t Struct Reference . . . 695
8.669.1 Detailed Description . . . 695
8.669.2 Field Documentation . . . 695
8.669.2.1 Duration . . . 695
8.669.2.2 TechnologyPref . . . 695
8.669.2.3 Tlvresult . . . 695
8.670 pack_nas_SLQSConfigSigInfo_t Struct Reference . . . 695
8.670.1 Detailed Description . . . 696
8.670.2 Field Documentation . . . 697
8.670.2.1 pECIOThresh . . . 697
8.670.2.2 pHDRSINRThresh . . . 697
8.670.2.3 pIOThresh . . . 697
8.670.2.4 pLTESigRptCfg . . . 697
8.670.2.5 pLTESNRThresh . . . 697
8.670.2.6 pRSRPThresh . . . 697
8.670.2.7 pRSRQThresh . . . 697
8.670.2.8 pRSSIThresh . . . 697
8.670.2.9 pTDSCDMASINRCONFThresh . . . 697
8.671 pack_nas_SLQSGetPLMNName_t Struct Reference . . . 697
8.671.1 Detailed Description . . . 697
8.671.2 Field Documentation . . . 698
8.671.2.1 mcc . . . 698
8.671.2.2 mnc . . . 698
8.671.2.3 pMncPcsStatus . . . 698
8.672 pack_nas_SLQSInitiateNetworkRegistration_t Struct Reference . . . 698
8.672.1 Detailed Description . . . 698
8.672.2 Field Documentation . . . 698
8.672.2.1 pChangeDuration . . . 698

8.672.2.2 pMncPcsDigitStatus . . . 698
8.672.2.3 pMNRInfo . . . 699
8.672.2.4 regAction . . . 699
8.673 pack_nas_SLQSNasConfigSigInfo2_t Struct Reference . . . 699
8.673.1 Detailed Description . . . 699
8.673.2 Field Documentation . . . 702
8.673.2.1 pCDMAECIODelta . . . 702
8.673.2.2 pCDMAECIOThresh . . . 702
8.673.2.3 pCDMARSSIDelta . . . 702
8.673.2.4 pCDMARSSIThresh . . . 702
8.673.2.5 pGSMRSSIDelta . . . 702
8.673.2.6 pGSMRSSIThresh . . . 702
8.673.2.7 pHDRECIODelta . . . 702
8.673.2.8 pHDRECIOThresh . . . 702
8.673.2.9 pHDRIODelta . . . 702
8.673.2.10 pHDRIOThresh . . . 702
8.673.2.11 pHDRRSSIDelta . . . 702
8.673.2.12 pHDRRSSIThresh . . . 702
8.673.2.13 pHDRSINRDelta . . . 702
8.673.2.14 pHDRSINRThresh . . . 702
8.673.2.15 pLTERSRPDelta . . . 703
8.673.2.16 pLTERSRPThresh . . . 703
8.673.2.17 pLTERSRQDelta . . . 703
8.673.2.18 pLTERSRQThresh . . . 703
8.673.2.19 pLTERSSIDelta . . . 703
8.673.2.20 pLTERSSIThresh . . . 703
8.673.2.21 pLTESigRptConfig . . . 703
8.673.2.22 pLTESNRDelta . . . 703
8.673.2.23 pLTESNRThresh . . . 703
8.673.2.24 pTDSCDMAECIODelta . . . 703
8.673.2.25 pTDSCDMAECIOThresh . . . 703
8.673.2.26 pTDSCDMARSCPDelta . . . 703
8.673.2.27 pTDSCDMARSCPThresh . . . 703
8.673.2.28 pTDSCDMARSSIDelta . . . 703
8.673.2.29 pTDSCDMARSSIThresh . . . 703
8.673.2.30 pTDSCDMASINRDelta . . . 703
8.673.2.31 pTDSCDMASINRThresh . . . 703
8.673.2.32 pWCDMAECIODelta . . . 703
8.673.2.33 pWCDMAECIOThresh . . . 703
8.673.2.34 pWCDMARSSIDelta . . . 703

8.673.2.35 pWCDMARSSIThresh . . . 703
8.674 pack_nas_SLQSNasGet3GPP2Subscription_t Struct Reference . . . 703
8.674.1 Detailed Description . . . 703
8.674.2 Field Documentation . . . 704
8.674.2.1 namID . . . 704
8.675 pack_nas_SLQSNasGetTxRxInfo_t Struct Reference . . . 704
8.675.1 Detailed Description . . . 704
8.675.2 Field Documentation . . . 704
8.675.2.1 radio_if . . . 704
8.676 pack_nas_SLQSNasIndicationRegisterExt_t Struct Reference . . . 704
8.676.1 Detailed Description . . . 705
8.676.2 Field Documentation . . . 706
8.676.2.1 pDDTMInd . . . 706
8.676.2.2 pDualStandByPrefInd . . . 707
8.676.2.3 pErrorRateInd . . . 707
8.676.2.4 pHDRNewUATIAssInd . . . 707
8.676.2.5 pHDRSessionCloseInd . . . 707
8.676.2.6 pLTECphyCa . . . 707
8.676.2.7 pManagedRoamingInd . . . 707
8.676.2.8 pNetworkRejectInd . . . 707
8.676.2.9 pNetworkTimeInd . . . 707
8.676.2.10 pServingSystemInd . . . 707
8.676.2.11 pSignalStrengthInd . . . 707
8.676.2.12 pSubscriptionInfoInd . . . 707
8.676.2.13 pSuppressSysInfoInd . . . 707
8.676.2.14 pSysInfoInd . . . 707
8.676.2.15 pSystemSelectionInd . . . 707
8.677 pack_nas_SLQSNASSeteDRXParams_t Struct Reference . . . 707
8.677.1 Detailed Description . . . 707
8.677.2 Field Documentation . . . 708
8.677.2.1 pCycleLen . . . 708
8.677.2.2 pEdrxEnable . . . 708
8.677.2.3 pPagingTimeWindow . . . 708
8.678 pack_nas_SLQSNasSwiIndicationRegister_t Struct Reference . . . 708
8.678.1 Detailed Description . . . 708
8.678.2 Field Documentation . . . 709
8.678.2.1 gsmUmtsDl . . . 709
8.678.2.2 gsmUmtsUl . . . 709
8.678.2.3 lteEmmDl . . . 709
8.678.2.4 lteEmmUl . . . 709

8.678.2.5 lteEsmDl . . . 709
8.678.2.6 lteEsmUl . . . 709
8.678.2.7 pRankIndicatorInd . . . 709
8.678.2.8 pTimer . . . 709
8.679 pack_nas_SLQSNASSwiSetChannelLock_t Struct Reference . . . 709
8.679.1 Detailed Description . . . 709
8.679.2 Field Documentation . . . 710
8.679.2.1 pLteEARFCN . . . 710
8.679.2.2 pLtePCI . . . 710
8.679.2.3 pWcdmaUARFCN . . . 710
8.680 pack_nas_SLQSSetBandPreference_t Struct Reference . . . 710
8.680.1 Detailed Description . . . 710
8.680.2 Field Documentation . . . 711
8.680.2.1 bandPref . . . 712
8.681 pack_nas_SLQSSetSignalStrengthsCallback_t Struct Reference . . . 712
8.681.1 Detailed Description . . . 712
8.681.2 Field Documentation . . . 712
8.681.2.1 bEnable . . . 712
8.681.2.2 pSigIndReq . . . 712
8.682 pack_nas_SLQSSetSysSelectionPref_t Struct Reference . . . 712
8.682.1 Detailed Description . . . 712
8.682.2 Field Documentation . . . 717
8.682.2.1 pAcqOrderPref . . . 717
8.682.2.2 pBandPref . . . 717
8.682.2.3 pChgDuration . . . 717
8.682.2.4 pCSGID . . . 717
8.682.2.5 pEmerMode . . . 717
8.682.2.6 pGWAcqOrderPref . . . 717
8.682.2.7 pLTEBandPref . . . 717
8.682.2.8 pMNCIncPCSDigStat . . . 717
8.682.2.9 pModePref . . . 717
8.682.2.10 pNetSelPref . . . 717
8.682.2.11 pPRLPref . . . 717
8.682.2.12 pRAT . . . 717
8.682.2.13 pRoamPref . . . 717
8.682.2.14 pSrvDomainPref . . . 717
8.682.2.15 pSrvRegRestriction . . . 718
8.682.2.16 pTdscdmaBandPref . . . 718
8.683 pack_nas_SLQSSetSysSelectionPrefExt_t Struct Reference . . . 718
8.683.1 Detailed Description . . . 718

8.683.2 Field Documentation . . . 726
8.683.2.1 pAcqOrderPref . . . 726
8.683.2.2 pBandPref . . . 726
8.683.2.3 pChgDuration . . . 726
8.683.2.4 pCiotAcqOrderPref . . . 726
8.683.2.5 pCiotLteOpMode . . . 726
8.683.2.6 pCiotLteOpModePref . . . 726
8.683.2.7 pCSGID . . . 726
8.683.2.8 pEmerMode . . . 726
8.683.2.9 pGWAcqOrderPref . . . 726
8.683.2.10 pLTEBandPref . . . 726
8.683.2.11 pLteM1BandPref . . . 726
8.683.2.12 pLteNb1BandPref . . . 726
8.683.2.13 pMNCIncPCSDigStat . . . 726
8.683.2.14 pModePref . . . 726
8.683.2.15 pNetSelPref . . . 726
8.683.2.16 pNr5gBandPref . . . 726
8.683.2.17 pPRLPref . . . 726
8.683.2.18 pRAT . . . 727
8.683.2.19 pRoamPref . . . 727
8.683.2.20 pSrvDomainPref . . . 727
8.683.2.21 pSrvRegRestriction . . . 727
8.683.2.22 pTdscdmaBandPref . . . 727
8.684 pack_nas_SLQSSwiPSDetach_t Struct Reference . . . 727
8.684.1 Detailed Description . . . 727
8.684.2 Field Documentation . . . 727
8.684.2.1 pDetachAction . . . 727
8.685 pack_pds_PDSInjectTimeReference_t Struct Reference . . . 727
8.685.1 Detailed Description . . . 727
8.685.2 Field Documentation . . . 727
8.685.2.1 systemDiscontinuities . . . 728
8.685.2.2 systemTime . . . 728
8.686 pack_pds_ResetPDSData_t Struct Reference . . . 728
8.686.1 Detailed Description . . . 728
8.686.2 Field Documentation . . . 728
8.686.2.1 pCellDataMask . . . 728
8.686.2.2 pGPSDataMask . . . 729
8.687 pack_pds_SetEventReportCallback_t Struct Reference . . . 729
8.687.1 Detailed Description . . . 729
8.687.2 Field Documentation . . . 729

8.687.2.1 posDataNmea . . . 729
8.687.2.2 rptPosData . . . 729
8.688 pack_pds_SetPDSDefaults_t Struct Reference . . . 729
8.688.1 Detailed Description . . . 729
8.688.2 Field Documentation . . . 730
8.688.2.1 accuracy . . . 730
8.688.2.2 interval . . . 730
8.688.2.3 operation . . . 730
8.688.2.4 timeout . . . 730
8.689 pack_pds_SetPDSState_t Struct Reference . . . 730
8.689.1 Detailed Description . . . 730
8.689.2 Field Documentation . . . 730
8.689.2.1 enable . . . 730
8.690 pack_pds_SetPortAutomaticTracking_t Struct Reference . . . 730
8.690.1 Detailed Description . . . 731
8.690.2 Field Documentation . . . 731
8.690.2.1 bAuto . . . 731
8.691 pack_pds_SetServiceAutomaticTracking_t Struct Reference . . . 731
8.691.1 Detailed Description . . . 731
8.691.2 Field Documentation . . . 731
8.691.2.1 bAuto . . . 731
8.692 pack_pds_SetXTRAAutomaticDownload_t Struct Reference . . . 731
8.692.1 Detailed Description . . . 732
8.692.2 Field Documentation . . . 732
8.692.2.1 bEnabled . . . 732
8.692.2.2 interval . . . 732
8.693 pack_pds_SetXTRANetwork_t Struct Reference . . . 732
8.693.1 Detailed Description . . . 732
8.693.2 Field Documentation . . . 732
8.693.2.1 preference . . . 732
8.694 pack_pds_SLQSGetAGPSConfig_t Struct Reference . . . 732
8.694.1 Detailed Description . . . 733
8.694.2 Field Documentation . . . 733
8.694.2.1 pNetworkMode . . . 733
8.695 pack_pds_SLQSPDSInjectAbsoluteTimeReference_t Struct Reference . . . 733
8.695.1 Detailed Description . . . 733
8.695.2 Field Documentation . . . 733
8.695.2.1 forceFlag . . . 733
8.695.2.2 timeBase . . . 733
8.695.2.3 timeMsec . . . 734

8.695.2.4 timeUncMsec . . . 734
8.696 pack_pds_SLQSPDSInjectPositionData_t Struct Reference . . . 734
8.696.1 Detailed Description . . . 734
8.696.2 Field Documentation . . . 735
8.696.2.1 pAltitudeWrtEllipsoid . . . 735
8.696.2.2 pAltitudeWrtSealevel . . . 735
8.696.2.3 pHorizontalConfidence . . . 735
8.696.2.4 pHorizontalUncCircular . . . 735
8.696.2.5 pLatitude . . . 735
8.696.2.6 pLongitude . . . 735
8.696.2.7 pPositionSource . . . 735
8.696.2.8 pTimeStamp . . . 735
8.696.2.9 pTimeType . . . 735
8.696.2.10 pVerticalConfidence . . . 735
8.696.2.11 pVerticalUnc . . . 736
8.697 pack_pds_SLQSSetAGPSConfig_t Struct Reference . . . 736
8.697.1 Detailed Description . . . 736
8.697.2 Field Documentation . . . 736
8.697.2.1 pNetworkMode . . . 736
8.697.2.2 pServerAddress . . . 736
8.697.2.3 pServerPort . . . 736
8.697.2.4 pServerURL . . . 736
8.697.2.5 pServerURLLength . . . 736
8.698 pack_pds_SLQSSetPositionMethodState_t Struct Reference . . . 736
8.698.1 Detailed Description . . . 737
8.698.2 Field Documentation . . . 737
8.698.2.1 pWifiState . . . 737
8.698.2.2 pXtraDataState . . . 737
8.698.2.3 pXtraTimeState . . . 737
8.699 pack_pds_StartPDSTrackingSessionExt_t Struct Reference . . . 737
8.699.1 Detailed Description . . . 737
8.699.2 Field Documentation . . . 738
8.699.2.1 fixAccuracy . . . 738
8.699.2.2 fixCount . . . 738
8.699.2.3 fixInterval . . . 738
8.699.2.4 fixTimeout . . . 738
8.699.2.5 sessionControl . . . 738
8.699.2.6 sessionOperation . . . 738
8.699.2.7 sessionServerOption . . . 738
8.699.2.8 sessionType . . . 738

8.700 pack_qmi_t Struct Reference . . . 738
8.700.1 Detailed Description . . . 739
8.700.2 Field Documentation . . . 739
8.700.2.1 msgid . . . 739
8.700.2.2 svc . . . 739
8.700.2.3 timeout . . . 739
8.700.2.4 xid . . . 739
8.701 pack_qos_BindDataPort_t Struct Reference . . . 739
8.701.1 Detailed Description . . . 739
8.701.2 Field Documentation . . . 740
8.701.2.1 pMuxID . . . 740
8.701.2.2 pPeripheralEndPointID . . . 740
8.701.2.3 pSIODataPort . . . 740
8.702 pack_qos_SLQSQosSwiReadApnExtraParams_t Struct Reference . . . 740
8.702.1 Detailed Description . . . 740
8.702.2 Field Documentation . . . 740
8.702.2.1 apnId . . . 740
8.703 pack_qos_SLQSQosSwiReadDataStats_t Struct Reference . . . 740
8.703.1 Detailed Description . . . 740
8.703.2 Field Documentation . . . 740
8.703.2.1 apnId . . . 740
8.704 pack_qos_SLQSSetQosEventCallback_t Struct Reference . . . 740
8.704.1 Detailed Description . . . 741
8.704.2 Field Documentation . . . 741
8.704.2.1 enable . . . 741
8.705 pack_rms_SetSMSWake_t Struct Reference . . . 741
8.705.1 Detailed Description . . . 741
8.705.2 Field Documentation . . . 741
8.705.2.1 enabled . . . 741
8.705.2.2 wake_mask . . . 741
8.706 pack_sar_SLQSSetRfSarState_t Struct Reference . . . 741
8.706.1 Detailed Description . . . 742
8.706.2 Field Documentation . . . 742
8.706.2.1 RfSarState . . . 742
8.707 pack_sms_SaveSMS_t Struct Reference . . . 742
8.707.1 Detailed Description . . . 742
8.707.2 Field Documentation . . . 743
8.707.2.1 messageFormat . . . 743
8.707.2.2 messageSize . . . 743
8.707.2.3 pMessage . . . 743

8.707.2.4 storageType . . . 743
8.708 pack_sms_SendSMS_t Struct Reference . . . 743
8.708.1 Detailed Description . . . 743
8.708.2 Field Documentation . . . 743
8.708.2.1 messageFormat . . . 743
8.708.2.2 messageSize . . . 743
8.708.2.3 pLinktimer . . . 744
8.708.2.4 pMessage . . . 744
8.709 pack_sms_SetNewSMSCallback_t Struct Reference . . . 744
8.709.1 Detailed Description . . . 744
8.709.2 Field Documentation . . . 744
8.709.2.1 status . . . 744
8.710 pack_sms_SetSMSCAddress_t Struct Reference . . . 744
8.710.1 Detailed Description . . . 744
8.710.2 Field Documentation . . . 744
8.710.2.1 pSMSCAddress . . . 744
8.710.2.2 pSMSCType . . . 744
8.711 pack_sms_SLQSDeleteSMS_t Struct Reference . . . 744
8.711.1 Detailed Description . . . 745
8.711.2 Field Documentation . . . 745
8.711.2.1 pMessageIndex . . . 745
8.711.2.2 pMessageMode . . . 745
8.711.2.3 pMessageTag . . . 745
8.711.2.4 storageType . . . 745
8.712 pack_sms_SLQSGetSMS_t Struct Reference . . . 745
8.712.1 Detailed Description . . . 746
8.712.2 Field Documentation . . . 746
8.712.2.1 messageIndex . . . 746
8.712.2.2 pMessageMode . . . 746
8.712.2.3 storageType . . . 746
8.713 pack_sms_SLQSGetSmsBroadcastConfig_t Struct Reference . . . 746
8.713.1 Detailed Description . . . 746
8.713.2 Field Documentation . . . 746
8.713.2.1 mode . . . 746
8.714 pack_sms_SLQSGetSMSList_t Struct Reference . . . 746
8.714.1 Detailed Description . . . 747
8.714.2 Field Documentation . . . 747
8.714.2.1 pMessageMode . . . 747
8.714.2.2 pRequestedTag . . . 747
8.714.2.3 storageType . . . 747

8.715 pack_sms_SLQSModifySMSStatus_t Struct Reference . . . 747
8.715.1 Detailed Description . . . 747
8.715.2 Field Documentation . . . 748
8.715.2.1 messageIndex . . . 748
8.715.2.2 messageTag . . . 748
8.715.2.3 pMessageMode . . . 748
8.715.2.4 storageType . . . 748
8.716 pack_sms_SLQSSendAsyncSMS_t Struct Reference . . . 748
8.716.1 Detailed Description . . . 748
8.716.2 Field Documentation . . . 748
8.716.2.1 pSendSmsParams . . . 748
8.717 pack_sms_SLQSSetIndicationRegister_t Struct Reference . . . 748
8.717.1 Detailed Description . . . 749
8.717.2 Field Documentation . . . 749
8.717.2.1 pSetIndicationRegReq . . . 749
8.718 pack_sms_SLQSSetSmsBroadcastActivation_t Struct Reference . . . 749
8.718.1 Detailed Description . . . 749
8.718.2 Field Documentation . . . 749
8.718.2.1 broadcastActivate . . . 749
8.718.2.2 mode . . . 749
8.719 pack_sms_SLQSSetSmsBroadcastConfig_t Struct Reference . . . 749
8.719.1 Detailed Description . . . 750
8.719.2 Field Documentation . . . 750
8.719.2.1 mode . . . 750
8.719.2.2 pBroadcastConfig . . . 750
8.719.2.3 pCDMABroadcastConfig . . . 750
8.720 pack_sms_SLQSSetSmsStorage_t Struct Reference . . . 750
8.720.1 Detailed Description . . . 750
8.720.2 Field Documentation . . . 750
8.720.2.1 smsStorage . . . 751
8.721 pack_sms_SLQSSmsGetMaxStorageSize_t Struct Reference . . . 751
8.721.1 Detailed Description . . . 751
8.721.2 Field Documentation . . . 751
8.721.2.1 pMaxStorageSizeReq . . . 751
8.722 pack_sms_SLQSSmsSetRoutes_t Struct Reference . . . 751
8.722.1 Detailed Description . . . 751
8.722.2 Field Documentation . . . 751
8.722.2.1 pSetRoutesReq . . . 751
8.723 pack_swidms_SLQSSwiDmsSetMTU_t Struct Reference . . . 751
8.723.1 Detailed Description . . . 752

8.723.2 Field Documentation . . . 752
8.723.2.1 MTUSize . . . 752
8.724 pack_swidms_SLQSSwiDmsSetUsbNetNum_t Struct Reference . . . 752
8.724.1 Detailed Description . . . 752
8.724.2 Field Documentation . . . 752
8.724.2.1 nUsbNetNum . . . 752
8.725 pack_swiloc_SwiLocSetAutoStart_t Struct Reference . . . 752
8.725.1 Detailed Description . . . 753
8.725.2 Field Documentation . . . 754
8.725.2.1 fix_rate . . . 754
8.725.2.2 fix_type . . . 754
8.725.2.3 function . . . 754
8.725.2.4 max_dist . . . 754
8.725.2.5 max_time . . . 754
8.725.2.6 set_fix_rate . . . 754
8.725.2.7 set_fix_type . . . 754
8.725.2.8 set_function . . . 754
8.725.2.9 set_max_dist . . . 754
8.725.2.10 set_max_time . . . 754
8.726 pack_swioma_SLQSOMADMCancelSession_t Struct Reference . . . 754
8.726.1 Detailed Description . . . 754
8.726.2 Field Documentation . . . 754
8.726.2.1 sessionType . . . 754
8.727 pack_swioma_SLQSOMADMGetSessionInfo_t Struct Reference . . . 754
8.727.1 Detailed Description . . . 754
8.727.2 Field Documentation . . . 755
8.727.2.1 SessionType . . . 755
8.728 pack_swioma_SLQSOMADMSendSelection_t Struct Reference . . . 755
8.728.1 Detailed Description . . . 755
8.728.2 Field Documentation . . . 755
8.728.2.1 pDeferTime . . . 755
8.728.2.2 pRejectReason . . . 755
8.728.2.3 selection . . . 755
8.729 pack_swioma_SLQSOMADMSetSettings_t Struct Reference . . . 755
8.729.1 Detailed Description . . . 756
8.729.2 Field Documentation . . . 756
8.729.2.1 FOTAdownload . . . 756
8.729.2.2 FOTAUpdate . . . 756
8.729.2.3 pAutosdm . . . 756
8.729.2.4 pFwAutoCheck . . . 756

8.730 pack_swioma_SLQSOMADMStartSession_t Struct Reference . . . 756
8.730.1 Detailed Description . . . 757
8.730.2 Field Documentation . . . 757
8.730.2.1 sessionType . . . 757
8.731 pack_uim_ChangePin_t Struct Reference . . . 757
8.731.1 Detailed Description . . . 757
8.731.2 Field Documentation . . . 758
8.731.2.1 changePIN . . . 758
8.731.2.2 EncryptedPIN1 . . . 758
8.731.2.3 pIndicationToken . . . 758
8.731.2.4 pKeyReferenceID . . . 758
8.731.2.5 sessionInfo . . . 758
8.731.2.6 Tlvresult . . . 758
8.732 pack_uim_ReadTransparent_t Struct Reference . . . 758
8.732.1 Detailed Description . . . 758
8.732.2 Field Documentation . . . 759
8.732.2.1 fileIndex . . . 759
8.732.2.2 pEncryptData . . . 759
8.732.2.3 pIndicationToken . . . 759
8.732.2.4 readTransparent . . . 759
8.732.2.5 sessionInfo . . . 759
8.732.2.6 Tlvresult . . . 759
8.733 pack_uim_SetPinProtection_t Struct Reference . . . 759
8.733.1 Detailed Description . . . 759
8.733.2 Field Documentation . . . 760
8.733.2.1 EncryptedPIN1 . . . 760
8.733.2.2 pIndicationToken . . . 760
8.733.2.3 pinProtection . . . 760
8.733.2.4 pKeyReferenceID . . . 760
8.733.2.5 sessionInfo . . . 760
8.733.2.6 Tlvresult . . . 760
8.734 pack_uim_SLQSUIMAuthenticate_t Struct Reference . . . 760
8.734.1 Detailed Description . . . 760
8.734.2 Field Documentation . . . 761
8.734.2.1 authData . . . 761
8.734.2.2 pIndicationToken . . . 761
8.734.2.3 sessionInfo . . . 761
8.735 pack_uim_SLQSUIMDepersonalization_t Struct Reference . . . 761
8.735.1 Detailed Description . . . 761
8.735.2 Field Documentation . . . 761

8.735.2.1 depersonilisationInfo . . . 761
8.736 pack_uim_SLQSUIMEventRegister_t Struct Reference . . . 761
8.736.1 Detailed Description . . . 761
8.736.2 Field Documentation . . . 761
8.736.2.1 eventMask . . . 761
8.737 pack_uim_SLQSUIMGetConfiguration_t Struct Reference . . . 762
8.737.1 Detailed Description . . . 762
8.737.2 Field Documentation . . . 762
8.737.2.1 pConfigurationMask . . . 762
8.738 pack_uim_SLQSUIMGetFileAttributes_t Struct Reference . . . 762
8.738.1 Detailed Description . . . 762
8.738.2 Field Documentation . . . 763
8.738.2.1 fileIndex . . . 763
8.738.2.2 pIndicationToken . . . 763
8.738.2.3 sessionInfo . . . 763
8.739 pack_uim_SLQSUIMPowerDown_t Struct Reference . . . 763
8.739.1 Detailed Description . . . 763
8.739.2 Field Documentation . . . 763
8.739.2.1 slot . . . 763
8.740 pack_uim_SLQSUIMPowerUp_t Struct Reference . . . 763
8.740.1 Detailed Description . . . 763
8.740.2 Field Documentation . . . 764
8.740.2.1 pIgnoreHotSwapSwitch . . . 764
8.740.2.2 slot . . . 764
8.741 pack_uim_SLQSUIMRefreshComplete_t Struct Reference . . . 764
8.741.1 Detailed Description . . . 764
8.741.2 Field Documentation . . . 764
8.741.2.1 refreshComplete . . . 764
8.741.2.2 sessionInfo . . . 764
8.742 pack_uim_SLQSUIMRefreshGetLastEvent_t Struct Reference . . . 764
8.742.1 Detailed Description . . . 764
8.742.2 Field Documentation . . . 765
8.742.2.1 sessionInfo . . . 765
8.743 pack_uim_SLQSUIMRefreshOK_t Struct Reference . . . 765
8.743.1 Detailed Description . . . 765
8.743.2 Field Documentation . . . 765
8.743.2.1 OKtoRefresh . . . 765
8.743.2.2 sessionInfo . . . 765
8.744 pack_uim_SLQSUIMRefreshRegister_t Struct Reference . . . 765
8.744.1 Detailed Description . . . 765

8.744.2 Field Documentation . . . 766
8.744.2.1 regRefresh . . . 766
8.744.2.2 sessionInfo . . . 766
8.745 pack_uim_SLQSUIMSwitchSlot_t Struct Reference . . . 766
8.745.1 Detailed Description . . . 766
8.745.2 Field Documentation . . . 766
8.745.2.1 bLogicalSlot . . . 766
8.745.2.2 ulPhysicalSlot . . . 766
8.746 pack_uim_UnblockPin_t Struct Reference . . . 767
8.746.1 Detailed Description . . . 767
8.746.2 Field Documentation . . . 767
8.746.2.1 EncryptedPIN1 . . . 767
8.746.2.2 pIndicationToken . . . 767
8.746.2.3 pinProtection . . . 767
8.746.2.4 pKeyReferenceID . . . 767
8.746.2.5 sessionInfo . . . 767
8.746.2.6 Tlvresult . . . 768
8.747 pack_uim_VerifyPin_t Struct Reference . . . 768
8.747.1 Detailed Description . . . 768
8.747.2 Field Documentation . . . 768
8.747.2.1 pEncryptedPIN1 . . . 768
8.747.2.2 pIndicationToken . . . 768
8.747.2.3 pKeyReferenceID . . . 769
8.747.2.4 sessionInfo . . . 769
8.747.2.5 Tlvresult . . . 769
8.747.2.6 verifyPIN . . . 769
8.748 pack_voice_AnswerUSSD_t Struct Reference . . . 769
8.748.1 Detailed Description . . . 769
8.748.2 Field Documentation . . . 769
8.748.2.1 pInfo . . . 769
8.749 pack_voice_OriginateUSSD_t Struct Reference . . . 769
8.749.1 Detailed Description . . . 769
8.749.2 Field Documentation . . . 769
8.749.2.1 pInfo . . . 769
8.750 pack_voice_SLQSOriginateUSSD_t Struct Reference . . . 769
8.750.1 Detailed Description . . . 770
8.750.2 Field Documentation . . . 770
8.750.2.1 ussData . . . 770
8.750.2.2 ussDCS . . . 770
8.750.2.3 ussLen . . . 770

8.751 pack_voice_SLQSVoiceALSSelectLine_t Struct Reference . . . 770
8.751.1 Detailed Description . . . 770
8.751.2 Field Documentation . . . 770
8.751.2.1 lineValue . . . 771
8.752 pack_voice_SLQSVoiceALSSetLineSwitching_t Struct Reference . . . 771
8.752.1 Detailed Description . . . 771
8.752.2 Field Documentation . . . 771
8.752.2.1 switchOption . . . 771
8.753 pack_voice_SLQSVoiceAnswerCall_t Struct Reference . . . 771
8.753.1 Detailed Description . . . 771
8.753.2 Field Documentation . . . 771
8.753.2.1 pCallId . . . 771
8.754 pack_voice_SLQSVoiceBindSubscription_t Struct Reference . . . 771
8.754.1 Detailed Description . . . 772
8.754.2 Field Documentation . . . 772
8.754.2.1 subsType . . . 772
8.755 pack_voice_SLQSVoiceBurstDTMF_t Struct Reference . . . 772
8.755.1 Detailed Description . . . 772
8.755.2 Field Documentation . . . 772
8.755.2.1 BurstDTMFInfo . . . 772
8.755.2.2 pBurstDTMFLengths . . . 772
8.756 pack_voice_SLQSVoiceDialCall_t Struct Reference . . . 772
8.756.1 Detailed Description . . . 773
8.756.2 Field Documentation . . . 774
8.756.2.1 callNumber . . . 774
8.756.2.2 pCallPartySubAdd . . . 774
8.756.2.3 pCallType . . . 774
8.756.2.4 pCLIRType . . . 774
8.756.2.5 pCUGInfo . . . 774
8.756.2.6 pEmergencyCategory . . . 774
8.756.2.7 pSvcType . . . 774
8.756.2.8 pUUSInFo . . . 774
8.757 pack_voice_SLQSVoiceEndCall_t Struct Reference . . . 774
8.757.1 Detailed Description . . . 774
8.757.2 Field Documentation . . . 774
8.757.2.1 pCallId . . . 774
8.758 pack_voice_SLQSVoiceGetCallBarring_t Struct Reference . . . 774
8.758.1 Detailed Description . . . 775
8.758.2 Field Documentation . . . 775
8.758.2.1 pSvcClass . . . 775

8.758.2.2 reason . . . 775
8.759 pack_voice_SLQSVoiceGetCallForwardingStatus_t Struct Reference . . . 775
8.759.1 Detailed Description . . . 775
8.759.2 Field Documentation . . . 776
8.759.2.1 pSvcClass . . . 776
8.759.2.2 Reason . . . 776
8.760 pack_voice_SLQSVoiceGetCallInfo_t Struct Reference . . . 776
8.760.1 Detailed Description . . . 776
8.760.2 Field Documentation . . . 776
8.760.2.1 callID . . . 776
8.761 pack_voice_SLQSVoiceGetCallWaiting_t Struct Reference . . . 776
8.761.1 Detailed Description . . . 777
8.761.2 Field Documentation . . . 777
8.761.2.1 pSvcClass . . . 777
8.762 pack_voice_SLQSVoiceGetConfig_t Struct Reference . . . 777
8.762.1 Detailed Description . . . 777
8.762.2 Field Documentation . . . 778
8.762.2.1 pAirTimer . . . 778
8.762.2.2 pAMRStatus . . . 778
8.762.2.3 pAutoAnswer . . . 778
8.762.2.4 pNamID . . . 778
8.762.2.5 pPrefVoicePrivacy . . . 778
8.762.2.6 pPrefVoiceSO . . . 778
8.762.2.7 pRoamTimer . . . 778
8.762.2.8 pTTYMode . . . 778
8.762.2.9 pVoiceDomainPref . . . 778
8.763 pack_voice_SLQSVoiceIndicationRegister_t Struct Reference . . . 779
8.763.1 Detailed Description . . . 779
8.763.2 Field Documentation . . . 779
8.763.2.1 pRegDTMFEvents . . . 779
8.763.2.2 pRegVoicePrivacyEvents . . . 779
8.763.2.3 pSuppsNotifEvents . . . 779
8.764 pack_voice_SLQSVoiceManageCalls_t Struct Reference . . . 779
8.764.1 Detailed Description . . . 780
8.764.2 Field Documentation . . . 780
8.764.2.1 pCallID . . . 780
8.764.2.2 SUPSType . . . 780
8.765 pack_voice_SLQSVoiceOrigUSSDNoWait_t Struct Reference . . . 780
8.765.1 Detailed Description . . . 780
8.765.2 Field Documentation . . . 781

8.765.2.1 USSInformation . . . 781
8.766 pack_voice_SLQSVoiceSendFlash_t Struct Reference . . . 781
8.766.1 Detailed Description . . . 781
8.766.2 Field Documentation . . . 781
8.766.2.1 pCallID . . . 781
8.766.2.2 pFlashPayLd . . . 781
8.766.2.3 pFlashType . . . 781
8.767 pack_voice_SLQSVoiceSetCallBarringPassword_t Struct Reference . . . 781
8.767.1 Detailed Description . . . 782
8.767.2 Field Documentation . . . 782
8.767.2.1 newPasswd . . . 782
8.767.2.2 newPasswdAgain . . . 782
8.767.2.3 oldPasswd . . . 782
8.767.2.4 Reason . . . 782
8.768 pack_voice_SLQSVoiceSetConfig_t Struct Reference . . . 782
8.768.1 Detailed Description . . . 783
8.768.2 Field Documentation . . . 784
8.768.2.1 pAirTimerConfig . . . 784
8.768.2.2 pAutoAnswer . . . 784
8.768.2.3 pPrefVoiceDomain . . . 784
8.768.2.4 pPrefVoiceSO . . . 784
8.768.2.5 pRoamTimerConfig . . . 784
8.768.2.6 pTTYMode . . . 784
8.769 pack_voice_SLQSVoiceSetPreferredPrivacy_t Struct Reference . . . 784
8.769.1 Detailed Description . . . 784
8.769.2 Field Documentation . . . 784
8.769.2.1 privacyPref . . . 784
8.770 pack_voice_SLQSVoiceSetSUPSService_t Struct Reference . . . 784
8.770.1 Detailed Description . . . 784
8.770.2 Field Documentation . . . 786
8.770.2.1 pCallBarringPasswd . . . 786
8.770.2.2 pCallForwardingNumber . . . 786
8.770.2.3 pCallFwdTypeAndPlan . . . 786
8.770.2.4 pServiceClass . . . 786
8.770.2.5 pTimerVal . . . 786
8.770.2.6 reason . . . 786
8.770.2.7 voiceSvc . . . 786
8.771 pack_voice_SLQSVoiceStartContDTMF_t Struct Reference . . . 786
8.771.1 Detailed Description . . . 786
8.771.2 Field Documentation . . . 787

8.771.2.1 DTMFdigit . . . 787
8.771.2.2 pCallID . . . 787
8.772 pack_voice_SLQSVoiceStopContDTMF_t Struct Reference . . . 787
8.772.1 Detailed Description . . . 787
8.772.2 Field Documentation . . . 787
8.772.2.1 callID . . . 787
8.773 pack_wds_DHCPv4ClientLeaseChange_t Struct Reference . . . 787
8.773.1 Detailed Description . . . 787
8.773.2 Field Documentation . . . 788
8.773.2.1 pEnableNotification . . . 788
8.774 pack_wds_GetDefaultProfile_t Struct Reference . . . 788
8.774.1 Detailed Description . . . 788
8.774.2 Field Documentation . . . 788
8.774.2.1 profiletype . . . 788
8.775 pack_wds_GetDefaultProfileNum_t Struct Reference . . . 788
8.775.1 Detailed Description . . . 788
8.775.2 Field Documentation . . . 788
8.775.2.1 family . . . 788
8.775.2.2 type . . . 789
8.776 pack_wds_GetDormancyState_t Struct Reference . . . 789
8.776.1 Detailed Description . . . 789
8.777 pack_wds_GetLastMobileIPError_t Struct Reference . . . 789
8.777.1 Detailed Description . . . 789
8.778 pack_wds_GetMobileIP_t Struct Reference . . . 789
8.778.1 Detailed Description . . . 789
8.779 pack_wds_GetMobileIPProfile_t Struct Reference . . . 789
8.779.1 Detailed Description . . . 789
8.779.2 Field Documentation . . . 790
8.779.2.1 index . . . 790
8.780 pack_wds_GetPacketStatistics_t Struct Reference . . . 790
8.780.1 Detailed Description . . . 790
8.780.2 Field Documentation . . . 790
8.780.2.1 pStatMask . . . 790
8.781 pack_wds_GetPacketStatus_t Struct Reference . . . 790
8.781.1 Detailed Description . . . 790
8.781.2 Field Documentation . . . 791
8.781.2.1 statmask . . . 791
8.782 pack_wds_GetSessionDuration_t Struct Reference . . . 791
8.782.1 Detailed Description . . . 791
8.783 pack_wds_RMSetTransferStatistics_t Struct Reference . . . 791

8.783.1 Detailed Description . . . 791
8.783.2 Field Documentation . . . 791
8.783.2.1 RmTrasnferStaticsReq . . . 791
8.784 pack_wds_SetAutoconnect_t Struct Reference . . . 792
8.784.1 Detailed Description . . . 792
8.784.2 Field Documentation . . . 792
8.784.2.1 acroamsetting . . . 792
8.784.2.2 acsetting . . . 792
8.785 pack_wds_SetDefaultProfile_t Struct Reference . . . 792
8.785.1 Detailed Description . . . 792
8.785.2 Field Documentation . . . 793
8.785.2.1 authentication . . . 794
8.785.2.2 ipAddress . . . 794
8.785.2.3 pApnname . . . 794
8.785.2.4 pdpType . . . 794
8.785.2.5 pName . . . 794
8.785.2.6 pPassword . . . 794
8.785.2.7 primaryDNS . . . 794
8.785.2.8 profileType . . . 794
8.785.2.9 pUsername . . . 794
8.785.2.10 secondaryDNS . . . 794
8.786 pack_wds_SetDefaultProfileNum_t Struct Reference . . . 794
8.786.1 Detailed Description . . . 794
8.786.2 Field Documentation . . . 794
8.786.2.1 family . . . 794
8.786.2.2 index . . . 794
8.786.2.3 type . . . 794
8.787 pack_wds_SetMobileIP_t Struct Reference . . . 795
8.787.1 Detailed Description . . . 795
8.787.2 Field Documentation . . . 795
8.787.2.1 mode . . . 795
8.788 pack_wds_SetMobileIPParameters_t Struct Reference . . . 795
8.788.1 Detailed Description . . . 795
8.788.2 Field Documentation . . . 796
8.788.2.1 pHA2002bis . . . 796
8.788.2.2 pHAAuthenticator . . . 796
8.788.2.3 pMode . . . 796
8.788.2.4 pReRegPeriod . . . 796
8.788.2.5 pReRegTraffic . . . 796
8.788.2.6 pRetryInterval . . . 796

8.788.2.7 pRetryLimit . . . 796
8.788.2.8 pSPC . . . 796
8.789 pack_wds_SetMobileIPProfile_t Struct Reference . . . 796
8.789.1 Detailed Description . . . 797
8.789.2 Field Documentation . . . 797
8.789.2.1 index . . . 798
8.789.2.2 pAAASPI . . . 798
8.789.2.3 pAddress . . . 798
8.789.2.4 pEnabled . . . 798
8.789.2.5 pHASPI . . . 798
8.789.2.6 pMNAAA . . . 798
8.789.2.7 pMNHA . . . 798
8.789.2.8 pNAI . . . 798
8.789.2.9 pPrimaryHA . . . 798
8.789.2.10 pRevTunneling . . . 798
8.789.2.11 pSecondaryHA . . . 798
8.789.2.12 spc . . . 798
8.790 pack_wds_SLQSCreateProfile_t Struct Reference . . . 798
8.790.1 Detailed Description . . . 798
8.790.2 Field Documentation . . . 799
8.790.2.1 pCurProfile . . . 799
8.790.2.2 pProfileId . . . 799
8.790.2.3 pProfileType . . . 799
8.791 pack_wds_SLQSDeleteProfile_t Struct Reference . . . 799
8.791.1 Detailed Description . . . 799
8.791.2 Field Documentation . . . 799
8.791.2.1 profileIndex . . . 799
8.791.2.2 profileType . . . 799
8.792 pack_wds_SLQSGetCurrDataSystemStat_t Struct Reference . . . 799
8.792.1 Detailed Description . . . 799
8.793 pack_wds_SLQSGetDataBearerTechnology_t Struct Reference . . . 800
8.793.1 Detailed Description . . . 800
8.794 pack_wds_SLQSGetDUNCallInfo_t Struct Reference . . . 800
8.794.1 Detailed Description . . . 800
8.794.2 Field Documentation . . . 801
8.794.2.1 Mask . . . 801
8.794.2.2 pReportChannelRate . . . 801
8.794.2.3 pReportConnStatus . . . 801
8.794.2.4 pReportDataBearerTech . . . 801
8.794.2.5 pReportDormStatus . . . 801

8.794.2.6 pTransferStatInd . . . 801
8.795 pack_wds_SLQSGetProfileSettings_t Struct Reference . . . 801
8.795.1 Detailed Description . . . 801
8.795.2 Field Documentation . . . 802
8.795.2.1 ProfileId . . . 802
8.795.2.2 ProfileType . . . 802
8.796 pack_wds_SLQSGetRuntimeSettings_t Struct Reference . . . 802
8.796.1 Detailed Description . . . 802
8.796.2 Field Documentation . . . 803
8.796.2.1 pReqSettings . . . 803
8.797 pack_wds_SLQSModifyProfile_t Struct Reference . . . 803
8.797.1 Detailed Description . . . 803
8.797.2 Field Documentation . . . 804
8.797.2.1 curProfile . . . 804
8.797.2.2 pProfileId . . . 804
8.797.2.3 pProfileType . . . 804
8.798 pack_wds_SLQSSet3GPPConfigItem_t Struct Reference . . . 804
8.798.1 Detailed Description . . . 804
8.798.2 Field Documentation . . . 805
8.798.2.1 LTEAttachProfileListLen . . . 805
8.798.2.2 p3gppRelease . . . 805
8.798.2.3 pDefaultPDNEnabled . . . 805
8.798.2.4 pLTEAttachProfile . . . 805
8.798.2.5 pLTEAttachProfileList . . . 805
8.798.2.6 pProfileList . . . 806
8.799 pack_wds_SLQSSetIPFamilyPreference_t Struct Reference . . . 806
8.799.1 Detailed Description . . . 806
8.799.2 Field Documentation . . . 806
8.799.2.1 IPFamilyPreference . . . 806
8.800 pack_wds_SLQSSetWdsEventCallback_t Struct Reference . . . 806
8.800.1 Detailed Description . . . 806
8.800.2 Field Documentation . . . 807
8.800.2.1 currentDataBearer . . . 807
8.800.2.2 dataBearer . . . 807
8.800.2.3 dataBearerTechExt . . . 807
8.800.2.4 dataSystemStatus . . . 807
8.800.2.5 dormancyStatus . . . 807
8.800.2.6 interval . . . 807
8.800.2.7 mobileIP . . . 807
8.800.2.8 transferStats . . . 807

8.801 pack_wds_SLQSSGetDHCPv4ClientConfig_t Struct Reference . . . 807
8.801.1 Detailed Description . . . 807
8.801.2 Field Documentation . . . 807
8.801.2.1 pProfileId . . . 807
8.802 pack_wds_SLQSSSetDHCPv4ClientConfig_t Struct Reference . . . 807
8.802.1 Detailed Description . . . 807
8.802.2 Field Documentation . . . 808
8.802.2.1 pHwConfig . . . 808
8.802.2.2 pProfileId . . . 808
8.802.2.3 pRequestOptionList . . . 808
8.803 pack_wds_SLQSSSetLoopback_t Struct Reference . . . 808
8.803.1 Detailed Description . . . 808
8.803.2 Field Documentation . . . 808
8.803.2.1 loopbackMode . . . 808
8.803.2.2 loopbackMultiplier . . . 808
8.804 pack_wds_SLQSStartDataSession_t Struct Reference . . . 808
8.804.1 Detailed Description . . . 809
8.804.2 Field Documentation . . . 809
8.804.2.1 pAuth . . . 809
8.804.2.2 pPass . . . 809
8.804.2.3 pprofileid3gpp . . . 809
8.804.2.4 pprofileid3gpp2 . . . 809
8.804.2.5 pTech . . . 809
8.804.2.6 pUser . . . 810
8.805 pack_wds_SLQSStopDataSession_t Struct Reference . . . 810
8.805.1 Detailed Description . . . 810
8.805.2 Field Documentation . . . 810
8.805.2.1 psid . . . 810
8.806 pack_wds_SLQSWdsSetEventReport_t Struct Reference . . . 810
8.806.1 Detailed Description . . . 810
8.806.2 Field Documentation . . . 811
8.806.2.1 pCurrChannelRateInd . . . 811
8.806.2.2 pCurrDataBearerTechInd . . . 811
8.806.2.3 pCurrPrefDataSysInd . . . 811
8.806.2.4 pDataBearerTechInd . . . 811
8.806.2.5 pDataCallStatusChangeInd . . . 811
8.806.2.6 pDataSystemStatusChangeInd . . . 812
8.806.2.7 pDormancyStatusInd . . . 812
8.806.2.8 pEVDOPageMonPerChangeInd . . . 812
8.806.2.9 pMIPStatusInd . . . 812

8.806.2.10 pTransferStatInd . . . 812
8.807 pack_wds_SLQSWdsSwiPDPRuntimeSettings_t Struct Reference . . . 812
8.807.1 Detailed Description . . . 812
8.807.2 Field Documentation . . . 812
8.807.2.1 contextId . . . 812
8.807.2.2 contextType . . . 812
8.808 PackCreateProfileOut Struct Reference . . . 812
8.808.1 Detailed Description . . . 812
8.808.2 Field Documentation . . . 813
8.808.2.1 ExtErrorCode . . . 813
8.808.2.2 ProfileIndex . . . 813
8.808.2.3 ProfileType . . . 813
8.809 packgetDyingGaspCfg Struct Reference . . . 813
8.809.1 Detailed Description . . . 813
8.809.2 Field Documentation . . . 813
8.809.2.1 pDestSMSContent . . . 813
8.809.2.2 pDestSMSNum . . . 813
8.810 packgetDyingGaspStatistics Struct Reference . . . 813
8.810.1 Detailed Description . . . 814
8.810.2 Field Documentation . . . 814
8.810.2.1 pSMSAttemptedFlag . . . 814
8.810.2.2 pTimeStamp . . . 814
8.811 PCMparams Struct Reference . . . 814
8.811.1 Detailed Description . . . 814
8.811.2 Field Documentation . . . 814
8.811.2.1 iFaceTab . . . 814
8.811.2.2 iFaceTabLen . . . 814
8.812 PCSCFFQDNAddress Struct Reference . . . 815
8.812.1 Detailed Description . . . 815
8.812.2 Field Documentation . . . 815
8.812.2.1 fqdnAddr . . . 815
8.812.2.2 fqdnLen . . . 815
8.813 PCSCFFQDNAddressList Struct Reference . . . 815
8.813.1 Detailed Description . . . 815
8.813.2 Field Documentation . . . 815
8.813.2.1 numInstances . . . 815
8.813.2.2 pcsfFQDNAddress . . . 815
8.814 PCSCFIPv4ServerAddressList Struct Reference . . . 816
8.814.1 Detailed Description . . . 816
8.814.2 Field Documentation . . . 816

8.814.2.1 numInstances . . . 816
8.814.2.2 pscsfIPv4Addr . . . 816
8.815 PDSPositionData Struct Reference . . . 816
8.815.1 Detailed Description . . . 816
8.815.2 Field Documentation . . . 818
8.815.2.1 pAltitudeWrtEllipsoid . . . 818
8.815.2.2 pAltitudeWrtSealevel . . . 818
8.815.2.3 pHorizontalConfidence . . . 818
8.815.2.4 pHorizontalUncCircular . . . 818
8.815.2.5 pLatitude . . . 818
8.815.2.6 pLongitude . . . 818
8.815.2.7 pPositionSource . . . 818
8.815.2.8 pTimeStamp . . . 818
8.815.2.9 pTimeType . . . 818
8.815.2.10 pVerticalConfidence . . . 818
8.815.2.11 pVerticalUnc . . . 818
8.816 PDSPosMethodStateReq Struct Reference . . . 818
8.816.1 Detailed Description . . . 818
8.816.2 Field Documentation . . . 819
8.816.2.1 pWifiState . . . 819
8.816.2.2 pXtraDataState . . . 819
8.816.2.3 pXtraTimeState . . . 819
8.817 peerNumberInfo Struct Reference . . . 819
8.817.1 Detailed Description . . . 819
8.817.2 Field Documentation . . . 820
8.817.2.1 callID . . . 820
8.817.2.2 number . . . 820
8.817.2.3 numLen . . . 820
8.817.2.4 numPI . . . 820
8.817.2.5 numPlan . . . 820
8.817.2.6 numSI . . . 821
8.817.2.7 numType . . . 821
8.818 personalizationStatus Struct Reference . . . 821
8.818.1 Detailed Description . . . 821
8.818.2 Field Documentation . . . 821
8.818.2.1 feature . . . 821
8.818.2.2 numFeatures . . . 821
8.818.2.3 unblockLeft . . . 821
8.818.2.4 verifyLeft . . . 821
8.819 PhyCaAggPcellInfo Struct Reference . . . 822

8.819.1 Detailed Description . . . 822
8.819.2 Field Documentation . . . 822
8.819.2.1 dl_bw_value . . . 822
8.819.2.2 freq . . . 822
8.819.2.3 iLTEbandValue . . . 822
8.819.2.4 pci . . . 822
8.819.2.5 TlvPresent . . . 822
8.820 PhyCaAggScellDlBw Struct Reference . . . 822
8.820.1 Detailed Description . . . 823
8.820.2 Field Documentation . . . 823
8.820.2.1 dl_bw_value . . . 823
8.820.2.2 TlvPresent . . . 823
8.821 PhyCaAggScellIndex Struct Reference . . . 823
8.821.1 Detailed Description . . . 823
8.821.2 Field Documentation . . . 823
8.821.2.1 scell_idx . . . 823
8.821.2.2 TlvPresent . . . 823
8.822 PhyCaAggScellIndType Struct Reference . . . 823
8.822.1 Detailed Description . . . 824
8.822.2 Field Documentation . . . 824
8.822.2.1 freq . . . 824
8.822.2.2 pci . . . 824
8.822.2.3 scell_state . . . 824
8.822.2.4 TlvPresent . . . 824
8.823 PhyCaAggScellInfo Struct Reference . . . 824
8.823.1 Detailed Description . . . 824
8.823.2 Field Documentation . . . 827
8.823.2.1 dl_bw_value . . . 827
8.823.2.2 freq . . . 827
8.823.2.3 iLTEbandValue . . . 827
8.823.2.4 pci . . . 827
8.823.2.5 scell_state . . . 827
8.823.2.6 TlvPresent . . . 827
8.824 PilotSetData Struct Reference . . . 827
8.824.1 Detailed Description . . . 827
8.824.2 Field Documentation . . . 827
8.824.2.1 NumPilots . . . 827
8.824.2.2 pPilotSetInfo . . . 827
8.825 PilotSetParams Struct Reference . . . 828
8.825.1 Detailed Description . . . 828

8.825.2 Field Documentation . . . 828
8.825.2.1 PilotPN . . . 828
8.825.2.2 PilotStrength . . . 828
8.825.2.3 PilotType . . . 828
8.826 pktErrRate Struct Reference . . . 828
8.826.1 Detailed Description . . . 828
8.826.2 Field Documentation . . . 828
8.826.2.1 exponent . . . 828
8.826.2.2 multiplier . . . 829
8.827 PlmnID Struct Reference . . . 829
8.827.1 Detailed Description . . . 829
8.827.2 Field Documentation . . . 829
8.827.2.1 mcc . . . 829
8.827.2.2 mnc . . . 829
8.827.2.3 pcsDigit . . . 829
8.827.2.4 TlvPresent . . . 829
8.828 PLMNNetworkName Struct Reference . . . 829
8.828.1 Detailed Description . . . 830
8.828.2 Field Documentation . . . 830
8.828.2.1 numInstance . . . 830
8.828.2.2 PLMNNetName . . . 830
8.829 PLMNNetworkNameData Struct Reference . . . 830
8.829.1 Detailed Description . . . 830
8.829.2 Field Documentation . . . 831
8.829.2.1 codingScheme . . . 831
8.829.2.2 countryInitials . . . 831
8.829.2.3 longName . . . 831
8.829.2.4 longNameLen . . . 831
8.829.2.5 longNameSpareBits . . . 831
8.829.2.6 shortName . . . 831
8.829.2.7 shortNameLen . . . 832
8.829.2.8 shortNameSpareBits . . . 832
8.830 Port Struct Reference . . . 832
8.830.1 Detailed Description . . . 832
8.830.2 Field Documentation . . . 832
8.830.2.1 port . . . 832
8.830.2.2 range . . . 832
8.831 PowerSaveModeConfigReq Struct Reference . . . 832
8.831.1 Detailed Description . . . 832
8.831.2 Field Documentation . . . 833

8.831.2.1 pActiveTimer . . . 833
8.831.2.2 pPeriodicUpdateTimer . . . 833
8.831.2.3 pPsmEnableState . . . 833
8.832 PowerSaveModeConfigResp Struct Reference . . . 833
8.832.1 Detailed Description . . . 833
8.832.2 Field Documentation . . . 834
8.832.2.1 pActiveTimer . . . 834
8.832.2.2 pDurationDueToOOS . . . 834
8.832.2.3 pDurationThreshold . . . 834
8.832.2.4 pEarlyWakeupTime . . . 834
8.832.2.5 pPeriodicUpdateTimer . . . 834
8.832.2.6 pPsmEnableState . . . 834
8.832.2.7 pRandomizationWindow . . . 834
8.833 precisionDilution_s Struct Reference . . . 834
8.833.1 Detailed Description . . . 834
8.833.2 Field Documentation . . . 834
8.833.2.1 HDOP . . . 834
8.833.2.2 PDOP . . . 834
8.833.2.3 VDOP . . . 834
8.834 PrefImageList Struct Reference . . . 835
8.834.1 Detailed Description . . . 835
8.834.2 Field Documentation . . . 835
8.834.2.1 listEntries . . . 835
8.834.2.2 listSize . . . 835
8.835 prefVoiceSO Struct Reference . . . 835
8.835.1 Detailed Description . . . 835
8.835.2 Field Documentation . . . 837
8.835.2.1 evrcCapability . . . 837
8.835.2.2 homeOrigVoiceSO . . . 837
8.835.2.3 homePageVoiceSO . . . 837
8.835.2.4 namID . . . 837
8.835.2.5 roamOrigVoiceSO . . . 837
8.836 Profile3GPP Struct Reference . . . 837
8.836.1 Detailed Description . . . 838
8.836.2 Field Documentation . . . 842
8.836.2.1 pAddrAllocPref . . . 842
8.836.2.2 pAPNClass . . . 842
8.836.2.3 pAPNDisabledFlag . . . 842
8.836.2.4 pAPNName . . . 842
8.836.2.5 pAPNnameSize . . . 842

8.836.2.6 pAuthenticationPref . . . 842
8.836.2.7 pGPRSMinimumQoS . . . 842
8.836.2.8 pGPRSRequestedQos . . . 842
8.836.2.9 pImCnFlag . . . 842
8.836.2.10 pIPv4AddrPref . . . 842
8.836.2.11 pIPv6AddPref . . . 842
8.836.2.12 pPassword . . . 842
8.836.2.13 pPasswordSize . . . 842
8.836.2.14 pPcscfAddrUsingDhcp . . . 842
8.836.2.15 pPcscfAddrUsingPCO . . . 842
8.836.2.16 pPDNInactivTimeout . . . 842
8.836.2.17 pPdpAccessConFlag . . . 842
8.836.2.18 pPdpContext . . . 842
8.836.2.19 pPdpDataCompType . . . 842
8.836.2.20 pPdpHdrCompType . . . 843
8.836.2.21 pPDPtype . . . 843
8.836.2.22 pPriDNSIPv4AddPref . . . 843
8.836.2.23 pPriDNSIPv6addpref . . . 843
8.836.2.24 pPrimaryID . . . 843
8.836.2.25 pProfilename . . . 843
8.836.2.26 pProfilenameSize . . . 843
8.836.2.27 pQosClassID . . . 843
8.836.2.28 pSecDNSIPv4AddPref . . . 843
8.836.2.29 pSecDNSIPv6addpref . . . 843
8.836.2.30 pSecondaryFlag . . . 843
8.836.2.31 pSupportEmergencyCalls . . . 843
8.836.2.32 pTFTID1Params . . . 843
8.836.2.33 pTFTID2Params . . . 843
8.836.2.34 pUMTSMinQoS . . . 843
8.836.2.35 pUMTSMinQosSigInd . . . 843
8.836.2.36 pUMTSReqQoS . . . 843
8.836.2.37 pUMTSReqQoSSigInd . . . 843
8.836.2.38 pUsername . . . 843
8.836.2.39 pUsernameSize . . . 843
8.837 Profile3GPP2 Struct Reference . . . 843
8.837.1 Detailed Description . . . 844
8.837.2 Field Documentation . . . 847
8.837.2.1 pAllowLinger . . . 847
8.837.2.2 pAPNClass3GPP2 . . . 847
8.837.2.3 pAPNEnabled3GPP2 . . . 847

8.837.2.4 pApnString . . . 847
8.837.2.5 pApnStringSize . . . 847
8.837.2.6 pAppPriority . . . 847
8.837.2.7 pAppType . . . 847
8.837.2.8 pAuthPassword . . . 848
8.837.2.9 pAuthPasswordSize . . . 848
8.837.2.10 pAuthProtocol . . . 848
8.837.2.11 pAuthRetryCount . . . 848
8.837.2.12 pAuthTimeout . . . 848
8.837.2.13 pDataMode . . . 848
8.837.2.14 pDataRate . . . 848
8.837.2.15 pIpcpAckTimeout . . . 848
8.837.2.16 pIpcpCreqRetryCount . . . 848
8.837.2.17 pIsPcscfAddressNedded . . . 848
8.837.2.18 pLcpAckTimeout . . . 848
8.837.2.19 pLcpCreqRetryCount . . . 848
8.837.2.20 pNegoDnsSrvrPref . . . 848
8.837.2.21 pPDNInactivTimeout3GPP2 . . . 848
8.837.2.22 pPdnType . . . 848
8.837.2.23 pPppSessCloseTimer1x . . . 848
8.837.2.24 pPppSessCloseTimerDO . . . 848
8.837.2.25 pPrimaryV4DnsAddress . . . 848
8.837.2.26 pPriV6DnsAddress . . . 848
8.837.2.27 pRATType . . . 848
8.837.2.28 pSecondaryV4DnsAddress . . . 848
8.837.2.29 pSecV6DnsAddress . . . 848
8.837.2.30 pUserId . . . 848
8.837.2.31 pUserIdSize . . . 848
8.838 ProfileIdentifier Struct Reference . . . 848
8.838.1 Detailed Description . . . 849
8.838.2 Field Documentation . . . 849
8.838.2.1 profileIndex . . . 849
8.838.2.2 profileType . . . 849
8.839 protocolSubtypeElement Struct Reference . . . 849
8.839.1 Detailed Description . . . 849
8.839.2 Field Documentation . . . 850
8.839.2.1 AccessMac . . . 850
8.839.2.2 AuthProt . . . 850
8.839.2.3 ControlMac . . . 850
8.839.2.4 EncryptProt . . . 850

8.839.2.5 ForwardMac . . . 850
8.839.2.6 IdleState . . . 850
8.839.2.7 KeyExchange . . . 850
8.839.2.8 MultDisc . . . 850
8.839.2.9 PhysicalLayer . . . 850
8.839.2.10 ReverseMac . . . 850
8.839.2.11 SecProt . . . 851
8.839.2.12 VirtStream . . . 851
8.840 PSDetachReq Struct Reference . . . 851
8.840.1 Detailed Description . . . 851
8.840.2 Field Documentation . . . 851
8.840.2.1 pDetachAction . . . 851
8.841 PSMActiveTimerTlv Struct Reference . . . 851
8.841.1 Detailed Description . . . 851
8.841.2 Field Documentation . . . 851
8.841.2.1 activeTimer . . . 851
8.841.2.2 TlvPresent . . . 851
8.842 PSMDurationDueToOOSTlv Struct Reference . . . 852
8.842.1 Detailed Description . . . 852
8.842.2 Field Documentation . . . 852
8.842.2.1 durationDueToOOS . . . 852
8.842.2.2 TlvPresent . . . 852
8.843 PSMDurationThresholdTlv Struct Reference . . . 852
8.843.1 Detailed Description . . . 852
8.843.2 Field Documentation . . . 852
8.843.2.1 durationThreshold . . . 852
8.843.2.2 TlvPresent . . . 852
8.844 PSMEarlyWakeupTimeTlv Struct Reference . . . 853
8.844.1 Detailed Description . . . 853
8.844.2 Field Documentation . . . 853
8.844.2.1 earlyWakeupTime . . . 853
8.844.2.2 TlvPresent . . . 853
8.845 PSMEnableStateTlv Struct Reference . . . 853
8.845.1 Detailed Description . . . 853
8.845.2 Field Documentation . . . 853
8.845.2.1 enableState . . . 853
8.845.2.2 TlvPresent . . . 854
8.846 PSMPeriodicUpdateTimerTlv Struct Reference . . . 854
8.846.1 Detailed Description . . . 854
8.846.2 Field Documentation . . . 854

8.846.2.1 periodicUpdateTimer . . . 854
8.846.2.2 TlvPresent . . . 854
8.847 PSMRandomizationWindowTlv Struct Reference . . . 854
8.847.1 Detailed Description . . . 854
8.847.2 Field Documentation . . . 854
8.847.2.1 randomizationWindow . . . 854
8.847.2.2 TlvPresent . . . 855
8.848 qaQmi3Gpp2TimeZone Struct Reference . . . 855
8.848.1 Detailed Description . . . 855
8.848.2 Field Documentation . . . 855
8.848.2.1 daylightSavings . . . 855
8.848.2.2 leapSeconds . . . 855
8.848.2.3 localTimeOffset . . . 855
8.849 qaQmiInterfaceInfo Struct Reference . . . 855
8.849.1 Detailed Description . . . 855
8.849.2 Field Documentation . . . 856
8.849.2.1 qaQmiinstanceid . . . 856
8.849.2.2 qaQmisvctype . . . 856
8.849.2.3 v4sessionId . . . 856
8.849.2.4 v6sessionId . . . 856
8.850 qaQmiServingSystemParam Struct Reference . . . 856
8.850.1 Detailed Description . . . 857
8.850.2 Field Documentation . . . 859
8.850.2.1 BasestationID . . . 859
8.850.2.2 BasestationLatitude . . . 859
8.850.2.3 BasestationLongitude . . . 859
8.850.2.4 CallBarStatus . . . 859
8.850.2.5 CDMA_P_Rev . . . 859
8.850.2.6 CDMASystemInfoExt . . . 859
8.850.2.7 CellID . . . 859
8.850.2.8 concSvcInfo . . . 859
8.850.2.9 CurrentPLMN . . . 859
8.850.2.10 DataSrvCapabilities . . . 859
8.850.2.11 defaultRoamInd . . . 859
8.850.2.12 DetailedSvcInfo . . . 859
8.850.2.13 DTMInd . . . 859
8.850.2.14 Gpp2TimeZone . . . 859
8.850.2.15 GppNetworkDSTAdjustment . . . 859
8.850.2.16 GppTimeZone . . . 859
8.850.2.17 hdrPersonality . . . 860

8.850.2.18 Lac . . . 860
8.850.2.19 NetworkID . . . 860
8.850.2.20 PRLInd . . . 860
8.850.2.21 roamIndicatorVal . . . 860
8.850.2.22 RoamingIndicatorList . . . 860
8.850.2.23 ServingSystem . . . 860
8.850.2.24 SystemID . . . 860
8.850.2.25 trackAreaCode . . . 860
8.851 QmiCbkCatEventStatusReportInd Struct Reference . . . 860
8.851.1 Field Documentation . . . 860
8.851.1.1 CCETlv . . . 860
8.851.1.2 event_Index . . . 860
8.851.1.3 results . . . 860
8.852 QmiCbkLocBestAvailPosInd Struct Reference . . . 860
8.852.1 Detailed Description . . . 861
8.852.2 Field Documentation . . . 865
8.852.2.1 pAltitudeWrtEllipsoid . . . 865
8.852.2.2 pAltitudeWrtMeanSeaLevel . . . 865
8.852.2.3 pGpsTime . . . 865
8.852.2.4 pHeading . . . 865
8.852.2.5 pHeadingUnc . . . 865
8.852.2.6 pHorCirConf . . . 865
8.852.2.7 pHorEllpConf . . . 865
8.852.2.8 pHorReliability . . . 865
8.852.2.9 pHorUncCircular . . . 865
8.852.2.10 pHorUncEllipseOrientAzimuth . . . 865
8.852.2.11 pHorUncEllipseSemiMajor . . . 865
8.852.2.12 pHorUncEllipseSemiMinor . . . 865
8.852.2.13 pLatitude . . . 865
8.852.2.14 pLongitude . . . 865
8.852.2.15 pMagneticDeviation . . . 865
8.852.2.16 pPrecisionDilution . . . 865
8.852.2.17 pSensorDataUsage . . . 865
8.852.2.18 pSpeedHorizontal . . . 865
8.852.2.19 pSpeedUnc . . . 865
8.852.2.20 pSpeedVertical . . . 865
8.852.2.21 pSpeedVerticalUnc . . . 865
8.852.2.22 pSvUsedforFix . . . 865
8.852.2.23 pTechnologyMask . . . 865
8.852.2.24 pTimeSrc . . . 865

8.852.2.25 pTimestampUtc . . . 865
8.852.2.26 pTimeUnc . . . 865
8.852.2.27 pVertConfidence . . . 865
8.852.2.28 pVertReliability . . . 866
8.852.2.29 pVertUnc . . . 866
8.852.2.30 pXid . . . 866
8.852.2.31 results . . . 866
8.852.2.32 status . . . 866
8.853 QmiCbkLocCradleMountInd Struct Reference . . . 866
8.853.1 Detailed Description . . . 866
8.853.2 Field Documentation . . . 866
8.853.2.1 cradleMountConfigStatus . . . 866
8.853.2.2 results . . . 866
8.854 QmiCbkLocEngineStateInd Struct Reference . . . 866
8.854.1 Detailed Description . . . 867
8.854.2 Field Documentation . . . 867
8.854.2.1 engineState . . . 867
8.854.2.2 results . . . 867
8.855 QmiCbkLocEventNMEAInd Struct Reference . . . 867
8.855.1 Detailed Description . . . 867
8.855.2 Field Documentation . . . 867
8.855.2.1 pNMEAData . . . 867
8.855.2.2 results . . . 867
8.856 QmiCbkLocEventTimeSyncInd Struct Reference . . . 867
8.856.1 Detailed Description . . . 868
8.856.2 Field Documentation . . . 868
8.856.2.1 results . . . 868
8.856.2.2 timeSyncRefCounter . . . 868
8.857 QmiCbkLocGetServerInd Struct Reference . . . 868
8.857.1 Detailed Description . . . 868
8.857.2 Field Documentation . . . 869
8.857.2.1 pIPv4AddrInfo . . . 869
8.857.2.2 pIPv6AddrInfo . . . 869
8.857.2.3 pURL . . . 869
8.857.2.4 results . . . 869
8.857.2.5 serverStatus . . . 869
8.857.2.6 serverType . . . 869
8.858 QmiCbkLocInjectPositionInd Struct Reference . . . 869
8.858.1 Detailed Description . . . 869
8.858.2 Field Documentation . . . 870

8.858.2.1 results . . . 870
8.858.2.2 status . . . 870
8.859 QmiCbkLocInjectSensorDataInd Struct Reference . . . 870
8.859.1 Detailed Description . . . 870
8.859.2 Field Documentation . . . 871
8.859.2.1 injectSensorDataStatus . . . 871
8.859.2.2 pAccelSamplesAccepted . . . 871
8.859.2.3 pAccelTempSamplesAccepted . . . 871
8.859.2.4 pGyroSamplesAccepted . . . 871
8.859.2.5 pGyroTempSamplesAccepted . . . 871
8.859.2.6 pOpaqueIdentifier . . . 871
8.859.2.7 results . . . 871
8.860 QmiCbkLocInjectTimeInd Struct Reference . . . 872
8.860.1 Detailed Description . . . 872
8.860.2 Field Documentation . . . 872
8.860.2.1 injectTimeSyncStatus . . . 872
8.860.2.2 results . . . 872
8.861 QmiCbkLocInjectUTCTimeInd Struct Reference . . . 872
8.861.1 Detailed Description . . . 872
8.861.2 Field Documentation . . . 873
8.861.2.1 results . . . 873
8.861.2.2 status . . . 873
8.862 QmiCbkLocOpModeInd Struct Reference . . . 873
8.862.1 Detailed Description . . . 873
8.862.2 Field Documentation . . . 874
8.862.2.1 mode . . . 874
8.862.2.2 results . . . 874
8.863 QmiCbkLocPositionReportInd Struct Reference . . . 874
8.863.1 Detailed Description . . . 875
8.863.2 Field Documentation . . . 879
8.863.2.1 pAltitudeAssumed . . . 879
8.863.2.2 pAltitudeWrtEllipsoid . . . 879
8.863.2.3 pAltitudeWrtMeanSeaLevel . . . 879
8.863.2.4 pFixId . . . 879
8.863.2.5 pGpsTime . . . 879
8.863.2.6 pHeading . . . 879
8.863.2.7 pHeadingUnc . . . 879
8.863.2.8 pHorConfidence . . . 879
8.863.2.9 pHorReliability . . . 879
8.863.2.10 pHorUncCircular . . . 879

8.863.2.11 pHorUncEllipseOrientAzimuth . . . 879
8.863.2.12 pHorUncEllipseSemiMajor . . . 879
8.863.2.13 pHorUncEllipseSemiMinor . . . 879
8.863.2.14 pLatitude . . . 879
8.863.2.15 pLeapSeconds . . . 879
8.863.2.16 pLongitude . . . 879
8.863.2.17 pMagneticDeviation . . . 879
8.863.2.18 pPrecisionDilution . . . 879
8.863.2.19 pSensorDataUsage . . . 879
8.863.2.20 pSpeedHorizontal . . . 879
8.863.2.21 pSpeedUnc . . . 879
8.863.2.22 pSpeedVertical . . . 879
8.863.2.23 pSvUsedforFix . . . 879
8.863.2.24 pTechnologyMask . . . 879
8.863.2.25 pTimeSrc . . . 880
8.863.2.26 pTimestampUtc . . . 880
8.863.2.27 pTimeUnc . . . 880
8.863.2.28 pVertConfidence . . . 880
8.863.2.29 pVertReliability . . . 880
8.863.2.30 pVertUnc . . . 880
8.863.2.31 results . . . 880
8.863.2.32 sessionId . . . 880
8.863.2.33 sessionStatus . . . 880
8.864 QmiCbkLocSensorStreamingInd Struct Reference . . . 880
8.864.1 Detailed Description . . . 880
8.864.2 Field Documentation . . . 880
8.864.2.1 pAccelAcceptReady . . . 880
8.864.2.2 pAccelTempAcceptReady . . . 880
8.864.2.3 pGyroAcceptReady . . . 881
8.864.2.4 pGyroTempAcceptReady . . . 881
8.864.2.5 results . . . 881
8.865 QmiCbkLocSetExtPowerConfigInd Struct Reference . . . 881
8.865.1 Detailed Description . . . 881
8.865.2 Field Documentation . . . 881
8.865.2.1 results . . . 881
8.865.2.2 status . . . 881
8.866 QmiCbkLocSetServerInd Struct Reference . . . 881
8.866.1 Detailed Description . . . 881
8.866.2 Field Documentation . . . 882
8.866.2.1 serverStatus . . . 882

8.867 QmiCbkNasLTECphyCaInfo Struct Reference . . . 882
8.867.1 Detailed Description . . . 882
8.867.2 Field Documentation . . . 883
8.867.2.1 sPhyCaAggPcellInfo . . . 883
8.867.2.2 sPhyCaAggScellDlBw . . . 883
8.867.2.3 sPhyCaAggScellIndex . . . 883
8.867.2.4 sPhyCaAggScellIndType . . . 883
8.867.2.5 sPhyCaAggScellInfo . . . 883
8.868 QmiCbkSwiOmaDmEventStatusReportInd Struct Reference . . . 883
8.868.1 Field Documentation . . . 883
8.868.1.1 SITlv . . . 883
8.869 QmiCbkSwiOmaDmEventStatusReportIndExt Struct Reference . . . 883
8.869.1 Field Documentation . . . 883
8.869.1.1 SITlv . . . 883
8.870 QmiCbkTmdMitiLvlRptInd Struct Reference . . . 883
8.870.1 Detailed Description . . . 883
8.870.2 Field Documentation . . . 884
8.870.2.1 currentMitigationLvl . . . 884
8.870.2.2 MitigationDevInfo . . . 884
8.871 QmiCbkWdsStatisticsIndState Struct Reference . . . 884
8.871.1 Detailed Description . . . 884
8.871.2 Field Documentation . . . 884
8.871.2.1 RxDropConutTlv . . . 885
8.871.2.2 RxOkByteCountTlv . . . 885
8.871.2.3 RxOkConutTlv . . . 885
8.871.2.4 TxDropConutTlv . . . 885
8.871.2.5 TxOkByteCountTlv . . . 885
8.871.2.6 TxOkConutTlv . . . 885
8.872 qmifwinfo_s Struct Reference . . . 885
8.872.1 Detailed Description . . . 885
8.872.2 Field Documentation . . . 885
8.872.2.1 dev . . . 886
8.872.2.2 g . . . 886
8.872.2.3 s . . . 886
8.873 QmiNas3GppNetworkInfo Struct Reference . . . 886
8.873.1 Detailed Description . . . 886
8.873.2 Field Documentation . . . 887
8.873.2.1 pDesription . . . 887
8.873.2.2 pForbidden . . . 887
8.873.2.3 pInUse . . . 887

8.873.2.4 pMCC . . . 887
8.873.2.5 pMNC . . . 887
8.873.2.6 pPreferred . . . 887
8.873.2.7 pRoaming . . . 887
8.874 QmiNasGetRFBandInfoResp Struct Reference . . . 887
8.874.1 Field Documentation . . . 887
8.874.1.1 pInstancesSize . . . 887
8.874.1.2 pLTEOperationMode . . . 887
8.874.1.3 pRFBandInfoElements . . . 887
8.874.1.4 pRfBandInfoExtFormat . . . 887
8.874.1.5 pRfBandwidthInfo . . . 887
8.874.1.6 pRfDedicatedBandInfo . . . 887
8.874.1.7 results . . . 888
8.875 QmiNasPerformNetworkScanResp Struct Reference . . . 888
8.875.1 Field Documentation . . . 888
8.875.1.1 pInstances . . . 888
8.875.1.2 pInstanceSize . . . 888
8.875.1.3 results . . . 888
8.876 qmiSmsMessageList Struct Reference . . . 888
8.876.1 Detailed Description . . . 888
8.876.2 Field Documentation . . . 888
8.876.2.1 messageIndex . . . 888
8.876.2.2 messageTag . . . 888
8.877 qmiWDSDataBearerTechnology Struct Reference . . . 888
8.877.1 Detailed Description . . . 889
8.877.2 Field Documentation . . . 889
8.877.2.1 currentNetwork . . . 889
8.877.2.2 ratMask . . . 889
8.877.2.3 soMask . . . 889
8.878 QmiWdsIpAddressInfo Struct Reference . . . 890
8.878.1 Detailed Description . . . 890
8.878.2 Field Documentation . . . 890
8.878.2.1 pIPAddressV4 . . . 890
8.878.2.2 pIPAddressV6 . . . 890
8.878.2.3 pIPv6prefixlen . . . 890
8.879 qmiWdsRunTimeSettings Struct Reference . . . 890
8.879.1 Detailed Description . . . 891
8.879.2 Field Documentation . . . 893
8.879.2.1 pAPNName . . . 893
8.879.2.2 pAuthentication . . . 893

8.879.2.3 pDomainList . . . 893
8.879.2.4 pGPRSGrantedQoS . . . 893
8.879.2.5 pGWAddressV4 . . . 893
8.879.2.6 pIMCNflag . . . 893
8.879.2.7 pIPAddressV4 . . . 893
8.879.2.8 pIPFamilyPreference . . . 893
8.879.2.9 pIPV6AddrInfo . . . 893
8.879.2.10 pIPV6GWAddrInfo . . . 893
8.879.2.11 pMtu . . . 893
8.879.2.12 pPCSCFAddrPCO . . . 893
8.879.2.13 pPCSCFFQDNAddrList . . . 893
8.879.2.14 pPDPType . . . 893
8.879.2.15 pPrimaryDNSV4 . . . 893
8.879.2.16 pPrimaryDNSV6 . . . 894
8.879.2.17 pProfileID . . . 894
8.879.2.18 pProfileName . . . 894
8.879.2.19 pSecondaryDNSV4 . . . 894
8.879.2.20 pSecondaryDNSV6 . . . 894
8.879.2.21 pServerAddrList . . . 894
8.879.2.22 pSubnetMaskV4 . . . 894
8.879.2.23 pTechnology . . . 894
8.879.2.24 pUMTSGrantedQoS . . . 894
8.879.2.25 pUsername . . . 894
8.880 qos_BindDataPortMuxID_t Struct Reference . . . 894
8.880.1 Detailed Description . . . 894
8.880.2 Field Documentation . . . 894
8.880.2.1 MuxID . . . 894
8.881 qos_BindDataPortPeripheralEndPointID_t Struct Reference . . . 894
8.881.1 Detailed Description . . . 894
8.881.2 Field Documentation . . . 895
8.881.2.1 EndPointType . . . 895
8.881.2.2 IfaceID . . . 895
8.882 qos_BindDataPortSIODataPort_t Struct Reference . . . 895
8.882.1 Detailed Description . . . 895
8.882.2 Field Documentation . . . 895
8.882.2.1 SIODataPort . . . 895
8.883 QosClassID Struct Reference . . . 895
8.883.1 Detailed Description . . . 895
8.883.2 Field Documentation . . . 896
8.883.2.1 gDlBitRate . . . 896

8.883.2.2 gUlBitRate . . . 896
8.883.2.3 maxDlBitRate . . . 896
8.883.2.4 maxUlBitRate . . . 896
8.883.2.5 QCI . . . 896
8.884 QosEventInfo Struct Reference . . . 896
8.884.1 Detailed Description . . . 896
8.884.2 Field Documentation . . . 897
8.884.2.1 pDataBearer . . . 897
8.884.2.2 pPacketsCountRX . . . 897
8.884.2.3 pPacketsCountTX . . . 897
8.884.2.4 pTotalBytesRX . . . 897
8.884.2.5 pTotalBytesTX . . . 898
8.885 QosFlowInfo Struct Reference . . . 898
8.885.1 Detailed Description . . . 898
8.885.2 Field Documentation . . . 898
8.885.2.1 pBearerID . . . 898
8.885.2.2 pQFlowState . . . 898
8.885.2.3 pRxQFilter . . . 898
8.885.2.4 pRxQFlowGranted . . . 898
8.885.2.5 pTxQFilter . . . 898
8.885.2.6 pTxQFlowGranted . . . 899
8.886 QosFlowInfoState Struct Reference . . . 899
8.886.1 Detailed Description . . . 899
8.886.2 Field Documentation . . . 899
8.886.2.1 id . . . 899
8.886.2.2 isNewFlow . . . 899
8.886.2.3 state . . . 899
8.887 QosMap Struct Reference . . . 899
8.887.1 Detailed Description . . . 899
8.887.2 Field Documentation . . . 900
8.887.2.1 dscp . . . 900
8.887.2.2 qos_id . . . 900
8.887.2.3 state . . . 900
8.888 RankIndicatorInd Struct Reference . . . 900
8.888.1 Field Documentation . . . 900
8.888.1.1 Count1 . . . 900
8.888.1.2 Count2 . . . 900
8.889 RatDisabledMaskTlv Struct Reference . . . 900
8.889.1 Detailed Description . . . 900
8.889.2 Field Documentation . . . 901

8.889.2.1 ratDisabledMask . . . 901
8.889.2.2 TlvPresent . . . 901
8.890 readResult Struct Reference . . . 901
8.890.1 Detailed Description . . . 901
8.890.2 Field Documentation . . . 901
8.890.2.1 content . . . 901
8.890.2.2 contentLen . . . 901
8.891 readTransparentInfo Struct Reference . . . 902
8.891.1 Detailed Description . . . 902
8.891.2 Field Documentation . . . 902
8.891.2.1 length . . . 902
8.891.2.2 offset . . . 902
8.892 redirNumInfo Struct Reference . . . 902
8.892.1 Detailed Description . . . 902
8.892.2 Field Documentation . . . 903
8.892.2.1 number . . . 903
8.892.2.2 numLen . . . 903
8.892.2.3 numPlan . . . 904
8.892.2.4 numType . . . 904
8.892.2.5 PI . . . 904
8.892.2.6 reason . . . 904
8.892.2.7 SI . . . 904
8.893 registerRefresh Struct Reference . . . 904
8.893.1 Detailed Description . . . 904
8.893.2 Field Documentation . . . 904
8.893.2.1 arrfileInfo . . . 904
8.893.2.2 numFiles . . . 904
8.893.2.3 registerFlag . . . 905
8.893.2.4 voteForInit . . . 905
8.894 remainingRetries Struct Reference . . . 905
8.894.1 Detailed Description . . . 905
8.894.2 Field Documentation . . . 905
8.894.2.1 unblockLeft . . . 905
8.894.2.2 verifyLeft . . . 905
8.895 remotePartyName Struct Reference . . . 905
8.895.1 Detailed Description . . . 905
8.895.2 Field Documentation . . . 906
8.895.2.1 callerName . . . 906
8.895.2.2 codingScheme . . . 906
8.895.2.3 nameLen . . . 906

8.895.2.4 namePI . . . 906
8.896 remotePartyNum Struct Reference . . . 906
8.896.1 Detailed Description . . . 906
8.896.2 Field Documentation . . . 907
8.896.2.1 numLen . . . 907
8.896.2.2 presentationInd . . . 907
8.896.2.3 remPartyNumber . . . 907
8.897 ReqFieldsList Struct Reference . . . 907
8.897.1 Detailed Description . . . 907
8.897.2 Field Documentation . . . 907
8.897.2.1 requestFields . . . 907
8.897.2.2 requestFieldsLen . . . 908
8.898 RespFieldsList Struct Reference . . . 908
8.898.1 Detailed Description . . . 908
8.898.2 Field Documentation . . . 908
8.898.2.1 responseFields . . . 908
8.898.2.2 responseFieldsLen . . . 908
8.899 RFBandInfoElements Struct Reference . . . 908
8.899.1 Detailed Description . . . 908
8.899.2 Field Documentation . . . 909
8.899.2.1 activeBandClass . . . 909
8.899.2.2 activeBandClass . . . 909
8.899.2.3 activeChannel . . . 909
8.899.2.4 activeChannel . . . 909
8.899.2.5 radioInterface . . . 909
8.899.2.6 radioInterface . . . 909
8.900 RfBandInfoExtFormat Struct Reference . . . 909
8.900.1 Detailed Description . . . 909
8.900.2 Field Documentation . . . 910
8.900.2.1 pInstancesSize . . . 910
8.900.2.2 pRfBandInfoExtFormatParam . . . 910
8.900.2.3 TlvPresent . . . 910
8.901 RfBandInfoExtFormatElements Struct Reference . . . 910
8.901.1 Detailed Description . . . 910
8.901.2 Field Documentation . . . 910
8.901.2.1 activeBand . . . 910
8.901.2.2 activeChannel . . . 910
8.901.2.3 radioInterface . . . 910
8.902 RfBandInfoList Struct Reference . . . 911
8.902.1 Detailed Description . . . 911

8.902.2 Field Documentation . . . 911
8.902.2.1 pInstanceSize . . . 911
8.902.2.2 pRFBandInfoParam . . . 911
8.903 RfBandwidthInfo Struct Reference . . . 911
8.903.1 Detailed Description . . . 911
8.903.2 Field Documentation . . . 912
8.903.2.1 pInstancesSize . . . 912
8.903.2.2 pRfBandwidthInfoParam . . . 912
8.903.2.3 TlvPresent . . . 912
8.904 RfBandwidthInfoElements Struct Reference . . . 912
8.904.1 Detailed Description . . . 912
8.904.2 Field Documentation . . . 912
8.904.2.1 bandwidth . . . 912
8.904.2.2 radioInterface . . . 912
8.905 RfDedicatedBandInfo Struct Reference . . . 912
8.905.1 Detailed Description . . . 913
8.905.2 Field Documentation . . . 913
8.905.2.1 pInstancesSize . . . 913
8.905.2.2 pRfDedicatedBandInfoParam . . . 913
8.905.2.3 TlvPresent . . . 913
8.906 RfDedicatedBandInfoElements Struct Reference . . . 913
8.906.1 Detailed Description . . . 913
8.906.2 Field Documentation . . . 914
8.906.2.1 dedicatedBand . . . 914
8.906.2.2 radioInterface . . . 914
8.907 rmTrasnferStaticsReq Struct Reference . . . 914
8.907.1 Detailed Description . . . 914
8.907.2 Field Documentation . . . 914
8.907.2.1 bResetStatistics . . . 914
8.907.2.2 ulMask . . . 914
8.908 roamIndList Struct Reference . . . 914
8.908.1 Detailed Description . . . 915
8.908.2 Field Documentation . . . 915
8.908.2.1 numInstances . . . 915
8.908.2.2 radioInterface . . . 915
8.908.2.3 roamIndicator . . . 915
8.909 RoamingInfo Struct Reference . . . 915
8.909.1 Field Documentation . . . 915
8.909.1.1 roaming_ind . . . 915
8.909.1.2 TlvPresent . . . 915

8.910 roamTimer Struct Reference . . . 915
8.910.1 Detailed Description . . . 916
8.910.2 Field Documentation . . . 916
8.910.2.1 namID . . . 916
8.910.2.2 roamTimerValue . . . 916
8.911 RSRPThresh Struct Reference . . . 916
8.911.1 Detailed Description . . . 916
8.911.2 Field Documentation . . . 917
8.911.2.1 pRSRPThresList . . . 917
8.911.2.2 RSRPThresListLen . . . 917
8.912 rsrqInformation Struct Reference . . . 917
8.912.1 Detailed Description . . . 917
8.912.2 Field Documentation . . . 917
8.912.2.1 radioIf . . . 917
8.912.2.2 rsrq . . . 917
8.913 RSRQThresh Struct Reference . . . 917
8.913.1 Detailed Description . . . 918
8.913.2 Field Documentation . . . 918
8.913.2.1 pRSRQThresList . . . 918
8.913.2.2 RSRQThresListLen . . . 918
8.914 RSSIThresh Struct Reference . . . 918
8.914.1 Detailed Description . . . 918
8.914.2 Field Documentation . . . 919
8.914.2.1 pRSSIThresList . . . 919
8.914.2.2 RSSIThresListLen . . . 919
8.915 RXAGCList Struct Reference . . . 919
8.915.1 Detailed Description . . . 919
8.915.2 Field Documentation . . . 920
8.915.2.1 pRXAIG . . . 920
8.915.2.2 pRXComprSlope . . . 920
8.915.2.3 pRXComprThres . . . 920
8.915.2.4 pRXExpSlope . . . 920
8.915.2.5 pRXExpThres . . . 920
8.915.2.6 pRXStaticGain . . . 920
8.916 RXAVCList Struct Reference . . . 920
8.916.1 Detailed Description . . . 920
8.916.2 Field Documentation . . . 920
8.916.2.1 pAVRXAVCHeadroom . . . 920
8.916.2.2 pAVRXAVCSens . . . 920
8.917 rxInfo Struct Reference . . . 920

8.917.1 Detailed Description . . . 921
8.917.2 Field Documentation . . . 921
8.917.2.1 ecio . . . 921
8.917.2.2 isRadioTuned . . . 921
8.917.2.3 phase . . . 921
8.917.2.4 rscp . . . 921
8.917.2.5 rsrp . . . 921
8.917.2.6 rxPower . . . 921
8.918 RXPCMIIRFltr Struct Reference . . . 922
8.918.1 Detailed Description . . . 922
8.918.2 Field Documentation . . . 923
8.918.2.1 pFlag . . . 923
8.918.2.2 pStage0Val . . . 923
8.918.2.3 pStage1Val . . . 923
8.918.2.4 pStage2Val . . . 923
8.918.2.5 pStage3Val . . . 923
8.918.2.6 pStage4Val . . . 923
8.918.2.7 pStageCnt . . . 923
8.919 RxSigInfo Struct Reference . . . 923
8.919.1 Detailed Description . . . 923
8.919.2 Field Documentation . . . 924
8.919.2.1 isRadioTuned . . . 924
8.919.2.2 rsrp . . . 924
8.919.2.3 rxChainIndex . . . 924
8.919.2.4 rxPower . . . 924
8.920 rxSignalStrengthListElement Struct Reference . . . 924
8.920.1 Detailed Description . . . 924
8.920.2 Field Documentation . . . 925
8.920.2.1 radioIf . . . 925
8.920.2.2 rxSignalStrength . . . 925
8.921 sApnExtraParams Struct Reference . . . 925
8.921.1 Detailed Description . . . 925
8.921.2 Field Documentation . . . 926
8.921.2.1 ambr_dl . . . 926
8.921.2.2 ambr_dl_ext . . . 926
8.921.2.3 ambr_dl_ext2 . . . 926
8.921.2.4 ambr_ul . . . 926
8.921.2.5 ambr_ul_ext . . . 926
8.921.2.6 ambr_ul_ext2 . . . 926
8.921.2.7 apnId . . . 926

8.922 satelliteInfo Struct Reference . . . 926
8.922.1 Detailed Description . . . 927
8.922.2 Field Documentation . . . 928
8.922.2.1 azimuth . . . 928
8.922.2.2 elevation . . . 928
8.922.2.3 gnssSvId . . . 928
8.922.2.4 healthStatus . . . 928
8.922.2.5 snr . . . 928
8.922.2.6 svInfoMask . . . 928
8.922.2.7 svListLen . . . 928
8.922.2.8 svStatus . . . 928
8.922.2.9 system . . . 928
8.922.2.10 validMask . . . 928
8.923 SccRxInfo Struct Reference . . . 929
8.923.1 Detailed Description . . . 929
8.923.2 Field Documentation . . . 929
8.923.2.1 numInstances . . . 929
8.923.2.2 rsrq . . . 929
8.923.2.3 sigInfo . . . 929
8.923.2.4 snr . . . 929
8.923.2.5 TlvPresent . . . 929
8.924 sensorData Struct Reference . . . 929
8.924.1 Detailed Description . . . 930
8.924.2 Field Documentation . . . 931
8.924.2.1 flags . . . 931
8.924.2.2 sensorDataLen . . . 931
8.924.2.3 timeOfFirstSample . . . 931
8.924.2.4 timeOffset . . . 931
8.924.2.5 xAxis . . . 931
8.924.2.6 yAxis . . . 931
8.924.2.7 zAxis . . . 931
8.925 sensorData_t Struct Reference . . . 931
8.925.1 Detailed Description . . . 931
8.925.2 Field Documentation . . . 932
8.925.2.1 flags . . . 932
8.925.2.2 sensorDataLen . . . 932
8.925.2.3 timeOfFirstSample . . . 932
8.925.2.4 timeOffset . . . 932
8.925.2.5 xAxis . . . 932
8.925.2.6 yAxis . . . 932

8.925.2.7 zAxis . . . 932
8.926 sensorDataUsage_s Struct Reference . . . 933
8.926.1 Detailed Description . . . 933
8.926.2 Field Documentation . . . 933
8.926.2.1 aidingIndicatorMask . . . 933
8.926.2.2 usageMask . . . 933
8.927 serialNumbersInfo Struct Reference . . . 933
8.927.1 Detailed Description . . . 934
8.927.2 Field Documentation . . . 934
8.927.2.1 esnSize . . . 934
8.927.2.2 imeiSize . . . 934
8.927.2.3 imeiSvnSize . . . 934
8.927.2.4 meidSize . . . 934
8.927.2.5 pESNString . . . 934
8.927.2.6 pIMEIString . . . 934
8.927.2.7 pImeiSvnString . . . 934
8.927.2.8 pMEIDString . . . 934
8.928 serviceProviderName Struct Reference . . . 935
8.928.1 Detailed Description . . . 935
8.928.2 Field Documentation . . . 935
8.928.2.1 displayCondition . . . 935
8.928.2.2 spn . . . 935
8.928.2.3 spnLength . . . 935
8.929 ServingSystemInfo Struct Reference . . . 935
8.929.1 Detailed Description . . . 935
8.929.2 Field Documentation . . . 936
8.929.2.1 csAttachState . . . 936
8.929.2.2 hdrPersonality . . . 936
8.929.2.3 psAttachState . . . 936
8.929.2.4 radioInterfaceList . . . 937
8.929.2.5 radioInterfaceNo . . . 937
8.929.2.6 registrationState . . . 937
8.929.2.7 selectedNetwork . . . 937
8.930 servSystem Struct Reference . . . 937
8.930.1 Detailed Description . . . 937
8.930.2 Field Documentation . . . 938
8.930.2.1 csAttachState . . . 938
8.930.2.2 numRadioInterfaces . . . 938
8.930.2.3 psAttachState . . . 938
8.930.2.4 radioInterface . . . 938

8.930.2.5 regState . . . 938
8.930.2.6 selNetwork . . . 938
8.931 sessionInfo Union Reference . . . 938
8.931.1 Detailed Description . . . 938
8.931.2 Field Documentation . . . 939
8.931.2.1 omaDmConfig . . . 939
8.931.2.2 omaDmFota . . . 939
8.931.2.3 omaDmNotifications . . . 939
8.932 sessionInfoExt Union Reference . . . 939
8.932.1 Detailed Description . . . 939
8.932.2 Field Documentation . . . 939
8.932.2.1 omaDmConfig . . . 939
8.932.2.2 omaDmFota . . . 939
8.933 sessionInfoTlv Struct Reference . . . 939
8.933.1 Detailed Description . . . 939
8.933.2 Field Documentation . . . 939
8.933.2.1 sessionInfo . . . 939
8.933.2.2 sessionType . . . 939
8.933.2.3 TlvPresent . . . 939
8.934 sessionInfoTlvExt Struct Reference . . . 940
8.934.1 Detailed Description . . . 940
8.934.2 Field Documentation . . . 940
8.934.2.1 sessionInfo . . . 940
8.934.2.2 sessionType . . . 940
8.934.2.3 TlvPresent . . . 940
8.935 SetAudioPathConfigReq Struct Reference . . . 940
8.935.1 Detailed Description . . . 940
8.935.2 Field Documentation . . . 941
8.935.2.1 pCodecSTGain . . . 941
8.935.2.2 pDTMFTXGain . . . 942
8.935.2.3 pECMode . . . 942
8.935.2.4 pNSEnable . . . 942
8.935.2.5 Profile . . . 942
8.935.2.6 pRXAGCList . . . 942
8.935.2.7 pRXAVCAGCSwitch . . . 942
8.935.2.8 pRXAVCList . . . 942
8.935.2.9 pRXPCMIIRFltr . . . 942
8.935.2.10 pTXAGCList . . . 942
8.935.2.11 pTXAVCSwitch . . . 942
8.935.2.12 pTXGain . . . 942

8.935.2.13 pTXPCMIIRFltr . . . 942
8.936 SetAudioProfileReq Struct Reference . . . 942
8.936.1 Detailed Description . . . 942
8.936.2 Field Documentation . . . 943
8.936.2.1 EarMute . . . 943
8.936.2.2 Generator . . . 943
8.936.2.3 MicMute . . . 943
8.936.2.4 Profile . . . 943
8.936.2.5 Volume . . . 943
8.937 SetAudioVolTLBConfigReq Struct Reference . . . 943
8.937.1 Detailed Description . . . 943
8.937.2 Field Documentation . . . 944
8.937.2.1 Generator . . . 944
8.937.2.2 Item . . . 944
8.937.2.3 Profile . . . 944
8.937.2.4 Volume . . . 944
8.937.2.5 VolValue . . . 944
8.938 SetAudioVolTLBConfigResp Struct Reference . . . 944
8.938.1 Detailed Description . . . 944
8.938.2 Field Documentation . . . 944
8.938.2.1 ResCode . . . 944
8.939 setCustomSettingV2 Struct Reference . . . 945
8.939.1 Detailed Description . . . 945
8.939.2 Field Documentation . . . 945
8.939.2.1 cust_id . . . 945
8.939.2.2 cust_value . . . 945
8.939.2.3 value_length . . . 945
8.940 setDyingGaspCfg Struct Reference . . . 945
8.940.1 Detailed Description . . . 945
8.940.2 Field Documentation . . . 946
8.940.2.1 pDestSMSContent . . . 946
8.940.2.2 pDestSMSNum . . . 946
8.941 SetIMSSMSConfigReq Struct Reference . . . 946
8.941.1 Detailed Description . . . 946
8.941.2 Field Documentation . . . 946
8.941.2.1 pPhoneCtxtURI . . . 946
8.941.2.2 pPhoneCtxtURILen . . . 946
8.941.2.3 pSMSFormat . . . 946
8.941.2.4 pSMSOverIPNwInd . . . 946
8.942 SetIMSSMSConfigResp Struct Reference . . . 946

8.942.1 Detailed Description . . . 947
8.942.2 Field Documentation . . . 947
8.942.2.1 pSettingResp . . . 947
8.943 SetIMSUserConfigReq Struct Reference . . . 947
8.943.1 Detailed Description . . . 947
8.943.2 Field Documentation . . . 947
8.943.2.1 pIMSDomain . . . 947
8.943.2.2 pIMSDomainLen . . . 947
8.944 SetIMSUserConfigResp Struct Reference . . . 947
8.944.1 Detailed Description . . . 948
8.944.2 Field Documentation . . . 948
8.944.2.1 pSettingResp . . . 948
8.945 SetIMSVoIPConfigReq Struct Reference . . . 948
8.945.1 Detailed Description . . . 948
8.945.2 Field Documentation . . . 950
8.945.2.1 pAmrMode . . . 950
8.945.2.2 pAmrOctetAligned . . . 950
8.945.2.3 pAmrWbEnable . . . 950
8.945.2.4 pAmrWBMode . . . 950
8.945.2.5 pAmrWBOctetAligned . . . 950
8.945.2.6 pMinSessionExpiryTimer . . . 950
8.945.2.7 pRingBackTimer . . . 950
8.945.2.8 pRingingTimer . . . 950
8.945.2.9 pRTPRTCPInactTimer . . . 950
8.945.2.10 pScrAmrEnable . . . 950
8.945.2.11 pScrAmrWbEnable . . . 950
8.945.2.12 pSessionExpiryTimer . . . 950
8.946 SetIMSVoIPConfigResp Struct Reference . . . 950
8.946.1 Detailed Description . . . 950
8.946.2 Field Documentation . . . 951
8.946.2.1 pSettingResp . . . 951
8.947 SetM2MAudioAVCFGReq Struct Reference . . . 951
8.947.1 Detailed Description . . . 951
8.947.2 Field Documentation . . . 951
8.947.2.1 Device . . . 951
8.947.2.2 PIFACEId . . . 951
8.947.2.3 pPCMParams . . . 951
8.947.2.4 Profile . . . 951
8.948 SetM2MAudioLPBKReq Struct Reference . . . 952
8.948.1 Detailed Description . . . 952

8.948.2 Field Documentation . . . 952
8.948.2.1 Enable . . . 952
8.949 SetM2MAudioProfileReq Struct Reference . . . 952
8.949.1 Detailed Description . . . 952
8.949.2 Field Documentation . . . 953
8.949.2.1 pCwtMute . . . 953
8.949.2.2 pEarMute . . . 953
8.949.2.3 pGenerator . . . 953
8.949.2.4 pMicMute . . . 953
8.949.2.5 Profile . . . 953
8.949.2.6 pVolume . . . 953
8.950 SetM2MAudioVolumeReq Struct Reference . . . 953
8.950.1 Detailed Description . . . 953
8.950.2 Field Documentation . . . 954
8.950.2.1 Generator . . . 954
8.950.2.2 Level . . . 954
8.950.2.3 Profile . . . 954
8.951 SetM2MAVMuteReq Struct Reference . . . 954
8.951.1 Detailed Description . . . 954
8.951.2 Field Documentation . . . 954
8.951.2.1 EarMute . . . 954
8.951.2.2 MicMute . . . 954
8.951.2.3 pCwtMute . . . 955
8.951.2.4 Profile . . . 955
8.952 SetM2MSpkrGainReq Struct Reference . . . 955
8.952.1 Detailed Description . . . 955
8.952.2 Field Documentation . . . 955
8.952.2.1 Profile . . . 955
8.952.2.2 Value . . . 955
8.953 setPINProtection Struct Reference . . . 955
8.953.1 Detailed Description . . . 955
8.953.2 Field Documentation . . . 956
8.953.2.1 pinID . . . 956
8.953.2.2 pinLength . . . 956
8.953.2.3 pinOperation . . . 956
8.953.2.4 pinValue . . . 956
8.954 SetRegMgrConfigReq Struct Reference . . . 956
8.954.1 Detailed Description . . . 956
8.954.2 Field Documentation . . . 957
8.954.2.1 pCSCFPortName . . . 957

8.954.2.2 pCSCFPortNameLen . . . 957
8.954.2.3 pIMSTestMode . . . 957
8.954.2.4 pPriCSCFPort . . . 957
8.955 SetRegMgrConfigResp Struct Reference . . . 957
8.955.1 Detailed Description . . . 957
8.955.2 Field Documentation . . . 957
8.955.2.1 pSettingResp . . . 957
8.956 setSignalStrengthInfo Struct Reference . . . 957
8.956.1 Detailed Description . . . 958
8.956.2 Field Documentation . . . 961
8.956.2.1 pCDMAECIODelta . . . 961
8.956.2.2 pCDMAECIOThresh . . . 961
8.956.2.3 pCDMARSSIDelta . . . 961
8.956.2.4 pCDMARSSIThresh . . . 961
8.956.2.5 pGSMRSSIDelta . . . 961
8.956.2.6 pGSMRSSIThresh . . . 961
8.956.2.7 pHDRECIODelta . . . 961
8.956.2.8 pHDRECIOThresh . . . 961
8.956.2.9 pHDRIODelta . . . 961
8.956.2.10 pHDRIOThresh . . . 961
8.956.2.11 pHDRRSSIDelta . . . 961
8.956.2.12 pHDRRSSIThresh . . . 961
8.956.2.13 pHDRSINRDelta . . . 961
8.956.2.14 pHDRSINRThresh . . . 961
8.956.2.15 pLTERSRPDelta . . . 961
8.956.2.16 pLTERSRPThresh . . . 961
8.956.2.17 pLTERSRQDelta . . . 961
8.956.2.18 pLTERSRQThresh . . . 962
8.956.2.19 pLTERSSIDelta . . . 962
8.956.2.20 pLTERSSIThresh . . . 962
8.956.2.21 pLTESigRptConfig . . . 962
8.956.2.22 pLTESNRDelta . . . 962
8.956.2.23 pLTESNRThresh . . . 962
8.956.2.24 pTDSCDMAECIODelta . . . 962
8.956.2.25 pTDSCDMAECIOThresh . . . 962
8.956.2.26 pTDSCDMARSCPDelta . . . 962
8.956.2.27 pTDSCDMARSCPThresh . . . 962
8.956.2.28 pTDSCDMARSSIDelta . . . 962
8.956.2.29 pTDSCDMARSSIThresh . . . 962
8.956.2.30 pTDSCDMASINRDelta . . . 962

8.956.2.31 pTDSCDMASINRThresh . . . 962
8.956.2.32 pWCDMAECIODelta . . . 962
8.956.2.33 pWCDMAECIOThresh . . . 962
8.956.2.34 pWCDMARSSIDelta . . . 962
8.956.2.35 pWCDMARSSIThresh . . . 962
8.957 SetSIPConfigReq Struct Reference . . . 962
8.957.1 Detailed Description . . . 962
8.957.2 Field Documentation . . . 963
8.957.2.1 pSigCompEnabled . . . 963
8.957.2.2 pSIPLocalPort . . . 963
8.957.2.3 pSubscribeTimer . . . 963
8.957.2.4 pTimerSIPReg . . . 963
8.957.2.5 pTimerT1 . . . 963
8.957.2.6 pTimerT2 . . . 963
8.957.2.7 pTimerTf . . . 963
8.958 SetSIPConfigResp Struct Reference . . . 963
8.958.1 Detailed Description . . . 963
8.958.2 Field Documentation . . . 964
8.958.2.1 pSettingResp . . . 964
8.959 sGetDeviceSeriesResult Struct Reference . . . 964
8.959.1 Detailed Description . . . 964
8.959.2 Field Documentation . . . 964
8.959.2.1 eDevice . . . 964
8.959.2.2 uResult . . . 964
8.960 sidNid Struct Reference . . . 964
8.960.1 Detailed Description . . . 964
8.960.2 Field Documentation . . . 965
8.960.2.1 nid . . . 965
8.960.2.2 sid . . . 965
8.961 sigInfo Struct Reference . . . 965
8.961.1 Detailed Description . . . 965
8.961.2 Field Documentation . . . 966
8.961.2.1 pECIOThresh . . . 966
8.961.2.2 pHDRSINRThresh . . . 966
8.961.2.3 pIOThresh . . . 966
8.961.2.4 pLTESigRptCfg . . . 966
8.961.2.5 pLTESNRThresh . . . 966
8.961.2.6 pRSRPThresh . . . 966
8.961.2.7 pRSRQThresh . . . 966
8.961.2.8 pRSSIThresh . . . 966

8.961.2.9 pTDSCDMASINRCONFThresh . . . 966
8.962 signalInfo Struct Reference . . . 966
8.962.1 Detailed Description . . . 966
8.962.2 Field Documentation . . . 967
8.962.2.1 alertPitch . . . 967
8.962.2.2 signal . . . 967
8.962.2.3 signalType . . . 967
8.963 SignalStrengthDataType Struct Reference . . . 967
8.963.1 Field Documentation . . . 967
8.963.1.1 thresholds . . . 967
8.963.1.2 thresholdsSize . . . 967
8.964 slot_t Struct Reference . . . 967
8.964.1 Detailed Description . . . 967
8.964.2 Field Documentation . . . 968
8.964.2.1 bICCID . . . 968
8.964.2.2 bICCIDLength . . . 968
8.964.2.3 bLogicalSlot . . . 968
8.964.2.4 uPhyCardStatus . . . 968
8.964.2.5 uPhySlotStatus . . . 968
8.965 slotInf Struct Reference . . . 968
8.965.1 Detailed Description . . . 968
8.965.2 Field Documentation . . . 969
8.965.2.1 AppStatus . . . 969
8.965.2.2 cardState . . . 969
8.965.2.3 errorState . . . 969
8.965.2.4 numApp . . . 969
8.965.2.5 upinRetries . . . 970
8.965.2.6 upinState . . . 970
8.965.2.7 upukRetries . . . 970
8.966 slotInfo Struct Reference . . . 970
8.966.1 Detailed Description . . . 970
8.966.2 Field Documentation . . . 971
8.966.2.1 AppStatus . . . 971
8.966.2.2 cardState . . . 971
8.966.2.3 errorState . . . 971
8.966.2.4 numApp . . . 971
8.966.2.5 upinRetries . . . 971
8.966.2.6 upinState . . . 971
8.966.2.7 upukRetries . . . 971
8.967 slots_t Struct Reference . . . 971

8.967.1 Detailed Description . . . 971
8.967.2 Field Documentation . . . 972
8.967.2.1 uimSlotStatus . . . 972
8.968 slqsautoconnect Struct Reference . . . 972
8.968.1 Detailed Description . . . 972
8.968.2 Field Documentation . . . 972
8.968.2.1 acroamsetting . . . 972
8.968.2.2 acsetting . . . 972
8.968.2.3 action . . . 972
8.969 SLQSDeleteProfileParams Struct Reference . . . 972
8.969.1 Detailed Description . . . 973
8.969.2 Field Documentation . . . 973
8.969.2.1 profileIndex . . . 973
8.969.2.2 profileType . . . 973
8.970 slqsfwinfo_s Struct Reference . . . 973
8.970.1 Detailed Description . . . 973
8.970.2 Field Documentation . . . 974
8.970.2.1 appversion_str . . . 974
8.970.2.2 bootversion_str . . . 974
8.970.2.3 carrier_str . . . 974
8.970.2.4 cur_carr_name . . . 974
8.970.2.5 cur_carr_rev . . . 974
8.970.2.6 modelid_str . . . 974
8.970.2.7 packageid_str . . . 974
8.970.2.8 priversion_str . . . 974
8.970.2.9 sku_str . . . 974
8.971 SlqsNas3GppNetworkInfo Struct Reference . . . 974
8.971.1 Detailed Description . . . 975
8.971.2 Field Documentation . . . 975
8.971.2.1 Description . . . 975
8.971.2.2 Forbidden . . . 975
8.971.2.3 InUse . . . 975
8.971.2.4 MCC . . . 975
8.971.2.5 MNC . . . 975
8.971.2.6 Preferred . . . 976
8.971.2.7 Roaming . . . 976
8.972 SlqsNasPcsDigit Struct Reference . . . 976
8.972.1 Detailed Description . . . 976
8.972.2 Field Documentation . . . 976
8.972.2.1 includes_pcs_digit . . . 976

8.972.2.2 MCC . . . 976
8.972.2.3 MNC . . . 976
8.973 slqssendasyncsmsparams_s Struct Reference . . . 976
8.973.1 Detailed Description . . . 977
8.973.2 Field Documentation . . . 978
8.973.2.1 messageFormat . . . 978
8.973.2.2 messageSize . . . 978
8.973.2.3 pFollowOnDC . . . 978
8.973.2.4 pForceOnDC . . . 978
8.973.2.5 pLinktimer . . . 978
8.973.2.6 pMessage . . . 978
8.973.2.7 pRetryMessage . . . 978
8.973.2.8 pRetryMessageId . . . 978
8.973.2.9 pServiceOption . . . 978
8.973.2.10 pSmsOnIms . . . 978
8.973.2.11 pUserData . . . 978
8.974 slqssendsmsparams_s Struct Reference . . . 978
8.974.1 Detailed Description . . . 979
8.974.2 Field Documentation . . . 979
8.974.2.1 messageFailureCode . . . 979
8.974.2.2 messageFormat . . . 979
8.974.2.3 messageID . . . 979
8.974.2.4 messageSize . . . 979
8.974.2.5 pLinktimer . . . 979
8.974.2.6 pMessage . . . 979
8.974.2.7 pSmsOnIms . . . 979
8.975 slqsSessionStateInfo Struct Reference . . . 980
8.975.1 Detailed Description . . . 980
8.975.2 Field Documentation . . . 980
8.975.2.1 pQmiInterfaceInfo . . . 980
8.975.2.2 reconfiguration_required . . . 980
8.975.2.3 sessionEndReason . . . 980
8.975.2.4 state . . . 980
8.976 slqsSignalStrengthInfo Struct Reference . . . 980
8.976.1 Detailed Description . . . 981
8.976.2 Field Documentation . . . 982
8.976.2.1 ecioList . . . 982
8.976.2.2 ecioListLen . . . 982
8.976.2.3 errorRateList . . . 982
8.976.2.4 errorRateListLen . . . 982

8.976.2.5 Io . . . 982
8.976.2.6 ltersrp . . . 982
8.976.2.7 ltesnr . . . 982
8.976.2.8 rsrqInfo . . . 982
8.976.2.9 rxSignalStrengthList . . . 982
8.976.2.10 rxSignalStrengthListLen . . . 982
8.976.2.11 signalStrengthReqMask . . . 983
8.976.2.12 sinr . . . 983
8.977 SLQSSignalStrengthsIndReq Struct Reference . . . 983
8.977.1 Detailed Description . . . 983
8.977.2 Field Documentation . . . 984
8.977.2.1 ecioDelta . . . 984
8.977.2.2 ecioThresholdList . . . 984
8.977.2.3 ecioThresholdListLen . . . 984
8.977.2.4 ioDelta . . . 984
8.977.2.5 lteRsrpDelta . . . 984
8.977.2.6 lteSnrDelta . . . 984
8.977.2.7 rsrqDelta . . . 984
8.977.2.8 rxSignalStrengthDelta . . . 984
8.977.2.9 sinrDelta . . . 984
8.977.2.10 sinrThresholdList . . . 984
8.977.2.11 sinrThresholdListLen . . . 984
8.978 SLQSSignalStrengthsInformation Struct Reference . . . 985
8.978.1 Detailed Description . . . 985
8.978.2 Field Documentation . . . 985
8.978.2.1 ecioInfo . . . 986
8.978.2.2 errorRateInfo . . . 986
8.978.2.3 io . . . 986
8.978.2.4 lteRsrpinfo . . . 986
8.978.2.5 lteSnrinfo . . . 986
8.978.2.6 rsrqInfo . . . 986
8.978.2.7 rxSignalStrengthInfo . . . 986
8.978.2.8 sinr . . . 986
8.979 slqsWdsEventInfo Struct Reference . . . 986
8.979.1 Detailed Description . . . 986
8.979.2 Field Documentation . . . 987
8.979.2.1 pDataBearer . . . 987
8.979.2.2 pDormancyStatus . . . 987
8.979.2.3 pPacketsCountRX . . . 987
8.979.2.4 pPacketsCountTX . . . 987

8.979.2.5 pQmiInterfaceInfo . . . 988
8.979.2.6 pTotalBytesRX . . . 988
8.979.2.7 pTotalBytesTX . . . 988
8.980 sms_BroadcastConfig Struct Reference . . . 988
8.980.1 Detailed Description . . . 988
8.980.2 Field Documentation . . . 988
8.980.2.1 fromServiceId . . . 988
8.980.2.2 selected . . . 988
8.980.2.3 toServiceId . . . 988
8.981 sms_CDMABroadcastConfig Struct Reference . . . 988
8.981.1 Detailed Description . . . 988
8.981.2 Field Documentation . . . 989
8.981.2.1 language . . . 989
8.981.2.2 selected . . . 989
8.981.2.3 serviceCategory . . . 989
8.982 sms_getIndicationReg Struct Reference . . . 989
8.982.1 Detailed Description . . . 989
8.982.2 Field Documentation . . . 990
8.982.2.1 pRegCallStatInfoEvt . . . 990
8.982.2.2 pRegTransLayerInfoEvt . . . 990
8.982.2.3 pRegTransNWRegInfoEvt . . . 990
8.983 sms_getMsgWaitingInfo Struct Reference . . . 990
8.983.1 Detailed Description . . . 990
8.983.2 Field Documentation . . . 990
8.983.2.1 msgWaitInfo . . . 990
8.983.2.2 numInstances . . . 990
8.984 sms_getTransLayerInfo Struct Reference . . . 990
8.984.1 Detailed Description . . . 991
8.984.2 Field Documentation . . . 991
8.984.2.1 pRegInd . . . 991
8.984.2.2 pTransLayerInfo . . . 991
8.985 sms_getTransNWRegInfo Struct Reference . . . 991
8.985.1 Detailed Description . . . 991
8.985.2 Field Documentation . . . 992
8.985.2.1 pRegStatus . . . 992
8.986 sms_maxStorageSizeReq Struct Reference . . . 992
8.986.1 Detailed Description . . . 992
8.986.2 Field Documentation . . . 992
8.986.2.1 pMessageMode . . . 992
8.986.2.2 storageType . . . 992

8.987 sms_maxStorageSizeResp Struct Reference . . . 992
8.987.1 Detailed Description . . . 992
8.987.2 Field Documentation . . . 993
8.987.2.1 freeSlots . . . 993
8.987.2.2 maxStorageSize . . . 993
8.988 sms_messageWaitingInfoContent Struct Reference . . . 993
8.988.1 Detailed Description . . . 993
8.988.2 Field Documentation . . . 993
8.988.2.1 activeInd . . . 993
8.988.2.2 msgCount . . . 993
8.988.2.3 msgType . . . 993
8.989 sms_msgProtocolResp Struct Reference . . . 994
8.989.1 Detailed Description . . . 994
8.989.2 Field Documentation . . . 994
8.989.2.1 msgProtocol . . . 994
8.990 sms_qaQmi3GPP2BroadcastCfgInfo Struct Reference . . . 994
8.990.1 Detailed Description . . . 994
8.990.2 Field Documentation . . . 995
8.990.2.1 activated_ind . . . 995
8.990.2.2 CDMABroadcastConfig . . . 995
8.990.2.3 num_instances . . . 995
8.991 sms_qaQmi3GPPBroadcastCfgInfo Struct Reference . . . 995
8.991.1 Detailed Description . . . 995
8.991.2 Field Documentation . . . 995
8.991.2.1 activated_ind . . . 995
8.991.2.2 broadcastConfig . . . 995
8.991.2.3 num_instances . . . 995
8.992 sms_routeEntry Struct Reference . . . 995
8.992.1 Detailed Description . . . 996
8.992.2 Field Documentation . . . 996
8.992.2.1 messageClass . . . 996
8.992.2.2 messageType . . . 996
8.992.2.3 receiptAction . . . 996
8.992.2.4 routeStorage . . . 996
8.993 sms_sendAsyncsmsParams Struct Reference . . . 996
8.993.1 Detailed Description . . . 997
8.993.2 Field Documentation . . . 998
8.993.2.1 messageFormat . . . 998
8.993.2.2 messageSize . . . 998
8.993.2.3 pFollowOnDC . . . 998

8.993.2.4 pForceOnDC . . . 998
8.993.2.5 pLinktimer . . . 998
8.993.2.6 pMessage . . . 998
8.993.2.7 pRetryMessage . . . 998
8.993.2.8 pRetryMessageId . . . 998
8.993.2.9 pServiceOption . . . 998
8.993.2.10 pSmsOnIms . . . 998
8.993.2.11 pUserData . . . 998
8.994 sms_setIndicationReg Struct Reference . . . 999
8.994.1 Detailed Description . . . 999
8.994.2 Field Documentation . . . 999
8.994.2.1 pRegCallStatInfoEvt . . . 999
8.994.2.2 pRegTransLayerInfoEvt . . . 999
8.994.2.3 pRegTransNWRegInfoEvt . . . 999
8.995 sms_setRoutesReq Struct Reference . . . 999
8.995.1 Detailed Description . . . 1000
8.995.2 Field Documentation . . . 1000
8.995.2.1 numOfRoutes . . . 1000
8.995.2.2 pTransferStatusReport . . . 1000
8.995.2.3 routeList . . . 1000
8.996 sms_transLayerInfo Struct Reference . . . 1000
8.996.1 Detailed Description . . . 1000
8.996.2 Field Documentation . . . 1000
8.996.2.1 TransCap . . . 1001
8.996.2.2 TransType . . . 1001
8.997 SMSAsyncRawSend_s Struct Reference . . . 1001
8.997.1 Detailed Description . . . 1001
8.997.2 Field Documentation . . . 1002
8.997.2.1 alphaIDLen . . . 1002
8.997.2.2 causeCode . . . 1002
8.997.2.3 errorClass . . . 1002
8.997.2.4 messageID . . . 1002
8.997.2.5 msgDelFailureCause . . . 1002
8.997.2.6 msgDelFailureType . . . 1002
8.997.2.7 pAlphaID . . . 1002
8.997.2.8 RPCause . . . 1002
8.997.2.9 sendStatus . . . 1002
8.997.2.10 TPCause . . . 1002
8.997.2.11 userData . . . 1002
8.998 SMSCAddress Struct Reference . . . 1002

8.998.1 Detailed Description . . . 1003
8.998.2 Field Documentation . . . 1003
8.998.2.1 data . . . 1003
8.998.2.2 length . . . 1003
8.999 sMSCAddressInfo Struct Reference . . . 1003
8.999.1 Detailed Description . . . 1003
8.999.2 Field Documentation . . . 1003
8.999.2.1 data . . . 1003
8.999.2.2 length . . . 1003
8.1000 sMSCAddressTlv Struct Reference . . . 1003
8.1000.1 Detailed Description . . . 1004
8.1000.2 Field Documentation . . . 1004
8.1000.2.1 sMSCInfo . . . 1004
8.1000.2.2 tlvPresent . . . 1004
8.1001 sMSEtwsMessage Struct Reference . . . 1004
8.1001.1 Detailed Description . . . 1004
8.1001.2 Field Documentation . . . 1004
8.1001.2.1 data . . . 1004
8.1001.2.2 length . . . 1004
8.1001.2.3 notificationType . . . 1004
8.1002 sMSEtwsMessageInfo Struct Reference . . . 1005
8.1002.1 Detailed Description . . . 1005
8.1002.2 Field Documentation . . . 1005
8.1002.2.1 data . . . 1005
8.1002.2.2 length . . . 1005
8.1002.2.3 notificationType . . . 1005
8.1003 sMSEtwsMessageTlv Struct Reference . . . 1005
8.1003.1 Detailed Description . . . 1005
8.1003.2 Field Documentation . . . 1006
8.1003.2.1 etwsMessageInfo . . . 1006
8.1003.2.2 tlvPresent . . . 1006
8.1004 sMSEtwsPlmn Struct Reference . . . 1006
8.1004.1 Detailed Description . . . 1006
8.1004.2 Field Documentation . . . 1006
8.1004.2.1 mobileCountryCode . . . 1006
8.1004.2.2 mobileNetworkCode . . . 1006
8.1005 sMSEtwsPlmnInfo Struct Reference . . . 1006
8.1005.1 Detailed Description . . . 1006
8.1005.2 Field Documentation . . . 1007
8.1005.2.1 mobileCountryCode . . . 1007

8.1005.2.2 mobileNetworkCode . . . 1007
8.1006 SMSEventInfo_s Struct Reference . . . 1007
8.1006.1 Detailed Description . . . 1007
8.1006.2 Field Documentation . . . 1008
8.1006.2.1 pEtwsMessageInfo . . . 1008
8.1006.2.2 pEtwsPlmnInfo . . . 1008
8.1006.2.3 pMessageModeInfo . . . 1008
8.1006.2.4 pMTMessageInfo . . . 1008
8.1006.2.5 pSMSCAddressInfo . . . 1008
8.1006.2.6 pSMSOnIMSInfo . . . 1008
8.1006.2.7 pTransferRouteMTMessageInfo . . . 1008
8.1006.2.8 smsEventType . . . 1008
8.1007 smsMaxStorageSizeReq Struct Reference . . . 1008
8.1007.1 Detailed Description . . . 1008
8.1007.2 Field Documentation . . . 1008
8.1007.2.1 pMessageMode . . . 1009
8.1007.2.2 storageType . . . 1009
8.1008 smsMaxStorageSizeResp Struct Reference . . . 1009
8.1008.1 Detailed Description . . . 1009
8.1008.2 Field Documentation . . . 1009
8.1008.2.1 freeSlots . . . 1009
8.1008.2.2 maxStorageSize . . . 1009
8.1009 SMSMemoryInfo Struct Reference . . . 1009
8.1009.1 Detailed Description . . . 1009
8.1009.2 Field Documentation . . . 1010
8.1009.2.1 messageMode . . . 1010
8.1009.2.2 storageType . . . 1010
8.1010 SMSMessageMode Struct Reference . . . 1010
8.1010.1 Detailed Description . . . 1010
8.1010.2 Field Documentation . . . 1010
8.1010.2.1 messageMode . . . 1010
8.1011 SMSMessageModeInfo Struct Reference . . . 1010
8.1011.1 Detailed Description . . . 1010
8.1011.2 Field Documentation . . . 1010
8.1011.2.1 messageMode . . . 1010
8.1012 smsMsgprotocolResp Struct Reference . . . 1010
8.1012.1 Detailed Description . . . 1011
8.1012.2 Field Documentation . . . 1011
8.1012.2.1 msgProtocol . . . 1011
8.1013 SMSMTMessage Struct Reference . . . 1011

8.1013.1 Detailed Description . . . 1011
8.1013.2 Field Documentation . . . 1011
8.1013.2.1 messageIndex . . . 1011
8.1013.2.2 storageType . . . 1011
8.1014 SMSMTMessageInfo Struct Reference . . . 1011
8.1014.1 Detailed Description . . . 1012
8.1014.2 Field Documentation . . . 1012
8.1014.2.1 messageIndex . . . 1012
8.1014.2.2 storageType . . . 1012
8.1015 SMSOnIMS Struct Reference . . . 1012
8.1015.1 Detailed Description . . . 1012
8.1015.2 Field Documentation . . . 1012
8.1015.2.1 smsOnIMS . . . 1012
8.1016 SMSOnIMSInfo Struct Reference . . . 1012
8.1016.1 Detailed Description . . . 1012
8.1016.2 Field Documentation . . . 1013
8.1016.2.1 smsOnIMS . . . 1013
8.1017 SMSOnIMSTlv Struct Reference . . . 1013
8.1017.1 Detailed Description . . . 1013
8.1017.2 Field Documentation . . . 1013
8.1017.2.1 IMSInfo . . . 1013
8.1017.2.2 TlvPresent . . . 1013
8.1018 smsRouteEntry Struct Reference . . . 1013
8.1018.1 Detailed Description . . . 1013
8.1018.2 Field Documentation . . . 1014
8.1018.2.1 messageClass . . . 1014
8.1018.2.2 messageType . . . 1014
8.1018.2.3 receiptAction . . . 1014
8.1018.2.4 routeStorage . . . 1014
8.1019 smsSetRoutesReq Struct Reference . . . 1014
8.1019.1 Detailed Description . . . 1014
8.1019.2 Field Documentation . . . 1015
8.1019.2.1 numOfRoutes . . . 1015
8.1019.2.2 pTransferStatusReport . . . 1015
8.1019.2.3 routeList . . . 1015
8.1020 SMSTransferRouteMTMessage Struct Reference . . . 1015
8.1020.1 Detailed Description . . . 1015
8.1020.2 Field Documentation . . . 1016
8.1020.2.1 ackIndicator . . . 1016
8.1020.2.2 data . . . 1016

8.1020.2.3 format . . . 1016
8.1020.2.4 length . . . 1016
8.1020.2.5 transactionID . . . 1016
8.1021 SMSTransferRouteMTMessageInfo Struct Reference . . . 1016
8.1021.1 Detailed Description . . . 1016
8.1021.2 Field Documentation . . . 1016
8.1021.2.1 ackIndicator . . . 1016
8.1021.2.2 data . . . 1016
8.1021.2.3 format . . . 1016
8.1021.2.4 length . . . 1017
8.1021.2.5 transactionID . . . 1017
8.1022 QosFlowStat Struct Reference . . . 1017
8.1022.1 Detailed Description . . . 1017
8.1022.2 Field Documentation . . . 1017
8.1022.2.1 bearerId . . . 1017
8.1022.2.2 tx_bytes . . . 1017
8.1022.2.3 tx_bytes_drp . . . 1017
8.1022.2.4 tx_pkt . . . 1017
8.1022.2.5 tx_pkt_drp . . . 1017
8.1023 QosStat Struct Reference . . . 1017
8.1023.1 Detailed Description . . . 1018
8.1023.2 Field Documentation . . . 1018
8.1023.2.1 apnId . . . 1018
8.1023.2.2 numQosFlow . . . 1018
8.1023.2.3 qosFlow . . . 1018
8.1023.2.4 total_rx_bytes . . . 1019
8.1023.2.5 total_rx_pkt . . . 1019
8.1023.2.6 total_tx_bytes . . . 1019
8.1023.2.7 total_tx_bytes_drp . . . 1019
8.1023.2.8 total_tx_pkt . . . 1019
8.1023.2.9 total_tx_pkt_drp . . . 1019
8.1024 SrvStatusInfo Struct Reference . . . 1019
8.1024.1 Detailed Description . . . 1019
8.1024.2 Field Documentation . . . 1019
8.1024.2.1 isPrefDataPath . . . 1019
8.1024.2.2 srvStatus . . . 1019
8.1025 ssdatasession_params Struct Reference . . . 1019
8.1025.1 Detailed Description . . . 1020
8.1025.2 Field Documentation . . . 1021
8.1025.2.1 action . . . 1021

8.1025.2.2 failureReason . . . 1022
8.1025.2.3 failureReasonv4 . . . 1022
8.1025.2.4 failureReasonv6 . . . 1022
8.1025.2.5 instanceId . . . 1022
8.1025.2.6 ipfamily . . . 1022
8.1025.2.7 pAuthentication . . . 1022
8.1025.2.8 pPassword . . . 1022
8.1025.2.9 pProfileId3GPP . . . 1022
8.1025.2.10 pProfileId3GPP2 . . . 1022
8.1025.2.11 pTechnology . . . 1022
8.1025.2.12 pUsername . . . 1022
8.1025.2.13 rcv4 . . . 1022
8.1025.2.14 rcv6 . . . 1022
8.1025.2.15 sessionId . . . 1022
8.1025.2.16 v4sessionId . . . 1022
8.1025.2.17 v6sessionId . . . 1022
8.1025.2.18 verbFailReason . . . 1022
8.1025.2.19 verbFailReasonType . . . 1022
8.1026 SupportedMsgList Struct Reference . . . 1022
8.1026.1 Detailed Description . . . 1022
8.1026.2 Field Documentation . . . 1023
8.1026.2.1 supportedMsgLen . . . 1023
8.1026.2.2 supportedMsgs . . . 1023
8.1027 SUPSInfo Struct Reference . . . 1023
8.1027.1 Detailed Description . . . 1023
8.1027.2 Field Documentation . . . 1023
8.1027.2.1 isModByCC . . . 1023
8.1027.2.2 svcType . . . 1023
8.1028 SV Struct Reference . . . 1023
8.1028.1 Detailed Description . . . 1024
8.1028.2 Field Documentation . . . 1024
8.1028.2.1 id . . . 1024
8.1028.2.2 mask . . . 1024
8.1028.2.3 system . . . 1024
8.1029 SVInfo Struct Reference . . . 1024
8.1029.1 Detailed Description . . . 1024
8.1029.2 Field Documentation . . . 1025
8.1029.2.1 len . . . 1025
8.1029.2.2 pSV . . . 1025
8.1030 SvUsedforFix_s Struct Reference . . . 1025

8.1030.1 Detailed Description . . . 1025
8.1030.2 Field Documentation . . . 1025
8.1030.2.1 gnssSvUsedList . . . 1025
8.1030.2.2 gnssSvUsedList_len . . . 1025
8.1031 SWI_STRUCT_CarrierImage Struct Reference . . . 1025
8.1031.1 Detailed Description . . . 1026
8.1031.2 Field Documentation . . . 1026
8.1031.2.1 m_FwBuildId . . . 1026
8.1031.2.2 m_FwImageId . . . 1026
8.1031.2.3 m_nCarrierId . . . 1026
8.1031.2.4 m_nFolderId . . . 1026
8.1031.2.5 m_nStorage . . . 1026
8.1031.2.6 m_PriBuildId . . . 1027
8.1031.2.7 m_PriImageId . . . 1027
8.1032 swidms_ehrpdMTUSizeTlv Struct Reference . . . 1027
8.1032.1 Detailed Description . . . 1027
8.1032.2 Field Documentation . . . 1027
8.1032.2.1 ehrpdMTUSize . . . 1027
8.1032.2.2 TlvPresent . . . 1027
8.1033 swidms_hrpdMTUSizeTlv Struct Reference . . . 1027
8.1033.1 Detailed Description . . . 1027
8.1033.2 Field Documentation . . . 1027
8.1033.2.1 hrpdMTUSize . . . 1028
8.1033.2.2 TlvPresent . . . 1028
8.1034 swidms_mtuSize3gppTlv Struct Reference . . . 1028
8.1034.1 Detailed Description . . . 1028
8.1034.2 Field Documentation . . . 1028
8.1034.2.1 MTUSize3gpp . . . 1028
8.1034.2.2 TlvPresent . . . 1028
8.1035 swidms_usbMTUSizeTlv Struct Reference . . . 1028
8.1035.1 Detailed Description . . . 1028
8.1035.2 Field Documentation . . . 1028
8.1035.2.1 TlvPresent . . . 1029
8.1035.2.2 UsbMTUSize . . . 1029
8.1036 SwiDmsGetMTUResp Struct Reference . . . 1029
8.1036.1 Detailed Description . . . 1029
8.1036.2 Field Documentation . . . 1029
8.1036.2.1 pEhrpdMTUSize . . . 1029
8.1036.2.2 pHrpdMTUSize . . . 1029
8.1036.2.3 pMTUSize3gpp . . . 1029

8.1036.2.4 pUsbMTUSize . . . 1029
8.1037 SwiDmsSLQSGetUsbNetNum Struct Reference . . . 1029
8.1037.1 Detailed Description . . . 1029
8.1037.2 Field Documentation . . . 1030
8.1037.2.1 usbNetNum . . . 1030
8.1038 SwiLocGetAutoStartResp Struct Reference . . . 1030
8.1038.1 Detailed Description . . . 1030
8.1038.2 Field Documentation . . . 1031
8.1038.2.1 fix_rate . . . 1031
8.1038.2.2 fix_rate_reported . . . 1031
8.1038.2.3 fix_type . . . 1031
8.1038.2.4 fix_type_reported . . . 1031
8.1038.2.5 function . . . 1031
8.1038.2.6 function_reported . . . 1031
8.1038.2.7 max_dist . . . 1031
8.1038.2.8 max_dist_reported . . . 1031
8.1038.2.9 max_time . . . 1031
8.1038.2.10 max_time_reported . . . 1031
8.1039 SwiLocSetAutoStartReq Struct Reference . . . 1031
8.1039.1 Detailed Description . . . 1032
8.1039.2 Field Documentation . . . 1033
8.1039.2.1 fix_rate . . . 1033
8.1039.2.2 fix_type . . . 1033
8.1039.2.3 function . . . 1033
8.1039.2.4 max_dist . . . 1033
8.1039.2.5 max_time . . . 1033
8.1039.2.6 set_fix_rate . . . 1033
8.1039.2.7 set_fix_type . . . 1033
8.1039.2.8 set_function . . . 1033
8.1039.2.9 set_max_dist . . . 1033
8.1039.2.10 set_max_time . . . 1033
8.1040 SwiModemStatusResp Struct Reference . . . 1033
8.1040.1 Detailed Description . . . 1033
8.1040.2 Field Documentation . . . 1034
8.1040.2.1 commonInfo . . . 1034
8.1040.2.2 pLTEInfo . . . 1034
8.1041 SwiOTAMsg_s Struct Reference . . . 1034
8.1041.1 Detailed Description . . . 1034
8.1041.2 Field Documentation . . . 1034
8.1041.2.1 data . . . 1034

8.1041.2.2 data_len . . . 1034
8.1041.2.3 pLteNasRelInfo . . . 1034
8.1041.2.4 pTime . . . 1035
8.1041.2.5 type . . . 1035
8.1042 swiPDPRuntimeSettingsReq Struct Reference . . . 1035
8.1042.1 Detailed Description . . . 1035
8.1042.2 Field Documentation . . . 1035
8.1042.2.1 contextId . . . 1035
8.1042.2.2 contextType . . . 1035
8.1043 swiPDPRuntimeSettingsResp Struct Reference . . . 1035
8.1043.1 Detailed Description . . . 1036
8.1043.2 Field Documentation . . . 1037
8.1043.2.1 pAPNName . . . 1037
8.1043.2.2 pBearerId . . . 1037
8.1043.2.3 pContextId . . . 1037
8.1043.2.4 pIPv4Address . . . 1037
8.1043.2.5 pIPv4GWAddress . . . 1037
8.1043.2.6 pIPv6Address . . . 1037
8.1043.2.7 pIPv6GWAddress . . . 1037
8.1043.2.8 pPrDNSIPv4Address . . . 1037
8.1043.2.9 pPrDNSIPv6Address . . . 1037
8.1043.2.10 pPrPCSCFIPv4Address . . . 1037
8.1043.2.11 pPrPCSCFIPv6Address . . . 1037
8.1043.2.12 pSeDNSIPv4Address . . . 1037
8.1043.2.13 pSeDNSIPv6Address . . . 1037
8.1043.2.14 pSePCSCFIPv4Address . . . 1037
8.1043.2.15 pSePCSCFIPv6Address . . . 1037
8.1044 swiQosFilter Struct Reference . . . 1037
8.1044.1 Detailed Description . . . 1038
8.1044.2 Field Documentation . . . 1039
8.1044.2.1 index . . . 1039
8.1044.2.2 pEspSpi . . . 1039
8.1044.2.3 pId . . . 1039
8.1044.2.4 pIPv4DstAddr . . . 1039
8.1044.2.5 pIPv4SrcAddr . . . 1039
8.1044.2.6 pIPv6DstAddr . . . 1039
8.1044.2.7 pIPv6Label . . . 1039
8.1044.2.8 pIPv6SrcAddr . . . 1039
8.1044.2.9 pIPv6TrafCls . . . 1039
8.1044.2.10 pNxtHdrProto . . . 1040

8.1044.2.1 pPrecedence . . . 1040
8.1044.2.1 p2TCPDstPort . . . 1040
8.1044.2.1 p3TCPSrcPort . . . 1040
8.1044.2.1 p4Tos . . . 1040
8.1044.2.1 p5TranDstPort . . . 1040
8.1044.2.1 p6TranSrcPort . . . 1040
8.1044.2.1 p7UDPDstPort . . . 1040
8.1044.2.1 p8UDPSrcPort . . . 1040
8.1044.2.1 p9ersion . . . 1040
8.1045 SwiQosFlow Struct Reference . . . 1040
8.1045.1 Detailed Description . . . 1040
8.1045.2 Field Documentation . . . 1042
8.1045.2.1 index . . . 1042
8.1045.2.2 p3GPP2Pri . . . 1042
8.1045.2.3 p3GPPImCn . . . 1043
8.1045.2.4 p3GPPResResidualBER . . . 1043
8.1045.2.5 p3GPPSigInd . . . 1043
8.1045.2.6 p3GPPTraHdlPri . . . 1043
8.1045.2.7 pDataRate . . . 1043
8.1045.2.8 pJitter . . . 1043
8.1045.2.9 pLatency . . . 1043
8.1045.2.1 p0LteQci . . . 1043
8.1045.2.1 p1MaxAllowedPktSz . . . 1043
8.1045.2.1 p2MinPolicedPktSz . . . 1043
8.1045.2.1 p3PktErrRate . . . 1043
8.1045.2.1 p4ProfileId3GPP2 . . . 1043
8.1045.2.1 p5TokenBucket . . . 1043
8.1045.2.1 p6TrafficClass . . . 1043
8.1046 SwiQosGranted Struct Reference . . . 1043
8.1046.1 Detailed Description . . . 1043
8.1046.2 Field Documentation . . . 1043
8.1046.2.1 pRxFlow . . . 1043
8.1046.2.2 pTxFlow . . . 1043
8.1047 SwiQosIds Struct Reference . . . 1043
8.1047.1 Detailed Description . . . 1044
8.1047.2 Field Documentation . . . 1044
8.1047.2.1 pIds . . . 1044
8.1047.2.2 sz . . . 1044
8.1048 SwiQosModifyReq Struct Reference . . . 1044
8.1048.1 Detailed Description . . . 1044

8.1048.2 Field Documentation . . . 1044
8.1048.2.1 id . . . 1044
8.1048.2.2 pRxFilter . . . 1044
8.1048.2.3 pRxFlow . . . 1044
8.1048.2.4 pTxFilter . . . 1045
8.1048.2.5 pTxFlow . . . 1045
8.1049 swiQosReq Struct Reference . . . 1045
8.1049.1 Detailed Description . . . 1045
8.1049.2 Field Documentation . . . 1045
8.1049.2.1 index . . . 1045
8.1049.2.2 pRxFilter . . . 1045
8.1049.2.3 pRxFlow . . . 1045
8.1049.2.4 pTxFilter . . . 1045
8.1049.2.5 pTxFlow . . . 1045
8.1050 swiRMTrasnferStaticsReq Struct Reference . . . 1045
8.1050.1 Detailed Description . . . 1046
8.1050.2 Field Documentation . . . 1046
8.1050.2.1 bResetStatistics . . . 1046
8.1050.2.2 ulMask . . . 1046
8.1051 sysInfoCommon Struct Reference . . . 1046
8.1051.1 Detailed Description . . . 1046
8.1051.2 Field Documentation . . . 1048
8.1051.2.1 isSysForbidden . . . 1048
8.1051.2.2 isSysForbiddenValid . . . 1048
8.1051.2.3 roamStatus . . . 1048
8.1051.2.4 roamStatusValid . . . 1048
8.1051.2.5 srvCapability . . . 1048
8.1051.2.6 srvCapabilityValid . . . 1048
8.1051.2.7 srvDomain . . . 1048
8.1051.2.8 srvDomainValid . . . 1048
8.1052 sysSelectPrefParamsExt Struct Reference . . . 1049
8.1052.1 Detailed Description . . . 1049
8.1052.2 Field Documentation . . . 1052
8.1052.2.1 pCiotAcqOrderPref . . . 1052
8.1052.2.2 pCiotLteOpMode . . . 1052
8.1052.2.3 pCiotLteOpModePref . . . 1052
8.1052.2.4 pLteM1BandPref . . . 1052
8.1052.2.5 pLteNb1BandPref . . . 1052
8.1052.2.6 pNr5gBandPref . . . 1052
8.1052.2.7 pSysSelectPrefParams . . . 1052

8.1053 _gpsTime Struct Reference . . . 1052
8.1053.1 Field Documentation . . . 1052
8.1053.1.1 gpsTimeOfWeekMs . . . 1052
8.1053.1.2 gpsWeek . . . 1052
8.1054 _sensor Struct Reference . . . 1052
8.1054.1 Field Documentation . . . 1053
8.1054.1.1 aidingIndicatorMask . . . 1053
8.1054.1.2 usageMask . . . 1053
8.1055 _Sv Struct Reference . . . 1053
8.1055.1 Field Documentation . . . 1053
8.1055.1.1 entries . . . 1053
8.1055.1.2 len . . . 1053
8.1056 TDSCDMAECIOThresh Struct Reference . . . 1053
8.1056.1 Detailed Description . . . 1053
8.1056.2 Field Documentation . . . 1053
8.1056.2.1 pTDSCDMAECIOThreshList . . . 1053
8.1056.2.2 TDSCDMAECIOThreshListLen . . . 1053
8.1057 TDSCDMARSCPThresh Struct Reference . . . 1054
8.1057.1 Detailed Description . . . 1054
8.1057.2 Field Documentation . . . 1054
8.1057.2.1 pTDSCDMARSCPThreshList . . . 1054
8.1057.2.2 TDSCDMARSCPThreshListLen . . . 1054
8.1058 TDSCDMARSSIThresh Struct Reference . . . 1054
8.1058.1 Detailed Description . . . 1054
8.1058.2 Field Documentation . . . 1054
8.1058.2.1 pTDSCDMARSSIThreshList . . . 1054
8.1058.2.2 TDSCDMARSSIThreshListLen . . . 1055
8.1059 tdscdmaSigInfoExt Struct Reference . . . 1055
8.1059.1 Detailed Description . . . 1055
8.1059.2 Field Documentation . . . 1055
8.1059.2.1 ecio . . . 1055
8.1059.2.2 rscp . . . 1055
8.1059.2.3 rssi . . . 1055
8.1059.2.4 sinr . . . 1055
8.1060 TDSCDMASigInfoExt Struct Reference . . . 1055
8.1060.1 Detailed Description . . . 1055
8.1060.2 Field Documentation . . . 1056
8.1060.2.1 ecio . . . 1056
8.1060.2.2 rscp . . . 1056
8.1060.2.3 rssi . . . 1056

8.1060.2.4 sinr . . . 1056
8.1061 TDSCDMASINRCONFThresh Struct Reference . . . 1056
8.1061.1 Detailed Description . . . 1056
8.1061.2 Field Documentation . . . 1056
8.1061.2.1 pTDSCDMASINRCONFThreshList . . . 1056
8.1061.2.2 TDSCDMASINRCONFThreshListLen . . . 1056
8.1062 TDSCDMASINRThresh Struct Reference . . . 1057
8.1062.1 Detailed Description . . . 1057
8.1062.2 Field Documentation . . . 1057
8.1062.2.1 pTDSCDMASINRThreshList . . . 1057
8.1062.2.2 TDSCDMASINRThreshListLen . . . 1057
8.1063 TempData_t Struct Reference . . . 1057
8.1063.1 Detailed Description . . . 1057
8.1063.2 Field Documentation . . . 1058
8.1063.2.1 temperature . . . 1058
8.1063.2.2 temperatureDataLen . . . 1058
8.1063.2.3 timeOfFirstSample . . . 1058
8.1063.2.4 timeOffset . . . 1058
8.1063.2.5 timeSource . . . 1058
8.1064 TempratureData Struct Reference . . . 1058
8.1064.1 Detailed Description . . . 1058
8.1064.2 Field Documentation . . . 1059
8.1064.2.1 temperature . . . 1059
8.1064.2.2 temperatureDataLen . . . 1059
8.1064.2.3 timeOfFirstSample . . . 1059
8.1064.2.4 timeOffset . . . 1059
8.1064.2.5 timeSource . . . 1059
8.1065 TFTIDParams Struct Reference . . . 1059
8.1065.1 Detailed Description . . . 1060
8.1065.2 Field Documentation . . . 1061
8.1065.2.1 destPortRangeEnd . . . 1061
8.1065.2.2 destPortRangeStart . . . 1061
8.1065.2.3 eValid . . . 1061
8.1065.2.4 filterId . . . 1061
8.1065.2.5 flowLabel . . . 1061
8.1065.2.6 IPSECSPI . . . 1061
8.1065.2.7 ipVersion . . . 1061
8.1065.2.8 nextHeader . . . 1061
8.1065.2.9 pSourceIP . . . 1061
8.1065.2.10 sourceIPMask . . . 1061

8.1065.2.1srcPortRangeEnd . . . 1061
8.1065.2.1srcPortRangeStart . . . 1061
8.1065.2.1tcsMask . . . 1061
8.1066TimeInfo Struct Reference . . . 1061
8.1066.1Detailed Description . . . 1061
8.1066.2Field Documentation . . . 1063
8.1066.2.1day . . . 1063
8.1066.2.2dayLtSavingAdj . . . 1063
8.1066.2.3dayOfWeek . . . 1063
8.1066.2.4hour . . . 1063
8.1066.2.5minute . . . 1063
8.1066.2.6month . . . 1063
8.1066.2.7radioInterface . . . 1063
8.1066.2.8second . . . 1063
8.1066.2.9timeZone . . . 1063
8.1066.2.10TlvPresent . . . 1063
8.1066.2.11year . . . 1063
8.1067TmdDeRegNotMitigationLvlReq Struct Reference . . . 1063
8.1067.1Detailed Description . . . 1063
8.1067.2Field Documentation . . . 1063
8.1067.2.1mitigationDevID . . . 1063
8.1067.2.2mitigationDevIDLen . . . 1063
8.1068TmdGetMitigationDevListResp Struct Reference . . . 1063
8.1068.1Detailed Description . . . 1064
8.1068.2Field Documentation . . . 1064
8.1068.2.1pMitigationDevList . . . 1064
8.1068.2.2pMitigationDevListLen . . . 1064
8.1069TmdGetMitigationLvlReq Struct Reference . . . 1064
8.1069.1Detailed Description . . . 1064
8.1069.2Field Documentation . . . 1064
8.1069.2.1mitigationDevID . . . 1064
8.1069.2.2mitigationDevIDLen . . . 1065
8.1070TmdGetMitigationLvlResp Struct Reference . . . 1065
8.1070.1Detailed Description . . . 1065
8.1070.2Field Documentation . . . 1065
8.1070.2.1pCurrentmitigationLvl . . . 1065
8.1070.2.2pReqMitigationLvl . . . 1065
8.1071TmdMitigationLvlIndReq Struct Reference . . . 1065
8.1071.1Detailed Description . . . 1065
8.1071.2Field Documentation . . . 1066

8.1071.2.1 mitigationDevID . . . 1066
8.1071.2.2 mitigationDevIDLen . . . 1066
8.1072 TmdRegNotMitigationLvlReq Struct Reference . . . 1066
8.1072.1 Detailed Description . . . 1066
8.1072.2 Field Documentation . . . 1066
8.1072.2.1 mitigationDevID . . . 1066
8.1072.2.2 mitigationDevIDLen . . . 1066
8.1073 TokenBucket Struct Reference . . . 1066
8.1073.1 Detailed Description . . . 1066
8.1073.2 Field Documentation . . . 1067
8.1073.2.1 bucketSz . . . 1067
8.1073.2.2 peakRate . . . 1067
8.1073.2.3 tokenRate . . . 1067
8.1074 Tos Struct Reference . . . 1067
8.1074.1 Detailed Description . . . 1067
8.1074.2 Field Documentation . . . 1067
8.1074.2.1 mask . . . 1067
8.1074.2.2 val . . . 1067
8.1075 TransferRouteMessageTlv Struct Reference . . . 1067
8.1075.1 Detailed Description . . . 1067
8.1075.2 Field Documentation . . . 1068
8.1075.2.1 TlvPresent . . . 1068
8.1075.2.2 TransferRouteMTMessageInfo . . . 1068
8.1076 TransferStatInd Struct Reference . . . 1068
8.1076.1 Detailed Description . . . 1068
8.1076.2 Field Documentation . . . 1068
8.1076.2.1 StatsMask . . . 1068
8.1076.2.2 StatsPeriod . . . 1068
8.1077 TransferStatsDataType Struct Reference . . . 1068
8.1077.1 Field Documentation . . . 1068
8.1077.1.1 interval . . . 1069
8.1078 TrStatInd Struct Reference . . . 1069
8.1078.1 Detailed Description . . . 1069
8.1078.2 Field Documentation . . . 1069
8.1078.2.1 statsMask . . . 1069
8.1078.2.2 statsPeriod . . . 1069
8.1079 TrueIMSI Struct Reference . . . 1069
8.1079.1 Detailed Description . . . 1070
8.1079.2 Field Documentation . . . 1070
8.1079.2.1 imsiT1112 . . . 1070

8.1079.2.2 msiTaddrNum . . . 1070
8.1079.2.3 msiTS1 . . . 1070
8.1079.2.4 msiTS2 . . . 1070
8.1079.2.5 mccT . . . 1070
8.1080 TXAGCList Struct Reference . . . 1070
8.1080.1 Detailed Description . . . 1070
8.1080.2 Field Documentation . . . 1071
8.1080.2.1 pTXAIG . . . 1071
8.1080.2.2 pTXComprSlope . . . 1071
8.1080.2.3 pTXComprThres . . . 1071
8.1080.2.4 pTXExpSlope . . . 1071
8.1080.2.5 pTXExpThres . . . 1071
8.1080.2.6 pTXStaticGain . . . 1071
8.1081 txInfo Struct Reference . . . 1071
8.1081.1 Detailed Description . . . 1071
8.1081.2 Field Documentation . . . 1072
8.1081.2.1 isInTraffic . . . 1072
8.1081.2.2 txPower . . . 1072
8.1082 TXPCMIIRFltr Struct Reference . . . 1072
8.1082.1 Detailed Description . . . 1072
8.1082.2 Field Documentation . . . 1073
8.1082.2.1 pFlag . . . 1073
8.1082.2.2 pStage0Val . . . 1073
8.1082.2.3 pStage1Val . . . 1073
8.1082.2.4 pStage2Val . . . 1073
8.1082.2.5 pStage3Val . . . 1073
8.1082.2.6 pStage4Val . . . 1073
8.1082.2.7 pStageCnt . . . 1073
8.1083 uim_appStatus Struct Reference . . . 1073
8.1083.1 Detailed Description . . . 1074
8.1083.2 Field Documentation . . . 1076
8.1083.2.1 aidLength . . . 1076
8.1083.2.2 aidVal . . . 1076
8.1083.2.3 appState . . . 1076
8.1083.2.4 appType . . . 1076
8.1083.2.5 persoFeature . . . 1076
8.1083.2.6 persoRetries . . . 1076
8.1083.2.7 persoState . . . 1076
8.1083.2.8 persoUnblockRetries . . . 1076
8.1083.2.9 pin1Retries . . . 1076

8.1083.2.10 pin1State . . . 1076
8.1083.2.11 pin2Retries . . . 1076
8.1083.2.12 pin2State . . . 1076
8.1083.2.13 puk1Retries . . . 1076
8.1083.2.14 puk2Retries . . . 1076
8.1083.2.15 univPin . . . 1076
8.1084 uim_authenticateResult Struct Reference . . . 1076
8.1084.1 Detailed Description . . . 1077
8.1084.2 Field Documentation . . . 1077
8.1084.2.1 content . . . 1077
8.1084.2.2 contentLen . . . 1077
8.1085 uim_authenticationData Struct Reference . . . 1077
8.1085.1 Detailed Description . . . 1077
8.1085.2 Field Documentation . . . 1078
8.1085.2.1 context . . . 1078
8.1085.2.2 data . . . 1078
8.1085.2.3 dataLen . . . 1078
8.1086 uim_cardResult Struct Reference . . . 1078
8.1086.1 Detailed Description . . . 1078
8.1086.2 Field Documentation . . . 1079
8.1086.2.1 sw1 . . . 1079
8.1086.2.2 sw2 . . . 1079
8.1087 uim_cardStatus Struct Reference . . . 1079
8.1087.1 Detailed Description . . . 1079
8.1087.2 Field Documentation . . . 1080
8.1087.2.1 index1xPri . . . 1080
8.1087.2.2 index1xSec . . . 1080
8.1087.2.3 indexGwPri . . . 1080
8.1087.2.4 indexGwSec . . . 1080
8.1087.2.5 numSlot . . . 1080
8.1087.2.6 SlotInfo . . . 1080
8.1088 uim_changeUIMPIN Struct Reference . . . 1080
8.1088.1 Detailed Description . . . 1080
8.1088.2 Field Documentation . . . 1081
8.1088.2.1 oldPINLen . . . 1081
8.1088.2.2 oldPINVal . . . 1081
8.1088.2.3 pinID . . . 1081
8.1088.2.4 pinLen . . . 1081
8.1088.2.5 pinVal . . . 1081
8.1089 uim_depersonalizationInformation Struct Reference . . . 1081

8.1089.1 Detailed Description . . . 1081
8.1089.2 Field Documentation . . . 1082
8.1089.2.1 ckLen . . . 1082
8.1089.2.2 ckVal . . . 1082
8.1089.2.3 feature . . . 1082
8.1089.2.4 operation . . . 1082
8.1090 uim_encryptedPIN1 Struct Reference . . . 1082
8.1090.1 Detailed Description . . . 1082
8.1090.2 Field Documentation . . . 1083
8.1090.2.1 pin1Len . . . 1083
8.1090.2.2 pin1Val . . . 1083
8.1091 uim_fileAttributes Struct Reference . . . 1083
8.1091.1 Detailed Description . . . 1083
8.1091.2 Field Documentation . . . 1086
8.1091.2.1 fileID . . . 1086
8.1091.2.2 fileSize . . . 1086
8.1091.2.3 fileType . . . 1086
8.1091.2.4 rawLen . . . 1086
8.1091.2.5 rawValue . . . 1086
8.1091.2.6 recordCount . . . 1086
8.1091.2.7 recordSize . . . 1086
8.1091.2.8 secActivate . . . 1086
8.1091.2.9 secActivateMask . . . 1086
8.1091.2.10 secDeactivate . . . 1086
8.1091.2.11 secDeactivateMask . . . 1086
8.1091.2.12 secIncrease . . . 1086
8.1091.2.13 secIncreaseMask . . . 1086
8.1091.2.14 secRead . . . 1086
8.1091.2.15 secReadMask . . . 1086
8.1091.2.16 secWrite . . . 1086
8.1091.2.17 secWriteMask . . . 1086
8.1092 uim_fileInfo Struct Reference . . . 1086
8.1092.1 Detailed Description . . . 1086
8.1092.2 Field Documentation . . . 1087
8.1092.2.1 fileID . . . 1087
8.1092.2.2 path . . . 1087
8.1092.2.3 pathLen . . . 1087
8.1093 uim_hotSwapStatus Struct Reference . . . 1087
8.1093.1 Detailed Description . . . 1087
8.1093.2 Field Documentation . . . 1087

8.1093.2.1 hotSwap . . . 1087
8.1093.2.2 hotSwapLength . . . 1087
8.1094 im_personalizationStatus Struct Reference . . . 1087
8.1094.1 Detailed Description . . . 1088
8.1094.2 Field Documentation . . . 1088
8.1094.2.1 feature . . . 1088
8.1094.2.2 numFeatures . . . 1088
8.1094.2.3 unblockLeft . . . 1088
8.1094.2.4 verifyLeft . . . 1088
8.1095 im_readResult Struct Reference . . . 1088
8.1095.1 Detailed Description . . . 1089
8.1095.2 Field Documentation . . . 1089
8.1095.2.1 content . . . 1089
8.1095.2.2 contentLen . . . 1089
8.1096 im_readTransparentInfo Struct Reference . . . 1089
8.1096.1 Detailed Description . . . 1089
8.1096.2 Field Documentation . . . 1089
8.1096.2.1 length . . . 1089
8.1096.2.2 offset . . . 1089
8.1097 im_refreshevent Struct Reference . . . 1089
8.1097.1 Detailed Description . . . 1090
8.1097.2 Field Documentation . . . 1091
8.1097.2.1 aid . . . 1091
8.1097.2.2 aidLength . . . 1091
8.1097.2.3 arrfileInfo . . . 1091
8.1097.2.4 mode . . . 1091
8.1097.2.5 numOfFiles . . . 1091
8.1097.2.6 sessionType . . . 1091
8.1097.2.7 stage . . . 1091
8.1098 im_registerRefresh Struct Reference . . . 1091
8.1098.1 Detailed Description . . . 1091
8.1098.2 Field Documentation . . . 1092
8.1098.2.1 arrfileInfo . . . 1092
8.1098.2.2 numFiles . . . 1092
8.1098.2.3 registerFlag . . . 1092
8.1098.2.4 voteForInit . . . 1092
8.1099 im_remainingRetries Struct Reference . . . 1092
8.1099.1 Detailed Description . . . 1092
8.1099.2 Field Documentation . . . 1092
8.1099.2.1 unblockLeft . . . 1092

8.1099.2.2 verifyLeft . . . 1093
8.1100 uim_sessionInformation Struct Reference . . . 1093
8.1100.1 Detailed Description . . . 1093
8.1100.2 Field Documentation . . . 1093
8.1100.2.1 aid . . . 1093
8.1100.2.2 aidLength . . . 1093
8.1100.2.3 sessionType . . . 1093
8.1101 uim_setPINProtection Struct Reference . . . 1093
8.1101.1 Detailed Description . . . 1094
8.1101.2 Field Documentation . . . 1094
8.1101.2.1 pinID . . . 1094
8.1101.2.2 pinLength . . . 1094
8.1101.2.3 pinOperation . . . 1094
8.1101.2.4 pinValue . . . 1094
8.1102 uim_slotInfo Struct Reference . . . 1094
8.1102.1 Detailed Description . . . 1095
8.1102.2 Field Documentation . . . 1096
8.1102.2.1 AppStatus . . . 1096
8.1102.2.2 cardState . . . 1096
8.1102.2.3 errorState . . . 1096
8.1102.2.4 numApp . . . 1096
8.1102.2.5 upinRetries . . . 1096
8.1102.2.6 upinState . . . 1096
8.1102.2.7 upukRetries . . . 1096
8.1103 uim_UIMSessionInformation Struct Reference . . . 1096
8.1103.1 Detailed Description . . . 1096
8.1103.2 Field Documentation . . . 1097
8.1103.2.1 aid . . . 1097
8.1103.2.2 aidLength . . . 1097
8.1103.2.3 sessionType . . . 1097
8.1104 uim_unblockUIMPIN Struct Reference . . . 1097
8.1104.1 Detailed Description . . . 1097
8.1104.2 Field Documentation . . . 1097
8.1104.2.1 newPINLen . . . 1097
8.1104.2.2 newPINVal . . . 1097
8.1104.2.3 pinID . . . 1097
8.1104.2.4 pukLen . . . 1098
8.1104.2.5 pukVal . . . 1098
8.1105 uim_verifyUIMPIN Struct Reference . . . 1098
8.1105.1 Detailed Description . . . 1098

8.1105.2 Field Documentation . . . 1098
8.1105.2.1 pinID . . . 1098
8.1105.2.2 pinLen . . . 1098
8.1105.2.3 pinVal . . . 1098
8.1106 UIMAuthenticateReq Struct Reference . . . 1098
8.1106.1 Detailed Description . . . 1098
8.1106.2 Field Documentation . . . 1099
8.1106.2.1 authData . . . 1099
8.1106.2.2 pIndicationToken . . . 1099
8.1106.2.3 sessionInfo . . . 1099
8.1107 UIMAuthenticateResp Struct Reference . . . 1099
8.1107.1 Detailed Description . . . 1099
8.1107.2 Field Documentation . . . 1100
8.1107.2.1 pAuthenticateResult . . . 1100
8.1107.2.2 pCardResult . . . 1100
8.1107.2.3 pIndicationToken . . . 1100
8.1108 UIMChangePinReq Struct Reference . . . 1100
8.1108.1 Detailed Description . . . 1100
8.1108.2 Field Documentation . . . 1100
8.1108.2.1 changePIN . . . 1100
8.1108.2.2 pIndicationToken . . . 1100
8.1108.2.3 pKeyReferenceID . . . 1100
8.1108.2.4 sessionInfo . . . 1100
8.1109 UIMDepersonalizationReq Struct Reference . . . 1101
8.1109.1 Detailed Description . . . 1101
8.1109.2 Field Documentation . . . 1101
8.1109.2.1 depersonilisationInfo . . . 1101
8.1110 UIMDepersonalizationResp Struct Reference . . . 1101
8.1110.1 Detailed Description . . . 1101
8.1110.2 Field Documentation . . . 1101
8.1110.2.1 pRemainingRetries . . . 1101
8.1111 UIMEventRegisterReqResp Struct Reference . . . 1101
8.1111.1 Detailed Description . . . 1102
8.1111.2 Field Documentation . . . 1102
8.1111.2.1 eventMask . . . 1102
8.1112 UIMGetCardStatusResp Struct Reference . . . 1102
8.1112.1 Detailed Description . . . 1102
8.1112.2 Field Documentation . . . 1102
8.1112.2.1 pCardStatus . . . 1102
8.1112.2.2 pHotSwapStatus . . . 1102

8.1113 UIMGetConfigurationReq Struct Reference . . . 1102
8.1113.1 Detailed Description . . . 1103
8.1113.2 Field Documentation . . . 1103
8.1113.2.1 pConfigurationMask . . . 1103
8.1114 UIMGetConfigurationResp Struct Reference . . . 1103
8.1114.1 Detailed Description . . . 1103
8.1114.2 Field Documentation . . . 1104
8.1114.2.1 pAutoSelection . . . 1104
8.1114.2.2 pHaltSubscription . . . 1104
8.1114.2.3 pPersonalizationStatus . . . 1104
8.1115 UIMGetFileAttributesReq Struct Reference . . . 1104
8.1115.1 Detailed Description . . . 1104
8.1115.2 Field Documentation . . . 1104
8.1115.2.1 fileIndex . . . 1104
8.1115.2.2 pIndicationToken . . . 1104
8.1115.2.3 sessionInfo . . . 1104
8.1116 UIMGetFileAttributesResp Struct Reference . . . 1104
8.1116.1 Detailed Description . . . 1105
8.1116.2 Field Documentation . . . 1105
8.1116.2.1 pCardResult . . . 1105
8.1116.2.2 pFileAttributes . . . 1105
8.1116.2.3 pIndicationToken . . . 1105
8.1117 UIMGetSlotsStatusResp Struct Reference . . . 1105
8.1117.1 Detailed Description . . . 1105
8.1117.2 Field Documentation . . . 1105
8.1117.2.1 pNumberOfPhySlot . . . 1105
8.1117.2.2 pUimSlotsStatus . . . 1106
8.1118 UIMPinResp Struct Reference . . . 1106
8.1118.1 Detailed Description . . . 1106
8.1118.2 Field Documentation . . . 1106
8.1118.2.1 pEncryptedPIN1 . . . 1106
8.1118.2.2 pIndicationToken . . . 1106
8.1118.2.3 pRemainingRetries . . . 1106
8.1119 UIMPowerDownReq Struct Reference . . . 1106
8.1119.1 Detailed Description . . . 1106
8.1119.2 Field Documentation . . . 1107
8.1119.2.1 slot . . . 1107
8.1120 UIMPowerUpReq Struct Reference . . . 1107
8.1120.1 Detailed Description . . . 1107
8.1120.2 Field Documentation . . . 1107

8.1120.2.1 pIgnoreHotSwapSwitch . . . 1107
8.1120.2.2 slot . . . 1107
8.1121 UIMReadTransparentReq Struct Reference . . . 1107
8.1121.1 Detailed Description . . . 1108
8.1121.2 Field Documentation . . . 1108
8.1121.2.1 fileIndex . . . 1108
8.1121.2.2 pEncryptData . . . 1108
8.1121.2.3 pIndicationToken . . . 1108
8.1121.2.4 readTransparent . . . 1108
8.1121.2.5 sessionInfo . . . 1108
8.1122 UIMReadTransparentResp Struct Reference . . . 1108
8.1122.1 Detailed Description . . . 1108
8.1122.2 Field Documentation . . . 1109
8.1122.2.1 pCardResult . . . 1109
8.1122.2.2 pEncryptedData . . . 1109
8.1122.2.3 pIndicationToken . . . 1109
8.1122.2.4 pReadResult . . . 1109
8.1123 UIMRefreshCompleteReq Struct Reference . . . 1109
8.1123.1 Detailed Description . . . 1109
8.1123.2 Field Documentation . . . 1110
8.1123.2.1 refreshComplete . . . 1110
8.1123.2.2 sessionInfo . . . 1110
8.1124 UIMRefreshEvent Struct Reference . . . 1110
8.1124.1 Detailed Description . . . 1110
8.1124.2 Field Documentation . . . 1111
8.1124.2.1 aid . . . 1111
8.1124.2.2 aidLength . . . 1111
8.1124.2.3 arrfileInfo . . . 1111
8.1124.2.4 mode . . . 1111
8.1124.2.5 numOfFiles . . . 1111
8.1124.2.6 sessionType . . . 1111
8.1124.2.7 stage . . . 1111
8.1125 UIMRefreshGetLastEventReq Struct Reference . . . 1111
8.1125.1 Detailed Description . . . 1112
8.1125.2 Field Documentation . . . 1112
8.1125.2.1 sessionInfo . . . 1112
8.1126 UIMRefreshGetLastEventResp Struct Reference . . . 1112
8.1126.1 Detailed Description . . . 1112
8.1126.2 Field Documentation . . . 1112
8.1126.2.1 pRefreshEvent . . . 1112

8.1127 UIMRefreshOKReq Struct Reference . . . 1112
8.1127.1 Detailed Description . . . 1112
8.1127.2 Field Documentation . . . 1113
8.1127.2.1 OKtoRefresh . . . 1113
8.1127.2.2 sessionInfo . . . 1113
8.1128 UIMRefreshRegisterReq Struct Reference . . . 1113
8.1128.1 Detailed Description . . . 1113
8.1128.2 Field Documentation . . . 1113
8.1128.2.1 regRefresh . . . 1113
8.1128.2.2 sessionInfo . . . 1113
8.1129 UIMSessionInformation Struct Reference . . . 1113
8.1129.1 Detailed Description . . . 1114
8.1129.2 Field Documentation . . . 1114
8.1129.2.1 aid . . . 1114
8.1129.2.2 aidLength . . . 1114
8.1129.2.3 sessionType . . . 1114
8.1130 UIMSetPinProtectionReq Struct Reference . . . 1114
8.1130.1 Detailed Description . . . 1114
8.1130.2 Field Documentation . . . 1115
8.1130.2.1 pIndicationToken . . . 1115
8.1130.2.2 pinProtection . . . 1115
8.1130.2.3 pKeyReferenceID . . . 1115
8.1130.2.4 sessionInfo . . . 1115
8.1131 UIMSlotsStatus Struct Reference . . . 1115
8.1131.1 Detailed Description . . . 1115
8.1131.2 Field Documentation . . . 1115
8.1131.2.1 uimSlotStatus . . . 1115
8.1132 UIMSlotStatus Struct Reference . . . 1115
8.1132.1 Detailed Description . . . 1116
8.1132.2 Field Documentation . . . 1116
8.1132.2.1 bICCID . . . 1116
8.1132.2.2 bICCIDLength . . . 1116
8.1132.2.3 bLogicalSlot . . . 1116
8.1132.2.4 uPhyCardStatus . . . 1116
8.1132.2.5 uPhySlotStatus . . . 1116
8.1133 UIMSlotStatusChangeInfo Struct Reference . . . 1117
8.1133.1 Detailed Description . . . 1117
8.1133.2 Field Documentation . . . 1117
8.1133.2.1 bNumberOfPhySlots . . . 1117
8.1133.2.2 slotsstatusChange . . . 1117

8.1134 UIMStatusChangeInfo Struct Reference . . . 1117
8.1134.1 Detailed Description . . . 1117
8.1134.2 Field Documentation . . . 1117
8.1134.2.1 statusChange . . . 1117
8.1135 UIMSwitchSlotReq Struct Reference . . . 1117
8.1135.1 Detailed Description . . . 1118
8.1135.2 Field Documentation . . . 1118
8.1135.2.1 bLogicalSlot . . . 1118
8.1135.2.2 ulPhysicalSlot . . . 1118
8.1136 UIMUnblockPinReq Struct Reference . . . 1118
8.1136.1 Detailed Description . . . 1118
8.1136.2 Field Documentation . . . 1119
8.1136.2.1 pIndicationToken . . . 1119
8.1136.2.2 pKeyReferenceID . . . 1119
8.1136.2.3 sessionInfo . . . 1119
8.1136.2.4 unblockPIN . . . 1119
8.1137 UIMVerifyPinReq Struct Reference . . . 1119
8.1137.1 Detailed Description . . . 1119
8.1137.2 Field Documentation . . . 1120
8.1137.2.1 pEncryptedPIN1 . . . 1120
8.1137.2.2 pIndicationToken . . . 1120
8.1137.2.3 pKeyReferenceID . . . 1120
8.1137.2.4 sessionInfo . . . 1120
8.1137.2.5 verifyPIN . . . 1120
8.1138 UMTSInfo Struct Reference . . . 1120
8.1138.1 Detailed Description . . . 1120
8.1138.2 Field Documentation . . . 1121
8.1138.2.1 cellID . . . 1121
8.1138.2.2 ecio . . . 1121
8.1138.2.3 geranInst . . . 1121
8.1138.2.4 GeranInstInfo . . . 1121
8.1138.2.5 lac . . . 1121
8.1138.2.6 plmn . . . 1122
8.1138.2.7 psc . . . 1122
8.1138.2.8 rscp . . . 1122
8.1138.2.9 uarfcn . . . 1122
8.1138.2.10 umtsInst . . . 1122
8.1138.2.11 UMTSInstInfo . . . 1122
8.1139 UMTSinstInfo Struct Reference . . . 1122
8.1139.1 Detailed Description . . . 1122

8.1139.2 Field Documentation . . . 1122
8.1139.2.1 umtsEcio . . . 1122
8.1139.2.2 umtsPsc . . . 1122
8.1139.2.3 umtsRscp . . . 1122
8.1139.2.4 umtsUarfcn . . . 1122
8.1140 UmtsLTENbrCell Struct Reference . . . 1122
8.1140.1 Detailed Description . . . 1123
8.1140.2 Field Documentation . . . 1123
8.1140.2.1 cellIsTDD . . . 1123
8.1140.2.2 earfcn . . . 1123
8.1140.2.3 pci . . . 1123
8.1140.2.4 rsrp . . . 1123
8.1140.2.5 rsrq . . . 1123
8.1140.2.6 srxlev . . . 1123
8.1141 UMTSMinQoS Struct Reference . . . 1123
8.1141.1 Detailed Description . . . 1124
8.1141.2 Field Documentation . . . 1125
8.1141.2.1 deliveryErrSDU . . . 1125
8.1141.2.2 grntDownlinkBitrate . . . 1126
8.1141.2.3 grntUplinkBitrate . . . 1126
8.1141.2.4 maxDownlinkBitrate . . . 1126
8.1141.2.5 maxSDUSize . . . 1126
8.1141.2.6 maxUplinkBitrate . . . 1126
8.1141.2.7 qosDeliveryOrder . . . 1126
8.1141.2.8 resBerRatio . . . 1126
8.1141.2.9 sduErrorRatio . . . 1126
8.1141.2.10 trafficClass . . . 1126
8.1141.2.11 trafficPriority . . . 1126
8.1141.2.12 transferDelay . . . 1126
8.1142 UMTSQoS Struct Reference . . . 1126
8.1142.1 Detailed Description . . . 1126
8.1142.2 Field Documentation . . . 1128
8.1142.2.1 deliveryErrSDU . . . 1128
8.1142.2.2 grntDownlinkBitrate . . . 1128
8.1142.2.3 grntUplinkBitrate . . . 1128
8.1142.2.4 maxDownlinkBitrate . . . 1128
8.1142.2.5 maxSDUSize . . . 1128
8.1142.2.6 maxUplinkBitrate . . . 1128
8.1142.2.7 qosDeliveryOrder . . . 1128
8.1142.2.8 resBerRatio . . . 1128

8.1142.2.9 sduErrorRatio . . . 1128
8.1142.2.10 trafficClass . . . 1128
8.1142.2.11 trafficPriority . . . 1128
8.1142.2.12 transferDelay . . . 1128
8.1143 UMTSReqQoSSigInd Struct Reference . . . 1128
8.1143.1 Detailed Description . . . 1129
8.1143.2 Field Documentation . . . 1129
8.1143.2.1 SigInd . . . 1129
8.1143.2.2 UMTSReqQoS . . . 1129
8.1144 unblockUIMPIN Struct Reference . . . 1129
8.1144.1 Detailed Description . . . 1129
8.1144.2 Field Documentation . . . 1130
8.1144.2.1 newPINLen . . . 1130
8.1144.2.2 newPINVal . . . 1130
8.1144.2.3 pinID . . . 1130
8.1144.2.4 pukLen . . . 1130
8.1144.2.5 pukVal . . . 1130
8.1145 UniversalTime Struct Reference . . . 1130
8.1145.1 Detailed Description . . . 1130
8.1145.2 Field Documentation . . . 1131
8.1145.2.1 day . . . 1131
8.1145.2.2 dayOfWeek . . . 1131
8.1145.2.3 hour . . . 1131
8.1145.2.4 minute . . . 1131
8.1145.2.5 month . . . 1131
8.1145.2.6 second . . . 1131
8.1145.2.7 year . . . 1131
8.1146 unpack_dms_GetActivationState_t Struct Reference . . . 1131
8.1146.1 Detailed Description . . . 1131
8.1146.2 Field Documentation . . . 1132
8.1146.2.1 state . . . 1132
8.1147 unpack_dms_GetBandCapability_t Struct Reference . . . 1132
8.1147.1 Detailed Description . . . 1132
8.1147.2 Field Documentation . . . 1134
8.1147.2.1 BandCapability . . . 1134
8.1147.2.2 Tlvresult . . . 1134
8.1148 unpack_dms_GetCrashAction_t Struct Reference . . . 1134
8.1148.1 Detailed Description . . . 1134
8.1148.2 Field Documentation . . . 1134
8.1148.2.1 DevCrashState . . . 1134

8.1148.2.2 Tlvresult . . . 1134
8.1149 unpack_dms_GetCustFeature_t Struct Reference . . . 1134
8.1149.1 Detailed Description . . . 1135
8.1149.2 Field Documentation . . . 1136
8.1149.2.1 DHCPRelayEnabled . . . 1136
8.1149.2.2 DisableIMSI . . . 1137
8.1149.2.3 GpsEnable . . . 1137
8.1149.2.4 GPSLPM . . . 1137
8.1149.2.5 GPSSel . . . 1137
8.1149.2.6 IPFamSupport . . . 1137
8.1149.2.7 IsVoiceEnabled . . . 1137
8.1149.2.8 RMAutoConnect . . . 1137
8.1149.2.9 SMSSupport . . . 1137
8.1149.2.10 Tlvresult . . . 1137
8.1150 unpack_dms_GetCustFeaturesV2_t Struct Reference . . . 1137
8.1150.1 Detailed Description . . . 1137
8.1150.2 Field Documentation . . . 1137
8.1150.2.1 GetCustomFeatureV2 . . . 1137
8.1150.2.2 Tlvresult . . . 1137
8.1151 unpack_dms_GetDeviceCap_t Struct Reference . . . 1137
8.1151.1 Detailed Description . . . 1138
8.1151.2 Field Documentation . . . 1138
8.1151.2.1 DataServiceCapability . . . 1138
8.1151.2.2 MaxRXChannelRate . . . 1138
8.1151.2.3 MaxTXChannelRate . . . 1138
8.1151.2.4 RadioIfaces . . . 1138
8.1151.2.5 RadioIfacesSize . . . 1139
8.1151.2.6 SimCapability . . . 1139
8.1151.2.7 Tlvresult . . . 1139
8.1152 unpack_dms_GetDeviceCapabilities_t Struct Reference . . . 1139
8.1152.1 Detailed Description . . . 1139
8.1152.2 Field Documentation . . . 1140
8.1152.2.1 dataServiceCaCapability . . . 1140
8.1152.2.2 maxRxChannelRate . . . 1140
8.1152.2.3 maxTxChannelRate . . . 1140
8.1152.2.4 RadioIfaces . . . 1140
8.1152.2.5 radioIfacesSize . . . 1140
8.1152.2.6 simCapability . . . 1140
8.1153 unpack_dms_GetDeviceHardwareRev_t Struct Reference . . . 1140
8.1153.1 Detailed Description . . . 1140

8.1153.2 Field Documentation . . . 1140
8.1153.2.1 String . . . 1140
8.1153.2.2 stringSize . . . 1140
8.1153.2.3 Tlvresult . . . 1140
8.1154 unpack_dms_GetDeviceMfr_t Struct Reference . . . 1140
8.1154.1 Detailed Description . . . 1141
8.1154.2 Field Documentation . . . 1141
8.1154.2.1 String . . . 1141
8.1154.2.2 stringSize . . . 1141
8.1154.2.3 Tlvresult . . . 1141
8.1155 unpack_dms_GetDeviceSerialNumbers_t Struct Reference . . . 1141
8.1155.1 Detailed Description . . . 1141
8.1155.2 Field Documentation . . . 1142
8.1155.2.1 esnSize . . . 1142
8.1155.2.2 ESNString . . . 1142
8.1155.2.3 meiSize . . . 1142
8.1155.2.4 IMEIString . . . 1142
8.1155.2.5 meiSvnSize . . . 1142
8.1155.2.6 meiSvnString . . . 1142
8.1155.2.7 meidSize . . . 1142
8.1155.2.8 MEIDString . . . 1143
8.1155.2.9 Tlvresult . . . 1143
8.1156 unpack_dms_GetFirmwareInfo_t Struct Reference . . . 1143
8.1156.1 Detailed Description . . . 1143
8.1156.2 Field Documentation . . . 1144
8.1156.2.1 appversion_str . . . 1144
8.1156.2.2 bootversion_str . . . 1144
8.1156.2.3 carrier_str . . . 1144
8.1156.2.4 cur_carr_name . . . 1144
8.1156.2.5 cur_carr_rev . . . 1144
8.1156.2.6 modelid_str . . . 1144
8.1156.2.7 packageid_str . . . 1144
8.1156.2.8 priversion_str . . . 1144
8.1156.2.9 sku_str . . . 1144
8.1156.2.10 Tlvresult . . . 1144
8.1157 unpack_dms_GetFirmwareRevision_t Struct Reference . . . 1144
8.1157.1 Detailed Description . . . 1144
8.1157.2 Field Documentation . . . 1145
8.1157.2.1 amssSize . . . 1145
8.1157.2.2 AMSSString . . . 1145

8.1157.2.3 PRIString . . . 1145
8.1157.2.4 Tlvresult . . . 1145
8.1158 unpack_dms_GetFirmwareRevisions_t Struct Reference . . . 1145
8.1158.1 Detailed Description . . . 1145
8.1158.2 Field Documentation . . . 1146
8.1158.2.1 amssSize . . . 1146
8.1158.2.2 AMSSString . . . 1146
8.1158.2.3 bootSize . . . 1146
8.1158.2.4 BootString . . . 1146
8.1158.2.5 priSize . . . 1146
8.1158.2.6 PRIString . . . 1146
8.1158.2.7 Tlvresult . . . 1146
8.1159 unpack_dms_GetFSN_t Struct Reference . . . 1146
8.1159.1 Detailed Description . . . 1146
8.1159.2 Field Documentation . . . 1147
8.1159.2.1 String . . . 1147
8.1159.2.2 Tlvresult . . . 1147
8.1160 unpack_dms_GetHardwareRevision_t Struct Reference . . . 1147
8.1160.1 Detailed Description . . . 1147
8.1160.2 Field Documentation . . . 1147
8.1160.2.1 hwVer . . . 1147
8.1161 unpack_dms_GetIMSI_t Struct Reference . . . 1147
8.1161.1 Detailed Description . . . 1147
8.1161.2 Field Documentation . . . 1148
8.1161.2.1 imsi . . . 1148
8.1161.2.2 Tlvresult . . . 1148
8.1162 unpack_dms_GetManufacturer_t Struct Reference . . . 1148
8.1162.1 Detailed Description . . . 1148
8.1162.2 Field Documentation . . . 1148
8.1162.2.1 manufacturer . . . 1148
8.1162.2.2 Tlvresult . . . 1148
8.1163 unpack_dms_GetModelID_t Struct Reference . . . 1148
8.1163.1 Detailed Description . . . 1148
8.1163.2 Field Documentation . . . 1149
8.1163.2.1 modelid . . . 1149
8.1163.2.2 Tlvresult . . . 1149
8.1164 unpack_dms_GetNetworkTime_t Struct Reference . . . 1149
8.1164.1 Detailed Description . . . 1149
8.1164.2 Field Documentation . . . 1149
8.1164.2.1 source . . . 1149

8.1164.2.2 timestamp . . . 1149
8.1164.2.3 Tlvresult . . . 1149
8.1165 unpack_dms_GetOfflineReason_t Struct Reference . . . 1150
8.1165.1 Detailed Description . . . 1150
8.1165.2 Field Documentation . . . 1150
8.1165.2.1 pbPlatform . . . 1150
8.1165.2.2 pReasonMask . . . 1150
8.1165.2.3 Tlvresult . . . 1150
8.1166 unpack_dms_GetPower_t Struct Reference . . . 1150
8.1166.1 Detailed Description . . . 1151
8.1166.2 Field Documentation . . . 1151
8.1166.2.1 HardwareControlledMode . . . 1151
8.1166.2.2 OfflineReason . . . 1151
8.1166.2.3 OperationMode . . . 1151
8.1166.2.4 Tlvresult . . . 1152
8.1167 unpack_dms_GetPRLVersion_t Struct Reference . . . 1152
8.1167.1 Detailed Description . . . 1152
8.1167.2 Field Documentation . . . 1152
8.1167.2.1 Tlvresult . . . 1152
8.1167.2.2 u16PRLVersion . . . 1152
8.1167.2.3 u8PRLPreference . . . 1152
8.1168 unpack_dms_GetSerialNumbers_t Struct Reference . . . 1152
8.1168.1 Detailed Description . . . 1152
8.1168.2 Field Documentation . . . 1153
8.1168.2.1 esn . . . 1153
8.1168.2.2 mei_no . . . 1153
8.1168.2.3 meisv_svn . . . 1153
8.1168.2.4 meid . . . 1153
8.1169 unpack_dms_GetUSBComp_t Struct Reference . . . 1153
8.1169.1 Detailed Description . . . 1153
8.1169.2 Field Documentation . . . 1155
8.1169.2.1 NumSupUSBComps . . . 1155
8.1169.2.2 SupUSBComps . . . 1155
8.1169.2.3 Tlvresult . . . 1155
8.1169.2.4 USBComp . . . 1155
8.1170 unpack_dms_GetVoiceNumber_t Struct Reference . . . 1155
8.1170.1 Detailed Description . . . 1156
8.1170.2 Field Documentation . . . 1156
8.1170.2.1 MIN . . . 1156
8.1170.2.2 minSize . . . 1156

8.1170.2.3 Tlvresult . . . 1156
8.1170.2.4 VoiceNumber . . . 1156
8.1170.2.5 voiceNumberSize . . . 1156
8.1171 unpack_dms_PSMCfgChange_ind_t Struct Reference . . . 1156
8.1171.1 Detailed Description . . . 1156
8.1171.2 Field Documentation . . . 1157
8.1171.2.1 ActiveTimer . . . 1157
8.1171.2.2 EnableState . . . 1157
8.1171.2.3 PeriodicUpdateTimer . . . 1157
8.1171.2.4 Tlvresult . . . 1157
8.1172 unpack_dms_ResetToFactoryDefaults_t Struct Reference . . . 1157
8.1172.1 Detailed Description . . . 1157
8.1172.2 Field Documentation . . . 1157
8.1172.2.1 Tlvresult . . . 1157
8.1173 unpack_dms_SetActivationStatusCallback_t Struct Reference . . . 1157
8.1173.1 Detailed Description . . . 1158
8.1173.2 Field Documentation . . . 1158
8.1173.2.1 Tlvresult . . . 1158
8.1174 unpack_dms_SetCrashAction_t Struct Reference . . . 1158
8.1174.1 Detailed Description . . . 1158
8.1174.2 Field Documentation . . . 1158
8.1174.2.1 notused . . . 1158
8.1175 unpack_dms_SetCustFeature_t Struct Reference . . . 1158
8.1175.1 Detailed Description . . . 1158
8.1175.2 Field Documentation . . . 1158
8.1175.2.1 Tlvresult . . . 1159
8.1176 unpack_dms_SetCustFeaturesV2_t Struct Reference . . . 1159
8.1176.1 Detailed Description . . . 1159
8.1176.2 Field Documentation . . . 1159
8.1176.2.1 Tlvresult . . . 1159
8.1177 unpack_dms_SetEventReport_ind_t Struct Reference . . . 1159
8.1177.1 Detailed Description . . . 1159
8.1177.2 Field Documentation . . . 1159
8.1177.2.1 ActivationStatusTlv . . . 1159
8.1177.2.2 OperatingModeTlv . . . 1159
8.1177.2.3 Tlvresult . . . 1160
8.1178 unpack_dms_SetEventReport_t Struct Reference . . . 1160
8.1178.1 Detailed Description . . . 1160
8.1178.2 Field Documentation . . . 1160
8.1178.2.1 Tlvresult . . . 1160

8.1179 unpack_dms_SetFirmwarePreference_t Struct Reference . . . 1160
8.1179.1 Detailed Description . . . 1160
8.1179.2 Field Documentation . . . 1160
8.1179.2.1 Tlvresult . . . 1160
8.1180 unpack_dms_SetIndicationRegister_t Struct Reference . . . 1160
8.1180.1 Detailed Description . . . 1160
8.1180.2 Field Documentation . . . 1161
8.1180.2.1 Tlvresult . . . 1161
8.1181 unpack_dms_SetPower_t Struct Reference . . . 1161
8.1181.1 Detailed Description . . . 1161
8.1181.2 Field Documentation . . . 1161
8.1181.2.1 Tlvresult . . . 1161
8.1182 unpack_dms_SetUSBComp_t Struct Reference . . . 1161
8.1182.1 Detailed Description . . . 1161
8.1182.2 Field Documentation . . . 1161
8.1182.2.1 Tlvresult . . . 1161
8.1183 unpack_dms_SLQSDmsSwiGetPCInfo_t Struct Reference . . . 1161
8.1183.1 Detailed Description . . . 1162
8.1183.2 Field Documentation . . . 1163
8.1183.2.1 has_LpmFlag . . . 1163
8.1183.2.2 has_PersistentLpm . . . 1163
8.1183.2.3 has_PowerOffMode . . . 1163
8.1183.2.4 has_Wdisable . . . 1163
8.1183.2.5 LpmFlag . . . 1163
8.1183.2.6 opMode . . . 1163
8.1183.2.7 PersistentLpm . . . 1163
8.1183.2.8 PowerOffMode . . . 1163
8.1183.2.9 Wdisable . . . 1163
8.1184 unpack_dms_SLQSDmsSwiGetResetInfo_Ind_t Struct Reference . . . 1163
8.1184.1 Detailed Description . . . 1164
8.1184.2 Field Documentation . . . 1164
8.1184.2.1 source . . . 1164
8.1184.2.2 Tlvresult . . . 1164
8.1184.2.3 type . . . 1164
8.1185 unpack_dms_SLQSDmsSwiGetResetInfo_t Struct Reference . . . 1164
8.1185.1 Detailed Description . . . 1165
8.1185.2 Field Documentation . . . 1165
8.1185.2.1 source . . . 1165
8.1185.2.2 Tlvresult . . . 1165
8.1185.2.3 type . . . 1165

8.1186 unpack_dms_SLQSDmsSwiIndicationRegister_t Struct Reference . . . 1165
8.1186.1 Detailed Description . . . 1165
8.1186.2 Field Documentation . . . 1166
8.1186.2.1 Tlvresult . . . 1166
8.1187 unpack_dms_SLQSGetBandCapability_t Struct Reference . . . 1166
8.1187.1 Detailed Description . . . 1166
8.1187.2 Field Documentation . . . 1169
8.1187.2.1 bandCapability . . . 1169
8.1187.2.2 is_LteBandCapability_Available . . . 1169
8.1187.2.3 is_TdsBandCapability_Available . . . 1169
8.1187.2.4 LteBandCapability . . . 1169
8.1187.2.5 TdsBandCapability . . . 1169
8.1188 unpack_dms_SLQSGetERIFile_t Struct Reference . . . 1169
8.1188.1 Detailed Description . . . 1169
8.1188.2 Field Documentation . . . 1169
8.1188.2.1 eriFile . . . 1169
8.1188.2.2 Tlvresult . . . 1170
8.1189 unpack_dms_SLQSGetPowerSaveModeConfig_t Struct Reference . . . 1170
8.1189.1 Detailed Description . . . 1170
8.1189.2 Field Documentation . . . 1170
8.1189.2.1 pActiveTimer . . . 1170
8.1189.2.2 pDurationDueToOOS . . . 1170
8.1189.2.3 pDurationThreshold . . . 1170
8.1189.2.4 pEarlyWakeupTime . . . 1170
8.1189.2.5 pPeriodicUpdateTimer . . . 1170
8.1189.2.6 pPsmEnableState . . . 1171
8.1189.2.7 pRandomizationWindow . . . 1171
8.1190 unpack_dms_SLQSSetPowerSaveModeConfig_t Struct Reference . . . 1171
8.1190.1 Detailed Description . . . 1171
8.1190.2 Field Documentation . . . 1171
8.1190.2.1 Tlvresult . . . 1171
8.1191 unpack_dms_SLQSSwiClearDyingGaspStatistics_t Struct Reference . . . 1171
8.1191.1 Detailed Description . . . 1171
8.1191.2 Field Documentation . . . 1171
8.1191.2.1 Tlvresult . . . 1171
8.1192 unpack_dms_SLQSSwiGetCrashInfo_t Struct Reference . . . 1171
8.1192.1 Detailed Description . . . 1172
8.1192.2 Field Documentation . . . 1172
8.1192.2.1 crashInfoParam . . . 1172
8.1192.2.2 Tlvresult . . . 1172

8.1193 unpack_dms_SLQSSwiGetDyingGaspCfg_t Struct Reference . . . 1172
8.1193.1 Detailed Description . . . 1172
8.1193.2 Field Documentation . . . 1172
8.1193.2.1 pGetDyingGaspCfg . . . 1172
8.1193.2.2 Tlvresult . . . 1172
8.1194 unpack_dms_SLQSSwiGetDyingGaspStatistics_t Struct Reference . . . 1172
8.1194.1 Detailed Description . . . 1173
8.1194.2 Field Documentation . . . 1173
8.1194.2.1 pGetDyingGaspStatistics . . . 1173
8.1194.2.2 Tlvresult . . . 1173
8.1195 unpack_dms_SLQSSwiGetFirmwareCurr_t Struct Reference . . . 1173
8.1195.1 Detailed Description . . . 1173
8.1195.2 Field Documentation . . . 1174
8.1195.2.1 carrier . . . 1174
8.1195.2.2 fwvers . . . 1174
8.1195.2.3 numEntries . . . 1174
8.1195.2.4 pCurrImgInfo . . . 1174
8.1195.2.5 pkgver . . . 1174
8.1195.2.6 priver . . . 1174
8.1196 unpack_dms_SLQSSwiGetFwUpdateStatus_t Struct Reference . . . 1174
8.1196.1 Detailed Description . . . 1174
8.1196.2 Field Documentation . . . 1175
8.1196.2.1 imgType . . . 1175
8.1196.2.2 logString . . . 1175
8.1196.2.3 refData . . . 1176
8.1196.2.4 refString . . . 1176
8.1196.2.5 ResCode . . . 1176
8.1196.2.6 Tlvresult . . . 1176
8.1197 unpack_dms_SLQSSwiGetHostDevInfo_t Struct Reference . . . 1176
8.1197.1 Detailed Description . . . 1176
8.1197.2 Field Documentation . . . 1176
8.1197.2.1 manString . . . 1176
8.1197.2.2 modelString . . . 1177
8.1197.2.3 plasmaIDString . . . 1177
8.1197.2.4 swVerString . . . 1177
8.1197.2.5 Tlvresult . . . 1177
8.1198 unpack_dms_SLQSSwiGetOSInfo_t Struct Reference . . . 1177
8.1198.1 Detailed Description . . . 1177
8.1198.2 Field Documentation . . . 1177
8.1198.2.1 nameString . . . 1177

8.1198.2.2 Tlvresult . . . 1177
8.1198.2.3 versionString . . . 1177
8.1199 unpack_dms_SLQSSwiGetSerialNoExt_t Struct Reference . . . 1177
8.1199.1 Detailed Description . . . 1177
8.1199.2 Field Documentation . . . 1178
8.1199.2.1 meidString . . . 1178
8.1199.2.2 Tlvresult . . . 1178
8.1200 unpack_dms_SLQSSwiSetDyingGaspCfg_t Struct Reference . . . 1178
8.1200.1 Detailed Description . . . 1178
8.1200.2 Field Documentation . . . 1178
8.1200.2.1 Tlvresult . . . 1178
8.1201 unpack_dms_SLQSSwiSetHostDevInfo_t Struct Reference . . . 1178
8.1201.1 Detailed Description . . . 1178
8.1201.2 Field Documentation . . . 1179
8.1201.2.1 Tlvresult . . . 1179
8.1202 unpack_dms_SLQSSwiSetOSInfo_t Struct Reference . . . 1179
8.1202.1 Detailed Description . . . 1179
8.1202.2 Field Documentation . . . 1179
8.1202.2.1 Tlvresult . . . 1179
8.1203 unpack_dms_SLQSUIMGetState_t Struct Reference . . . 1179
8.1203.1 Detailed Description . . . 1179
8.1203.2 Field Documentation . . . 1179
8.1203.2.1 state . . . 1179
8.1203.2.2 Tlvresult . . . 1179
8.1204 unpack_dms_SwiEventReportCallBack_ind_t Struct Reference . . . 1179
8.1204.1 Detailed Description . . . 1180
8.1204.2 Field Documentation . . . 1180
8.1204.2.1 TempTlv . . . 1180
8.1204.2.2 VoltTlv . . . 1180
8.1205 unpack_dms_SwiSetEventReport_t Struct Reference . . . 1180
8.1205.1 Detailed Description . . . 1180
8.1205.2 Field Documentation . . . 1180
8.1205.2.1 Tlvresult . . . 1180
8.1206 unpack_dms_UIMGetControlKeyStatus_t Struct Reference . . . 1180
8.1206.1 Detailed Description . . . 1181
8.1206.2 Field Documentation . . . 1181
8.1206.2.1 facilityState . . . 1181
8.1206.2.2 Tlvresult . . . 1181
8.1206.2.3 unblockRetriesLeft . . . 1181
8.1206.2.4 verifyRetriesLeft . . . 1181

8.1207 unpack_dms_UIMGetICCID_t Struct Reference . . . 1181
8.1207.1 Detailed Description . . . 1182
8.1207.2 Field Documentation . . . 1182
8.1207.2.1 String . . . 1182
8.1207.2.2 stringSize . . . 1182
8.1207.2.3 Tlvresult . . . 1182
8.1208 unpack_dms_UIMGetPINStatus_t Struct Reference . . . 1182
8.1208.1 Detailed Description . . . 1182
8.1208.2 Field Documentation . . . 1183
8.1208.2.1 p1Status . . . 1183
8.1208.2.2 p1UnblockRetriesLeft . . . 1183
8.1208.2.3 p1VerifyRetriesLeft . . . 1183
8.1208.2.4 p2Status . . . 1183
8.1208.2.5 p2UnblockRetriesLeft . . . 1183
8.1208.2.6 p2VerifyRetriesLeft . . . 1183
8.1208.2.7 Tlvresult . . . 1184
8.1209 unpack_dms_UIMSetControlKeyProtection_t Struct Reference . . . 1184
8.1209.1 Detailed Description . . . 1184
8.1209.2 Field Documentation . . . 1184
8.1209.2.1 Tlvresult . . . 1184
8.1209.2.2 verifyRetriesLeft . . . 1184
8.1210 unpack_dms_UIMSetPINProtection_t Struct Reference . . . 1184
8.1210.1 Detailed Description . . . 1184
8.1210.2 Field Documentation . . . 1185
8.1210.2.1 Tlvresult . . . 1185
8.1210.2.2 unblockRetriesLeft . . . 1185
8.1210.2.3 verifyRetriesLeft . . . 1185
8.1211 unpack_dms_UIMUnblockControlKey_t Struct Reference . . . 1185
8.1211.1 Detailed Description . . . 1185
8.1211.2 Field Documentation . . . 1185
8.1211.2.1 Tlvresult . . . 1185
8.1211.2.2 unblockRetriesLeft . . . 1185
8.1212 unpack_fms_GetImagesPreference_t Struct Reference . . . 1185
8.1212.1 Detailed Description . . . 1186
8.1212.2 Field Documentation . . . 1186
8.1212.2.1 ImageListSize . . . 1186
8.1212.2.2 ParamPresenceMask . . . 1186
8.1212.2.3 pImageList . . . 1186
8.1212.2.4 Tlvresult . . . 1186
8.1213 unpack_fms_GetStoredImages_t Struct Reference . . . 1186

8.1213.1 Detailed Description . . . 1186
8.1213.2 Field Documentation . . . 1187
8.1213.2.1 imageList . . . 1187
8.1213.2.2 imagelistSize . . . 1187
8.1213.2.3 ParamPresenceMask . . . 1187
8.1213.2.4 Tlvresult . . . 1187
8.1214 unpack_fms_SetImagesPreference_t Struct Reference . . . 1187
8.1214.1 Detailed Description . . . 1187
8.1214.2 Field Documentation . . . 1187
8.1214.2.1 ImageTypes . . . 1187
8.1214.2.2 imageTypesSize . . . 1187
8.1214.2.3 ParamPresenceMask . . . 1187
8.1214.2.4 Tlvresult . . . 1187
8.1215 unpack_loc_BestAvailPos_Ind_t Struct Reference . . . 1187
8.1215.1 Detailed Description . . . 1188
8.1215.2 Field Documentation . . . 1193
8.1215.2.1 pAltitudeWrtEllipsoid . . . 1193
8.1215.2.2 pAltitudeWrtMeanSeaLevel . . . 1193
8.1215.2.3 ParamPresenceMask . . . 1193
8.1215.2.4 pGpsTime . . . 1193
8.1215.2.5 pHeading . . . 1193
8.1215.2.6 pHeadingUnc . . . 1193
8.1215.2.7 pHorCirConf . . . 1193
8.1215.2.8 pHorEllpConf . . . 1193
8.1215.2.9 pHorReliability . . . 1193
8.1215.2.10 pHorUncCircular . . . 1194
8.1215.2.11 pHorUncEllipseOrientAzimuth . . . 1194
8.1215.2.12 pHorUncEllipseSemiMajor . . . 1194
8.1215.2.13 pHorUncEllipseSemiMinor . . . 1194
8.1215.2.14 pLatitude . . . 1194
8.1215.2.15 pLongitude . . . 1194
8.1215.2.16 pMagneticDeviation . . . 1194
8.1215.2.17 pPrecisionDilution . . . 1194
8.1215.2.18 pSensorDataUsage . . . 1194
8.1215.2.19 pSpeedHorizontal . . . 1194
8.1215.2.20 pSpeedUnc . . . 1194
8.1215.2.21 pSpeedVertical . . . 1194
8.1215.2.22 pSpeedVerticalUnc . . . 1194
8.1215.2.23 pSvUsedforFix . . . 1194
8.1215.2.24 pTechnologyMask . . . 1194

8.1215.2.25 pTimeSrc . . . 1194
8.1215.2.26 pTimestampUtc . . . 1194
8.1215.2.27 pTimeUnc . . . 1194
8.1215.2.28 pVertConfidence . . . 1194
8.1215.2.29 pVertReliability . . . 1194
8.1215.2.30 pVertUnc . . . 1194
8.1215.2.31 pXid . . . 1194
8.1215.2.32 status . . . 1194
8.1215.2.33 Tlvresult . . . 1194
8.1216 unpack_loc_CradleMountCallback_Ind_t Struct Reference . . . 1194
8.1216.1 Detailed Description . . . 1195
8.1216.2 Field Documentation . . . 1195
8.1216.2.1 cradleMountConfigStatus . . . 1195
8.1216.2.2 ParamPresenceMask . . . 1195
8.1217 unpack_loc_Delete_Assist_Data_t Struct Reference . . . 1195
8.1217.1 Detailed Description . . . 1195
8.1217.2 Field Documentation . . . 1195
8.1217.2.1 ParamPresenceMask . . . 1195
8.1217.2.2 Tlvresult . . . 1195
8.1218 unpack_loc_DeleteAssistData_Ind_t Struct Reference . . . 1196
8.1218.1 Detailed Description . . . 1196
8.1218.2 Field Documentation . . . 1196
8.1218.2.1 ParamPresenceMask . . . 1196
8.1218.2.2 status . . . 1196
8.1218.2.3 Tlvresult . . . 1196
8.1219 unpack_loc_EngineState_Ind_t Struct Reference . . . 1196
8.1219.1 Detailed Description . . . 1197
8.1219.2 Field Documentation . . . 1197
8.1219.2.1 engineState . . . 1197
8.1219.2.2 ParamPresenceMask . . . 1197
8.1219.2.3 Tlvresult . . . 1197
8.1220 unpack_loc_EventNMEA_Ind_t Struct Reference . . . 1197
8.1220.1 Detailed Description . . . 1197
8.1220.2 Field Documentation . . . 1198
8.1220.2.1 NMEAData . . . 1198
8.1220.2.2 ParamPresenceMask . . . 1198
8.1220.2.3 Tlvresult . . . 1198
8.1221 unpack_loc_EventRegister_t Struct Reference . . . 1198
8.1221.1 Detailed Description . . . 1198
8.1221.2 Field Documentation . . . 1198

8.1221.2.1 ParamPresenceMask . . . 1198
8.1221.2.2 Tlvresult . . . 1198
8.1222 unpack_loc_EventTimeSyncCallback_Ind_t Struct Reference . . . 1198
8.1222.1 Detailed Description . . . 1198
8.1222.2 Field Documentation . . . 1198
8.1222.2.1 ParamPresenceMask . . . 1199
8.1222.2.2 timeSyncRefCounter . . . 1199
8.1223 unpack_loc_GetServer_Ind_t Struct Reference . . . 1199
8.1223.1 Detailed Description . . . 1199
8.1223.2 Field Documentation . . . 1200
8.1223.2.1 ParamPresenceMask . . . 1200
8.1223.2.2 pIPv4AddrInfo . . . 1200
8.1223.2.3 pIPv6AddrInfo . . . 1200
8.1223.2.4 pURL . . . 1200
8.1223.2.5 serverStatus . . . 1200
8.1223.2.6 serverType . . . 1200
8.1223.2.7 Tlvresult . . . 1200
8.1224 unpack_loc_GnssSvInfo_Ind_t Struct Reference . . . 1200
8.1224.1 Detailed Description . . . 1200
8.1224.2 Field Documentation . . . 1201
8.1224.2.1 altitudeAssumed . . . 1201
8.1224.2.2 ParamPresenceMask . . . 1201
8.1224.2.3 pSatelliteInfo . . . 1201
8.1224.2.4 Tlvresult . . . 1201
8.1225 unpack_loc_InjectPositionCallback_Ind_t Struct Reference . . . 1201
8.1225.1 Detailed Description . . . 1201
8.1225.2 Field Documentation . . . 1202
8.1225.2.1 ParamPresenceMask . . . 1202
8.1225.2.2 status . . . 1202
8.1226 unpack_loc_InjectSensorDataCallback_Ind_t Struct Reference . . . 1202
8.1226.1 Detailed Description . . . 1202
8.1226.2 Field Documentation . . . 1203
8.1226.2.1 injectSensorDataStatus . . . 1203
8.1226.2.2 pAccelSamplesAccepted . . . 1203
8.1226.2.3 pAccelTempSamplesAccepted . . . 1203
8.1226.2.4 ParamPresenceMask . . . 1203
8.1226.2.5 pGyroSamplesAccepted . . . 1203
8.1226.2.6 pGyroTempSamplesAccepted . . . 1203
8.1226.2.7 pOpaqueIdentifier . . . 1203
8.1227 unpack_loc_InjectTimeSyncDataCallback_Ind_t Struct Reference . . . 1203

8.1227.1 Detailed Description . . . 1203
8.1227.2 Field Documentation . . . 1204
8.1227.2.1 injectTimeSyncStatus . . . 1204
8.1227.2.2 ParamPresenceMask . . . 1204
8.1228 unpack_loc_InjectUTCTimeCallback_Ind_t Struct Reference . . . 1204
8.1228.1 Detailed Description . . . 1204
8.1228.2 Field Documentation . . . 1205
8.1228.2.1 ParamPresenceMask . . . 1205
8.1228.2.2 status . . . 1205
8.1229 unpack_loc_PositionRpt_Ind_t Struct Reference . . . 1205
8.1229.1 Detailed Description . . . 1206
8.1229.2 Field Documentation . . . 1211
8.1229.2.1 pAltitudeAssumed . . . 1211
8.1229.2.2 pAltitudeWrtEllipsoid . . . 1211
8.1229.2.3 pAltitudeWrtMeanSeaLevel . . . 1211
8.1229.2.4 ParamPresenceMask . . . 1211
8.1229.2.5 pFixId . . . 1211
8.1229.2.6 pGpsTime . . . 1211
8.1229.2.7 pHeading . . . 1211
8.1229.2.8 pHeadingUnc . . . 1211
8.1229.2.9 pHorConfidence . . . 1211
8.1229.2.10 pHorReliability . . . 1211
8.1229.2.11 pHorUncCircular . . . 1211
8.1229.2.12 pHorUncEllipseOrientAzimuth . . . 1211
8.1229.2.13 pHorUncEllipseSemiMajor . . . 1211
8.1229.2.14 pHorUncEllipseSemiMinor . . . 1211
8.1229.2.15 pLatitude . . . 1211
8.1229.2.16 pLeapSeconds . . . 1211
8.1229.2.17 pLongitude . . . 1211
8.1229.2.18 pMagneticDeviation . . . 1211
8.1229.2.19 pPrecisionDilution . . . 1211
8.1229.2.20 pSensorDataUsage . . . 1211
8.1229.2.21 pSpeedHorizontal . . . 1211
8.1229.2.22 pSpeedUnc . . . 1211
8.1229.2.23 pSpeedVertical . . . 1211
8.1229.2.24 pSvUsedforFix . . . 1211
8.1229.2.25 pTechnologyMask . . . 1211
8.1229.2.26 pTimeSrc . . . 1211
8.1229.2.27 pTimestampUtc . . . 1211
8.1229.2.28 pTimeUnc . . . 1212

8.1229.2.29 pVertConfidence . . . 1212
8.1229.2.30 pVertReliability . . . 1212
8.1229.2.31 pVertUnc . . . 1212
8.1229.2.32 sessionId . . . 1212
8.1229.2.33 sessionStatus . . . 1212
8.1229.2.34 Tlvresult . . . 1212
8.1230 unpack_loc_SensorStreamingCallback_Ind_t Struct Reference . . . 1212
8.1230.1 Detailed Description . . . 1212
8.1230.2 Field Documentation . . . 1212
8.1230.2.1 pAccelAcceptReady . . . 1212
8.1230.2.2 pAccelTempAcceptReady . . . 1212
8.1230.2.3 ParamPresenceMask . . . 1213
8.1230.2.4 pGyroAcceptReady . . . 1213
8.1230.2.5 pGyroTempAcceptReady . . . 1213
8.1231 unpack_loc_SetExtPowerConfig_Ind_t Struct Reference . . . 1213
8.1231.1 Detailed Description . . . 1213
8.1231.2 Field Documentation . . . 1213
8.1231.2.1 ParamPresenceMask . . . 1213
8.1231.2.2 status . . . 1213
8.1231.2.3 Tlvresult . . . 1213
8.1232 unpack_loc_SetExtPowerState_t Struct Reference . . . 1213
8.1232.1 Detailed Description . . . 1214
8.1232.2 Field Documentation . . . 1214
8.1232.2.1 ParamPresenceMask . . . 1214
8.1232.2.2 Tlvresult . . . 1214
8.1233 unpack_loc_SetOperationMode_Ind_t Struct Reference . . . 1214
8.1233.1 Detailed Description . . . 1214
8.1233.2 Field Documentation . . . 1215
8.1233.2.1 ParamPresenceMask . . . 1215
8.1233.2.2 status . . . 1215
8.1233.2.3 Tlvresult . . . 1215
8.1234 unpack_loc_SetOperationMode_t Struct Reference . . . 1215
8.1234.1 Detailed Description . . . 1215
8.1234.2 Field Documentation . . . 1215
8.1234.2.1 ParamPresenceMask . . . 1215
8.1234.2.2 Tlvresult . . . 1215
8.1235 unpack_loc_SetServer_Ind_t Struct Reference . . . 1215
8.1235.1 Detailed Description . . . 1215
8.1235.2 Field Documentation . . . 1216
8.1235.2.1 serverStatus . . . 1216

8.1235.2.2 Tlvresult . . . 1216
8.1236 unpack_loc_SLQSLOCGetBestAvailPos_t Struct Reference . . . 1216
8.1236.1 Detailed Description . . . 1216
8.1236.2 Field Documentation . . . 1216
8.1236.2.1 ParamPresenceMask . . . 1216
8.1236.2.2 Tlvresult . . . 1217
8.1237 unpack_loc_Start_t Struct Reference . . . 1217
8.1237.1 Detailed Description . . . 1217
8.1237.2 Field Documentation . . . 1217
8.1237.2.1 ParamPresenceMask . . . 1217
8.1237.2.2 Tlvresult . . . 1217
8.1238 unpack_loc_Stop_t Struct Reference . . . 1217
8.1238.1 Detailed Description . . . 1217
8.1238.2 Field Documentation . . . 1217
8.1238.2.1 ParamPresenceMask . . . 1217
8.1238.2.2 Tlvresult . . . 1217
8.1239 unpack_nas_GetCDMANetworkParameters_t Struct Reference . . . 1217
8.1239.1 Detailed Description . . . 1218
8.1239.2 Field Documentation . . . 1219
8.1239.2.1 Application . . . 1219
8.1239.2.2 Broadcast . . . 1219
8.1239.2.3 CustomSCP . . . 1219
8.1239.2.4 ForceRev0 . . . 1219
8.1239.2.5 Protocol . . . 1219
8.1239.2.6 RegForeignNID . . . 1220
8.1239.2.7 RegForeignSID . . . 1220
8.1239.2.8 RegHomeSID . . . 1220
8.1239.2.9 Roaming . . . 1220
8.1239.2.10 SCI . . . 1220
8.1239.2.11 SCM . . . 1220
8.1240 unpack_nas_GetHomeNetwork3GPP2_t Struct Reference . . . 1220
8.1240.1 Detailed Description . . . 1220
8.1240.2 Field Documentation . . . 1221
8.1240.2.1 nameSize . . . 1221
8.1240.2.2 pMCC . . . 1222
8.1240.2.3 pMNC . . . 1222
8.1240.2.4 pName . . . 1222
8.1240.2.5 pNID . . . 1222
8.1240.2.6 pNw2DescDisp . . . 1222
8.1240.2.7 pNw2DescEnc . . . 1222

8.1240.2.8 pNw2DescLen . . . 1222
8.1240.2.9 pNw2MCC . . . 1222
8.1240.2.10 pNw2MNC . . . 1222
8.1240.2.11 pNw2Name . . . 1222
8.1240.2.12 pSID . . . 1222
8.1241 unpack_nas_GetHomeNetwork_t Struct Reference . . . 1222
8.1241.1 Detailed Description . . . 1222
8.1241.2 Field Documentation . . . 1223
8.1241.2.1 mcc . . . 1223
8.1241.2.2 mnc . . . 1223
8.1241.2.3 name . . . 1223
8.1241.2.4 nid . . . 1223
8.1241.2.5 sid . . . 1223
8.1242 unpack_nas_GetNetworkPreference_t Struct Reference . . . 1223
8.1242.1 Detailed Description . . . 1223
8.1242.2 Field Documentation . . . 1224
8.1242.2.1 ActiveTechPref . . . 1224
8.1242.2.2 Duration . . . 1224
8.1242.2.3 PersistentTechPref . . . 1224
8.1242.2.4 Tlvresult . . . 1224
8.1243 unpack_nas_GetRFInfo_t Struct Reference . . . 1224
8.1243.1 Detailed Description . . . 1225
8.1243.2 Field Documentation . . . 1225
8.1243.2.1 instancesSize . . . 1225
8.1243.2.2 RFBandInfoElements . . . 1225
8.1244 unpack_nas_GetServingNetwork_t Struct Reference . . . 1225
8.1244.1 Detailed Description . . . 1225
8.1244.2 Field Documentation . . . 1227
8.1244.2.1 CSDomain . . . 1227
8.1244.2.2 DataCaps . . . 1227
8.1244.2.3 DataCapsLen . . . 1227
8.1244.2.4 MCC . . . 1227
8.1244.2.5 MNC . . . 1227
8.1244.2.6 Name . . . 1227
8.1244.2.7 nameSize . . . 1227
8.1244.2.8 PSDomain . . . 1227
8.1244.2.9 RadioIfaces . . . 1227
8.1244.2.10 RadioIfacesSize . . . 1227
8.1244.2.11 RAN . . . 1227
8.1244.2.12 RegistrationState . . . 1227

8.1244.2.1 Roaming . . . 1227
8.1245 unpack_nas_GetServingNetworkCapabilities_t Struct Reference . . . 1227
8.1245.1 Detailed Description . . . 1228
8.1245.2 Field Documentation . . . 1228
8.1245.2.1 DataCaps . . . 1228
8.1245.2.2 DataCapsLen . . . 1228
8.1246 unpack_nas_GetSignalStrengths_t Struct Reference . . . 1228
8.1246.1 Detailed Description . . . 1228
8.1246.2 Field Documentation . . . 1228
8.1246.2.1 len . . . 1229
8.1246.2.2 radio . . . 1229
8.1246.2.3 rssi . . . 1229
8.1247 unpack_nas_PerformNetworkScan_t Struct Reference . . . 1229
8.1247.1 Detailed Description . . . 1229
8.1247.2 Field Documentation . . . 1230
8.1247.2.1 p3GppNetworkInfoInstances . . . 1230
8.1247.2.2 p3GppNetworkInstanceSize . . . 1230
8.1247.2.3 pPCSInstance . . . 1230
8.1247.2.4 pPCSInstanceSize . . . 1230
8.1247.2.5 pRATINstance . . . 1230
8.1247.2.6 pRATInstanceSize . . . 1230
8.1247.2.7 pScanResult . . . 1230
8.1248 unpack_nas_SetDataCapabilitiesCallback_ind_t Struct Reference . . . 1230
8.1248.1 Detailed Description . . . 1230
8.1248.2 Field Documentation . . . 1230
8.1248.2.1 dataCaps . . . 1230
8.1248.2.2 dataCapsSize . . . 1230
8.1249 unpack_nas_SetEventReportInd_t Struct Reference . . . 1230
8.1249.1 Detailed Description . . . 1230
8.1249.2 Field Documentation . . . 1231
8.1249.2.1 RFTlv . . . 1231
8.1249.2.2 RRTlv . . . 1231
8.1249.2.3 SLQSSSTlv . . . 1231
8.1249.2.4 SSTlv . . . 1231
8.1250 unpack_nas_SetNasLTECphyCaIndCallback_ind_t Struct Reference . . . 1231
8.1250.1 Detailed Description . . . 1231
8.1250.2 Field Documentation . . . 1231
8.1250.2.1 sPhyCaAggPcellInfo . . . 1231
8.1250.2.2 sPhyCaAggScellDlBw . . . 1232
8.1250.2.3 sPhyCaAggScellIndex . . . 1232

8.1250.2.4 sPhyCaAggScellIndType . . . 1232
8.1250.2.5 sPhyCaAggScellInfo . . . 1232
8.1251 unpack_nas_SetNetworkPreference_t Struct Reference . . . 1232
8.1251.1 Detailed Description . . . 1232
8.1251.2 Field Documentation . . . 1232
8.1251.2.1 Tlvresult . . . 1232
8.1252 unpack_nas_SetRoamingIndicatorCallback_ind_t Struct Reference . . . 1232
8.1252.1 Detailed Description . . . 1232
8.1252.2 Field Documentation . . . 1232
8.1252.2.1 roaming . . . 1232
8.1253 unpack_nas_SetServingSystemCallback_ind_t Struct Reference . . . 1233
8.1253.1 Detailed Description . . . 1233
8.1253.2 Field Documentation . . . 1233
8.1253.2.1 SSInfo . . . 1233
8.1253.2.2 Tlvresult . . . 1233
8.1254 unpack_nas_SLQSGetErrorRate_t Struct Reference . . . 1233
8.1254.1 Detailed Description . . . 1233
8.1254.2 Field Documentation . . . 1234
8.1254.2.1 pCDMAFrameErrRate . . . 1234
8.1254.2.2 pGSMBER . . . 1234
8.1254.2.3 pHDRPackErrRate . . . 1234
8.1254.2.4 pWCDMABER . . . 1234
8.1255 unpack_nas_SlqsGetLTECphyCAInfo_t Struct Reference . . . 1234
8.1255.1 Detailed Description . . . 1234
8.1255.2 Field Documentation . . . 1235
8.1255.2.1 LTECphyCaInfo . . . 1235
8.1255.2.2 Tlvresult . . . 1235
8.1256 unpack_nas_SLQSGetNetworkTime_t Struct Reference . . . 1235
8.1256.1 Detailed Description . . . 1235
8.1256.2 Field Documentation . . . 1235
8.1256.2.1 p3GPP2TimeInfo . . . 1235
8.1256.2.2 p3GPPTimeInfo . . . 1235
8.1257 unpack_nas_SLQSGetOperatorNameData_t Struct Reference . . . 1235
8.1257.1 Detailed Description . . . 1235
8.1257.2 Field Documentation . . . 1236
8.1257.2.1 pNITZInformation . . . 1236
8.1257.2.2 pOperatorNameString . . . 1236
8.1257.2.3 pOperatorPLMNList . . . 1236
8.1257.2.4 pPLMNNetworkName . . . 1236
8.1257.2.5 pSrvcProviderName . . . 1236

8.1258 nnpack_nas_SLQSGetPLMNName_t Struct Reference . . . 1236
8.1258.1 Detailed Description . . . 1237
8.1258.2 Field Documentation . . . 1238
8.1258.2.1 longName . . . 1238
8.1258.2.2 longNameCI . . . 1238
8.1258.2.3 longNameEn . . . 1238
8.1258.2.4 longNameLen . . . 1238
8.1258.2.5 longNameSB . . . 1238
8.1258.2.6 shortName . . . 1238
8.1258.2.7 shortNameCI . . . 1239
8.1258.2.8 shortNameEn . . . 1239
8.1258.2.9 shortNameLen . . . 1239
8.1258.2.10 shortNameSB . . . 1239
8.1258.2.11 spn . . . 1239
8.1258.2.12 spnEncoding . . . 1239
8.1258.2.13 spnLength . . . 1239
8.1259 nnpack_nas_SLQSGetServingSystem_t Struct Reference . . . 1239
8.1259.1 Detailed Description . . . 1239
8.1259.2 Field Documentation . . . 1242
8.1259.2.1 BasestationID . . . 1242
8.1259.2.2 BasestationLatitude . . . 1242
8.1259.2.3 BasestationLongitude . . . 1242
8.1259.2.4 CallBarStatus . . . 1242
8.1259.2.5 CDMA_P_Rev . . . 1242
8.1259.2.6 CDMASystemInfoExt . . . 1242
8.1259.2.7 CellID . . . 1242
8.1259.2.8 ConcSvcInfo . . . 1242
8.1259.2.9 CurrentPLMN . . . 1242
8.1259.2.10 DataSrvCapabilities . . . 1242
8.1259.2.11 DefaultRoamInd . . . 1242
8.1259.2.12 DetailedSvcInfo . . . 1242
8.1259.2.13 DTMInd . . . 1242
8.1259.2.14 Gpp2TimeZone . . . 1242
8.1259.2.15 GppNetworkDSTAdjustment . . . 1242
8.1259.2.16 GppTimeZone . . . 1242
8.1259.2.17 HdrPersonality . . . 1242
8.1259.2.18 lac . . . 1242
8.1259.2.19 NetworkID . . . 1243
8.1259.2.20 PRLInd . . . 1243
8.1259.2.21 RoamIndicatorVal . . . 1243

8.1259.2.22 RoamingIndicatorList . . . 1243
8.1259.2.23 ServingSystem . . . 1243
8.1259.2.24 SystemID . . . 1243
8.1259.2.25 TrackAreaCode . . . 1243
8.1260 unpack_nas_SLQSGetSignalStrength_t Struct Reference . . . 1243
8.1260.1 Detailed Description . . . 1243
8.1260.2 Field Documentation . . . 1245
8.1260.2.1 ecioList . . . 1245
8.1260.2.2 ecioListLen . . . 1245
8.1260.2.3 errorRateList . . . 1245
8.1260.2.4 errorRateListLen . . . 1245
8.1260.2.5 io . . . 1245
8.1260.2.6 ltersrp . . . 1245
8.1260.2.7 ltesnr . . . 1245
8.1260.2.8 rsrqInfo . . . 1245
8.1260.2.9 rxSignalStrengthList . . . 1245
8.1260.2.10 rxSignalStrengthListLen . . . 1245
8.1260.2.11 signalStrengthReqMask . . . 1245
8.1260.2.12 snr . . . 1245
8.1261 unpack_nas_SLQSGetSysInfo_t Struct Reference . . . 1245
8.1261.1 Detailed Description . . . 1246
8.1261.2 Field Documentation . . . 1248
8.1261.2.1 pAddCDMASysInfo . . . 1248
8.1261.2.2 pAddGSMSysInfo . . . 1248
8.1261.2.3 pAddHDRSysInfo . . . 1248
8.1261.2.4 pAddLTESysInfo . . . 1248
8.1261.2.5 pAddWCDMASysInfo . . . 1248
8.1261.2.6 pCDMASrvStatusInfo . . . 1248
8.1261.2.7 pCDMASysInfo . . . 1248
8.1261.2.8 pGSMCallBarringSysInfo . . . 1248
8.1261.2.9 pGSMCipherDomainSysInfo . . . 1248
8.1261.2.10 pGSMSrvStatusInfo . . . 1248
8.1261.2.11 pGSMSysInfo . . . 1248
8.1261.2.12 pHDRSrvStatusInfo . . . 1248
8.1261.2.13 pHDRSysInfo . . . 1248
8.1261.2.14 pLTESrvStatusInfo . . . 1248
8.1261.2.15 pLTESysInfo . . . 1248
8.1261.2.16 pLTEVoiceSupportSysInfo . . . 1248
8.1261.2.17 pWCDMACallBarringSysInfo . . . 1248
8.1261.2.18 pWCDMACipherDomainSysInfo . . . 1249

8.1261.2.19 pWCDMASrvStatusInfo . . . 1249
8.1261.2.20 pWCDMASysInfo . . . 1249
8.1262 qmnpack_nas_SLQSGetSysSelectionPref_t Struct Reference . . . 1249
8.1262.1 Detailed Description . . . 1249
8.1262.2 Field Documentation . . . 1253
8.1262.2.1 pBandPref . . . 1253
8.1262.2.2 pEmerMode . . . 1253
8.1262.2.3 pGWAcqOrderPref . . . 1253
8.1262.2.4 pLTEBandPref . . . 1253
8.1262.2.5 pModePref . . . 1253
8.1262.2.6 pNetSelPref . . . 1253
8.1262.2.7 pPRLPref . . . 1253
8.1262.2.8 pRoamPref . . . 1253
8.1262.2.9 pSrvDomainPref . . . 1253
8.1263 qmnpack_nas_SLQSGetSysSelectionPrefExt_t Struct Reference . . . 1253
8.1263.1 Detailed Description . . . 1254
8.1263.2 Field Documentation . . . 1255
8.1263.2.1 pAcqOrderPref . . . 1255
8.1263.2.2 pBandPref . . . 1255
8.1263.2.3 pCiotAcqOrderPref . . . 1255
8.1263.2.4 pCiotLteOpModePref . . . 1255
8.1263.2.5 pEmerMode . . . 1255
8.1263.2.6 pGWAcqOrderPref . . . 1255
8.1263.2.7 pLTEBandPref . . . 1255
8.1263.2.8 pLteM1BandPref . . . 1255
8.1263.2.9 pLteNb1BandPref . . . 1255
8.1263.2.10 pModePref . . . 1255
8.1263.2.11 pNetSelPref . . . 1255
8.1263.2.12 pNr5gBandPref . . . 1255
8.1263.2.13 pPRLPref . . . 1256
8.1263.2.14 pRatDisabledMask . . . 1256
8.1263.2.15 pRoamPref . . . 1256
8.1263.2.16 pSrvDomainPref . . . 1256
8.1264 qmnpack_nas_SLQSNasGet3GPP2Subscription_t Struct Reference . . . 1256
8.1264.1 Detailed Description . . . 1256
8.1264.2 Field Documentation . . . 1256
8.1264.2.1 pCDMAChannel . . . 1257
8.1264.2.2 pDirNum . . . 1257
8.1264.2.3 pHomeSIDNID . . . 1257
8.1264.2.4 pMinBasedIMSI . . . 1257

8.1264.2.5 pNAMNameInfo . . . 1257
8.1264.2.6 pTrueIMSI . . . 1257
8.1265 unpack_nas_SLQSNasGetCellLocationInfo_t Struct Reference . . . 1257
8.1265.1 Detailed Description . . . 1257
8.1265.2 Field Documentation . . . 1258
8.1265.2.1 pCDMAInfo . . . 1258
8.1265.2.2 pGERANInfo . . . 1258
8.1265.2.3 pLTEInfoInterfreq . . . 1258
8.1265.2.4 pLTEInfoIntrafreq . . . 1258
8.1265.2.5 pLTEInfoNeighboringGSM . . . 1258
8.1265.2.6 pLTEInfoNeighboringWCDMA . . . 1258
8.1265.2.7 pUMTSCellID . . . 1258
8.1265.2.8 pUMTSInfo . . . 1258
8.1265.2.9 pWCDMAInfoLTENeighborCell . . . 1258
8.1266 unpack_nas_SLQSNASGeteDRXParams_t Struct Reference . . . 1258
8.1266.1 Detailed Description . . . 1258
8.1266.2 Field Documentation . . . 1259
8.1266.2.1 pCycleLen . . . 1259
8.1266.2.2 pEdrxEnable . . . 1259
8.1266.2.3 pPagingTimeWindow . . . 1259
8.1267 unpack_nas_SLQSNasGetHDRColorCode_t Struct Reference . . . 1259
8.1267.1 Detailed Description . . . 1259
8.1267.2 Field Documentation . . . 1259
8.1267.2.1 pColorCode . . . 1259
8.1268 unpack_nas_SLQSNasGetRFInfo_t Struct Reference . . . 1259
8.1268.1 Detailed Description . . . 1260
8.1268.2 Field Documentation . . . 1260
8.1268.2.1 pLTEOperationMode . . . 1260
8.1268.2.2 pRfBandInfoExtFormat . . . 1260
8.1268.2.3 pRfBandwidthInfo . . . 1260
8.1268.2.4 pRfDedicatedBandInfo . . . 1260
8.1268.2.5 rfbandInfoList . . . 1260
8.1268.2.6 Tlvresult . . . 1260
8.1269 unpack_nas_SLQSNasGetSigInfo_t Struct Reference . . . 1260
8.1269.1 Detailed Description . . . 1261
8.1269.2 Field Documentation . . . 1261
8.1269.2.1 CDMASSInfo . . . 1261
8.1269.2.2 GSMSSInfo . . . 1261
8.1269.2.3 HDRSSInfo . . . 1261
8.1269.2.4 LTESSInfo . . . 1261

8.1269.2.5 WCDMASSInfo . . . 1261
8.1270 unpack_nas_SLQSNasGetTxRxInfo_t Struct Reference . . . 1261
8.1270.1 Detailed Description . . . 1261
8.1270.2 Field Documentation . . . 1262
8.1270.2.1 pRXChain0Info . . . 1262
8.1270.2.2 pRXChain1Info . . . 1262
8.1270.2.3 pTXInfo . . . 1262
8.1271 unpack_nas_SLQSNasNetworkTimeCallBack_ind_t Struct Reference . . . 1262
8.1271.1 Detailed Description . . . 1262
8.1271.2 Field Documentation . . . 1263
8.1271.2.1 pDayltSavAdj . . . 1263
8.1271.2.2 pRadioInterface . . . 1263
8.1271.2.3 pTimeZone . . . 1263
8.1271.2.4 universalTime . . . 1263
8.1272 unpack_nas_SLQSNasSigInfoCallback_ind_t Struct Reference . . . 1263
8.1272.1 Detailed Description . . . 1263
8.1272.2 Field Documentation . . . 1264
8.1272.2.1 pCDMASigInfo . . . 1264
8.1272.2.2 pGSMSigInfo . . . 1264
8.1272.2.3 pHDRSigInfo . . . 1264
8.1272.2.4 pLTESigInfo . . . 1264
8.1272.2.5 pRscp . . . 1264
8.1272.2.6 pTDSCDMASigInfoExt . . . 1264
8.1272.2.7 pWCDMASigInfo . . . 1264
8.1273 unpack_nas_SLQSNASSwiGetChannelLock_t Struct Reference . . . 1264
8.1273.1 Detailed Description . . . 1264
8.1273.2 Field Documentation . . . 1265
8.1273.2.1 pLteEARFCN . . . 1265
8.1273.2.2 pLtePCI . . . 1265
8.1273.2.3 pWcdmaUARFCN . . . 1265
8.1274 unpack_nas_SLQSNasSwiModemStatus_t Struct Reference . . . 1265
8.1274.1 Detailed Description . . . 1265
8.1274.2 Field Documentation . . . 1265
8.1274.2.1 commonInfo . . . 1265
8.1274.2.2 pLTEInfo . . . 1265
8.1275 unpack_nas_SLQSNasSwiOTAMessageCallback_ind_t Struct Reference . . . 1265
8.1275.1 Detailed Description . . . 1266
8.1275.2 Field Documentation . . . 1266
8.1275.2.1 Info . . . 1266
8.1275.2.2 Tlvresult . . . 1266

8.1276 unpack_nas_SLQSNasTimerCallback_ind_t Struct Reference . . . 1266
8.1276.1 Detailed Description . . . 1266
8.1276.2 Field Documentation . . . 1266
8.1276.2.1 t3396_apn . . . 1266
8.1276.2.2 t3396_plmn_id . . . 1266
8.1276.2.3 t3396_val . . . 1266
8.1277 unpack_nas_SLQSSetSysSelectionPrefCallBack_ind_t Struct Reference . . . 1267
8.1277.1 Detailed Description . . . 1267
8.1277.2 Field Documentation . . . 1267
8.1277.2.1 Info . . . 1267
8.1277.2.2 Tlvresult . . . 1267
8.1278 unpack_nas_SLQSSwiGetHDRPersonality_t Struct Reference . . . 1267
8.1278.1 Detailed Description . . . 1267
8.1278.2 Field Documentation . . . 1268
8.1278.2.1 pCurrentPersonality . . . 1268
8.1278.2.2 pPersonalityListLength . . . 1268
8.1278.2.3 pProtocolSubtypeElement . . . 1268
8.1279 unpack_nas_SLQSSwiGetHDRProtSubtype_t Struct Reference . . . 1268
8.1279.1 Detailed Description . . . 1268
8.1279.2 Field Documentation . . . 1268
8.1279.2.1 pAppSubType . . . 1268
8.1279.2.2 pCurrentPrsnlty . . . 1268
8.1279.2.3 pPersonalityListLength . . . 1268
8.1279.2.4 pProtoSubTypElmnt . . . 1268
8.1280 unpack_nas_SLQSSwiGetHRPDStats_t Struct Reference . . . 1269
8.1280.1 Detailed Description . . . 1269
8.1280.2 Field Documentation . . . 1269
8.1280.2.1 pDRCParams . . . 1269
8.1280.2.2 pPilotSetData . . . 1269
8.1280.2.3 pUATI . . . 1269
8.1281 unpack_nas_SLQSSwiGetLteCQI_t Struct Reference . . . 1269
8.1281.1 Detailed Description . . . 1269
8.1281.2 Field Documentation . . . 1270
8.1281.2.1 CQIValueCW0 . . . 1270
8.1281.2.2 CQIValueCW1 . . . 1270
8.1281.2.3 ValidityCW0 . . . 1270
8.1281.2.4 ValidityCW1 . . . 1270
8.1282 unpack_nas_SLQSSwiGetLteSccRxInfo_t Struct Reference . . . 1270
8.1282.1 Detailed Description . . . 1270
8.1282.2 Field Documentation . . . 1270

8.1282.2.1 pSccRxInfo . . . 1270
8.1283 unpack_nas_SLQSSwiHDRPersonalityCallback_Ind_t Struct Reference . . . 1271
8.1283.1 Detailed Description . . . 1271
8.1283.2 Field Documentation . . . 1271
8.1283.2.1 pHDRPersInd . . . 1271
8.1284 unpack_nas_SLQSSwiNetworkDebug_t Struct Reference . . . 1271
8.1284.1 Detailed Description . . . 1271
8.1284.2 Field Documentation . . . 1272
8.1284.2.1 pDataStatusDetail . . . 1272
8.1284.2.2 pDeviceConfigDetail . . . 1272
8.1284.2.3 pNetworkStat1x . . . 1272
8.1284.2.4 pNetworkStatEVDO . . . 1272
8.1284.2.5 pObjectVer . . . 1272
8.1285 unpack_nas_SLQSSwiRandIndicatorCallback_Ind_t Struct Reference . . . 1272
8.1285.1 Detailed Description . . . 1272
8.1285.2 Field Documentation . . . 1272
8.1285.2.1 rankIndicatorTlv . . . 1272
8.1286 unpack_nas_SLQSSysInfoCallback_ind_t Struct Reference . . . 1272
8.1286.1 Detailed Description . . . 1273
8.1286.2 Field Documentation . . . 1274
8.1286.2.1 pAddCDMASysInfo . . . 1274
8.1286.2.2 pAddGSMSysInfo . . . 1274
8.1286.2.3 pAddHDRSysInfo . . . 1274
8.1286.2.4 pAddLTESysInfo . . . 1274
8.1286.2.5 pAddWCDMASysInfo . . . 1275
8.1286.2.6 pCDMASrvStatusInfo . . . 1275
8.1286.2.7 pCDMASysInfo . . . 1275
8.1286.2.8 pGSMCallBarringSysInfo . . . 1275
8.1286.2.9 pGSMCipherDomainSysInfo . . . 1275
8.1286.2.10 pGSMSrvStatusInfo . . . 1275
8.1286.2.11 pGSMSysInfo . . . 1275
8.1286.2.12 pHDRSrvStatusInfo . . . 1275
8.1286.2.13 pHDRSysInfo . . . 1275
8.1286.2.14 pLTESrvStatusInfo . . . 1275
8.1286.2.15 pLTESysInfo . . . 1275
8.1286.2.16 pLTEVoiceSupportSysInfo . . . 1275
8.1286.2.17 pSysInfoNoChange . . . 1275
8.1286.2.18 pWCDMACallBarringSysInfo . . . 1275
8.1286.2.19 pWCDMACipherDomainSysInfo . . . 1275
8.1286.2.20 pWCDMASrvStatusInfo . . . 1275

8.1286.2.21 WCDMASysInfo . . . 1275
8.1287 unpack_omaDmConfigTlv_t Struct Reference . . . 1275
8.1287.1 Detailed Description . . . 1275
8.1287.2 Field Documentation . . . 1276
8.1287.2.1 alertmsg . . . 1276
8.1287.2.2 alertmsglength . . . 1276
8.1287.2.3 state . . . 1276
8.1287.2.4 userInputReq . . . 1276
8.1287.2.5 userInputTimeout . . . 1276
8.1288 unpack_omaDmFotaTlv_t Struct Reference . . . 1276
8.1288.1 Detailed Description . . . 1276
8.1288.2 Field Documentation . . . 1278
8.1288.2.1 description . . . 1278
8.1288.2.2 descriptionlength . . . 1278
8.1288.2.3 fwdloadsize . . . 1278
8.1288.2.4 fwloadComplete . . . 1278
8.1288.2.5 namelength . . . 1278
8.1288.2.6 package_name . . . 1278
8.1288.2.7 sessionType . . . 1278
8.1288.2.8 severity . . . 1278
8.1288.2.9 state . . . 1278
8.1288.2.10 updateCompleteStatus . . . 1278
8.1288.2.11 userInputReq . . . 1278
8.1288.2.12 userInputTimeout . . . 1278
8.1288.2.13 version . . . 1278
8.1288.2.14 versionlength . . . 1278
8.1289 unpack_omaDmNotificationsTlv_t Struct Reference . . . 1278
8.1289.1 Detailed Description . . . 1278
8.1289.2 Field Documentation . . . 1279
8.1289.2.1 notification . . . 1279
8.1289.2.2 sessionStatus . . . 1279
8.1290 unpack_pds_GetPDSDefaults_t Struct Reference . . . 1279
8.1290.1 Detailed Description . . . 1279
8.1290.2 Field Documentation . . . 1280
8.1290.2.1 pAccuracy . . . 1280
8.1290.2.2 pInterval . . . 1280
8.1290.2.3 pOperation . . . 1280
8.1290.2.4 pTimeout . . . 1280
8.1291 unpack_pds_GetPDSState_t Struct Reference . . . 1280
8.1291.1 Detailed Description . . . 1280

8.1291.2 Field Documentation . . . 1281
8.1291.2.1 pEnabledStatus . . . 1281
8.1291.2.2 pTrackingStatus . . . 1281
8.1292 qmpack_pds_GetPortAutomaticTracking_t Struct Reference . . . 1281
8.1292.1 Detailed Description . . . 1281
8.1292.2 Field Documentation . . . 1281
8.1292.2.1 pbAuto . . . 1281
8.1293 qmpack_pds_GetServiceAutomaticTracking_t Struct Reference . . . 1281
8.1293.1 Detailed Description . . . 1281
8.1293.2 Field Documentation . . . 1282
8.1293.2.1 pbAuto . . . 1282
8.1294 qmpack_pds_GetXTRAAutomaticDownload_t Struct Reference . . . 1282
8.1294.1 Detailed Description . . . 1282
8.1294.2 Field Documentation . . . 1282
8.1294.2.1 pbEnabled . . . 1282
8.1294.2.2 pInterval . . . 1282
8.1295 qmpack_pds_GetXTRANetwork_t Struct Reference . . . 1282
8.1295.1 Detailed Description . . . 1282
8.1295.2 Field Documentation . . . 1283
8.1295.2.1 pPreference . . . 1283
8.1296 qmpack_pds_GetXTRAValidity_t Struct Reference . . . 1283
8.1296.1 Detailed Description . . . 1283
8.1296.2 Field Documentation . . . 1283
8.1296.2.1 pDuration . . . 1283
8.1296.2.2 pGPSWeek . . . 1283
8.1296.2.3 pGPSWeekOffset . . . 1283
8.1297 qmpack_pds_SetEventReport_Ind_t Struct Reference . . . 1283
8.1297.1 Detailed Description . . . 1284
8.1297.2 Field Documentation . . . 1285
8.1297.2.1 dLatitude . . . 1285
8.1297.2.2 dLongitude . . . 1285
8.1297.2.3 has_dLatitude . . . 1285
8.1297.2.4 has_dLongitude . . . 1285
8.1297.2.5 has_PositionDataNMEA . . . 1285
8.1297.2.6 has_posSrc . . . 1285
8.1297.2.7 has_SessionStatus . . . 1285
8.1297.2.8 PositionDataNMEA . . . 1285
8.1297.2.9 posSrc . . . 1285
8.1297.2.10 SessionStatus . . . 1285
8.1298 qmpack_pds_SetPdsState_Ind_t Struct Reference . . . 1285

8.1298.1 Detailed Description . . . 1285
8.1298.2 Field Documentation . . . 1286
8.1298.2.1 EnabledStatus . . . 1286
8.1298.2.2 TlvPresent . . . 1286
8.1298.2.3 TrackingStatus . . . 1286
8.1299 unpack_pds_SLQSGetAGPSConfig_t Struct Reference . . . 1286
8.1299.1 Detailed Description . . . 1286
8.1299.2 Field Documentation . . . 1287
8.1299.2.1 pServerAddress . . . 1287
8.1299.2.2 pServerPort . . . 1287
8.1299.2.3 pServerURL . . . 1287
8.1299.2.4 pServerURLLength . . . 1287
8.1300 unpack_pds_SLQSGetGPSStateInfo_t Struct Reference . . . 1287
8.1300.1 Detailed Description . . . 1287
8.1300.2 Field Documentation . . . 1290
8.1300.2.1 Altitude . . . 1290
8.1300.2.2 EngineState . . . 1290
8.1300.2.3 glo_almanac_sv_msk . . . 1290
8.1300.2.4 glo_ephemeris_sv_msk . . . 1290
8.1300.2.5 glo_health_sv_msk . . . 1290
8.1300.2.6 glo_visible_sv_msk . . . 1290
8.1300.2.7 gps_almanac_sv_msk . . . 1290
8.1300.2.8 gps_ephemeris_sv_msk . . . 1290
8.1300.2.9 gps_health_sv_msk . . . 1290
8.1300.2.10 gps_visible_sv_msk . . . 1290
8.1300.2.11 HorizontalUncertainty . . . 1290
8.1300.2.12 no_valid . . . 1290
8.1300.2.13 latitude . . . 1290
8.1300.2.14 longitude . . . 1290
8.1300.2.15 sbas_almanac_sv_msk . . . 1290
8.1300.2.16 sbas_ephemeris_sv_msk . . . 1290
8.1300.2.17 sbas_health_sv_msk . . . 1290
8.1300.2.18 sbas_visible_sv_msk . . . 1290
8.1300.2.19 time_uncert_ms . . . 1290
8.1300.2.20 TimeStmp_gps_week . . . 1290
8.1300.2.21 TimeStmp_tow_ms . . . 1290
8.1300.2.22 ValidMask . . . 1291
8.1300.2.23 VerticalUncertainty . . . 1291
8.1300.2.24 xtra_start_gps_minutes . . . 1291
8.1300.2.25 xtra_start_gps_week . . . 1291

8.1300.2.26 ra_valid_duration_hours . . . 1291
8.1301 unpack_qmi_t Struct Reference . . . 1291
8.1301.1 Detailed Description . . . 1291
8.1301.2 Field Documentation . . . 1291
8.1301.2.1 msgid . . . 1291
8.1301.2.2 type . . . 1291
8.1301.2.3 xid . . . 1291
8.1302 unpack_qos_dataRate_t Struct Reference . . . 1291
8.1302.1 Detailed Description . . . 1291
8.1302.2 Field Documentation . . . 1292
8.1302.2.1 dataRateMax . . . 1292
8.1302.2.2 guaranteedRate . . . 1292
8.1303 unpack_qos_IPv4Addr_t Struct Reference . . . 1292
8.1303.1 Detailed Description . . . 1292
8.1303.2 Field Documentation . . . 1292
8.1303.2.1 addr . . . 1292
8.1303.2.2 subnetMask . . . 1292
8.1304 unpack_qos_IPv6Addr_t Struct Reference . . . 1292
8.1304.1 Detailed Description . . . 1292
8.1304.2 Field Documentation . . . 1292
8.1304.2.1 addr . . . 1293
8.1304.2.2 prefixLen . . . 1293
8.1305 unpack_qos_IPv6TrafCls_t Struct Reference . . . 1293
8.1305.1 Detailed Description . . . 1293
8.1305.2 Field Documentation . . . 1293
8.1305.2.1 mask . . . 1293
8.1305.2.2 val . . . 1293
8.1306 unpack_qos_pktErrRate_t Struct Reference . . . 1293
8.1306.1 Detailed Description . . . 1293
8.1306.2 Field Documentation . . . 1293
8.1306.2.1 exponent . . . 1293
8.1306.2.2 multiplier . . . 1294
8.1307 unpack_qos_Port_t Struct Reference . . . 1294
8.1307.1 Detailed Description . . . 1294
8.1307.2 Field Documentation . . . 1294
8.1307.2.1 port . . . 1294
8.1307.2.2 range . . . 1294
8.1308 unpack_qos_QosFlowInfo_t Struct Reference . . . 1294
8.1308.1 Detailed Description . . . 1294
8.1308.2 Field Documentation . . . 1295

8.1308.2.1 BearerID . . . 1295
8.1308.2.2 is_RxQFlowGranted_Available . . . 1295
8.1308.2.3 is_TxQFlowGranted_Available . . . 1295
8.1308.2.4 NumRxFilters . . . 1295
8.1308.2.5 NumTxFilters . . . 1295
8.1308.2.6 QFlowState . . . 1295
8.1308.2.7 RxQFilter . . . 1295
8.1308.2.8 RxQFlowGranted . . . 1295
8.1308.2.9 TxQFilter . . . 1295
8.1308.2.10 TxQFlowGranted . . . 1295
8.1309 unpack_qos_QosFlowInfoState_t Struct Reference . . . 1296
8.1309.1 Detailed Description . . . 1296
8.1309.2 Field Documentation . . . 1296
8.1309.2.1 id . . . 1296
8.1309.2.2 isNewFlow . . . 1296
8.1309.2.3 state . . . 1296
8.1310 unpack_qos_SLQSQosGetNetworkStatus_t Struct Reference . . . 1296
8.1310.1 Detailed Description . . . 1296
8.1310.2 Field Documentation . . . 1297
8.1310.2.1 NWQoSStatus . . . 1297
8.1311 unpack_qos_SLQSQosSwiReadApnExtraParams_t Struct Reference . . . 1297
8.1311.1 Detailed Description . . . 1297
8.1311.2 Field Documentation . . . 1297
8.1311.2.1 ambr_dl . . . 1298
8.1311.2.2 ambr_dl_ext . . . 1298
8.1311.2.3 ambr_dl_ext2 . . . 1298
8.1311.2.4 ambr_ul . . . 1298
8.1311.2.5 ambr_ul_ext . . . 1298
8.1311.2.6 ambr_ul_ext2 . . . 1298
8.1311.2.7 apnId . . . 1298
8.1312 unpack_qos_SLQSQosSwiReadDataStats_t Struct Reference . . . 1298
8.1312.1 Detailed Description . . . 1298
8.1312.2 Field Documentation . . . 1299
8.1312.2.1 apnId . . . 1299
8.1312.2.2 numQosFlow . . . 1299
8.1312.2.3 qosFlow . . . 1299
8.1312.2.4 total_rx_bytes . . . 1299
8.1312.2.5 total_rx_pkt . . . 1299
8.1312.2.6 total_tx_bytes . . . 1299
8.1312.2.7 total_tx_bytes_drp . . . 1299

8.1312.2.8total_tx_pkt . . . 1299
8.1312.2.9total_tx_pkt_drp . . . 1299
8.1313nmpack_qos_SLQSSetQosEventCallback_ind_t Struct Reference . . . 1299
8.1313.1Detailed Description . . . 1299
8.1313.2Field Documentation . . . 1300
8.1313.2.1NumFlows . . . 1300
8.1313.2.2QosFlowInfo . . . 1300
8.1314nmpack_qos_SLQSSetQosNWStatusCallback_ind_t Struct Reference . . . 1300
8.1314.1Detailed Description . . . 1300
8.1314.2Field Documentation . . . 1300
8.1314.2.1status . . . 1300
8.1315nmpack_qos_SLQSSetQosPriEventCallback_ind_t Struct Reference . . . 1300
8.1315.1Detailed Description . . . 1300
8.1315.2Field Documentation . . . 1300
8.1315.2.1event . . . 1300
8.1316nmpack_qos_SLQSSetQosStatusCallback_ind_t Struct Reference . . . 1301
8.1316.1Detailed Description . . . 1301
8.1316.2Field Documentation . . . 1302
8.1316.2.1event . . . 1302
8.1316.2.2id . . . 1302
8.1316.2.3reason . . . 1302
8.1316.2.4status . . . 1302
8.1317nmpack_qos_swiQosFilter_t Struct Reference . . . 1302
8.1317.1Detailed Description . . . 1303
8.1317.2Field Documentation . . . 1304
8.1317.2.1EspSpi . . . 1304
8.1317.2.2Id . . . 1304
8.1317.2.3Index . . . 1304
8.1317.2.4IPv4DstAddr . . . 1304
8.1317.2.5IPv4SrcAddr . . . 1304
8.1317.2.6IPv4Tos . . . 1304
8.1317.2.7IPv6DstAddr . . . 1305
8.1317.2.8IPv6Label . . . 1305
8.1317.2.9IPv6SrcAddr . . . 1305
8.1317.2.10IPv6TrafCls . . . 1305
8.1317.2.11is_EspSpi_Available . . . 1305
8.1317.2.12is_Id_Available . . . 1305
8.1317.2.13is_IPv4DstAddr_Available . . . 1305
8.1317.2.14is_IPv4SrcAddr_Available . . . 1305
8.1317.2.15is_IPv4Tos_Available . . . 1305

8.1317.2.16 is_IPv6DstAddr_Available . . . 1305
8.1317.2.17 is_IPv6Label_Available . . . 1305
8.1317.2.18 is_IPv6SrcAddr_Available . . . 1305
8.1317.2.19 is_IPv6TrafCls_Available . . . 1305
8.1317.2.20 is_NxtHdrProto_Available . . . 1305
8.1317.2.21 is_Precedence_Available . . . 1305
8.1317.2.22 is_TCPDstPort_Available . . . 1305
8.1317.2.23 is_TCPSrcPort_Available . . . 1305
8.1317.2.24 is_TranDstPort_Available . . . 1305
8.1317.2.25 is_TranSrcPort_Available . . . 1305
8.1317.2.26 is_UDPDstPort_Available . . . 1305
8.1317.2.27 is_UDPSrcPort_Available . . . 1305
8.1317.2.28 NxtHdrProto . . . 1305
8.1317.2.29 Precedence . . . 1305
8.1317.2.30 TCPDstPort . . . 1305
8.1317.2.31 TCPSrcPort . . . 1305
8.1317.2.32 TranDstPort . . . 1305
8.1317.2.33 TranSrcPort . . . 1305
8.1317.2.34 UDPDstPort . . . 1305
8.1317.2.35 UDPSrcPort . . . 1306
8.1317.2.36 Version . . . 1306
8.1318 unpack_qos_swiQosFlow_t Struct Reference . . . 1306
8.1318.1 Detailed Description . . . 1306
8.1318.2 Field Documentation . . . 1308
8.1318.2.1 DataRate . . . 1308
8.1318.2.2 Index . . . 1308
8.1318.2.3 is_DataRate_Available . . . 1309
8.1318.2.4 is_Jitter_Available . . . 1309
8.1318.2.5 is_Latency_Available . . . 1309
8.1318.2.6 is_LteQci_Available . . . 1309
8.1318.2.7 is_MaxAllowedPktSz_Available . . . 1309
8.1318.2.8 is_MinPolicedPktSz_Available . . . 1309
8.1318.2.9 is_PktErrRate_Available . . . 1309
8.1318.2.10 is_ProfileId3GPP2_Available . . . 1309
8.1318.2.11 is_TokenBucket_Available . . . 1309
8.1318.2.12 is_TrafficClass_Available . . . 1309
8.1318.2.13 is_val_3GPP2Pri_Available . . . 1309
8.1318.2.14 is_val_3GPPImCn_Available . . . 1309
8.1318.2.15 is_val_3GPPResResidualBER_Available . . . 1309
8.1318.2.16 is_val_3GPPSigInd_Available . . . 1309

8.1318.2.17 is_val_3GPPTraHdlPri_Available . . . 1309
8.1318.2.18 Jitter . . . 1309
8.1318.2.19 Latency . . . 1309
8.1318.2.20 LteQci . . . 1309
8.1318.2.21 MaxAllowedPktSz . . . 1309
8.1318.2.22 MinPolicedPktSz . . . 1309
8.1318.2.23 PktErrRate . . . 1309
8.1318.2.24 ProfileId3GPP2 . . . 1309
8.1318.2.25 TokenBucket . . . 1309
8.1318.2.26 TrafficClass . . . 1309
8.1318.2.27 val_3GPP2Pri . . . 1309
8.1318.2.28 val_3GPPImCn . . . 1309
8.1318.2.29 val_3GPPResResidualBER . . . 1309
8.1318.2.30 val_3GPPSigInd . . . 1309
8.1318.2.31 val_3GPPTraHdlPri . . . 1310
8.1319 unpack_qos_tokenBucket_t Struct Reference . . . 1310
8.1319.1 Detailed Description . . . 1310
8.1319.2 Field Documentation . . . 1310
8.1319.2.1 bucketSz . . . 1310
8.1319.2.2 peakRate . . . 1310
8.1319.2.3 tokenRate . . . 1310
8.1320 unpack_qos_Tos_t Struct Reference . . . 1310
8.1320.1 Detailed Description . . . 1310
8.1320.2 Field Documentation . . . 1311
8.1320.2.1 mask . . . 1311
8.1320.2.2 val . . . 1311
8.1321 unpack_QosFlowStat_t Struct Reference . . . 1311
8.1321.1 Detailed Description . . . 1311
8.1321.2 Field Documentation . . . 1311
8.1321.2.1 bearerId . . . 1311
8.1321.2.2 tx_bytes . . . 1311
8.1321.2.3 tx_bytes_drp . . . 1311
8.1321.2.4 tx_pkt . . . 1311
8.1321.2.5 tx_pkt_drp . . . 1311
8.1322 unpack_result_t Struct Reference . . . 1311
8.1322.1 Detailed Description . . . 1312
8.1322.2 Field Documentation . . . 1312
8.1322.2.1 ParamPresenceMask . . . 1312
8.1322.2.2 Tlvresult . . . 1312
8.1323 unpack_rms_GetSMSWake_t Struct Reference . . . 1312

8.1323.1 Detailed Description . . . 1312
8.1323.2 Field Documentation . . . 1312
8.1323.2.1 enabled . . . 1312
8.1323.2.2 wake_mask . . . 1312
8.1324 unpack_RMTransferStatistics_ind_t Struct Reference . . . 1312
8.1324.1 Detailed Description . . . 1313
8.1324.2 Field Documentation . . . 1313
8.1324.2.1 RxDropConutTlv . . . 1313
8.1324.2.2 RxOkByteCountTlv . . . 1313
8.1324.2.3 RxOkConutTlv . . . 1313
8.1324.2.4 TxDropConutTlv . . . 1313
8.1324.2.5 TxOkByteCountTlv . . . 1313
8.1324.2.6 TxOkConutTlv . . . 1313
8.1325 unpack_sar_SLQSGetRfSarState_t Struct Reference . . . 1313
8.1325.1 Detailed Description . . . 1314
8.1325.2 Field Documentation . . . 1314
8.1325.2.1 pSarRFState . . . 1314
8.1326 unpack_sms_GetSMSCAddress_t Struct Reference . . . 1314
8.1326.1 Detailed Description . . . 1314
8.1326.2 Field Documentation . . . 1315
8.1326.2.1 addressSize . . . 1315
8.1326.2.2 pSMSCAddress . . . 1315
8.1326.2.3 pSMSCType . . . 1315
8.1326.2.4 typeSize . . . 1315
8.1327 unpack_sms_SaveSMS_t Struct Reference . . . 1315
8.1327.1 Detailed Description . . . 1315
8.1327.2 Field Documentation . . . 1315
8.1327.2.1 pMessageIndex . . . 1315
8.1328 unpack_sms_SendSMS_t Struct Reference . . . 1315
8.1328.1 Detailed Description . . . 1315
8.1328.2 Field Documentation . . . 1315
8.1328.2.1 messageFailureCode . . . 1316
8.1328.2.2 messageID . . . 1316
8.1329 unpack_sms_SetNewSMSCallback_ind_t Struct Reference . . . 1316
8.1329.1 Detailed Description . . . 1316
8.1329.2 Field Documentation . . . 1316
8.1329.2.1 ETWSPLMNTlv . . . 1317
8.1329.2.2 ETWSTlv . . . 1317
8.1329.2.3 IMSTlv . . . 1317
8.1329.2.4 MMTlv . . . 1317

8.1329.2.5 NewMMTlv . . . 1317
8.1329.2.6 SMSCTlv . . . 1317
8.1329.2.7 TRMessageTlv . . . 1317
8.1330 unpack_sms_SetNewSMSCallback_t Struct Reference . . . 1317
8.1330.1 Detailed Description . . . 1317
8.1331 unpack_sms_SLQSDeleteSMS_t Struct Reference . . . 1317
8.1331.1 Detailed Description . . . 1317
8.1332 unpack_sms_SLQSGetIndicationRegister_t Struct Reference . . . 1317
8.1332.1 Detailed Description . . . 1317
8.1332.2 Field Documentation . . . 1318
8.1332.2.1 pGetIndicationRegInfo . . . 1318
8.1333 unpack_sms_SLQSGetMessageWaiting_t Struct Reference . . . 1318
8.1333.1 Detailed Description . . . 1318
8.1333.2 Field Documentation . . . 1318
8.1333.2.1 pGetMsgWaitingInfoResp . . . 1318
8.1334 unpack_sms_SLQSGetSMS_t Struct Reference . . . 1318
8.1334.1 Detailed Description . . . 1318
8.1334.2 Field Documentation . . . 1319
8.1334.2.1 message . . . 1319
8.1334.2.2 messageFormat . . . 1319
8.1334.2.3 messageSize . . . 1319
8.1334.2.4 messageTag . . . 1319
8.1335 unpack_sms_SLQSGetSmsBroadcastConfig_t Struct Reference . . . 1319
8.1335.1 Detailed Description . . . 1319
8.1335.2 Field Documentation . . . 1320
8.1335.2.1 pBroadcastConfig . . . 1320
8.1335.2.2 pCDMABroadcastConfig . . . 1320
8.1336 unpack_sms_SLQSGetSMSList_t Struct Reference . . . 1320
8.1336.1 Detailed Description . . . 1320
8.1336.2 Field Documentation . . . 1320
8.1336.2.1 messageList . . . 1320
8.1336.2.2 messageListSize . . . 1320
8.1337 unpack_sms_SLQSGetTransLayerInfo_t Struct Reference . . . 1320
8.1337.1 Detailed Description . . . 1320
8.1337.2 Field Documentation . . . 1321
8.1337.2.1 pGetTransLayerInfo . . . 1321
8.1338 unpack_sms_SLQSGetTransNWRegInfo_t Struct Reference . . . 1321
8.1338.1 Detailed Description . . . 1321
8.1338.2 Field Documentation . . . 1321
8.1338.2.1 pGetTransNWRegInfo . . . 1321

8.1339 unpack_sms_SLQSModifySMSStatus_t Struct Reference . . . 1321
8.1339.1 Detailed Description . . . 1321
8.1340 unpack_sms_SLQSNWRegInfoCallback_ind_t Struct Reference . . . 1321
8.1340.1 Detailed Description . . . 1321
8.1340.2 Field Documentation . . . 1322
8.1340.2.1 NWRegStat . . . 1322
8.1341 unpack_sms_SLQSSmsGetMaxStorageSize_t Struct Reference . . . 1322
8.1341.1 Detailed Description . . . 1322
8.1341.2 Field Documentation . . . 1322
8.1341.2.1 pMaxStorageSizeResp . . . 1322
8.1342 unpack_sms_SLQSSmsGetMessageProtocol_t Struct Reference . . . 1322
8.1342.1 Detailed Description . . . 1322
8.1342.2 Field Documentation . . . 1323
8.1342.2.1 pMessageProtocol . . . 1323
8.1343 unpack_sms_SLQSSwiGetSMSStorage_t Struct Reference . . . 1323
8.1343.1 Detailed Description . . . 1323
8.1343.2 Field Documentation . . . 1323
8.1343.2.1 pSmsStorage . . . 1323
8.1344 unpack_sms_SLQSTransLayerInfoCallback_ind_t Struct Reference . . . 1323
8.1344.1 Detailed Description . . . 1323
8.1344.2 Field Documentation . . . 1324
8.1344.2.1 pTransLayerInfo . . . 1324
8.1344.2.2 regInd . . . 1324
8.1345 unpack_sms_SLQSWmsAsyncRawSendCallBack_ind_t Struct Reference . . . 1324
8.1345.1 Detailed Description . . . 1324
8.1345.2 Field Documentation . . . 1325
8.1345.2.1 alphaIDLen . . . 1325
8.1345.2.2 causeCode . . . 1325
8.1345.2.3 errorClass . . . 1325
8.1345.2.4 messageID . . . 1325
8.1345.2.5 msgDelFailureCause . . . 1325
8.1345.2.6 msgDelFailureType . . . 1326
8.1345.2.7 pAlphaID . . . 1326
8.1345.2.8 RPCause . . . 1326
8.1345.2.9 sendStatus . . . 1326
8.1345.2.10 TPCause . . . 1326
8.1345.2.11 userData . . . 1326
8.1346 unpack_sms_SLQSWmsMemoryFullCallBack_ind_t Struct Reference . . . 1326
8.1346.1 Detailed Description . . . 1326
8.1346.2 Field Documentation . . . 1326

8.1346.2.1 messageMode . . . 1326
8.1346.2.2 storageType . . . 1326
8.1347 unpack_sms_SLQSWmsMessageWaitingCallBack_ind_t Struct Reference . . . 1326
8.1347.1 Detailed Description . . . 1326
8.1347.2 Field Documentation . . . 1327
8.1347.2.1 msgWaitInfo . . . 1327
8.1347.2.2 numInstances . . . 1327
8.1348 unpack_swidms_SLQSSwiDmsGetMTU_t Struct Reference . . . 1327
8.1348.1 Detailed Description . . . 1327
8.1348.2 Field Documentation . . . 1327
8.1348.2.1 pEhrpdMTUSize . . . 1327
8.1348.2.2 pHrpdMTUSize . . . 1327
8.1348.2.3 pMTUSize3gpp . . . 1327
8.1348.2.4 pUsbMTUSize . . . 1328
8.1349 unpack_swidms_SLQSSwiDmsGetUsbNetNum_t Struct Reference . . . 1328
8.1349.1 Detailed Description . . . 1328
8.1349.2 Field Documentation . . . 1328
8.1349.2.1 usbNetNum . . . 1328
8.1350 unpack_swidms_SLQSSwiDmsSetMTU_t Struct Reference . . . 1328
8.1350.1 Detailed Description . . . 1328
8.1350.2 Field Documentation . . . 1328
8.1350.2.1 Tlvresult . . . 1328
8.1351 unpack_swiloc_SwiLocGetAutoStart_t Struct Reference . . . 1328
8.1351.1 Detailed Description . . . 1329
8.1351.2 Field Documentation . . . 1330
8.1351.2.1 fix_rate . . . 1330
8.1351.2.2 fix_rate_reported . . . 1330
8.1351.2.3 fix_type . . . 1330
8.1351.2.4 fix_type_reported . . . 1330
8.1351.2.5 function . . . 1330
8.1351.2.6 function_reported . . . 1330
8.1351.2.7 max_dist . . . 1330
8.1351.2.8 max_dist_reported . . . 1330
8.1351.2.9 max_time . . . 1330
8.1351.2.10 max_time_reported . . . 1330
8.1351.2.11 ParamPresenceMask . . . 1330
8.1352 unpack_swioma_SLQSOMADMAlertCallback_ind_t Struct Reference . . . 1330
8.1352.1 Detailed Description . . . 1330
8.1352.2 Field Documentation . . . 1331
8.1352.2.1 eventType . . . 1331

8.1352.2.2 SessionInfoConfig . . . 1331
8.1352.2.3 SessionInfoFota . . . 1331
8.1352.2.4 SessionInfoNotification . . . 1331
8.1353 unpack_swioma_SLQSOMADMGetSessionInfo_t Struct Reference . . . 1331
8.1353.1 Detailed Description . . . 1331
8.1353.2 Field Documentation . . . 1333
8.1353.2.1 Date . . . 1333
8.1353.2.2 DateLength . . . 1333
8.1353.2.3 PkgDescLength . . . 1333
8.1353.2.4 PkgDescription . . . 1333
8.1353.2.5 PkgName . . . 1333
8.1353.2.6 PkgNameLength . . . 1333
8.1353.2.7 RetryCount . . . 1333
8.1353.2.8 SessionState . . . 1333
8.1353.2.9 SessionType . . . 1333
8.1353.2.10 Severity . . . 1333
8.1353.2.11 Source . . . 1333
8.1353.2.12 SourceLength . . . 1333
8.1353.2.13 Status . . . 1334
8.1353.2.14 Time . . . 1334
8.1353.2.15 TimeLength . . . 1334
8.1353.2.16 UpdateCompleteStatus . . . 1334
8.1354 unpack_swioma_SLQSOMADMGetSettings_t Struct Reference . . . 1334
8.1354.1 Detailed Description . . . 1334
8.1354.2 Field Documentation . . . 1335
8.1354.2.1 Autosdm . . . 1335
8.1354.2.2 FOTAdownload . . . 1335
8.1354.2.3 FOTAUpdate . . . 1335
8.1354.2.4 FwAutoCheck . . . 1335
8.1354.2.5 OMADMEnabled . . . 1335
8.1355 unpack_swioma_SLQSOMADMStartSession_t Struct Reference . . . 1335
8.1355.1 Detailed Description . . . 1335
8.1355.2 Field Documentation . . . 1336
8.1355.2.1 FwAvailability . . . 1336
8.1356 unpack_uim_ChangePin_t Struct Reference . . . 1336
8.1356.1 Detailed Description . . . 1336
8.1356.2 Field Documentation . . . 1336
8.1356.2.1 pEncryptedPIN1 . . . 1336
8.1356.2.2 pIndicationToken . . . 1337
8.1356.2.3 pRemainingRetries . . . 1337

8.1356.2.4 Tlvresult . . . 1337
8.1357 unpack_uim_GetCardStatus_t Struct Reference . . . 1337
8.1357.1 Detailed Description . . . 1337
8.1357.2 Field Documentation . . . 1337
8.1357.2.1 pCardStatus . . . 1337
8.1357.2.2 pHotSwapStatus . . . 1337
8.1357.2.3 Tlvresult . . . 1337
8.1358 unpack_uim_ReadTransparent_t Struct Reference . . . 1337
8.1358.1 Detailed Description . . . 1338
8.1358.2 Field Documentation . . . 1338
8.1358.2.1 pCardResult . . . 1338
8.1358.2.2 pEncryptedData . . . 1338
8.1358.2.3 pIndicationToken . . . 1338
8.1358.2.4 pReadResult . . . 1338
8.1358.2.5 Tlvresult . . . 1338
8.1359 unpack_uim_SetPinProtection_t Struct Reference . . . 1338
8.1359.1 Detailed Description . . . 1338
8.1359.2 Field Documentation . . . 1339
8.1359.2.1 pEncryptedPIN1 . . . 1339
8.1359.2.2 pIndicationToken . . . 1339
8.1359.2.3 pRemainingRetries . . . 1339
8.1359.2.4 Tlvresult . . . 1339
8.1360 unpack_uim_SetUimSlotStatusChangeCallback_ind_t Struct Reference . . . 1339
8.1360.1 Detailed Description . . . 1339
8.1360.2 Field Documentation . . . 1339
8.1360.2.1 bNumberOfPhySlots . . . 1340
8.1360.2.2 slotsstatusChange . . . 1340
8.1361 unpack_uim_SLQSUIMAuthenticate_t Struct Reference . . . 1340
8.1361.1 Detailed Description . . . 1340
8.1361.2 Field Documentation . . . 1340
8.1361.2.1 pAuthenticateResult . . . 1340
8.1361.2.2 pCardResult . . . 1340
8.1361.2.3 pIndicationToken . . . 1340
8.1362 unpack_uim_SLQSUIMDepersonalization_t Struct Reference . . . 1340
8.1362.1 Detailed Description . . . 1340
8.1362.2 Field Documentation . . . 1341
8.1362.2.1 pRemainingRetries . . . 1341
8.1363 unpack_uim_SLQSUIMEventRegister_t Struct Reference . . . 1341
8.1363.1 Detailed Description . . . 1341
8.1363.2 Field Documentation . . . 1341

8.1363.2.1 eventMask . . . 1341
8.1364 unpack_uim_SLQSUIMGetConfiguration_t Struct Reference . . . 1341
8.1364.1 Detailed Description . . . 1341
8.1364.2 Field Documentation . . . 1342
8.1364.2.1 pAutoSelection . . . 1342
8.1364.2.2 pHaltSubscription . . . 1342
8.1364.2.3 pPersonalizationStatus . . . 1342
8.1365 unpack_uim_SLQSUIMGetFileAttributes_t Struct Reference . . . 1342
8.1365.1 Detailed Description . . . 1342
8.1365.2 Field Documentation . . . 1343
8.1365.2.1 pCardResult . . . 1343
8.1365.2.2 pFileAttributes . . . 1343
8.1365.2.3 pIndicationToken . . . 1343
8.1366 unpack_uim_SLQSUIMGetSlotsStatus_t Struct Reference . . . 1343
8.1366.1 Detailed Description . . . 1343
8.1366.2 Field Documentation . . . 1343
8.1366.2.1 pNumberOfPhySlot . . . 1343
8.1366.2.2 pUimSlotsStatus . . . 1343
8.1367 unpack_uim_SLQSUIMRefreshCallback_Ind_t Struct Reference . . . 1343
8.1367.1 Detailed Description . . . 1344
8.1367.2 Field Documentation . . . 1344
8.1367.2.1 refreshEvent . . . 1344
8.1367.2.2 TlvPresent . . . 1344
8.1368 unpack_uim_SLQSUIMRefreshGetLastEvent_t Struct Reference . . . 1344
8.1368.1 Detailed Description . . . 1344
8.1368.2 Field Documentation . . . 1344
8.1368.2.1 pRefreshEvent . . . 1344
8.1369 unpack_uim_SLQSUIMSetStatusChangeCallBack_ind_t Struct Reference . . . 1344
8.1369.1 Detailed Description . . . 1344
8.1369.2 Field Documentation . . . 1345
8.1369.2.1 pCardStatus . . . 1345
8.1370 unpack_uim_UnblockPin_t Struct Reference . . . 1345
8.1370.1 Detailed Description . . . 1345
8.1370.2 Field Documentation . . . 1345
8.1370.2.1 pEncryptedPIN1 . . . 1345
8.1370.2.2 pIndicationToken . . . 1345
8.1370.2.3 pRemainingRetries . . . 1345
8.1370.2.4 Tlvresult . . . 1345
8.1371 unpack_uim_VerifyPin_t Struct Reference . . . 1345
8.1371.1 Detailed Description . . . 1346

8.1371.2 Field Documentation . . . 1346
8.1371.2.1 pEncryptedPIN1 . . . 1346
8.1371.2.2 pIndicationToken . . . 1346
8.1371.2.3 pRemainingRetries . . . 1346
8.1371.2.4 Tlvresult . . . 1346
8.1372 unpack_voice_allCallStatusCallback_ind_t Struct Reference . . . 1346
8.1372.1 Detailed Description . . . 1347
8.1372.2 Field Documentation . . . 1349
8.1372.2.1 arrCallInfomation . . . 1349
8.1372.2.2 pArrAlertingPattern . . . 1349
8.1372.2.3 pArrAlertingType . . . 1349
8.1372.2.4 pArrAlphaID . . . 1349
8.1372.2.5 pArrCalledPartyNum . . . 1349
8.1372.2.6 pArrCallEndReason . . . 1349
8.1372.2.7 pArrConnectPartyNum . . . 1349
8.1372.2.8 pArrDiagInfo . . . 1349
8.1372.2.9 pArrRedirPartyNum . . . 1349
8.1372.2.10 pArrRemotePartyName . . . 1349
8.1372.2.11 pArrRemotePartyNum . . . 1349
8.1372.2.12 pArrSvcOption . . . 1349
8.1373 unpack_voice_DTMFEventCallback_ind_t Struct Reference . . . 1349
8.1373.1 Detailed Description . . . 1350
8.1373.2 Field Documentation . . . 1350
8.1373.2.1 DTMFInformation . . . 1350
8.1373.2.2 pOffLength . . . 1350
8.1373.2.3 pOnLength . . . 1350
8.1374 unpack_voice_OTASPStatusCallback_ind_t Struct Reference . . . 1350
8.1374.1 Detailed Description . . . 1350
8.1374.2 Field Documentation . . . 1351
8.1374.2.1 callID . . . 1351
8.1374.2.2 OTASPStatus . . . 1351
8.1375 unpack_voice_SLQSOriginateUSSD_t Struct Reference . . . 1351
8.1375.1 Detailed Description . . . 1351
8.1375.2 Field Documentation . . . 1354
8.1375.2.1 pAlphaIDInfo . . . 1354
8.1375.2.2 pCallId . . . 1354
8.1375.2.3 pCcResultType . . . 1354
8.1375.2.4 pCCSuppsType . . . 1354
8.1375.2.5 pfailureCause . . . 1354
8.1375.2.6 pUSSDInfo . . . 1354

8.1376 unpack_voice_SLQSVoiceAnswerCall_t Struct Reference . . . 1354
8.1376.1 Detailed Description . . . 1354
8.1376.2 Field Documentation . . . 1355
8.1376.2.1 pCallId . . . 1355
8.1377 unpack_voice_SLQSVoiceBurstDTMF_t Struct Reference . . . 1355
8.1377.1 Detailed Description . . . 1355
8.1377.2 Field Documentation . . . 1355
8.1377.2.1 pCallID . . . 1355
8.1378 unpack_voice_SLQSVoiceDialCall_t Struct Reference . . . 1355
8.1378.1 Detailed Description . . . 1355
8.1378.2 Field Documentation . . . 1356
8.1378.2.1 pAlphaIDInfo . . . 1356
8.1378.2.2 pCallID . . . 1356
8.1378.2.3 pCCResultType . . . 1356
8.1378.2.4 pCCSUPSType . . . 1356
8.1379 unpack_voice_SLQSVoiceEndCall_t Struct Reference . . . 1356
8.1379.1 Detailed Description . . . 1356
8.1379.2 Field Documentation . . . 1357
8.1379.2.1 pCallId . . . 1357
8.1380 unpack_voice_SLQSVoiceGetAllCallInfo_t Struct Reference . . . 1357
8.1380.1 Detailed Description . . . 1357
8.1380.2 Field Documentation . . . 1359
8.1380.2.1 pArrAlertingPattern . . . 1359
8.1380.2.2 pArrAlertingType . . . 1359
8.1380.2.3 pArrAlphaID . . . 1359
8.1380.2.4 pArrCalledPartyNum . . . 1359
8.1380.2.5 pArrCallEndReason . . . 1359
8.1380.2.6 pArrCallInfo . . . 1359
8.1380.2.7 pArrConnectPartyNum . . . 1359
8.1380.2.8 pArrDiagInfo . . . 1359
8.1380.2.9 pArrRedirPartyNum . . . 1359
8.1380.2.10 pArrRemotePartyName . . . 1359
8.1380.2.11 pArrRemotePartyNum . . . 1359
8.1380.2.12 pArrSvcOption . . . 1359
8.1380.2.13 pArrUUSInfo . . . 1359
8.1380.2.14 pOTASPStatus . . . 1359
8.1380.2.15 pVoicePrivacy . . . 1359
8.1381 unpack_voice_SLQSVoiceGetCallBarring_t Struct Reference . . . 1359
8.1381.1 Detailed Description . . . 1360
8.1381.2 Field Documentation . . . 1361

8.1381.2.1 pAlphaIDInfo . . . 1361
8.1381.2.2 pCallID . . . 1361
8.1381.2.3 pCCResType . . . 1361
8.1381.2.4 pCCSUPSType . . . 1361
8.1381.2.5 pFailCause . . . 1361
8.1381.2.6 pSvcClass . . . 1361
8.1382 unpack_voice_SLQSVoiceGetCallForwardingStatus_t Struct Reference . . . 1361
8.1382.1 Detailed Description . . . 1361
8.1382.2 Field Documentation . . . 1362
8.1382.2.1 pAlphaIDInfo . . . 1362
8.1382.2.2 pCallID . . . 1362
8.1382.2.3 pCCResType . . . 1362
8.1382.2.4 pCCSUPSType . . . 1362
8.1382.2.5 pFailCause . . . 1362
8.1382.2.6 pGetCallFWExtInfo . . . 1362
8.1382.2.7 pGetCallFWInfo . . . 1362
8.1383 unpack_voice_SLQSVoiceGetCallInfo_t Struct Reference . . . 1362
8.1383.1 Detailed Description . . . 1363
8.1383.2 Field Documentation . . . 1365
8.1383.2.1 pAlertingPattern . . . 1365
8.1383.2.2 pAlertType . . . 1365
8.1383.2.3 pAlphaIDInfo . . . 1365
8.1383.2.4 pCallInfo . . . 1365
8.1383.2.5 pConnectNumInfo . . . 1365
8.1383.2.6 pDiagInfo . . . 1365
8.1383.2.7 pOTASPStatus . . . 1365
8.1383.2.8 pRemotePartyName . . . 1365
8.1383.2.9 pRemotePartyNum . . . 1365
8.1383.2.10 pSrvOpt . . . 1365
8.1383.2.11 pUUSInfo . . . 1365
8.1383.2.12 pVoicePrivacy . . . 1365
8.1384 unpack_voice_SLQSVoiceGetCallWaiting_t Struct Reference . . . 1366
8.1384.1 Detailed Description . . . 1366
8.1384.2 Field Documentation . . . 1367
8.1384.2.1 pAlphaIDInfo . . . 1367
8.1384.2.2 pCallID . . . 1367
8.1384.2.3 pCCResType . . . 1367
8.1384.2.4 pCCSUPSType . . . 1367
8.1384.2.5 pFailCause . . . 1367
8.1384.2.6 pSvcClass . . . 1367

8.1385 unpack_voice_SLQSVoiceGetCLIP_t Struct Reference . . . 1367
8.1385.1 Detailed Description . . . 1367
8.1385.2 Field Documentation . . . 1368
8.1385.2.1 pAlphaIDInfo . . . 1368
8.1385.2.2 pCallID . . . 1368
8.1385.2.3 pCCResType . . . 1368
8.1385.2.4 pCCSUPSType . . . 1368
8.1385.2.5 pCLIPResp . . . 1368
8.1385.2.6 pFailCause . . . 1368
8.1386 unpack_voice_SLQSVoiceGetCLIR_t Struct Reference . . . 1368
8.1386.1 Detailed Description . . . 1369
8.1386.2 Field Documentation . . . 1369
8.1386.2.1 pAlphaIDInfo . . . 1369
8.1386.2.2 pCallID . . . 1369
8.1386.2.3 pCCResType . . . 1370
8.1386.2.4 pCCSUPSType . . . 1370
8.1386.2.5 pCLIRResp . . . 1370
8.1386.2.6 pFailCause . . . 1370
8.1387 unpack_voice_SLQSVoiceGetCNAP_t Struct Reference . . . 1370
8.1387.1 Detailed Description . . . 1370
8.1387.2 Field Documentation . . . 1371
8.1387.2.1 pAlphaIDInfo . . . 1371
8.1387.2.2 pCallID . . . 1371
8.1387.2.3 pCCResType . . . 1371
8.1387.2.4 pCCSUPSType . . . 1371
8.1387.2.5 pCNAPResp . . . 1371
8.1387.2.6 pFailCause . . . 1371
8.1388 unpack_voice_SLQSVoiceGetCOLP_t Struct Reference . . . 1371
8.1388.1 Detailed Description . . . 1371
8.1388.2 Field Documentation . . . 1372
8.1388.2.1 pAlphaIDInfo . . . 1372
8.1388.2.2 pCallID . . . 1372
8.1388.2.3 pCCResType . . . 1372
8.1388.2.4 pCCSUPSType . . . 1372
8.1388.2.5 pCOLPResp . . . 1372
8.1388.2.6 pFailCause . . . 1372
8.1389 unpack_voice_SLQSVoiceGetCOLR_t Struct Reference . . . 1372
8.1389.1 Detailed Description . . . 1373
8.1389.2 Field Documentation . . . 1374
8.1389.2.1 pAlphaIDInfo . . . 1374

8.1389.2.2 pCallID . . . 1374
8.1389.2.3 pCCResType . . . 1374
8.1389.2.4 pCCSUPSType . . . 1374
8.1389.2.5 pCOLRResp . . . 1374
8.1389.2.6 pFailCause . . . 1374
8.1390 unpack_voice_SLQSVoiceGetConfig_t Struct Reference . . . 1374
8.1390.1 Detailed Description . . . 1374
8.1390.2 Field Documentation . . . 1376
8.1390.2.1 pAirTimerCnt . . . 1376
8.1390.2.2 pAutoAnswerStat . . . 1376
8.1390.2.3 pCurAMRConfig . . . 1376
8.1390.2.4 pCurPrefVoiceSO . . . 1376
8.1390.2.5 pCurrTTYMode . . . 1376
8.1390.2.6 pCurVoiceDomainPref . . . 1376
8.1390.2.7 pCurVoicePrivacyPref . . . 1376
8.1390.2.8 pRoamTimerCnt . . . 1376
8.1391 unpack_voice_SLQSVoiceManageCalls_t Struct Reference . . . 1376
8.1391.1 Detailed Description . . . 1376
8.1391.2 Field Documentation . . . 1376
8.1391.2.1 pFailCause . . . 1376
8.1392 unpack_voice_SLQSVoiceSendFlash_t Struct Reference . . . 1376
8.1392.1 Detailed Description . . . 1376
8.1392.2 Field Documentation . . . 1377
8.1392.2.1 pCallID . . . 1377
8.1393 unpack_voice_SLQSVoiceSetCallBarringPassword_t Struct Reference . . . 1377
8.1393.1 Detailed Description . . . 1377
8.1393.2 Field Documentation . . . 1378
8.1393.2.1 pAlphaIDInfo . . . 1378
8.1393.2.2 pCallID . . . 1378
8.1393.2.3 pCCResType . . . 1378
8.1393.2.4 pCCSUPSType . . . 1378
8.1393.2.5 pFailCause . . . 1378
8.1394 unpack_voice_SLQSVoiceSetConfig_t Struct Reference . . . 1378
8.1394.1 Detailed Description . . . 1378
8.1394.2 Field Documentation . . . 1379
8.1394.2.1 pAirTimerStatus . . . 1379
8.1394.2.2 pAutoAnsStatus . . . 1379
8.1394.2.3 pPrefVoiceSOStatus . . . 1380
8.1394.2.4 pRoamTimerStatus . . . 1380
8.1394.2.5 pTTYConfigStatus . . . 1380

8.1394.2.6 pVoiceDomainPrefStatus . . . 1380
8.1395 unpack_voice_SLQSVoiceSetSUPSService_t Struct Reference . . . 1380
8.1395.1 Detailed Description . . . 1380
8.1395.2 Field Documentation . . . 1381
8.1395.2.1 pAlphaIDInfo . . . 1381
8.1395.2.2 pCallID . . . 1381
8.1395.2.3 pCCResultType . . . 1381
8.1395.2.4 pCCSUPSType . . . 1381
8.1395.2.5 pFailCause . . . 1381
8.1396 unpack_voice_SLQSVoiceStartContDTMF_t Struct Reference . . . 1381
8.1396.1 Detailed Description . . . 1381
8.1396.2 Field Documentation . . . 1381
8.1396.2.1 pCallID . . . 1381
8.1397 unpack_voice_SLQSVoiceStopContDTMF_t Struct Reference . . . 1381
8.1397.1 Detailed Description . . . 1382
8.1397.2 Field Documentation . . . 1382
8.1397.2.1 callID . . . 1382
8.1398 unpack_voice_SLQSVoiceSUPSCallback_ind_t Struct Reference . . . 1382
8.1398.1 Detailed Description . . . 1382
8.1398.2 Field Documentation . . . 1384
8.1398.2.1 pAlphaIDInfo . . . 1384
8.1398.2.2 pCallBarPasswd . . . 1384
8.1398.2.3 pCallFwdInfo . . . 1384
8.1398.2.4 pCallFWNum . . . 1384
8.1398.2.5 pCallFWTimerVal . . . 1384
8.1398.2.6 pCallID . . . 1384
8.1398.2.7 pCLIPstatus . . . 1384
8.1398.2.8 pCLIRstatus . . . 1384
8.1398.2.9 pCNAPstatus . . . 1384
8.1398.2.10 pCOLPstatus . . . 1384
8.1398.2.11 pCOLRstatus . . . 1384
8.1398.2.12 pDataSrc . . . 1384
8.1398.2.13 pFailCause . . . 1384
8.1398.2.14 pNewPwdData . . . 1384
8.1398.2.15 pReason . . . 1384
8.1398.2.16 pSvcClass . . . 1384
8.1398.2.17 pUSSInfo . . . 1384
8.1398.2.18 pUPSInformation . . . 1384
8.1399 unpack_voice_SUPSNotificationCallback_ind_t Struct Reference . . . 1384
8.1399.1 Detailed Description . . . 1385

8.1399.2 Field Documentation . . . 1386
8.1399.2.1 callID . . . 1386
8.1399.2.2 notifType . . . 1386
8.1399.2.3 pCUGIndex . . . 1386
8.1399.2.4 pECTNum . . . 1386
8.1400 unpack_voice_USSDNotificationCallback_ind_t Struct Reference . . . 1386
8.1400.1 Detailed Description . . . 1386
8.1400.2 Field Documentation . . . 1386
8.1400.2.1 notification_Type . . . 1386
8.1400.2.2 USSDNotificationNetworkInfo . . . 1386
8.1401 unpack_voice_VoiceInfoRecCallback_ind_t Struct Reference . . . 1386
8.1401.1 Detailed Description . . . 1387
8.1401.2 Field Documentation . . . 1388
8.1401.2.1 callID . . . 1388
8.1401.2.2 pCalledPartyInfo . . . 1388
8.1401.2.3 pCallerIDInfo . . . 1388
8.1401.2.4 pCallerNameInfo . . . 1388
8.1401.2.5 pCallingPartyInfo . . . 1388
8.1401.2.6 pCallWaitInd . . . 1388
8.1401.2.7 pCLIRCause . . . 1388
8.1401.2.8 pConnectNumInfo . . . 1388
8.1401.2.9 pDispInfo . . . 1388
8.1401.2.10 pExtDispInfo . . . 1388
8.1401.2.11 pExtDispRecInfo . . . 1388
8.1401.2.12 pLineCtrlInfo . . . 1388
8.1401.2.13 pNSSAudioCtrl . . . 1389
8.1401.2.14 pNSSRelease . . . 1389
8.1401.2.15 pRedirNumInfo . . . 1389
8.1401.2.16 pSignalInfo . . . 1389
8.1402 unpack_voice_voicePrivacyChangeCallback_ind_t Struct Reference . . . 1389
8.1402.1 Detailed Description . . . 1389
8.1402.2 Field Documentation . . . 1389
8.1402.2.1 callID . . . 1389
8.1402.2.2 voicePrivacy . . . 1389
8.1403 unpack_wds_DHCPv4ClientLease_ind_t Struct Reference . . . 1389
8.1403.1 Detailed Description . . . 1389
8.1403.2 Field Documentation . . . 1390
8.1403.2.1 DHCPv4LeaseOptTlv . . . 1390
8.1403.2.2 DHCPv4LeaseStateTlv . . . 1390
8.1403.2.3 IPv4AddrTlv . . . 1390

8.1403.2.4 ProfileIdTlv . . . 1390
8.1404 unpack_wds_GetAutoconnect_t Struct Reference . . . 1390
8.1404.1 Detailed Description . . . 1390
8.1404.2 Field Documentation . . . 1390
8.1404.2.1 psetting . . . 1390
8.1405 unpack_wds_GetByteTotals_t Struct Reference . . . 1390
8.1405.1 Detailed Description . . . 1390
8.1405.2 Field Documentation . . . 1391
8.1405.2.1 pRXTotalBytes . . . 1391
8.1405.2.2 pTXTotalBytes . . . 1391
8.1406 unpack_wds_GetConnectionRate_t Struct Reference . . . 1391
8.1406.1 Detailed Description . . . 1391
8.1406.2 Field Documentation . . . 1391
8.1406.2.1 currentChannelRXRate . . . 1391
8.1406.2.2 currentChannelTXRate . . . 1391
8.1406.2.3 maxChannelRXRate . . . 1391
8.1406.2.4 maxChannelTXRate . . . 1392
8.1407 unpack_wds_GetDataBearerTechnology_t Struct Reference . . . 1392
8.1407.1 Detailed Description . . . 1392
8.1407.2 Field Documentation . . . 1392
8.1407.2.1 pDataBearer . . . 1392
8.1408 unpack_wds_GetDefaultProfile_t Struct Reference . . . 1392
8.1408.1 Detailed Description . . . 1393
8.1408.2 Field Documentation . . . 1394
8.1408.2.1 apnname . . . 1394
8.1408.2.2 apnsize . . . 1394
8.1408.2.3 auth . . . 1394
8.1408.2.4 ipaddr . . . 1394
8.1408.2.5 ipaddrv6 . . . 1394
8.1408.2.6 name . . . 1394
8.1408.2.7 namesize . . . 1395
8.1408.2.8 pdptype . . . 1395
8.1408.2.9 pridns . . . 1395
8.1408.2.10 pridnsv6 . . . 1395
8.1408.2.11 secdns . . . 1395
8.1408.2.12 secdnsv6 . . . 1395
8.1408.2.13 username . . . 1395
8.1408.2.14 usersize . . . 1395
8.1409 unpack_wds_GetDefaultProfileNum_t Struct Reference . . . 1395
8.1409.1 Detailed Description . . . 1395

8.1409.2 Field Documentation . . . 1395
8.1409.2.1 index . . . 1395
8.1410 unpack_wds_GetDormancyState_t Struct Reference . . . 1395
8.1410.1 Detailed Description . . . 1395
8.1410.2 Field Documentation . . . 1396
8.1410.2.1 dormancyState . . . 1396
8.1411 unpack_wds_GetLastMobileIPError_t Struct Reference . . . 1396
8.1411.1 Detailed Description . . . 1396
8.1411.2 Field Documentation . . . 1396
8.1411.2.1 error . . . 1396
8.1412 unpack_wds_GetMobileIP_t Struct Reference . . . 1396
8.1412.1 Detailed Description . . . 1396
8.1412.2 Field Documentation . . . 1396
8.1412.2.1 mipMode . . . 1396
8.1413 unpack_wds_GetMobileIPProfile_t Struct Reference . . . 1397
8.1413.1 Detailed Description . . . 1397
8.1413.2 Field Documentation . . . 1398
8.1413.2.1 AAASPI . . . 1398
8.1413.2.2 AAAState . . . 1398
8.1413.2.3 address . . . 1398
8.1413.2.4 enabled . . . 1398
8.1413.2.5 HASPI . . . 1398
8.1413.2.6 HAState . . . 1398
8.1413.2.7 NAI . . . 1398
8.1413.2.8 naiSize . . . 1398
8.1413.2.9 primaryHA . . . 1398
8.1413.2.10 revTunneling . . . 1398
8.1413.2.11 secondaryHA . . . 1398
8.1414 unpack_wds_GetPacketStatistics_t Struct Reference . . . 1398
8.1414.1 Detailed Description . . . 1399
8.1414.2 Field Documentation . . . 1400
8.1414.2.1 pRXDroppedCount . . . 1400
8.1414.2.2 pRXOkBytesCount . . . 1400
8.1414.2.3 pRXOKBytesLastCall . . . 1400
8.1414.2.4 pRXPacketErrors . . . 1400
8.1414.2.5 pRXPacketOverflows . . . 1400
8.1414.2.6 pRXPacketSuccesses . . . 1400
8.1414.2.7 pTXDroppedCount . . . 1400
8.1414.2.8 pTXOkBytesCount . . . 1400
8.1414.2.9 pTXOKBytesLastCall . . . 1400

8.1414.2.10 pTXPacketErrors . . . 1400
8.1414.2.11 pTXPacketOverflows . . . 1400
8.1414.2.12 pTXPacketSuccesses . . . 1400
8.1415 unpack_wds_GetPacketStatus_t Struct Reference . . . 1400
8.1415.1 Detailed Description . . . 1401
8.1415.2 Field Documentation . . . 1402
8.1415.2.1 rXDroppedCount . . . 1402
8.1415.2.2 rXOkBytesCount . . . 1402
8.1415.2.3 rXOKBytesLastCall . . . 1402
8.1415.2.4 rXPacketErrors . . . 1402
8.1415.2.5 rXPacketOverflows . . . 1402
8.1415.2.6 rXPacketSuccesses . . . 1402
8.1415.2.7 tXDroppedCount . . . 1402
8.1415.2.8 tXOkBytesCount . . . 1402
8.1415.2.9 tXOKBytesLastCall . . . 1402
8.1415.2.10 tXPacketErrors . . . 1402
8.1415.2.11 tXPacketOverflows . . . 1402
8.1415.2.12 tXPacketSuccesses . . . 1402
8.1416 unpack_wds_GetSessionDuration_t Struct Reference . . . 1402
8.1416.1 Detailed Description . . . 1402
8.1416.2 Field Documentation . . . 1403
8.1416.2.1 callDuration . . . 1403
8.1417 unpack_wds_GetSessionState_t Struct Reference . . . 1403
8.1417.1 Detailed Description . . . 1403
8.1417.2 Field Documentation . . . 1403
8.1417.2.1 connectionStatus . . . 1403
8.1418 unpack_wds_RMSetTransferStatistics_t Struct Reference . . . 1403
8.1418.1 Detailed Description . . . 1403
8.1419 unpack_wds_SetMobileIPProfile_t Struct Reference . . . 1403
8.1419.1 Detailed Description . . . 1403
8.1420 unpack_wds_SLQSCreateProfile_t Struct Reference . . . 1404
8.1420.1 Detailed Description . . . 1404
8.1420.2 Field Documentation . . . 1404
8.1420.2.1 pCreateProfileOut . . . 1404
8.1420.2.2 pProfileID . . . 1404
8.1420.2.3 Tlvresult . . . 1404
8.1421 unpack_wds_SLQSDeleteProfile_t Struct Reference . . . 1404
8.1421.1 Detailed Description . . . 1404
8.1421.2 Field Documentation . . . 1405
8.1421.2.1 extendedErrorCode . . . 1405

8.1422 unpack_wds_SLQSDUNCallInfoCallBack_ind_t Struct Reference . . . 1405
8.1422.1 Detailed Description . . . 1405
8.1422.2 Field Documentation . . . 1406
8.1422.2.1 CRTlv . . . 1406
8.1422.2.2 CSTlv . . . 1406
8.1422.2.3 DBTTlv . . . 1406
8.1422.2.4 DSTlv . . . 1406
8.1422.2.5 LMCERTlv . . . 1406
8.1422.2.6 RXBOTlv . . . 1406
8.1422.2.7 TXBOTlv . . . 1406
8.1423 unpack_wds_SLQSGet3GPPConfigItem_t Struct Reference . . . 1406
8.1423.1 Detailed Description . . . 1406
8.1423.2 Field Documentation . . . 1407
8.1423.2.1 _3gppRelease . . . 1407
8.1423.2.2 defaultPDNEnabled . . . 1407
8.1423.2.3 LTEAttachProfile . . . 1407
8.1423.2.4 LTEAttachProfileList . . . 1407
8.1423.2.5 LTEAttachProfileListLen . . . 1408
8.1423.2.6 profileList . . . 1408
8.1424 unpack_wds_SLQSGetCurrDataSystemStat_t Struct Reference . . . 1408
8.1424.1 Detailed Description . . . 1408
8.1424.2 Field Documentation . . . 1408
8.1424.2.1 currNetworkInfo . . . 1408
8.1424.2.2 networkInfoLen . . . 1408
8.1424.2.3 prefNetwork . . . 1408
8.1425 unpack_wds_SLQSGetCurrentChannelRate_t Struct Reference . . . 1408
8.1425.1 Detailed Description . . . 1409
8.1425.2 Field Documentation . . . 1409
8.1425.2.1 current_channel_rx_rate . . . 1409
8.1425.2.2 current_channel_tx_rate . . . 1409
8.1425.2.3 max_channel_rx_rate . . . 1409
8.1425.2.4 max_channel_tx_rate . . . 1409
8.1426 unpack_wds_SLQSGetDataBearerTechnology_t Struct Reference . . . 1409
8.1426.1 Detailed Description . . . 1409
8.1426.2 Field Documentation . . . 1410
8.1426.2.1 curDataBearerTechnology . . . 1410
8.1426.2.2 dataBearerMask . . . 1410
8.1426.2.3 lastCallDataBearerTechnology . . . 1410
8.1427 unpack_wds_SLQSGetDUNCallInfo_t Struct Reference . . . 1410
8.1427.1 Detailed Description . . . 1410

8.1427.2 Field Documentation . . . 1412
8.1427.2.1 callEndReason . . . 1412
8.1427.2.2 channelRate . . . 1412
8.1427.2.3 connectionStatus . . . 1412
8.1427.2.4 dataBearerTech . . . 1413
8.1427.2.5 dormancyStatus . . . 1413
8.1427.2.6 lastCallDataBearerTech . . . 1413
8.1427.2.7 lastCallRXOKBytesCnt . . . 1413
8.1427.2.8 lastCallTXOKBytesCnt . . . 1413
8.1427.2.9 mdmCallDurationActive . . . 1413
8.1427.2.10 rxOKBytesCount . . . 1413
8.1427.2.11 txOKBytesCount . . . 1413
8.1428 unpack_wds_SLQSGetProfileSettings_t Struct Reference . . . 1413
8.1428.1 Detailed Description . . . 1413
8.1428.2 Field Documentation . . . 1413
8.1428.2.1 pProfileSettings . . . 1413
8.1428.2.2 ProfileType . . . 1413
8.1428.2.3 Tlvresult . . . 1413
8.1429 unpack_wds_SLQSGetRuntimeSettings_t Struct Reference . . . 1413
8.1429.1 Detailed Description . . . 1414
8.1429.2 Field Documentation . . . 1415
8.1429.2.1 APNName . . . 1415
8.1429.2.2 Authentication . . . 1415
8.1429.2.3 DomainList . . . 1415
8.1429.2.4 GPRSGrantedQoS . . . 1416
8.1429.2.5 GWAddressV4 . . . 1416
8.1429.2.6 IMCNflag . . . 1416
8.1429.2.7 IPFamilyPreference . . . 1416
8.1429.2.8 IPv4 . . . 1416
8.1429.2.9 IPV6AddrInfo . . . 1416
8.1429.2.10 IPV6GWAddrInfo . . . 1416
8.1429.2.11 Mtu . . . 1416
8.1429.2.12 PCSCFAddrPCO . . . 1416
8.1429.2.13 PCSCFFQDNAddrList . . . 1416
8.1429.2.14 PDPType . . . 1416
8.1429.2.15 PrimaryDNSV4 . . . 1416
8.1429.2.16 PrimaryDNSV6 . . . 1416
8.1429.2.17 ProfileID . . . 1416
8.1429.2.18 ProfileName . . . 1416
8.1429.2.19 SecondaryDNSV4 . . . 1416

8.1429.2.20 SecondaryDNSV6 . . . 1416
8.1429.2.21 ServerAddrList . . . 1416
8.1429.2.22 SubnetMaskV4 . . . 1416
8.1429.2.23 Technology . . . 1416
8.1429.2.24 UMTSGrantedQoS . . . 1416
8.1429.2.25 Username . . . 1416
8.1430 unpack_wds_SLQSModifyProfile_t Struct Reference . . . 1416
8.1430.1 Detailed Description . . . 1416
8.1430.2 Field Documentation . . . 1417
8.1430.2.1 pExtErrorCode . . . 1417
8.1431 unpack_wds_SLQSSetIPFamilyPreference_t Struct Reference . . . 1417
8.1431.1 Detailed Description . . . 1417
8.1431.2 Field Documentation . . . 1417
8.1431.2.1 Tlvresult . . . 1417
8.1432 unpack_wds_SLQSSetPacketSrvStatusCallback_t Struct Reference . . . 1417
8.1432.1 Detailed Description . . . 1417
8.1432.2 Field Documentation . . . 1419
8.1432.2.1 bearerID . . . 1419
8.1432.2.2 conn_status . . . 1419
8.1432.2.3 ipFamily . . . 1419
8.1432.2.4 reconfigReqd . . . 1419
8.1432.2.5 sessionEndReason . . . 1419
8.1432.2.6 techName . . . 1419
8.1432.2.7 verboseSessnEndReason . . . 1419
8.1432.2.8 verboseSessnEndReasonType . . . 1419
8.1433 unpack_wds_SLQSSetWdsEventCallback_ind_t Struct Reference . . . 1419
8.1433.1 Detailed Description . . . 1420
8.1433.2 Field Documentation . . . 1420
8.1433.2.1 currDBTechAvail . . . 1420
8.1433.2.2 currNWInfo . . . 1420
8.1433.2.3 dataSysStatAvail . . . 1420
8.1433.2.4 dBTechAvail . . . 1420
8.1433.2.5 dBtechExtAvail . . . 1420
8.1433.2.6 dBTechExtRatValue . . . 1420
8.1433.2.7 dBTechExtSoMask . . . 1420
8.1433.2.8 dBTechnology . . . 1420
8.1433.2.9 dBtechnologyExt . . . 1420
8.1433.2.10 dormancyStatAvail . . . 1420
8.1433.2.11 dormancyStatus . . . 1420
8.1433.2.12 ipstatAvail . . . 1420

8.1433.2.13 ipStatus . . . 1421
8.1433.2.14 netInfoLen . . . 1421
8.1433.2.15 prefNetwork . . . 1421
8.1433.2.16 statMask . . . 1421
8.1433.2.17 tx_bytes . . . 1421
8.1433.2.18 tx_pkts . . . 1421
8.1433.2.19 txMask . . . 1421
8.1433.2.20 rx_bytes . . . 1421
8.1433.2.21 rx_pkts . . . 1421
8.1433.2.22 zoneStatAvail . . . 1421
8.1434 unpack_wds_SLQSSGetDHCPv4ClientConfig_t Struct Reference . . . 1421
8.1434.1 Detailed Description . . . 1421
8.1434.2 Field Documentation . . . 1421
8.1434.2.1 pHwConfig . . . 1421
8.1434.2.2 pRequestOptionList . . . 1421
8.1435 unpack_wds_SLQSSGetLoopback_t Struct Reference . . . 1421
8.1435.1 Detailed Description . . . 1422
8.1435.2 Field Documentation . . . 1422
8.1435.2.1 ByteLoopbackMode . . . 1422
8.1435.2.2 ByteLoopbackMultiplier . . . 1422
8.1436 unpack_wds_SLQSStartDataSession_t Struct Reference . . . 1422
8.1436.1 Detailed Description . . . 1422
8.1436.2 Field Documentation . . . 1423
8.1436.2.1 pFailureReason . . . 1423
8.1436.2.2 psid . . . 1423
8.1436.2.3 pVerboseFailReasonType . . . 1423
8.1436.2.4 pVerboseFailureReason . . . 1423
8.1437 unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t Struct Reference . . . 1423
8.1437.1 Detailed Description . . . 1423
8.1437.2 Field Documentation . . . 1425
8.1437.2.1 apnName . . . 1425
8.1437.2.2 bearerId . . . 1425
8.1437.2.3 contextId . . . 1425
8.1437.2.4 ipv4Address . . . 1425
8.1437.2.5 ipv4GWAddress . . . 1425
8.1437.2.6 ipv6Address . . . 1425
8.1437.2.7 ipv6GWAddress . . . 1425
8.1437.2.8 prDNSIPv4Address . . . 1425
8.1437.2.9 prDNSIPv6Address . . . 1425
8.1437.2.10 prPCSCFIPv4Address . . . 1425

8.1437.2.1 prPCSCFIPv6Address . . . 1425
8.1437.2.1 secDNSIPv4Address . . . 1425
8.1437.2.1 secDNSIPv6Address . . . 1425
8.1437.2.1 secPCSCFIPv4Address . . . 1425
8.1437.2.1 secPCSCFIPv6Address . . . 1425
8.1438 UnPackGetProfileSettingOut Struct Reference . . . 1425
8.1438.1 Detailed Description . . . 1425
8.1438.2 Field Documentation . . . 1426
8.1438.2.1 curProfile . . . 1426
8.1438.2.2 pExtErrCode . . . 1426
8.1439 UnpackWdsProfileParam Union Reference . . . 1426
8.1439.1 Detailed Description . . . 1426
8.1439.2 Field Documentation . . . 1426
8.1439.2.1 SlqsProfile3GPP . . . 1426
8.1439.2.2 SlqsProfile3GPP2 . . . 1426
8.1440 UrlAddr Struct Reference . . . 1426
8.1440.1 Detailed Description . . . 1427
8.1440.2 Field Documentation . . . 1427
8.1440.2.1 address . . . 1427
8.1440.2.2 TlvPresent . . . 1427
8.1441 URLAddrInfo Struct Reference . . . 1427
8.1441.1 Detailed Description . . . 1427
8.1441.2 Field Documentation . . . 1427
8.1441.2.1 urlAddr . . . 1427
8.1442 USBCompConfig Struct Reference . . . 1427
8.1442.1 Detailed Description . . . 1427
8.1442.2 Field Documentation . . . 1428
8.1442.2.1 pUSBComp . . . 1428
8.1443 USBCompParams Struct Reference . . . 1428
8.1443.1 Detailed Description . . . 1428
8.1443.2 Field Documentation . . . 1430
8.1443.2.1 pNumSupUSBComps . . . 1430
8.1443.2.2 pSupUSBComps . . . 1430
8.1443.2.3 pUSBComp . . . 1430
8.1444 UsbMTUSizeTlv Struct Reference . . . 1430
8.1444.1 Detailed Description . . . 1430
8.1444.2 Field Documentation . . . 1431
8.1444.2.1 TlvPresent . . . 1431
8.1444.2.2 UsbMTUSize . . . 1431
8.1445 USSDNoWaitIndicationInfo Struct Reference . . . 1431

8.1445.1 Detailed Description . . . 1431
8.1445.2 Field Documentation . . . 1431
8.1445.2.1 pAlphaIdentifier . . . 1431
8.1445.2.2 pError . . . 1431
8.1445.2.3 pFailureCause . . . 1431
8.1445.2.4 pUSSDData . . . 1431
8.1446 USSDRespFNetwork Struct Reference . . . 1431
8.1446.1 Detailed Description . . . 1432
8.1446.2 Field Documentation . . . 1432
8.1446.2.1 pRespData . . . 1432
8.1446.2.2 pTypeCode . . . 1432
8.1447 USSInfo Struct Reference . . . 1432
8.1447.1 Detailed Description . . . 1432
8.1447.2 Field Documentation . . . 1432
8.1447.2.1 ussData . . . 1432
8.1447.2.2 ussDCS . . . 1432
8.1447.2.3 ussLen . . . 1433
8.1448 USSResp Struct Reference . . . 1433
8.1448.1 Field Documentation . . . 1433
8.1448.1.1 pAlphaIDInfo . . . 1433
8.1448.1.2 pCallId . . . 1433
8.1448.1.3 pCcResultType . . . 1433
8.1448.1.4 pCCSuppsType . . . 1433
8.1448.1.5 pfailureCause . . . 1433
8.1448.1.6 pUSSDInfo . . . 1433
8.1449 UUSInfo Struct Reference . . . 1433
8.1449.1 Detailed Description . . . 1433
8.1449.2 Field Documentation . . . 1434
8.1449.2.1 UUSData . . . 1434
8.1449.2.2 UUSDatalen . . . 1434
8.1449.2.3 UUSDcs . . . 1434
8.1449.2.4 UUSType . . . 1434
8.1450 VerifyUIMPIN Struct Reference . . . 1434
8.1450.1 Detailed Description . . . 1434
8.1450.2 Field Documentation . . . 1435
8.1450.2.1 pinID . . . 1435
8.1450.2.2 pinLen . . . 1435
8.1450.2.3 pinVal . . . 1435
8.1451 voice_airTimer Struct Reference . . . 1435
8.1451.1 Detailed Description . . . 1435

8.1451.2 Field Documentation . . . 1435
8.1451.2.1 airTimerValue . . . 1435
8.1451.2.2 namID . . . 1435
8.1452 voice_allCallsAlphaIDInfo Struct Reference . . . 1435
8.1452.1 Detailed Description . . . 1436
8.1452.2 Field Documentation . . . 1436
8.1452.2.1 AlphaIDInfo . . . 1436
8.1452.2.2 callID . . . 1436
8.1453 voice_allCallsDiagInfo Struct Reference . . . 1436
8.1453.1 Detailed Description . . . 1436
8.1453.2 Field Documentation . . . 1436
8.1453.2.1 callID . . . 1436
8.1453.2.2 DiagInfo . . . 1436
8.1454 voice_allCallsUUSInfo Struct Reference . . . 1436
8.1454.1 Detailed Description . . . 1437
8.1454.2 Field Documentation . . . 1437
8.1454.2.1 callID . . . 1437
8.1454.2.2 uusInfo . . . 1437
8.1455 voice_alphaIDInfo Struct Reference . . . 1437
8.1455.1 Detailed Description . . . 1437
8.1455.2 Field Documentation . . . 1438
8.1455.2.1 alphaDcs . . . 1438
8.1455.2.2 alphaLen . . . 1438
8.1455.2.3 alphaText . . . 1438
8.1456 voice_arrAlertingPattern Struct Reference . . . 1438
8.1456.1 Detailed Description . . . 1438
8.1456.2 Field Documentation . . . 1438
8.1456.2.1 alertingPattern . . . 1438
8.1456.2.2 callID . . . 1438
8.1456.2.3 numInstances . . . 1438
8.1457 voice_arrAlertingType Struct Reference . . . 1438
8.1457.1 Detailed Description . . . 1439
8.1457.2 Field Documentation . . . 1439
8.1457.2.1 AlertingType . . . 1439
8.1457.2.2 callID . . . 1439
8.1457.2.3 numInstances . . . 1439
8.1458 voice_arrAlphaID Struct Reference . . . 1439
8.1458.1 Detailed Description . . . 1439
8.1458.2 Field Documentation . . . 1440
8.1458.2.1 allCallsAlphaIDInfoArr . . . 1440

8.1458.2.2numInstances . . . 1440
8.1459voice_arrCalledPartyNum Struct Reference . . . 1440
8.1459.1Detailed Description . . . 1440
8.1459.2Field Documentation . . . 1440
8.1459.2.1CalledPartyNum . . . 1440
8.1459.2.2numInstances . . . 1440
8.1460voice_arrCallEndReason Struct Reference . . . 1440
8.1460.1Detailed Description . . . 1440
8.1460.2Field Documentation . . . 1441
8.1460.2.1callEndReason . . . 1441
8.1460.2.2callID . . . 1441
8.1460.2.3numInstances . . . 1441
8.1461voice_arrCallInfo Struct Reference . . . 1441
8.1461.1Detailed Description . . . 1441
8.1461.2Field Documentation . . . 1441
8.1461.2.1getAllCallInfo . . . 1441
8.1461.2.2numInstances . . . 1441
8.1462voice_arrConnectPartyNum Struct Reference . . . 1441
8.1462.1Detailed Description . . . 1442
8.1462.2Field Documentation . . . 1442
8.1462.2.1ConnectedPartyNum . . . 1442
8.1462.2.2numInstances . . . 1442
8.1463voice_arrDiagInfo Struct Reference . . . 1442
8.1463.1Detailed Description . . . 1442
8.1463.2Field Documentation . . . 1442
8.1463.2.1DiagInfo . . . 1442
8.1463.2.2numInstances . . . 1442
8.1464voice_arrRedirPartyNum Struct Reference . . . 1442
8.1464.1Detailed Description . . . 1443
8.1464.2Field Documentation . . . 1443
8.1464.2.1numInstances . . . 1443
8.1464.2.2RedirPartyNum . . . 1443
8.1465voice_arrRemotePartyName Struct Reference . . . 1443
8.1465.1Detailed Description . . . 1443
8.1465.2Field Documentation . . . 1443
8.1465.2.1GetAllCallRmtPtyName . . . 1443
8.1465.2.2numInstances . . . 1444
8.1466voice_arrRemotePartyNum Struct Reference . . . 1444
8.1466.1Detailed Description . . . 1444
8.1466.2Field Documentation . . . 1444

8.1466.2.1 numInstances . . . 1444
8.1466.2.2 RmtPtyNum . . . 1444
8.1467 voice_arrSvcOption Struct Reference . . . 1444
8.1467.1 Detailed Description . . . 1444
8.1467.2 Field Documentation . . . 1445
8.1467.2.1 callID . . . 1445
8.1467.2.2 numInstances . . . 1445
8.1467.2.3 srvOption . . . 1445
8.1468 voice_arrUUSInfo Struct Reference . . . 1445
8.1468.1 Detailed Description . . . 1445
8.1468.2 Field Documentation . . . 1445
8.1468.2.1 AllCallsUUSInfo . . . 1445
8.1468.2.2 numInstances . . . 1445
8.1469 voice_burstDTMFInfo Struct Reference . . . 1445
8.1469.1 Detailed Description . . . 1446
8.1469.2 Field Documentation . . . 1446
8.1469.2.1 digitCnt . . . 1446
8.1469.2.2 pCallID . . . 1446
8.1469.2.3 pDigitBuff . . . 1446
8.1470 voice_calledPartyInfo Struct Reference . . . 1446
8.1470.1 Detailed Description . . . 1446
8.1470.2 Field Documentation . . . 1447
8.1470.2.1 number . . . 1447
8.1470.2.2 numLen . . . 1447
8.1470.2.3 numPlan . . . 1447
8.1470.2.4 numType . . . 1448
8.1470.2.5 PI . . . 1448
8.1470.2.6 SI . . . 1448
8.1471 voice_calledPartySubAdd Struct Reference . . . 1448
8.1471.1 Detailed Description . . . 1448
8.1471.2 Field Documentation . . . 1448
8.1471.2.1 extBit . . . 1448
8.1471.2.2 oddEvenInd . . . 1448
8.1471.2.3 subAddr . . . 1448
8.1471.2.4 subAddrLen . . . 1448
8.1471.2.5 subAddrType . . . 1449
8.1472 voice_callerIDInfo Struct Reference . . . 1449
8.1472.1 Detailed Description . . . 1449
8.1472.2 Field Documentation . . . 1449
8.1472.2.1 callerID . . . 1449

8.1472.2.2 callerIDLen . . . 1449
8.1472.2.3 PI . . . 1449
8.1473 voice_callFwdTypeAndPlan Struct Reference . . . 1449
8.1473.1 Detailed Description . . . 1449
8.1473.2 Field Documentation . . . 1450
8.1473.2.1 numberPlan . . . 1450
8.1473.2.2 numberType . . . 1450
8.1474 voice_callFWExtInfo Struct Reference . . . 1450
8.1474.1 Detailed Description . . . 1450
8.1474.2 Field Documentation . . . 1452
8.1474.2.1 noReplyTimer . . . 1452
8.1474.2.2 number . . . 1452
8.1474.2.3 numLen . . . 1452
8.1474.2.4 numPlan . . . 1452
8.1474.2.5 numType . . . 1452
8.1474.2.6 PI . . . 1452
8.1474.2.7 SI . . . 1452
8.1474.2.8 SvcClass . . . 1452
8.1474.2.9 SvcStatus . . . 1452
8.1475 voice_callFWInfo Struct Reference . . . 1452
8.1475.1 Detailed Description . . . 1452
8.1475.2 Field Documentation . . . 1453
8.1475.2.1 noReplyTimer . . . 1453
8.1475.2.2 number . . . 1453
8.1475.2.3 numLen . . . 1453
8.1475.2.4 SvcClass . . . 1453
8.1475.2.5 SvcStatus . . . 1453
8.1476 voice_callInfo Struct Reference . . . 1453
8.1476.1 Detailed Description . . . 1453
8.1476.2 Field Documentation . . . 1454
8.1476.2.1 callID . . . 1454
8.1476.2.2 callState . . . 1455
8.1476.2.3 callType . . . 1455
8.1476.2.4 direction . . . 1455
8.1476.2.5 mode . . . 1455
8.1477 voice_callingPartyInfo Struct Reference . . . 1455
8.1477.1 Detailed Description . . . 1455
8.1477.2 Field Documentation . . . 1456
8.1477.2.1 number . . . 1456
8.1477.2.2 numLen . . . 1456

8.1477.2.3 numPlan . . . 1456
8.1477.2.4 numType . . . 1456
8.1477.2.5 PI . . . 1456
8.1477.2.6 SI . . . 1456
8.1478 voice_ccSUPSType Struct Reference . . . 1456
8.1478.1 Detailed Description . . . 1457
8.1478.2 Field Documentation . . . 1457
8.1478.2.1 reason . . . 1457
8.1478.2.2 svcType . . . 1457
8.1479 voice_CLIPResp Struct Reference . . . 1457
8.1479.1 Detailed Description . . . 1457
8.1479.2 Field Documentation . . . 1458
8.1479.2.1 ActiveStatus . . . 1458
8.1479.2.2 ProvisionStatus . . . 1458
8.1480 voice_CLIRResp Struct Reference . . . 1458
8.1480.1 Detailed Description . . . 1458
8.1480.2 Field Documentation . . . 1458
8.1480.2.1 ActiveStatus . . . 1458
8.1480.2.2 ProvisionStatus . . . 1458
8.1481 voice_CNAPResp Struct Reference . . . 1459
8.1481.1 Detailed Description . . . 1459
8.1481.2 Field Documentation . . . 1459
8.1481.2.1 ActiveStatus . . . 1459
8.1481.2.2 ProvisionStatus . . . 1459
8.1482 voice_COLPResp Struct Reference . . . 1459
8.1482.1 Detailed Description . . . 1459
8.1482.2 Field Documentation . . . 1460
8.1482.2.1 ActiveStatus . . . 1460
8.1482.2.2 ProvisionStatus . . . 1460
8.1483 voice_COLRResp Struct Reference . . . 1460
8.1483.1 Detailed Description . . . 1460
8.1483.2 Field Documentation . . . 1461
8.1483.2.1 ActiveStatus . . . 1461
8.1483.2.2 ProvisionStatus . . . 1461
8.1484 voice_connectNumInfo Struct Reference . . . 1461
8.1484.1 Detailed Description . . . 1461
8.1484.2 Field Documentation . . . 1462
8.1484.2.1 callerID . . . 1462
8.1484.2.2 callerIDLen . . . 1462
8.1484.2.3 numPlan . . . 1462

8.1484.2.4 numPresInd . . . 1462
8.1484.2.5 numType . . . 1462
8.1484.2.6 screeningInd . . . 1462
8.1485 voice_CUGInfo Struct Reference . . . 1462
8.1485.1 Detailed Description . . . 1463
8.1485.2 Field Documentation . . . 1463
8.1485.2.1 CUGIndex . . . 1463
8.1485.2.2 SuppOA . . . 1463
8.1485.2.3 SuppPrefCUG . . . 1463
8.1486 voice_curAMRConfig Struct Reference . . . 1463
8.1486.1 Detailed Description . . . 1463
8.1486.2 Field Documentation . . . 1464
8.1486.2.1 gsmAmrStat . . . 1464
8.1486.2.2 wcdmaAmrStat . . . 1464
8.1487 voice_diagInfo Struct Reference . . . 1464
8.1487.1 Detailed Description . . . 1464
8.1487.2 Field Documentation . . . 1464
8.1487.2.1 diagInfoLen . . . 1464
8.1487.2.2 diagnosticInfo . . . 1464
8.1488 voice_DTMFInfo Struct Reference . . . 1464
8.1488.1 Detailed Description . . . 1465
8.1488.2 Field Documentation . . . 1465
8.1488.2.1 callID . . . 1465
8.1488.2.2 digitBuff . . . 1465
8.1488.2.3 digitCnt . . . 1465
8.1488.2.4 DTMFEvent . . . 1465
8.1489 voice_DTMFLengths Struct Reference . . . 1465
8.1489.1 Detailed Description . . . 1465
8.1489.2 Field Documentation . . . 1466
8.1489.2.1 DTMFInterdigitInterval . . . 1466
8.1489.2.2 DTMFPulseWidth . . . 1466
8.1490 voice_ECTNum Struct Reference . . . 1466
8.1490.1 Detailed Description . . . 1466
8.1490.2 Field Documentation . . . 1467
8.1490.2.1 ECTCallState . . . 1467
8.1490.2.2 number . . . 1467
8.1490.2.3 presentationInd . . . 1467
8.1491 voice_extDispRecInfo Struct Reference . . . 1467
8.1491.1 Detailed Description . . . 1467
8.1491.2 Field Documentation . . . 1467

8.1491.2.1 dispType . . . 1467
8.1491.2.2 extDispInfo . . . 1467
8.1491.2.3 extDispInfoLen . . . 1467
8.1492 voice_getAllCallInformation Struct Reference . . . 1467
8.1492.1 Detailed Description . . . 1468
8.1492.2 Field Documentation . . . 1468
8.1492.2.1 ALS . . . 1468
8.1492.2.2 CallInfo . . . 1468
8.1492.2.3 isEmpty . . . 1468
8.1493 voice_getAllCallRmtPtyName Struct Reference . . . 1468
8.1493.1 Detailed Description . . . 1468
8.1493.2 Field Documentation . . . 1468
8.1493.2.1 callID . . . 1469
8.1493.2.2 RemotePartyName . . . 1469
8.1494 voice_getAllCallRmtPtyNum Struct Reference . . . 1469
8.1494.1 Detailed Description . . . 1469
8.1494.2 Field Documentation . . . 1469
8.1494.2.1 callID . . . 1469
8.1494.2.2 RemotePartyNum . . . 1469
8.1495 voice_getCallFWExtInfo Struct Reference . . . 1469
8.1495.1 Detailed Description . . . 1469
8.1495.2 Field Documentation . . . 1470
8.1495.2.1 CallFWExtInfo . . . 1470
8.1495.2.2 numInstances . . . 1470
8.1496 voice_getCallFWInfo Struct Reference . . . 1470
8.1496.1 Detailed Description . . . 1470
8.1496.2 Field Documentation . . . 1470
8.1496.2.1 CallFWInfo . . . 1470
8.1496.2.2 numInstances . . . 1470
8.1497 voice_lineCtrlInfo Struct Reference . . . 1470
8.1497.1 Detailed Description . . . 1470
8.1497.2 Field Documentation . . . 1471
8.1497.2.1 polarityIncluded . . . 1471
8.1497.2.2 pwrDenialTime . . . 1471
8.1497.2.3 revPolarity . . . 1471
8.1497.2.4 toggleMode . . . 1471
8.1498 voice_newPwdData Struct Reference . . . 1471
8.1498.1 Detailed Description . . . 1471
8.1498.2 Field Documentation . . . 1471
8.1498.2.1 newPwd . . . 1471

8.1498.2.2 newPwdAgain . . . 1471
8.1499 voice_NSSAudioCtrl Struct Reference . . . 1472
8.1499.1 Detailed Description . . . 1472
8.1499.2 Field Documentation . . . 1472
8.1499.2.1 downLink . . . 1472
8.1499.2.2 upLink . . . 1472
8.1500 voice_peerNumberInfo Struct Reference . . . 1472
8.1500.1 Detailed Description . . . 1472
8.1500.2 Field Documentation . . . 1474
8.1500.2.1 callID . . . 1474
8.1500.2.2 number . . . 1474
8.1500.2.3 numLen . . . 1474
8.1500.2.4 numPI . . . 1474
8.1500.2.5 numPlan . . . 1474
8.1500.2.6 numSI . . . 1474
8.1500.2.7 numType . . . 1474
8.1501 voice_prefVoiceSO Struct Reference . . . 1474
8.1501.1 Detailed Description . . . 1474
8.1501.2 Field Documentation . . . 1476
8.1501.2.1 evrcCapability . . . 1476
8.1501.2.2 homeOrigVoiceSO . . . 1476
8.1501.2.3 homePageVoiceSO . . . 1476
8.1501.2.4 namID . . . 1476
8.1501.2.5 roamOrigVoiceSO . . . 1476
8.1502 voice_redirNumInfo Struct Reference . . . 1476
8.1502.1 Detailed Description . . . 1476
8.1502.2 Field Documentation . . . 1477
8.1502.2.1 number . . . 1477
8.1502.2.2 numLen . . . 1477
8.1502.2.3 numPlan . . . 1477
8.1502.2.4 numType . . . 1477
8.1502.2.5 PI . . . 1477
8.1502.2.6 reason . . . 1477
8.1502.2.7 SI . . . 1477
8.1503 voice_remotePartyName Struct Reference . . . 1478
8.1503.1 Detailed Description . . . 1478
8.1503.2 Field Documentation . . . 1478
8.1503.2.1 callerName . . . 1478
8.1503.2.2 codingScheme . . . 1478
8.1503.2.3 nameLen . . . 1478

8.1503.2.4 namePI . . . 1478
8.1504 voice_remotePartyNum Struct Reference . . . 1478
8.1504.1 Detailed Description . . . 1479
8.1504.2 Field Documentation . . . 1479
8.1504.2.1 numLen . . . 1479
8.1504.2.2 presentationInd . . . 1479
8.1504.2.3 remPartyNumber . . . 1479
8.1505 voice_roamTimer Struct Reference . . . 1479
8.1505.1 Detailed Description . . . 1479
8.1505.2 Field Documentation . . . 1480
8.1505.2.1 namID . . . 1480
8.1505.2.2 roamTimerValue . . . 1480
8.1506 voice_signalInfo Struct Reference . . . 1480
8.1506.1 Detailed Description . . . 1480
8.1506.2 Field Documentation . . . 1480
8.1506.2.1 alertPitch . . . 1480
8.1506.2.2 signal . . . 1480
8.1506.2.3 signalType . . . 1480
8.1507 voice_SUPSInfo Struct Reference . . . 1481
8.1507.1 Detailed Description . . . 1481
8.1507.2 Field Documentation . . . 1481
8.1507.2.1 isModByCC . . . 1481
8.1507.2.2 svcType . . . 1481
8.1508 voice_USSDNotificationNetworkInfo Struct Reference . . . 1481
8.1508.1 Detailed Description . . . 1481
8.1508.2 Field Documentation . . . 1482
8.1508.2.1 networkInfo . . . 1482
8.1508.2.2 tlvPresent . . . 1482
8.1509 voice_USSInfo Struct Reference . . . 1482
8.1509.1 Detailed Description . . . 1482
8.1509.2 Field Documentation . . . 1482
8.1509.2.1 ussData . . . 1482
8.1509.2.2 ussDCS . . . 1482
8.1509.2.3 ussLen . . . 1482
8.1510 voice_UUSInfo Struct Reference . . . 1482
8.1510.1 Detailed Description . . . 1483
8.1510.2 Field Documentation . . . 1483
8.1510.2.1 UUSData . . . 1483
8.1510.2.2 UUSDatalen . . . 1483
8.1510.2.3 UUSDcs . . . 1483

8.1510.2.4 UUSType . . . 1483
8.1511 VoiceALSSelectLineInfo Struct Reference . . . 1484
8.1511.1 Detailed Description . . . 1484
8.1511.2 Field Documentation . . . 1484
8.1511.2.1 lineValue . . . 1484
8.1512 VoiceALSSetLineSwitchInfo Struct Reference . . . 1484
8.1512.1 Detailed Description . . . 1484
8.1512.2 Field Documentation . . . 1484
8.1512.2.1 switchOption . . . 1484
8.1513 VoiceAnswerCall Struct Reference . . . 1484
8.1513.1 Detailed Description . . . 1485
8.1513.2 Field Documentation . . . 1485
8.1513.2.1 pCallId . . . 1485
8.1514 VoiceBindSubscriptionInfo Struct Reference . . . 1485
8.1514.1 Detailed Description . . . 1485
8.1514.2 Field Documentation . . . 1485
8.1514.2.1 subsType . . . 1485
8.1515 VoiceBurstDTMFInfo Struct Reference . . . 1485
8.1515.1 Detailed Description . . . 1485
8.1515.2 Field Documentation . . . 1486
8.1515.2.1 BurstDTMFInfo . . . 1486
8.1515.2.2 pBurstDTMFLengths . . . 1486
8.1516 VoiceCallInfoReq Struct Reference . . . 1486
8.1516.1 Detailed Description . . . 1486
8.1516.2 Field Documentation . . . 1486
8.1516.2.1 callID . . . 1486
8.1517 VoiceCallInfoResp Struct Reference . . . 1486
8.1517.1 Detailed Description . . . 1486
8.1517.2 Field Documentation . . . 1488
8.1517.2.1 pAlertingPattern . . . 1488
8.1517.2.2 pAlertType . . . 1488
8.1517.2.3 pAlphaIDInfo . . . 1488
8.1517.2.4 pCallInfo . . . 1488
8.1517.2.5 pConnectNumInfo . . . 1488
8.1517.2.6 pDiagInfo . . . 1488
8.1517.2.7 pOTASPStatus . . . 1488
8.1517.2.8 pRemotePartyName . . . 1488
8.1517.2.9 pRemotePartyNum . . . 1489
8.1517.2.10 pSrvOpt . . . 1489
8.1517.2.11 pUUSInfo . . . 1489

8.1517.2.12 pVoicePrivacy . . . 1489
8.1518 VoiceCallRequestParams Struct Reference . . . 1489
8.1518.1 Detailed Description . . . 1489
8.1518.2 Field Documentation . . . 1490
8.1518.2.1 callNumber . . . 1490
8.1518.2.2 pCallPartySubAdd . . . 1490
8.1518.2.3 pCallType . . . 1490
8.1518.2.4 pCLIRType . . . 1490
8.1518.2.5 pCUGInfo . . . 1490
8.1518.2.6 pEmergencyCategory . . . 1490
8.1518.2.7 pSvcType . . . 1490
8.1518.2.8 pUUSInFo . . . 1490
8.1519 VoiceCallResponseParams Struct Reference . . . 1490
8.1519.1 Detailed Description . . . 1491
8.1519.2 Field Documentation . . . 1491
8.1519.2.1 pAlphaIDInfo . . . 1491
8.1519.2.2 pCallID . . . 1491
8.1519.2.3 pCCResultType . . . 1491
8.1519.2.4 pCCSUPSType . . . 1491
8.1520 VoiceContDTMFinfo Struct Reference . . . 1491
8.1520.1 Detailed Description . . . 1491
8.1520.2 Field Documentation . . . 1492
8.1520.2.1 DTMFdigit . . . 1492
8.1520.2.2 pCallID . . . 1492
8.1521 VoiceDTMFEventInfo Struct Reference . . . 1492
8.1521.1 Detailed Description . . . 1492
8.1521.2 Field Documentation . . . 1493
8.1521.2.1 DTMFInformation . . . 1493
8.1521.2.2 pOffLength . . . 1493
8.1521.2.3 pOnLength . . . 1493
8.1522 VoiceFlashInfo Struct Reference . . . 1493
8.1522.1 Detailed Description . . . 1493
8.1522.2 Field Documentation . . . 1493
8.1522.2.1 pCallID . . . 1493
8.1522.2.2 pFlashPayLd . . . 1493
8.1522.2.3 pFlashType . . . 1493
8.1523 VoiceGetAllCallInfo Struct Reference . . . 1493
8.1523.1 Detailed Description . . . 1494
8.1523.2 Field Documentation . . . 1496
8.1523.2.1 pArrAlertingPattern . . . 1496

8.1523.2.2 pArrAlertingType . . . 1496
8.1523.2.3 pArrAlphaID . . . 1496
8.1523.2.4 pArrCalledPartyNum . . . 1496
8.1523.2.5 pArrCallEndReason . . . 1496
8.1523.2.6 pArrCallInfo . . . 1496
8.1523.2.7 pArrConnectPartyNum . . . 1496
8.1523.2.8 pArrDiagInfo . . . 1496
8.1523.2.9 pArrRedirPartyNum . . . 1496
8.1523.2.10 pArrRemotePartyName . . . 1496
8.1523.2.11 pArrRemotePartyNum . . . 1496
8.1523.2.12 pArrSvcOption . . . 1496
8.1523.2.13 pArrUUSInfo . . . 1496
8.1523.2.14 pOTASPStatus . . . 1496
8.1523.2.15 pVoicePrivacy . . . 1496
8.1524 VoiceGetCallBarringReq Struct Reference . . . 1496
8.1524.1 Detailed Description . . . 1496
8.1524.2 Field Documentation . . . 1497
8.1524.2.1 pSvcClass . . . 1497
8.1524.2.2 reason . . . 1497
8.1525 VoiceGetCallBarringResp Struct Reference . . . 1497
8.1525.1 Detailed Description . . . 1497
8.1525.2 Field Documentation . . . 1498
8.1525.2.1 pAlphaIDInfo . . . 1498
8.1525.2.2 pCallID . . . 1498
8.1525.2.3 pCCResType . . . 1498
8.1525.2.4 pCCSUPSType . . . 1498
8.1525.2.5 pFailCause . . . 1498
8.1525.2.6 pSvcClass . . . 1498
8.1526 VoiceGetCallFWReq Struct Reference . . . 1498
8.1526.1 Detailed Description . . . 1499
8.1526.2 Field Documentation . . . 1499
8.1526.2.1 pSvcClass . . . 1499
8.1526.2.2 Reason . . . 1499
8.1527 VoiceGetCallFWResp Struct Reference . . . 1499
8.1527.1 Detailed Description . . . 1499
8.1527.2 Field Documentation . . . 1500
8.1527.2.1 pAlphaIDInfo . . . 1500
8.1527.2.2 pCallID . . . 1500
8.1527.2.3 pCCResType . . . 1500
8.1527.2.4 pCCSUPSType . . . 1500

8.1527.2.5 pFailCause . . . 1500
8.1527.2.6 pGetCallFWExtInfo . . . 1500
8.1527.2.7 pGetCallFWInfo . . . 1500
8.1528 VoiceGetCallWaitInfo Struct Reference . . . 1500
8.1528.1 Detailed Description . . . 1501
8.1528.2 Field Documentation . . . 1501
8.1528.2.1 pAlphaIDInfo . . . 1502
8.1528.2.2 pCallID . . . 1502
8.1528.2.3 pCCResType . . . 1502
8.1528.2.4 pCCSUPSType . . . 1502
8.1528.2.5 pFailCause . . . 1502
8.1528.2.6 pSvcClass . . . 1502
8.1529 VoiceGetCLIPResp Struct Reference . . . 1502
8.1529.1 Detailed Description . . . 1502
8.1529.2 Field Documentation . . . 1503
8.1529.2.1 pAlphaIDInfo . . . 1503
8.1529.2.2 pCallID . . . 1503
8.1529.2.3 pCCResType . . . 1503
8.1529.2.4 pCCSUPSType . . . 1503
8.1529.2.5 pCLIPResp . . . 1503
8.1529.2.6 pFailCause . . . 1503
8.1530 VoiceGetCLIRResp Struct Reference . . . 1503
8.1530.1 Detailed Description . . . 1503
8.1530.2 Field Documentation . . . 1504
8.1530.2.1 pAlphaIDInfo . . . 1504
8.1530.2.2 pCallID . . . 1504
8.1530.2.3 pCCResType . . . 1504
8.1530.2.4 pCCSUPSType . . . 1504
8.1530.2.5 pCLIRResp . . . 1504
8.1530.2.6 pFailCause . . . 1504
8.1531 VoiceGetCNAPResp Struct Reference . . . 1504
8.1531.1 Detailed Description . . . 1504
8.1531.2 Field Documentation . . . 1505
8.1531.2.1 pAlphaIDInfo . . . 1505
8.1531.2.2 pCallID . . . 1505
8.1531.2.3 pCCResType . . . 1505
8.1531.2.4 pCCSUPSType . . . 1505
8.1531.2.5 pCNAPResp . . . 1505
8.1531.2.6 pFailCause . . . 1505
8.1532 VoiceGetCOLPResp Struct Reference . . . 1505

8.1532.1 Detailed Description . . . 1506
8.1532.2 Field Documentation . . . 1506
8.1532.2.1 pAlphaIDInfo . . . 1506
8.1532.2.2 pCallID . . . 1507
8.1532.2.3 pCCResType . . . 1507
8.1532.2.4 pCCSUPSType . . . 1507
8.1532.2.5 pCOLPResp . . . 1507
8.1532.2.6 pFailCause . . . 1507
8.1533 VoiceGetCOLRResp Struct Reference . . . 1507
8.1533.1 Detailed Description . . . 1507
8.1533.2 Field Documentation . . . 1508
8.1533.2.1 pAlphaIDInfo . . . 1508
8.1533.2.2 pCallID . . . 1508
8.1533.2.3 pCCResType . . . 1508
8.1533.2.4 pCCSUPSType . . . 1508
8.1533.2.5 pCOLRResp . . . 1508
8.1533.2.6 pFailCause . . . 1508
8.1534 VoiceGetConfigReq Struct Reference . . . 1508
8.1534.1 Detailed Description . . . 1508
8.1534.2 Field Documentation . . . 1509
8.1534.2.1 pAirTimer . . . 1509
8.1534.2.2 pAMRStatus . . . 1509
8.1534.2.3 pAutoAnswer . . . 1509
8.1534.2.4 pNamID . . . 1509
8.1534.2.5 pPrefVoicePrivacy . . . 1509
8.1534.2.6 pPrefVoiceSO . . . 1509
8.1534.2.7 pRoamTimer . . . 1510
8.1534.2.8 pTTYMode . . . 1510
8.1534.2.9 pVoiceDomainPref . . . 1510
8.1535 VoiceGetConfigResp Struct Reference . . . 1510
8.1535.1 Detailed Description . . . 1510
8.1535.2 Field Documentation . . . 1511
8.1535.2.1 pAirTimerCnt . . . 1511
8.1535.2.2 pAutoAnswerStat . . . 1511
8.1535.2.3 pCurAMRConfig . . . 1511
8.1535.2.4 pCurPrefVoiceSO . . . 1511
8.1535.2.5 pCurrTTYMode . . . 1511
8.1535.2.6 pCurVoiceDomainPref . . . 1511
8.1535.2.7 pCurVoicePrivacyPref . . . 1511
8.1535.2.8 pRoamTimerCnt . . . 1511

8.1536 VoiceIndicationRegisterInfo Struct Reference . . . 1511
8.1536.1 Detailed Description . . . 1512
8.1536.2 Field Documentation . . . 1512
8.1536.2.1 pRegDTMFEvents . . . 1512
8.1536.2.2 pRegVoicePrivacyEvents . . . 1512
8.1536.2.3 pSuppsNotifEvents . . . 1512
8.1537 VoiceInfoRec Struct Reference . . . 1512
8.1537.1 Detailed Description . . . 1513
8.1537.2 Field Documentation . . . 1514
8.1537.2.1 callID . . . 1514
8.1537.2.2 pCalledPartyInfo . . . 1514
8.1537.2.3 pCallerIDInfo . . . 1514
8.1537.2.4 pCallerNameInfo . . . 1514
8.1537.2.5 pCallingPartyInfo . . . 1514
8.1537.2.6 pCallWaitInd . . . 1514
8.1537.2.7 pCLIRCause . . . 1514
8.1537.2.8 pConnectNumInfo . . . 1514
8.1537.2.9 pDispInfo . . . 1514
8.1537.2.10 pExtDispInfo . . . 1514
8.1537.2.11 pExtDispRecInfo . . . 1514
8.1537.2.12 pLineCtrlInfo . . . 1514
8.1537.2.13 pNSSAudioCtrl . . . 1514
8.1537.2.14 pNSSRelease . . . 1514
8.1537.2.15 pRedirNumInfo . . . 1515
8.1537.2.16 pSignalInfo . . . 1515
8.1538 VoiceManageCallsReq Struct Reference . . . 1515
8.1538.1 Detailed Description . . . 1515
8.1538.2 Field Documentation . . . 1515
8.1538.2.1 pCallID . . . 1515
8.1538.2.2 SUPSType . . . 1515
8.1539 VoiceManageCallsResp Struct Reference . . . 1515
8.1539.1 Detailed Description . . . 1516
8.1539.2 Field Documentation . . . 1516
8.1539.2.1 pFailCause . . . 1516
8.1540 VoiceOrigUSSDNoWaitInfo Struct Reference . . . 1516
8.1540.1 Detailed Description . . . 1516
8.1540.2 Field Documentation . . . 1516
8.1540.2.1 USSInformation . . . 1516
8.1541 VoiceOTASPStatusInfo Struct Reference . . . 1516
8.1541.1 Detailed Description . . . 1516

8.1541.2 Field Documentation . . . 1517
8.1541.2.1 callID . . . 1517
8.1541.2.2 OTASPStatus . . . 1517
8.1542 VoicePrivacyInfo Struct Reference . . . 1517
8.1542.1 Detailed Description . . . 1517
8.1542.2 Field Documentation . . . 1518
8.1542.2.1 callID . . . 1518
8.1542.2.2 voicePrivacy . . . 1518
8.1543 VoiceSetAllCallStatusCbkInfo Struct Reference . . . 1518
8.1543.1 Detailed Description . . . 1518
8.1543.2 Field Documentation . . . 1520
8.1543.2.1 arrCallInfomation . . . 1520
8.1543.2.2 pArrAlertingPattern . . . 1520
8.1543.2.3 pArrAlertingType . . . 1520
8.1543.2.4 pArrAlphaID . . . 1520
8.1543.2.5 pArrCalledPartyNum . . . 1520
8.1543.2.6 pArrCallEndReason . . . 1520
8.1543.2.7 pArrConnectPartyNum . . . 1520
8.1543.2.8 pArrDiagInfo . . . 1520
8.1543.2.9 pArrRedirPartyNum . . . 1520
8.1543.2.10 pArrRemotePartyName . . . 1520
8.1543.2.11 pArrRemotePartyNum . . . 1520
8.1543.2.12 pArrSvcOption . . . 1520
8.1544 VoiceSetCallBarringPwdInfo Struct Reference . . . 1520
8.1544.1 Detailed Description . . . 1520
8.1544.2 Field Documentation . . . 1521
8.1544.2.1 newPasswd . . . 1521
8.1544.2.2 newPasswdAgain . . . 1521
8.1544.2.3 oldPasswd . . . 1521
8.1544.2.4 Reason . . . 1521
8.1545 VoiceSetCallBarringPwdResp Struct Reference . . . 1521
8.1545.1 Detailed Description . . . 1522
8.1545.2 Field Documentation . . . 1522
8.1545.2.1 pAlphaIDInfo . . . 1522
8.1545.2.2 pCallID . . . 1522
8.1545.2.3 pCCResType . . . 1522
8.1545.2.4 pCCSUPSType . . . 1522
8.1545.2.5 pFailCause . . . 1522
8.1546 VoiceSetConfigReq Struct Reference . . . 1522
8.1546.1 Detailed Description . . . 1523

8.1546.2 Field Documentation . . . 1523
8.1546.2.1 pAirTimerConfig . . . 1524
8.1546.2.2 pAutoAnswer . . . 1524
8.1546.2.3 pPrefVoiceDomain . . . 1524
8.1546.2.4 pPrefVoiceSO . . . 1524
8.1546.2.5 pRoamTimerConfig . . . 1524
8.1546.2.6 pTTYMode . . . 1524
8.1547 VoiceSetConfigResp Struct Reference . . . 1524
8.1547.1 Detailed Description . . . 1524
8.1547.2 Field Documentation . . . 1525
8.1547.2.1 pAirTimerStatus . . . 1525
8.1547.2.2 pAutoAnsStatus . . . 1525
8.1547.2.3 pPrefVoiceSOStatus . . . 1525
8.1547.2.4 pRoamTimerStatus . . . 1525
8.1547.2.5 pTTYConfigStatus . . . 1525
8.1547.2.6 pVoiceDomainPrefStatus . . . 1525
8.1548 VoiceSetPrefPrivacy Struct Reference . . . 1525
8.1548.1 Detailed Description . . . 1525
8.1548.2 Field Documentation . . . 1526
8.1548.2.1 privacyPref . . . 1526
8.1549 VoiceSetSUPSServiceReq Struct Reference . . . 1526
8.1549.1 Detailed Description . . . 1526
8.1549.2 Field Documentation . . . 1528
8.1549.2.1 pCallBarringPasswd . . . 1528
8.1549.2.2 pCallForwardingNumber . . . 1528
8.1549.2.3 pCallFwdTypeAndPlan . . . 1528
8.1549.2.4 pServiceClass . . . 1528
8.1549.2.5 pTimerVal . . . 1528
8.1549.2.6 reason . . . 1528
8.1549.2.7 voiceSvc . . . 1528
8.1550 VoiceSetSUPSServiceResp Struct Reference . . . 1528
8.1550.1 Detailed Description . . . 1528
8.1550.2 Field Documentation . . . 1529
8.1550.2.1 pAlphaIDInfo . . . 1529
8.1550.2.2 pCallID . . . 1529
8.1550.2.3 pCCResultType . . . 1529
8.1550.2.4 pCCSUPSType . . . 1529
8.1550.2.5 pFailCause . . . 1529
8.1551 VoiceStopContDTMFinfo Struct Reference . . . 1529
8.1551.1 Detailed Description . . . 1529

8.1551.2 Field Documentation . . . 1530
8.1551.2.1 callID . . . 1530
8.1552 VoiceSUPSInfo Struct Reference . . . 1530
8.1552.1 Detailed Description . . . 1530
8.1552.2 Field Documentation . . . 1532
8.1552.2.1 pAlphaIDInfo . . . 1532
8.1552.2.2 pCallBarPasswd . . . 1532
8.1552.2.3 pCallFwdInfo . . . 1532
8.1552.2.4 pCallFWNum . . . 1532
8.1552.2.5 pCallFWTimerVal . . . 1532
8.1552.2.6 pCallID . . . 1532
8.1552.2.7 pCLIPstatus . . . 1532
8.1552.2.8 pCLIRstatus . . . 1532
8.1552.2.9 pCNAPstatus . . . 1532
8.1552.2.10 pCOLPstatus . . . 1532
8.1552.2.11 pCOLRstatus . . . 1532
8.1552.2.12 pDataSrc . . . 1532
8.1552.2.13 pFailCause . . . 1532
8.1552.2.14 pNewPwdData . . . 1532
8.1552.2.15 pReason . . . 1532
8.1552.2.16 pSvcClass . . . 1532
8.1552.2.17 pUSSInfo . . . 1532
8.1552.2.18 pUPSInformation . . . 1532
8.1553 VoiceSUPSNotification Struct Reference . . . 1532
8.1553.1 Detailed Description . . . 1533
8.1553.2 Field Documentation . . . 1534
8.1553.2.1 callID . . . 1534
8.1553.2.2 notifType . . . 1534
8.1553.2.3 pCUGIndex . . . 1534
8.1553.2.4 pECTNum . . . 1534
8.1554 wcdmaCellInfo Struct Reference . . . 1534
8.1554.1 Detailed Description . . . 1534
8.1554.2 Field Documentation . . . 1534
8.1554.2.1 cpich_ecno . . . 1534
8.1554.2.2 cpich_rscp . . . 1534
8.1554.2.3 psc . . . 1535
8.1554.2.4 srxlev . . . 1535
8.1555 WCDMAECIOThresh Struct Reference . . . 1535
8.1555.1 Detailed Description . . . 1535
8.1555.2 Field Documentation . . . 1535

8.1555.2.1 pWCDMAECIOThreshList . . . 1535
8.1555.2.2 WCDMAECIOThreshListLen . . . 1535
8.1556 WCDMAInfoLTENeighborCell Struct Reference . . . 1535
8.1556.1 Detailed Description . . . 1535
8.1556.2 Field Documentation . . . 1536
8.1556.2.1 UMTSLTENbrCell . . . 1536
8.1556.2.2 umtsLTENbrCellLen . . . 1536
8.1556.2.3 wcdmaRRCState . . . 1536
8.1557 WcdmaLongMsgDecodingParams Struct Reference . . . 1536
8.1557.1 Detailed Description . . . 1536
8.1557.2 Field Documentation . . . 1537
8.1557.2.1 Date . . . 1537
8.1557.2.2 pIsUDHPresent . . . 1538
8.1557.2.3 pMessage . . . 1538
8.1557.2.4 pPartNum . . . 1538
8.1557.2.5 pReferenceNum . . . 1538
8.1557.2.6 pScAddr . . . 1538
8.1557.2.7 pScAddrLength . . . 1538
8.1557.2.8 pSenderAddr . . . 1538
8.1557.2.9 pSenderAddrLength . . . 1538
8.1557.2.10 pTextMsg . . . 1538
8.1557.2.11 pTextMsgLength . . . 1538
8.1557.2.12 pTotalNum . . . 1538
8.1557.2.13 Time . . . 1538
8.1558 WcdmaMsgDecodingParams Struct Reference . . . 1538
8.1558.1 Detailed Description . . . 1538
8.1558.2 Field Documentation . . . 1539
8.1558.2.1 Date . . . 1539
8.1558.2.2 pMessage . . . 1539
8.1558.2.3 pScAddr . . . 1539
8.1558.2.4 pScAddrLength . . . 1539
8.1558.2.5 pSenderAddr . . . 1539
8.1558.2.6 pSenderAddrLength . . . 1539
8.1558.2.7 pTextMsg . . . 1539
8.1558.2.8 pTextMsgLength . . . 1539
8.1558.2.9 Time . . . 1539
8.1559 WcdmaMsgEncodingParams Struct Reference . . . 1539
8.1559.1 Detailed Description . . . 1540
8.1559.2 Field Documentation . . . 1540
8.1559.2.1 alphabet . . . 1540

8.1559.2.2 messageSize . . . 1540
8.1559.2.3 pDestAddr . . . 1540
8.1559.2.4 pPDUMessage . . . 1540
8.1559.2.5 pTextMsg . . . 1540
8.1560 WCDMARSSIThresh Struct Reference . . . 1540
8.1560.1 Detailed Description . . . 1541
8.1560.2 Field Documentation . . . 1541
8.1560.2.1 pWCDMARSSIThreshList . . . 1541
8.1560.2.2 WCDMARSSIThreshListLen . . . 1541
8.1561 WCDMASysInfo Struct Reference . . . 1541
8.1561.1 Detailed Description . . . 1541
8.1561.2 Field Documentation . . . 1544
8.1561.2.1 cellId . . . 1544
8.1561.2.2 cellIdValid . . . 1544
8.1561.2.3 hsCallStatus . . . 1544
8.1561.2.4 hsCallStatusValid . . . 1544
8.1561.2.5 hsInd . . . 1544
8.1561.2.6 hsIndValid . . . 1544
8.1561.2.7 lac . . . 1544
8.1561.2.8 lacValid . . . 1544
8.1561.2.9 MCC . . . 1544
8.1561.2.10 MNC . . . 1544
8.1561.2.11 networkIdValid . . . 1544
8.1561.2.12 psc . . . 1544
8.1561.2.13 pscValid . . . 1544
8.1561.2.14 regRejectInfoValid . . . 1544
8.1561.2.15 rejCause . . . 1544
8.1561.2.16 rejectSrvDomain . . . 1544
8.1561.2.17 sysInfoWCDMA . . . 1544
8.1562 wcdmaUARFCN Struct Reference . . . 1544
8.1562.1 Detailed Description . . . 1544
8.1562.2 Field Documentation . . . 1545
8.1562.2.1 status . . . 1545
8.1562.2.2 uarfcn . . . 1545
8.1563 wds_channelRate Struct Reference . . . 1545
8.1563.1 Detailed Description . . . 1545
8.1563.2 Field Documentation . . . 1545
8.1563.2.1 CurrChanRxRate . . . 1545
8.1563.2.2 CurrChanTxRate . . . 1545
8.1564 wds_ChannelRateTlv Struct Reference . . . 1545

8.1564.1 Detailed Description . . . 1545
8.1564.2 Field Documentation . . . 1546
8.1564.2.1 ChannelRate . . . 1546
8.1564.2.2 TlvPresent . . . 1546
8.1565 wds_ConnStatusTlv Struct Reference . . . 1546
8.1565.1 Detailed Description . . . 1546
8.1565.2 Field Documentation . . . 1546
8.1565.2.1 MDMConnStatus . . . 1546
8.1565.2.2 TlvPresent . . . 1546
8.1566 wds_currNetworkInfo Struct Reference . . . 1546
8.1566.1 Detailed Description . . . 1546
8.1566.2 Field Documentation . . . 1548
8.1566.2.1 NetworkType . . . 1548
8.1566.2.2 RATMask . . . 1548
8.1566.2.3 SOMask . . . 1548
8.1567 wds_DataBearTechTlv Struct Reference . . . 1548
8.1567.1 Detailed Description . . . 1548
8.1567.2 Field Documentation . . . 1549
8.1567.2.1 DataBearerTech . . . 1549
8.1567.2.2 TlvPresent . . . 1549
8.1568 wds_DataULongLongTlv Struct Reference . . . 1549
8.1568.1 Detailed Description . . . 1549
8.1568.2 Field Documentation . . . 1549
8.1568.2.1 TlvPresent . . . 1549
8.1568.2.2 ullData . . . 1550
8.1569 wds_DataULongTlv Struct Reference . . . 1550
8.1569.1 Detailed Description . . . 1550
8.1569.2 Field Documentation . . . 1550
8.1569.2.1 TlvPresent . . . 1550
8.1569.2.2 ulData . . . 1550
8.1570 wds_DHCPLeaseOptTlv Struct Reference . . . 1550
8.1570.1 Detailed Description . . . 1550
8.1570.2 Field Documentation . . . 1550
8.1570.2.1 numOpt . . . 1550
8.1570.2.2 optList . . . 1550
8.1570.2.3 optListData . . . 1550
8.1570.2.4 TlvPresent . . . 1551
8.1571 wds_DHCPLeaseStateTlv Struct Reference . . . 1551
8.1571.1 Detailed Description . . . 1551
8.1571.2 Field Documentation . . . 1551

8.1571.2.1leaseState . . . 1551
8.1571.2.2TlvPresent . . . 1551
8.1572wds_DHCPOpt Struct Reference . . . 1551
8.1572.1Detailed Description . . . 1551
8.1572.2Field Documentation . . . 1552
8.1572.2.1optCode . . . 1552
8.1572.2.2optValLen . . . 1552
8.1572.2.3pOptVal . . . 1552
8.1573wds_DHCPProfileIdTlv Struct Reference . . . 1552
8.1573.1Detailed Description . . . 1552
8.1573.2Field Documentation . . . 1552
8.1573.2.1profileId . . . 1552
8.1573.2.2profileType . . . 1552
8.1573.2.3TlvPresent . . . 1552
8.1574wds_DHCPv4HWConfig Struct Reference . . . 1552
8.1574.1Detailed Description . . . 1553
8.1574.2Field Documentation . . . 1553
8.1574.2.1chaddr . . . 1553
8.1574.2.2chaddrLen . . . 1553
8.1574.2.3hwType . . . 1553
8.1575wds_DHCPv4Option Struct Reference . . . 1553
8.1575.1Detailed Description . . . 1553
8.1575.2Field Documentation . . . 1553
8.1575.2.1optCode . . . 1553
8.1575.2.2optVal . . . 1554
8.1575.2.3optValLen . . . 1554
8.1576wds_DHCPv4OptionList Struct Reference . . . 1554
8.1576.1Detailed Description . . . 1554
8.1576.2Field Documentation . . . 1554
8.1576.2.1numOpt . . . 1554
8.1576.2.2pOptList . . . 1554
8.1577wds_DHCPv4ProfileId Struct Reference . . . 1554
8.1577.1Detailed Description . . . 1554
8.1577.2Field Documentation . . . 1554
8.1577.2.1profileId . . . 1555
8.1577.2.2profileType . . . 1555
8.1578wds_Domain Struct Reference . . . 1555
8.1578.1Detailed Description . . . 1555
8.1578.2Field Documentation . . . 1555
8.1578.2.1domainLen . . . 1555

8.1578.2.2 domainName . . . 1555
8.1579 wds_DomainNameList Struct Reference . . . 1555
8.1579.1 Detailed Description . . . 1555
8.1579.2 Field Documentation . . . 1556
8.1579.2.1 domain . . . 1556
8.1579.2.2 numInstances . . . 1556
8.1580 wds_DormStatTlv Struct Reference . . . 1556
8.1580.1 Detailed Description . . . 1556
8.1580.2 Field Documentation . . . 1556
8.1580.2.1 DormancyStat . . . 1556
8.1580.2.2 TlvPresent . . . 1556
8.1581 wds_GPRSQoS Struct Reference . . . 1556
8.1581.1 Detailed Description . . . 1556
8.1581.2 Field Documentation . . . 1557
8.1581.2.1 delayClass . . . 1557
8.1581.2.2 meanThroughputClass . . . 1557
8.1581.2.3 peakThroughputClass . . . 1557
8.1581.2.4 precedenceClass . . . 1557
8.1581.2.5 reliabilityClass . . . 1557
8.1582 wds_IPv4AdTlv Struct Reference . . . 1557
8.1582.1 Detailed Description . . . 1557
8.1582.2 Field Documentation . . . 1557
8.1582.2.1 IPv4Addr . . . 1557
8.1582.2.2 TlvPresent . . . 1557
8.1583 wds_IPV6AddressInfo Struct Reference . . . 1558
8.1583.1 Detailed Description . . . 1558
8.1583.2 Field Documentation . . . 1558
8.1583.2.1 IPAddressV6 . . . 1558
8.1583.2.2 IPV6PrefixLen . . . 1558
8.1584 wds_IPV6GWAddressInfo Struct Reference . . . 1558
8.1584.1 Detailed Description . . . 1558
8.1584.2 Field Documentation . . . 1559
8.1584.2.1 gwAddressV6 . . . 1559
8.1584.2.2 gwV6PrefixLen . . . 1559
8.1585 wds_LastMdmCallEndRsnTlv Struct Reference . . . 1559
8.1585.1 Detailed Description . . . 1559
8.1585.2 Field Documentation . . . 1559
8.1585.2.1 CallEndReason . . . 1559
8.1585.2.2 TlvPresent . . . 1559
8.1586 wds_PCSCFFQDNAddress Struct Reference . . . 1559

8.1586.1 Detailed Description . . . 1559
8.1586.2 Field Documentation . . . 1560
8.1586.2.1 fqdnAddr . . . 1560
8.1586.2.2 fqdnLen . . . 1560
8.1587 wds_PCSCFFQDNAddressList Struct Reference . . . 1560
8.1587.1 Detailed Description . . . 1560
8.1587.2 Field Documentation . . . 1560
8.1587.2.1 numInstances . . . 1560
8.1587.2.2 pcsfFQDNAddress . . . 1560
8.1588 wds_PCSCFIPv4ServerAddressList Struct Reference . . . 1560
8.1588.1 Detailed Description . . . 1560
8.1588.2 Field Documentation . . . 1561
8.1588.2.1 numInstances . . . 1561
8.1588.2.2 pscsfIPv4Addr . . . 1561
8.1589 wds_ProfileIdentifier Struct Reference . . . 1561
8.1589.1 Detailed Description . . . 1561
8.1589.2 Field Documentation . . . 1561
8.1589.2.1 profileIndex . . . 1561
8.1589.2.2 profileType . . . 1561
8.1590 wds_profileInfo Union Reference . . . 1561
8.1590.1 Detailed Description . . . 1561
8.1590.2 Field Documentation . . . 1562
8.1590.2.1 3lqsProfile3GPP . . . 1562
8.1590.2.2 3lqsProfile3GPP2 . . . 1562
8.1591 wds_RXBytesOKTlv Struct Reference . . . 1562
8.1591.1 Detailed Description . . . 1562
8.1591.2 Field Documentation . . . 1562
8.1591.2.1 RxByteOKCnt . . . 1562
8.1591.2.2 TlvPresent . . . 1562
8.1592 wds_transferStatInd Struct Reference . . . 1562
8.1592.1 Detailed Description . . . 1562
8.1592.2 Field Documentation . . . 1563
8.1592.2.1 StatsMask . . . 1563
8.1592.2.2 StatsPeriod . . . 1563
8.1593 wds_TrStatInd Struct Reference . . . 1563
8.1593.1 Detailed Description . . . 1563
8.1593.2 Field Documentation . . . 1563
8.1593.2.1 statsMask . . . 1563
8.1593.2.2 statsPeriod . . . 1563
8.1594 wds_TXBytesOKTlv Struct Reference . . . 1564

8.1594.1 Detailed Description . . . 1564
8.1594.2 Field Documentation . . . 1564
8.1594.2.1 TlvPresent . . . 1564
8.1594.2.2 TxByteOKCnt . . . 1564
8.1595 wds_UMTSMinQoS Struct Reference . . . 1564
8.1595.1 Detailed Description . . . 1564
8.1595.2 Field Documentation . . . 1566
8.1595.2.1 deliveryErrSDU . . . 1566
8.1595.2.2 grntDownlinkBitrate . . . 1566
8.1595.2.3 grntUplinkBitrate . . . 1566
8.1595.2.4 maxDownlinkBitrate . . . 1566
8.1595.2.5 maxSDUSize . . . 1566
8.1595.2.6 maxUplinkBitrate . . . 1566
8.1595.2.7 qosDeliveryOrder . . . 1566
8.1595.2.8 resBerRatio . . . 1566
8.1595.2.9 sduErrorRatio . . . 1566
8.1595.2.10 trafficClass . . . 1566
8.1595.2.11 trafficPriority . . . 1566
8.1595.2.12 transferDelay . . . 1566
8.1596 WdsByteTotals Struct Reference . . . 1566
8.1596.1 Detailed Description . . . 1567
8.1596.2 Field Documentation . . . 1567
8.1596.2.1 ByteTotalsElmntsV4 . . . 1567
8.1596.2.2 ByteTotalsElmntsV6 . . . 1567
8.1596.2.3 pV4sessionId . . . 1567
8.1596.2.4 pV6sessionId . . . 1567
8.1597 WdsByteTotalsElmnts Struct Reference . . . 1567
8.1597.1 Detailed Description . . . 1567
8.1597.2 Field Documentation . . . 1568
8.1597.2.1 pRXTotalBytes . . . 1568
8.1597.2.2 pTXTotalBytes . . . 1568
8.1598 WdsClientLeaseChange Struct Reference . . . 1568
8.1598.1 Detailed Description . . . 1568
8.1598.2 Field Documentation . . . 1568
8.1598.2.1 pEnableNotification . . . 1568
8.1599 WdsConnectionRate Struct Reference . . . 1568
8.1599.1 Detailed Description . . . 1568
8.1599.2 Field Documentation . . . 1569
8.1599.2.1 ConnRateElmntsV4 . . . 1569
8.1599.2.2 ConnRateElmntsV6 . . . 1569

8.1599.2.3 pV4sessionId . . . 1569
8.1599.2.4 pV6sessionId . . . 1569
8.1600 WdsConnectionRateElmnts Struct Reference . . . 1569
8.1600.1 Detailed Description . . . 1569
8.1600.2 Field Documentation . . . 1570
8.1600.2.1 pCurrentChannelRXRate . . . 1570
8.1600.2.2 pCurrentChannelTXRate . . . 1570
8.1600.2.3 pMaxChannelRXRate . . . 1570
8.1600.2.4 pMaxChannelTXRate . . . 1570
8.1601 WdsDHCPv4ClientLeaseInd Struct Reference . . . 1570
8.1601.1 Detailed Description . . . 1570
8.1601.2 Field Documentation . . . 1570
8.1601.2.1 pIPv4Addr . . . 1570
8.1601.2.2 pLeaseState . . . 1570
8.1601.2.3 pOptList . . . 1571
8.1601.2.4 pProfileId . . . 1571
8.1602 WdsDHCPv4Config Struct Reference . . . 1571
8.1602.1 Detailed Description . . . 1571
8.1602.2 Field Documentation . . . 1571
8.1602.2.1 pHwConfig . . . 1571
8.1602.2.2 pProfileId . . . 1571
8.1602.2.3 pRequestOptionList . . . 1571
8.1603 WdsDHCPv4HWConfig Struct Reference . . . 1571
8.1603.1 Detailed Description . . . 1571
8.1603.2 Field Documentation . . . 1572
8.1603.2.1 chaddr . . . 1572
8.1603.2.2 chaddrLen . . . 1572
8.1603.2.3 hwType . . . 1572
8.1604 wdsDhcpv4HwConfig Struct Reference . . . 1572
8.1604.1 Detailed Description . . . 1572
8.1604.2 Field Documentation . . . 1572
8.1604.2.1 chaddr . . . 1572
8.1604.2.2 chaddrLen . . . 1572
8.1604.2.3 hwType . . . 1572
8.1605 WdsDHCPv4Option Struct Reference . . . 1572
8.1605.1 Detailed Description . . . 1573
8.1605.2 Field Documentation . . . 1573
8.1605.2.1 optCode . . . 1573
8.1605.2.2 optVal . . . 1573
8.1605.2.3 optValLen . . . 1573

8.1606 WdsDhcpv4Option Struct Reference . . . 1573
8.1606.1 Detailed Description . . . 1573
8.1606.2 Field Documentation . . . 1573
8.1606.2.1 optCode . . . 1574
8.1606.2.2 optVal . . . 1574
8.1606.2.3 optValLen . . . 1574
8.1607 WdsDHCPv4OptionList Struct Reference . . . 1574
8.1607.1 Detailed Description . . . 1574
8.1607.2 Field Documentation . . . 1574
8.1607.2.1 numOpt . . . 1574
8.1607.2.2 pOptList . . . 1574
8.1608 WdsDhcpv4OptionList Struct Reference . . . 1574
8.1608.1 Detailed Description . . . 1574
8.1608.2 Field Documentation . . . 1575
8.1608.2.1 numOpt . . . 1575
8.1608.2.2 pOptList . . . 1575
8.1609 WdsDhcpv4ProfileId Struct Reference . . . 1575
8.1609.1 Detailed Description . . . 1575
8.1609.2 Field Documentation . . . 1575
8.1609.2.1 profileId . . . 1575
8.1609.2.2 profileType . . . 1575
8.1610 WdsDHCPv4ProfileId Struct Reference . . . 1575
8.1610.1 Detailed Description . . . 1575
8.1610.2 Field Documentation . . . 1576
8.1610.2.1 profileId . . . 1576
8.1610.2.2 profileType . . . 1576
8.1611 WDSGetLoopbackData Struct Reference . . . 1576
8.1611.1 Detailed Description . . . 1576
8.1611.2 Field Documentation . . . 1576
8.1611.2.1 ByteLoopbackMode . . . 1576
8.1611.2.2 ByteLoopbackMultiplier . . . 1576
8.1612 WdsIpAddressInfoReq Struct Reference . . . 1576
8.1612.1 Detailed Description . . . 1577
8.1612.2 Field Documentation . . . 1577
8.1612.2.1 ip . . . 1577
8.1612.2.2 pv4sessionId . . . 1577
8.1612.2.3 pv6sessionId . . . 1577
8.1613 WdsPktStatisticsElmnts Struct Reference . . . 1577
8.1613.1 Detailed Description . . . 1577
8.1613.2 Field Documentation . . . 1578

8.1613.2.1 pRXDroppedCount . . . 1578
8.1613.2.2 pRXOkBytesCount . . . 1578
8.1613.2.3 pRXOKBytesLastCall . . . 1578
8.1613.2.4 pRXPacketErrors . . . 1578
8.1613.2.5 pRXPacketOverflows . . . 1578
8.1613.2.6 pRXPacketSuccesses . . . 1579
8.1613.2.7 pTXDroppedCount . . . 1579
8.1613.2.8 pTXOkBytesCount . . . 1579
8.1613.2.9 pTXOKBytesLastCall . . . 1579
8.1613.2.10 pTXPacketErrors . . . 1579
8.1613.2.11 pTXPacketOverflows . . . 1579
8.1613.2.12 pTXPacketSuccesses . . . 1579
8.1614 WdsPktStatisticsReq Struct Reference . . . 1579
8.1614.1 Detailed Description . . . 1579
8.1614.2 Field Documentation . . . 1579
8.1614.2.1 pStatMask . . . 1579
8.1615 WdsPktStatisticsResp Struct Reference . . . 1579
8.1615.1 Detailed Description . . . 1579
8.1615.2 Field Documentation . . . 1580
8.1615.2.1 PktStatElmntsV4 . . . 1580
8.1615.2.2 PktStatElmntsV6 . . . 1580
8.1615.2.3 pV4sessionId . . . 1580
8.1615.2.4 pV6sessionId . . . 1580
8.1616 WdsProfileParam Union Reference . . . 1580
8.1616.1 Detailed Description . . . 1580
8.1616.2 Field Documentation . . . 1580
8.1616.2.1 SlqsProfile3GPP . . . 1581
8.1616.2.2 SlqsProfile3GPP2 . . . 1581
8.1617 WdsRunTimeSettings Struct Reference . . . 1581
8.1617.1 Detailed Description . . . 1581
8.1617.2 Field Documentation . . . 1581
8.1617.2.1 rts . . . 1581
8.1617.2.2 v4sessionId . . . 1581
8.1617.2.3 v6sessionId . . . 1581
8.1618 WdsSetEventReportReq Struct Reference . . . 1581
8.1618.1 Detailed Description . . . 1582
8.1618.2 Field Documentation . . . 1583
8.1618.2.1 pCurrChannelRateInd . . . 1583
8.1618.2.2 pCurrDataBearerTechInd . . . 1583
8.1618.2.3 pCurrPrefDataSysInd . . . 1583

8.1618.2.4 pDataBearerTechInd . . . 1583
8.1618.2.5 pDataCallStatusChangeInd . . . 1583
8.1618.2.6 pDataSystemStatusChangeInd . . . 1583
8.1618.2.7 pDormancyStatusInd . . . 1583
8.1618.2.8 pEVDOPageMonPerChangeInd . . . 1583
8.1618.2.9 pMIPStatusInd . . . 1583
8.1618.2.10 pTransferStatInd . . . 1583
8.1619 WDSSetLoopbackData Struct Reference . . . 1583
8.1619.1 Detailed Description . . . 1583
8.1619.2 Field Documentation . . . 1584
8.1619.2.1 pLoopbackMode . . . 1584
8.1619.2.2 pLoopbackMultiplier . . . 1584
8.1620 WDSSWICurrentChannelRates Struct Reference . . . 1584
8.1620.1 Detailed Description . . . 1584
8.1620.2 Field Documentation . . . 1584
8.1620.2.1 current_channel_rx_rate . . . 1584
8.1620.2.2 current_channel_tx_rate . . . 1584
8.1620.2.3 max_channel_rx_rate . . . 1584
8.1620.2.4 max_channel_tx_rate . . . 1584

9 File Documentation **1585**
9.1 apdoxypages.c File Reference . . . 1585
9.1.1 Detailed Description . . . 1585
9.2 common.h File Reference . . . 1585
9.2.1 Macro Definition Documentation . . . 1587
9.2.1.1 DEAULT_LOC_TIMEOUT_IN_SEC . . . 1587
9.2.1.2 MINREQBKLEN . . . 1587
9.2.1.3 MSGID_AND_LEN . . . 1587
9.2.1.4 MSGID_DONT_CARE . . . 1587
9.2.1.5 SDK_VALIDATE_INPUT_PACK_PARAM . . . 1587
9.2.1.6 SDK_VALIDATE_INPUT_PACK_PARAM_AND_FILL_XID . . . 1587
9.2.1.7 SDK_VALIDATE_INPUT_UNPACK_PARAM . . . 1588
9.2.1.8 SDU_HDR_LEN . . . 1588
9.2.1.9 UNUSEDPARAM . . . 1588
9.2.2 Typedef Documentation . . . 1588
9.2.2.1 logger . . . 1588
9.2.3 Enumeration Type Documentation . . . 1588
9.2.3.1 eLOG_LEVEL . . . 1588
9.2.3.2 eQMI_SVC . . . 1588
9.2.3.3 eTimeout . . . 1589

9.2.3.4 msgtype . . . 1589
9.2.4 Function Documentation . . . 1589
9.2.4.1 fill_pack_ctx . . . 1589
9.2.4.2 fill_sdu_hdr . . . 1589
9.2.4.3 get_version . . . 1589
9.2.4.4 helper_get_error_code . . . 1590
9.2.4.5 helper_get_error_reason . . . 1590
9.2.4.6 helper_get_req_str . . . 1590
9.2.4.7 helper_get_resp_ctx . . . 1590
9.2.4.8 helper_get_xid . . . 1590
9.2.4.9 helper_set_log_func . . . 1590
9.2.4.10 helper_set_log_lvl . . . 1590
9.2.4.11 liteqmi_GetVersion . . . 1590
9.2.4.12 liteqmi_helper_decode7bitAsciiEncString . . . 1590
9.2.4.13 liteqmi_log . . . 1591
9.2.4.14 unpack_result_code_only . . . 1591
9.2.5 Variable Documentation . . . 1591
9.2.5.1 glog . . . 1591
9.2.5.2 gloglvl . . . 1591
9.3 dms.h File Reference . . . 1591
9.3.1 Macro Definition Documentation . . . 1598
9.3.1.1 ACT_CODE_MAX_SIZE . . . 1598
9.3.1.2 CK_MAX_SIZE . . . 1598
9.3.1.3 DMS_IMGDETAILS_LEN . . . 1598
9.3.1.4 DMS_MAX_CUST_ID_LEN . . . 1598
9.3.1.5 DMS_MAX_CUST_VALUE_LEN . . . 1598
9.3.1.6 DMS_MAX_FWUPDATE_LOG_STR_SZ . . . 1598
9.3.1.7 DMS_MAX_FWUPDATE_REF_STR_SZ . . . 1598
9.3.1.8 DMS_MAX_RADIO_IFCS_SIZE . . . 1598
9.3.1.9 DMS_PM_FACTORY . . . 1598
9.3.1.10 DMS_PM_LOW . . . 1598
9.3.1.11 DMS_PM_OFFLINE . . . 1598
9.3.1.12 DMS_PM_ONLINE . . . 1598
9.3.1.13 DMS_PM_PERSISTENT_LOW . . . 1599
9.3.1.14 DMS_PM_RESET . . . 1599
9.3.1.15 DMS_PM_SHUT_DOWN . . . 1599
9.3.1.16 DMS_SET_REG_IND_DISABLE . . . 1599
9.3.1.17 DMS_SET_REG_IND_ENABLE . . . 1599
9.3.1.18 DMS_SET_REG_IND_NO_CHANGE . . . 1599
9.3.1.19 DMS_SET_REPORT_DISABLE . . . 1599

9.3.1.20 DMS_SET_REPORT_ENABLE . . . 1599
9.3.1.21 DMS_SLQSFWINFO_APPVERSION_SZ . . . 1599
9.3.1.22 DMS_SLQSFWINFO_BOOTVERSION_SZ . . . 1599
9.3.1.23 DMS_SLQSFWINFO_CARRIER_SZ . . . 1599
9.3.1.24 DMS_SLQSFWINFO_CUR_CARR_NAME . . . 1599
9.3.1.25 DMS_SLQSFWINFO_CUR_CARR_REV . . . 1599
9.3.1.26 DMS_SLQSFWINFO_MODELID_SZ . . . 1599
9.3.1.27 DMS_SLQSFWINFO_PACKAGEID_SZ . . . 1599
9.3.1.28 DMS_SLQSFWINFO_PRIVERSION_SZ . . . 1599
9.3.1.29 DMS_SLQSFWINFO_SKU_SZ . . . 1599
9.3.1.30 DMS_SWI_SET_IND_DISABLE . . . 1599
9.3.1.31 DMS_SWI_SET_IND_ENABLE . . . 1599
9.3.1.32 DMS_UINT8_MAX_STRING_SZ . . . 1599
9.3.1.33 DMS_VALID_FSN_LEN . . . 1599
9.3.1.34 ERI_DATA_MAX_SIZE . . . 1599
9.3.1.35 MAX_BUILD_ID_LEN . . . 1599
9.3.1.36 MEID_MAX_SIZE . . . 1599
9.3.1.37 SLQS_MAX_DYING_GASP_CFG_SMS_CONTENT_LENGTH . . . 1599
9.3.1.38 SLQS_MAX_DYING_GASP_CFG_SMS_NUMBER_LENGTH . . . 1599
9.3.1.39 SPC_SIZE . . . 1599
9.3.1.40 UNIQUE_ID_LEN . . . 1599
9.3.2 Function Documentation . . . 1600
9.3.2.1 pack_dms_ActivateAutomatic . . . 1600
9.3.2.2 pack_dms_GetActivationState . . . 1600
9.3.2.3 pack_dms_GetBandCapability . . . 1600
9.3.2.4 pack_dms_GetCrashAction . . . 1601
9.3.2.5 pack_dms_GetCustFeature . . . 1601
9.3.2.6 pack_dms_GetCustFeaturesV2 . . . 1601
9.3.2.7 pack_dms_GetDeviceCap . . . 1602
9.3.2.8 pack_dms_GetDeviceCapabilities . . . 1602
9.3.2.9 pack_dms_GetDeviceHardwareRev . . . 1603
9.3.2.10 pack_dms_GetDeviceMfr . . . 1603
9.3.2.11 pack_dms_GetDeviceSerialNumbers . . . 1603
9.3.2.12 pack_dms_GetFirmwareInfo . . . 1604
9.3.2.13 pack_dms_GetFirmwareRevision . . . 1604
9.3.2.14 pack_dms_GetFirmwareRevisions . . . 1604
9.3.2.15 pack_dms_GetFSN . . . 1605
9.3.2.16 pack_dms_GetHardwareRevision . . . 1605
9.3.2.17 pack_dms_GetIMSI . . . 1605
9.3.2.18 pack_dms_GetManufacturer . . . 1606

9.3.2.19 pack_dms_GetModelID . . . 1606
9.3.2.20 pack_dms_GetNetworkTime . . . 1606
9.3.2.21 pack_dms_GetOfflineReason . . . 1607
9.3.2.22 pack_dms_GetPower . . . 1607
9.3.2.23 pack_dms_GetPRLVersion . . . 1607
9.3.2.24 pack_dms_GetSerialNumbers . . . 1608
9.3.2.25 pack_dms_GetUSBComp . . . 1608
9.3.2.26 pack_dms_GetVoiceNumber . . . 1609
9.3.2.27 pack_dms_ResetToFactoryDefaults . . . 1609
9.3.2.28 pack_dms_SetActivationStatusCallback . . . 1609
9.3.2.29 pack_dms_SetCrashAction . . . 1610
9.3.2.30 pack_dms_SetCustFeature . . . 1610
9.3.2.31 pack_dms_SetCustFeaturesV2 . . . 1610
9.3.2.32 pack_dms_SetEventReport . . . 1611
9.3.2.33 pack_dms_SetFirmwarePreference . . . 1611
9.3.2.34 pack_dms_SetIndicationRegister . . . 1611
9.3.2.35 pack_dms_SetPower . . . 1612
9.3.2.36 pack_dms_SetUSBComp . . . 1612
9.3.2.37 pack_dms_SLQSDmsSwiGetPCInfo . . . 1613
9.3.2.38 pack_dms_SLQSDmsSwiGetResetInfo . . . 1613
9.3.2.39 pack_dms_SLQSDmsSwiIndicationRegister . . . 1613
9.3.2.40 pack_dms_SLQSGetBandCapability . . . 1614
9.3.2.41 pack_dms_SLQSGetERIFile . . . 1614
9.3.2.42 pack_dms_SLQSGetPowerSaveModeConfig . . . 1614
9.3.2.43 pack_dms_SLQSSetPowerSaveModeConfig . . . 1615
9.3.2.44 pack_dms_SLQSSwiClearDyingGaspStatistics . . . 1615
9.3.2.45 pack_dms_SLQSSwiGetCrashInfo . . . 1616
9.3.2.46 pack_dms_SLQSSwiGetDyingGaspCfg . . . 1616
9.3.2.47 pack_dms_SLQSSwiGetDyingGaspStatistics . . . 1616
9.3.2.48 pack_dms_SLQSSwiGetFirmwareCurr . . . 1617
9.3.2.49 pack_dms_SLQSSwiGetFwUpdateStatus . . . 1617
9.3.2.50 pack_dms_SLQSSwiGetHostDevInfo . . . 1617
9.3.2.51 pack_dms_SLQSSwiGetOSInfo . . . 1618
9.3.2.52 pack_dms_SLQSSwiGetSerialNoExt . . . 1618
9.3.2.53 pack_dms_SLQSSwiSetDyingGaspCfg . . . 1618
9.3.2.54 pack_dms_SLQSSwiSetHostDevInfo . . . 1619
9.3.2.55 pack_dms_SLQSSwiSetOSInfo . . . 1619
9.3.2.56 pack_dms_SLQSUIMGetState . . . 1619
9.3.2.57 pack_dms_SwiSetEventReport . . . 1620
9.3.2.58 pack_dms_UIMChangePIN . . . 1620

9.3.2.59 pack_dms_UIMGetControlKeyStatus . . . 1620
9.3.2.60 pack_dms_UIMGetICCID . . . 1621
9.3.2.61 pack_dms_UIMGetPINStatus . . . 1621
9.3.2.62 pack_dms_UIMSetControlKeyProtection . . . 1622
9.3.2.63 pack_dms_UIMSetPINProtection . . . 1622
9.3.2.64 pack_dms_UIMUnblockControlKey . . . 1622
9.3.2.65 pack_dms_UIMUnblockPIN . . . 1623
9.3.2.66 pack_dms_UIMVerifyPIN . . . 1623
9.3.2.67 pack_dms_ValidateSPC . . . 1623
9.3.2.68 unpack_dms_ActivateAutomatic . . . 1624
9.3.2.69 unpack_dms_GetActivationState . . . 1624
9.3.2.70 unpack_dms_GetBandCapability . . . 1625
9.3.2.71 unpack_dms_GetCrashAction . . . 1625
9.3.2.72 unpack_dms_GetCustFeature . . . 1625
9.3.2.73 unpack_dms_GetCustFeaturesV2 . . . 1626
9.3.2.74 unpack_dms_GetDeviceCap . . . 1626
9.3.2.75 unpack_dms_GetDeviceCapabilities . . . 1626
9.3.2.76 unpack_dms_GetDeviceHardwareRev . . . 1627
9.3.2.77 unpack_dms_GetDeviceMfr . . . 1627
9.3.2.78 unpack_dms_GetDeviceSerialNumbers . . . 1627
9.3.2.79 unpack_dms_GetFirmwareInfo . . . 1628
9.3.2.80 unpack_dms_GetFirmwareRevision . . . 1628
9.3.2.81 unpack_dms_GetFirmwareRevisions . . . 1628
9.3.2.82 unpack_dms_GetFSN . . . 1629
9.3.2.83 unpack_dms_GetHardwareRevision . . . 1629
9.3.2.84 unpack_dms_GetIMSI . . . 1629
9.3.2.85 unpack_dms_GetManufacturer . . . 1630
9.3.2.86 unpack_dms_GetModelID . . . 1630
9.3.2.87 unpack_dms_GetNetworkTime . . . 1630
9.3.2.88 unpack_dms_GetOfflineReason . . . 1631
9.3.2.89 unpack_dms_GetPower . . . 1631
9.3.2.90 unpack_dms_GetPRLVersion . . . 1631
9.3.2.91 unpack_dms_GetSerialNumbers . . . 1632
9.3.2.92 unpack_dms_GetUSBComp . . . 1632
9.3.2.93 unpack_dms_GetVoiceNumber . . . 1632
9.3.2.94 unpack_dms_PSMCfgChange_ind . . . 1633
9.3.2.95 unpack_dms_ResetToFactoryDefaults . . . 1633
9.3.2.96 unpack_dms_SetActivationStatusCallback . . . 1633
9.3.2.97 unpack_dms_SetCrashAction . . . 1634
9.3.2.98 unpack_dms_SetCustFeature . . . 1634

9.3.2.99 unpack_dms_SetCustFeaturesV2 . . . 1634
9.3.2.100 unpack_dms_SetEventReport . . . 1635
9.3.2.101 unpack_dms_SetEventReport_ind . . . 1635
9.3.2.102 unpack_dms_SetFirmwarePreference . . . 1636
9.3.2.103 unpack_dms_SetIndicationRegister . . . 1636
9.3.2.104 unpack_dms_SetPower . . . 1636
9.3.2.105 unpack_dms_SetUSBComp . . . 1637
9.3.2.106 unpack_dms_SLQSDmsSwiGetPCInfo . . . 1637
9.3.2.107 unpack_dms_SLQSDmsSwiGetResetInfo . . . 1637
9.3.2.108 unpack_dms_SLQSDmsSwiGetResetInfo_Ind . . . 1638
9.3.2.109 unpack_dms_SLQSDmsSwiIndicationRegister . . . 1638
9.3.2.110 unpack_dms_SLQSGetBandCapability . . . 1638
9.3.2.111 unpack_dms_SLQSGetERIFile . . . 1639
9.3.2.112 unpack_dms_SLQSGetPowerSaveModeConfig . . . 1639
9.3.2.113 unpack_dms_SLQSSetPowerSaveModeConfig . . . 1640
9.3.2.114 unpack_dms_SLQSSwiClearDyingGaspStatistics . . . 1640
9.3.2.115 unpack_dms_SLQSSwiGetCrashInfo . . . 1640
9.3.2.116 unpack_dms_SLQSSwiGetDyingGaspCfg . . . 1641
9.3.2.117 unpack_dms_SLQSSwiGetDyingGaspStatistics . . . 1641
9.3.2.118 unpack_dms_SLQSSwiGetFirmwareCurr . . . 1641
9.3.2.119 unpack_dms_SLQSSwiGetFwUpdateStatus . . . 1642
9.3.2.120 unpack_dms_SLQSSwiGetHostDevInfo . . . 1642
9.3.2.121 unpack_dms_SLQSSwiGetOSInfo . . . 1642
9.3.2.122 unpack_dms_SLQSSwiGetSerialNoExt . . . 1643
9.3.2.123 unpack_dms_SLQSSwiSetDyingGaspCfg . . . 1643
9.3.2.124 unpack_dms_SLQSSwiSetHostDevInfo . . . 1643
9.3.2.125 unpack_dms_SLQSSwiSetOSInfo . . . 1644
9.3.2.126 unpack_dms_SLQSUIMGetState . . . 1644
9.3.2.127 unpack_dms_SwiEventReportCallBack_ind . . . 1644
9.3.2.128 unpack_dms_SwiSetEventReport . . . 1645
9.3.2.129 unpack_dms_UIMChangePIN . . . 1645
9.3.2.130 unpack_dms_UIMGetControlKeyStatus . . . 1646
9.3.2.131 unpack_dms_UIMGetICCID . . . 1646
9.3.2.132 unpack_dms_UIMGetPINStatus . . . 1646
9.3.2.133 unpack_dms_UIMSetControlKeyProtection . . . 1647
9.3.2.134 unpack_dms_UIMSetPINProtection . . . 1647
9.3.2.135 unpack_dms_UIMUnblockControlKey . . . 1647
9.3.2.136 unpack_dms_UIMUnblockPIN . . . 1648
9.3.2.137 unpack_dms_UIMVerifyPIN . . . 1648
9.3.2.138 unpack_dms_ValidateSPC . . . 1648

9.4 fms.h File Reference . . . 1649
9.4.1 Macro Definition Documentation . . . 1650
9.4.1.1 FMS_FW_PRI_BUILD_MATCH_LEN . . . 1650
9.4.1.2 FMS_GOBI_LISTENTRIES_MAX . . . 1650
9.4.1.3 FMS_GOBI_MBN_BUILD_ID_STR_LEN . . . 1650
9.4.1.4 FMS_GOBI_MBN_IMG_ID_STR_LEN . . . 1650
9.4.1.5 FMS_IMAGE_ID_BUILD_ID_LEN . . . 1650
9.4.1.6 FMS_IMAGE_ID_IMG_ID_LEN . . . 1650
9.4.1.7 FMS_IMAGE_ID_MAX_ENTRIES . . . 1650
9.4.1.8 FMS_IMAGE_ID_PRI_IMGTYPE . . . 1650
9.4.1.9 FMS_MAX_IMAGE_ID_ELEMENT . . . 1650
9.4.1.10 FMS_MAX_IMAGE_PREFERENCE_IMAGE_SIZE . . . 1650
9.4.2 Function Documentation . . . 1650
9.4.2.1 GetValidFwPriCombinations . . . 1650
9.4.2.2 pack_fms_GetImagesPreference . . . 1650
9.4.2.3 pack_fms_GetStoredImages . . . 1651
9.4.2.4 pack_fms_SetImagesPreference . . . 1651
9.4.2.5 unpack_fms_GetImagesPreference . . . 1651
9.4.2.6 unpack_fms_GetStoredImages . . . 1651
9.4.2.7 unpack_fms_SetImagesPreference . . . 1652
9.5 loc.h File Reference . . . 1652
9.5.1 Macro Definition Documentation . . . 1655
9.5.1.1 LOC_UINT8_MAX_STRING_SZ . . . 1655
9.5.1.2 LOCEVENTMASKBATCHFULLNOTIFICATION . . . 1655
9.5.1.3 LOCEVENTMASKENGINESTATE . . . 1655
9.5.1.4 LOCEVENTMASKFIXSESSIONSTATE . . . 1656
9.5.1.5 LOCEVENTMASKGEOFENCEBATCHBREACHNOTIFICATION . . . 1656
9.5.1.6 LOCEVENTMASKGEOFENCEBREACHNOTIFICATION . . . 1656
9.5.1.7 LOCEVENTMASKGEOFENCEGENALERT . . . 1656
9.5.1.8 LOCEVENTMASKGNSSMEASUREMENTREPORT . . . 1656
9.5.1.9 LOCEVENTMASKGNSSSVINFO . . . 1656
9.5.1.10 LOCEVENTMASKINJECTPOSITIONREQ . . . 1656
9.5.1.11 LOCEVENTMASKINJECTPREDICTEDORBITSREQ . . . 1656
9.5.1.12 LOCEVENTMASKINJECTTIMEREQ . . . 1656
9.5.1.13 LOCEVENTMASKINJECTWIFIAPDATAREQ . . . 1656
9.5.1.14 LOCEVENTMASKINVALIDVALUE . . . 1656
9.5.1.15 LOCEVENTMASKLIVEBATCHEDPOSITIONREPORT . . . 1657
9.5.1.16 LOCEVENTMASKLOCATIONSERVERCONNECTIONREQ . . . 1657
9.5.1.17 LOCEVENTMASKMOTIONDATACONTROL . . . 1657
9.5.1.18 LOCEVENTMASKNIGEOFENCENOTIFICATION . . . 1657

9.5.1.19 LOCEVENTMASKNINOTIFYVERIFYREQ . . . 1657
9.5.1.20 LOCEVENTMASKNMEA . . . 1657
9.5.1.21 LOCEVENTMASKPEDOMETERCONTROL . . . 1657
9.5.1.22 LOCEVENTMASKPOSITIONREPORT . . . 1657
9.5.1.23 LOCEVENTMASKSENSORSTREAMINGREADYSTATUS . . . 1657
9.5.1.24 LOCEVENTMASKSETSPISTREAMINGREPORT . . . 1657
9.5.1.25 LOCEVENTMASKTIMESYNCREQ . . . 1658
9.5.1.26 LOCEVENTMASKVEHICLEDATAREADYSTATUS . . . 1658
9.5.1.27 LOCEVENTMASKWIFIREQ . . . 1658
9.5.1.28 MAX_LOC_NMEA_STR_LEN . . . 1658
9.5.1.29 MAX_SENSOR_DATA_LEN . . . 1658
9.5.1.30 MAX_TEMP_DATA_LEN . . . 1658
9.5.2 Typedef Documentation . . . 1658
9.5.2.1 unpack_loc_SLQSLOCGetServer_t . . . 1658
9.5.2.2 unpack_loc_SLQSLOCInjectPosition_t . . . 1658
9.5.2.3 unpack_loc_SLQSLOCInjectSensorData_t . . . 1658
9.5.2.4 unpack_loc_SLQSLOCInjectUTCTime_t . . . 1658
9.5.2.5 unpack_loc_SLQSLOCSetCradleMountConfig_t . . . 1658
9.5.3 Enumeration Type Documentation . . . 1658
9.5.3.1 anonymous enum . . . 1658
9.5.4 Function Documentation . . . 1658
9.5.4.1 pack_loc_DeleteAssistData . . . 1658
9.5.4.2 pack_loc_EventRegister . . . 1659
9.5.4.3 pack_loc_SetExtPowerState . . . 1659
9.5.4.4 pack_loc_SetOperationMode . . . 1660
9.5.4.5 pack_loc_SLQSLOCGetBestAvailPos . . . 1660
9.5.4.6 pack_loc_SLQSLOCGetServer . . . 1660
9.5.4.7 pack_loc_SLQSLOCInjectPosition . . . 1661
9.5.4.8 pack_loc_SLQSLOCInjectSensorData . . . 1661
9.5.4.9 pack_loc_SLQSLOCInjectUTCTime . . . 1662
9.5.4.10 pack_loc_SLQSLOCSetCradleMountConfig . . . 1662
9.5.4.11 pack_loc_SLQSLOCSetServer . . . 1662
9.5.4.12 pack_loc_Start . . . 1663
9.5.4.13 pack_loc_Stop . . . 1663
9.5.4.14 unpack_loc_BestAvailPos_Ind . . . 1664
9.5.4.15 unpack_loc_CradleMountCallback_Ind . . . 1664
9.5.4.16 unpack_loc_DeleteAssistData . . . 1664
9.5.4.17 unpack_loc_DeleteAssistData_Ind . . . 1665
9.5.4.18 unpack_loc_EngineState_Ind . . . 1665
9.5.4.19 unpack_loc_EventNMEA_Ind . . . 1665

9.5.4.20 unpack_loc_EventRegister . . . 1666
9.5.4.21 unpack_loc_EventTimeSyncCallback_Ind . . . 1666
9.5.4.22 unpack_loc_GetServer_Ind . . . 1666
9.5.4.23 unpack_loc_GnssSvInfo_Ind . . . 1667
9.5.4.24 unpack_loc_InjectPositionCallback_Ind . . . 1667
9.5.4.25 unpack_loc_InjectSensorDataCallback_Ind . . . 1667
9.5.4.26 unpack_loc_InjectTimeSyncDataCallback_Ind . . . 1668
9.5.4.27 unpack_loc_InjectUTCTimeCallback_Ind . . . 1668
9.5.4.28 unpack_loc_PositionRpt_Ind . . . 1668
9.5.4.29 unpack_loc_SensorStreamingCallback_Ind . . . 1669
9.5.4.30 unpack_loc_SetExtPowerConfig_Ind . . . 1669
9.5.4.31 unpack_loc_SetExtPowerState . . . 1669
9.5.4.32 unpack_loc_SetOperationMode . . . 1670
9.5.4.33 unpack_loc_SetOperationMode_Ind . . . 1670
9.5.4.34 unpack_loc_SetServer_Ind . . . 1670
9.5.4.35 unpack_loc_SLQSLOCGetBestAvailPos . . . 1671
9.5.4.36 unpack_loc_SLQSLOCGetServer . . . 1671
9.5.4.37 unpack_loc_SLQSLOCInjectPosition . . . 1671
9.5.4.38 unpack_loc_SLQSLOCInjectSensorData . . . 1672
9.5.4.39 unpack_loc_SLQSLOCInjectUTCTime . . . 1672
9.5.4.40 unpack_loc_SLQSLOCSetCradleMountConfig . . . 1672
9.5.4.41 unpack_loc_SLQSLOCSetServer . . . 1673
9.5.4.42 unpack_loc_Start . . . 1673
9.5.4.43 unpack_loc_Stop . . . 1673
9.6 nas.h File Reference . . . 1674
9.6.1 Macro Definition Documentation . . . 1683
9.6.1.1 NAS_IMSI_M_S1_LENGTH . . . 1683
9.6.1.2 NAS_IMSI_M_S2_LENGTH . . . 1683
9.6.1.3 NAS_MAX_DESCRIPTION_LENGTH . . . 1683
9.6.1.4 NAS_MAX_NUM_NETWORKS . . . 1683
9.6.1.5 NAS_MAX_SCC_RX_INFO_INSTANCES . . . 1683
9.6.1.6 NAS_NAM_NAME_LENGTH . . . 1683
9.6.1.7 NAS_OTA_MESSAGE_MAX_BUF_SIZE . . . 1683
9.6.1.8 NAS_PLMN_LENGTH . . . 1683
9.6.1.9 NAS_SERVING_SYSTEM_INFO_MAX_RADIO_INTERFACE_LIST . . . 1683
9.6.2 Enumeration Type Documentation . . . 1683
9.6.2.1 LITEQMI_NAS_LTE_CPHY_CA_BW_NRB . . . 1683
9.6.2.2 LITEQMI_NAS_LTE_CPHY_SCELL_STATE . . . 1683
9.6.2.3 NAS_LTE_CPHY_CA_BW_NRB_LITE . . . 1683
9.6.2.4 NAS_LTE_CPHY_SCELL_STATE_LITE . . . 1684

9.6.3 Function Documentation . . . 1684
9.6.3.1 pack_nas_GetACCOLC . . . 1684
9.6.3.2 pack_nas_GetANAAAAuthenticationStatus . . . 1684
9.6.3.3 pack_nas_GetCDMANetworkParameters . . . 1684
9.6.3.4 pack_nas_GetHomeNetwork . . . 1685
9.6.3.5 pack_nas_GetHomeNetwork3GPP2 . . . 1685
9.6.3.6 pack_nas_GetNetworkPreference . . . 1685
9.6.3.7 pack_nas_GetRFInfo . . . 1686
9.6.3.8 pack_nas_GetServingNetwork . . . 1686
9.6.3.9 pack_nas_GetServingNetworkCapabilities . . . 1686
9.6.3.10 pack_nas_GetSignalStrengths . . . 1687
9.6.3.11 pack_nas_InitiateDomainAttach . . . 1687
9.6.3.12 pack_nas_PerformNetworkScan . . . 1687
9.6.3.13 pack_nas_SetACCOLC . . . 1688
9.6.3.14 pack_nas_SetCDMANetworkParameters . . . 1688
9.6.3.15 pack_nas_SetLURejectCallback . . . 1688
9.6.3.16 pack_nas_SetNetworkPreference . . . 1689
9.6.3.17 pack_nas_SetRFInfoCallback . . . 1689
9.6.3.18 pack_nas_SLQSConfigSigInfo . . . 1689
9.6.3.19 pack_nas_SLQSGetErrorRate . . . 1690
9.6.3.20 pack_nas_SlqsGetLTECphyCAInfo . . . 1690
9.6.3.21 pack_nas_SLQSGetNetworkTime . . . 1690
9.6.3.22 pack_nas_SLQSGetOperatorNameData . . . 1691
9.6.3.23 pack_nas_SLQSGetPLMNName . . . 1691
9.6.3.24 pack_nas_SLQSGetServingSystem . . . 1691
9.6.3.25 pack_nas_SLQSGetSignalStrength . . . 1692
9.6.3.26 pack_nas_SLQSGetSysInfo . . . 1692
9.6.3.27 pack_nas_SLQSGetSysSelectionPref . . . 1692
9.6.3.28 pack_nas_SLQSGetSysSelectionPrefExt . . . 1693
9.6.3.29 pack_nas_SLQSInitiateNetworkRegistration . . . 1693
9.6.3.30 pack_nas_SLQSNasConfigSigInfo2 . . . 1693
9.6.3.31 pack_nas_SLQSNasGet3GPP2Subscription . . . 1694
9.6.3.32 pack_nas_SLQSNasGetCellLocationInfo . . . 1694
9.6.3.33 pack_nas_SLQSNASGeteDRXParams . . . 1694
9.6.3.34 pack_nas_SLQSNasGetHDRColorCode . . . 1695
9.6.3.35 pack_nas_SLQSNasGetRFInfo . . . 1695
9.6.3.36 pack_nas_SLQSNasGetSigInfo . . . 1695
9.6.3.37 pack_nas_SLQSNasGetTxRxInfo . . . 1696
9.6.3.38 pack_nas_SLQSNasIndicationRegisterExt . . . 1696
9.6.3.39 pack_nas_SLQSNASSeteDRXParams . . . 1697

9.6.3.40 pack_nas_SLQSNASSwiGetChannelLock . . . 1697
9.6.3.41 pack_nas_SLQSNasSwiIndicationRegister . . . 1697
9.6.3.42 pack_nas_SLQSNasSwiModemStatus . . . 1698
9.6.3.43 pack_nas_SLQSNASSwiSetChannelLock . . . 1698
9.6.3.44 pack_nas_SLQSSetBandPreference . . . 1698
9.6.3.45 pack_nas_SLQSSetSignalStrengthsCallback . . . 1699
9.6.3.46 pack_nas_SLQSSetSysSelectionPref . . . 1699
9.6.3.47 pack_nas_SLQSSetSysSelectionPrefExt . . . 1699
9.6.3.48 pack_nas_SLQSSwiGetHDRPersonality . . . 1700
9.6.3.49 pack_nas_SLQSSwiGetHDRProtSubtype . . . 1700
9.6.3.50 pack_nas_SLQSSwiGetHRPDStats . . . 1700
9.6.3.51 pack_nas_SLQSSwiGetLteCQI . . . 1701
9.6.3.52 pack_nas_SLQSSwiGetLteSccRxInfo . . . 1701
9.6.3.53 pack_nas_SLQSSwiNetworkDebug . . . 1701
9.6.3.54 pack_nas_SLQSSwiPSDetach . . . 1702
9.6.3.55 unpack_nas_GetACCOLC . . . 1702
9.6.3.56 unpack_nas_GetANAAAAuthenticationStatus . . . 1703
9.6.3.57 unpack_nas_GetCDMANetworkParameters . . . 1703
9.6.3.58 unpack_nas_GetHomeNetwork . . . 1703
9.6.3.59 unpack_nas_GetHomeNetwork3GPP2 . . . 1704
9.6.3.60 unpack_nas_GetNetworkPreference . . . 1704
9.6.3.61 unpack_nas_GetRFInfo . . . 1704
9.6.3.62 unpack_nas_GetServingNetwork . . . 1705
9.6.3.63 unpack_nas_GetServingNetworkCapabilities . . . 1705
9.6.3.64 unpack_nas_GetSignalStrengths . . . 1705
9.6.3.65 unpack_nas_InitiateDomainAttach . . . 1706
9.6.3.66 unpack_nas_PerformNetworkScan . . . 1706
9.6.3.67 unpack_nas_SetACCOLC . . . 1707
9.6.3.68 unpack_nas_SetCDMANetworkParameters . . . 1707
9.6.3.69 unpack_nas_SetDataCapabilitiesCallback_ind . . . 1707
9.6.3.70 unpack_nas_SetEventReportInd . . . 1708
9.6.3.71 unpack_nas_SetLURejectCallback . . . 1708
9.6.3.72 unpack_nas_SetNasLTECphyCaIndCallback_ind . . . 1708
9.6.3.73 unpack_nas_SetNetworkPreference . . . 1709
9.6.3.74 unpack_nas_SetRFInfoCallback . . . 1709
9.6.3.75 unpack_nas_SetRoamingIndicatorCallback_ind . . . 1709
9.6.3.76 unpack_nas_SetServingSystemCallback_ind . . . 1710
9.6.3.77 unpack_nas_SLQSConfigSigInfo . . . 1710
9.6.3.78 unpack_nas_SLQSGetErrorRate . . . 1710
9.6.3.79 unpack_nas_SlqsGetLTECphyCAInfo . . . 1711

9.6.3.80 unpack_nas_SLQSGetNetworkTime . . . 1711
9.6.3.81 unpack_nas_SLQSGetOperatorNameData . . . 1711
9.6.3.82 unpack_nas_SLQSGetPLMNName . . . 1712
9.6.3.83 unpack_nas_SLQSGetServingSystem . . . 1712
9.6.3.84 unpack_nas_SLQSGetSignalStrength . . . 1712
9.6.3.85 unpack_nas_SLQSGetSysInfo . . . 1713
9.6.3.86 unpack_nas_SLQSGetSysSelectionPref . . . 1713
9.6.3.87 unpack_nas_SLQSGetSysSelectionPrefExt . . . 1714
9.6.3.88 unpack_nas_SLQSInitiateNetworkRegistration . . . 1714
9.6.3.89 unpack_nas_SLQSNasConfigSigInfo2 . . . 1714
9.6.3.90 unpack_nas_SLQSNasGet3GPP2Subscription . . . 1715
9.6.3.91 unpack_nas_SLQSNasGetCellLocationInfo . . . 1715
9.6.3.92 unpack_nas_SLQSNASGeteDRXParams . . . 1715
9.6.3.93 unpack_nas_SLQSNasGetHDRColorCode . . . 1716
9.6.3.94 unpack_nas_SLQSNasGetRFInfo . . . 1716
9.6.3.95 unpack_nas_SLQSNasGetSigInfo . . . 1716
9.6.3.96 unpack_nas_SLQSNasGetTxRxInfo . . . 1717
9.6.3.97 unpack_nas_SLQSNasIndicationRegisterExt . . . 1717
9.6.3.98 unpack_nas_SLQSNasNetworkTimeCallBack_ind . . . 1717
9.6.3.99 unpack_nas_SLQSNASSeteDRXParams . . . 1718
9.6.3.100 unpack_nas_SLQSNasSigInfoCallback_ind . . . 1718
9.6.3.101 unpack_nas_SLQSNASSwiGetChannelLock . . . 1718
9.6.3.102 unpack_nas_SLQSNasSwiIndicationRegister . . . 1719
9.6.3.103 unpack_nas_SLQSNasSwiModemStatus . . . 1719
9.6.3.104 unpack_nas_SLQSNasSwiOTAMessageCallback_ind . . . 1719
9.6.3.105 unpack_nas_SLQSNASSwiSetChannelLock . . . 1720
9.6.3.106 unpack_nas_SLQSNasSysInfoCallback_ind . . . 1720
9.6.3.107 unpack_nas_SLQSNasTimerCallback_ind . . . 1720
9.6.3.108 unpack_nas_SLQSSetBandPreference . . . 1721
9.6.3.109 unpack_nas_SLQSSetSignalStrengthsCallback . . . 1721
9.6.3.110 unpack_nas_SLQSSetSysSelectionPref . . . 1721
9.6.3.111 unpack_nas_SLQSSetSysSelectionPrefCallBack_ind . . . 1722
9.6.3.112 unpack_nas_SLQSSetSysSelectionPrefExt . . . 1722
9.6.3.113 unpack_nas_SLQSSwiGetHDRPersonality . . . 1722
9.6.3.114 unpack_nas_SLQSSwiGetHDRProtSubtype . . . 1723
9.6.3.115 unpack_nas_SLQSSwiGetHRPDStats . . . 1723
9.6.3.116 unpack_nas_SLQSSwiGetLteCQI . . . 1723
9.6.3.117 unpack_nas_SLQSSwiGetLteSccRxInfo . . . 1724
9.6.3.118 unpack_nas_SLQSSwiHDRPersonalityCallback_Ind . . . 1724
9.6.3.119 unpack_nas_SLQSSwiNetworkDebug . . . 1724

9.6.3.120 unpack_nas_SLQSSwiPSDetach . . . 1725
9.6.3.121 unpack_nas_SLQSSwiRandIndicatorCallback_Ind . . . 1725
9.6.3.122 unpack_valid_nas_GetCDMANetworkParameters . . . 1725
9.6.3.123 unpack_valid_nas_SLQSGetServingSystem . . . 1726
9.6.3.124 unpack_valid_nas_SLQSGetSignalStrength . . . 1727
9.6.3.125 unpack_valid_nas_SLQSNasGetSigInfo . . . 1727
9.7 pds.h File Reference . . . 1728
9.7.1 Function Documentation . . . 1730
9.7.1.1 pack_pds_ForceXTRADownload . . . 1730
9.7.1.2 pack_pds_GetPDSDefaults . . . 1730
9.7.1.3 pack_pds_GetPDSState . . . 1730
9.7.1.4 pack_pds_GetPortAutomaticTracking . . . 1731
9.7.1.5 pack_pds_GetServiceAutomaticTracking . . . 1731
9.7.1.6 pack_pds_GetXTRAAutomaticDownload . . . 1731
9.7.1.7 pack_pds_GetXTRANetwork . . . 1732
9.7.1.8 pack_pds_GetXTRAValidity . . . 1732
9.7.1.9 pack_pds_PDSInjectTimeReference . . . 1732
9.7.1.10 pack_pds_ResetPDSData . . . 1733
9.7.1.11 pack_pds_SetEventReportCallback . . . 1733
9.7.1.12 pack_pds_SetPDSDefaults . . . 1733
9.7.1.13 pack_pds_SetPDSState . . . 1734
9.7.1.14 pack_pds_SetPortAutomaticTracking . . . 1734
9.7.1.15 pack_pds_SetServiceAutomaticTracking . . . 1735
9.7.1.16 pack_pds_SetXTRAAutomaticDownload . . . 1735
9.7.1.17 pack_pds_SetXTRANetwork . . . 1735
9.7.1.18 pack_pds_SLQSGetAGPSConfig . . . 1736
9.7.1.19 pack_pds_SLQSGetGPSStateInfo . . . 1736
9.7.1.20 pack_pds_SLQSPDSDeterminePosition . . . 1736
9.7.1.21 pack_pds_SLQSPDSInjectAbsoluteTimeReference . . . 1737
9.7.1.22 pack_pds_SLQSPDSInjectPositionData . . . 1737
9.7.1.23 pack_pds_SLQSSetAGPSConfig . . . 1737
9.7.1.24 pack_pds_SLQSSetPositionMethodState . . . 1738
9.7.1.25 pack_pds_StartPDSTrackingSessionExt . . . 1738
9.7.1.26 pack_pds_StopPDSTrackingSession . . . 1739
9.7.1.27 unpack_pds_ForceXTRADownload . . . 1739
9.7.1.28 unpack_pds_GetPDSDefaults . . . 1739
9.7.1.29 unpack_pds_GetPDSState . . . 1740
9.7.1.30 unpack_pds_GetPortAutomaticTracking . . . 1740
9.7.1.31 unpack_pds_GetServiceAutomaticTracking . . . 1740
9.7.1.32 unpack_pds_GetXTRAAutomaticDownload . . . 1741

9.7.1.33 unpack_pds_GetXTRANetwork . . . 1741
9.7.1.34 unpack_pds_GetXTRAValidity . . . 1741
9.7.1.35 unpack_pds_PDSInjectTimeReference . . . 1742
9.7.1.36 unpack_pds_ResetPDSData . . . 1742
9.7.1.37 unpack_pds_SetEventReport_Ind . . . 1742
9.7.1.38 unpack_pds_SetEventReportCallback . . . 1743
9.7.1.39 unpack_pds_SetPDSDefaults . . . 1743
9.7.1.40 unpack_pds_SetPDSState . . . 1743
9.7.1.41 unpack_pds_SetPdsState_Ind . . . 1744
9.7.1.42 unpack_pds_SetPortAutomaticTracking . . . 1744
9.7.1.43 unpack_pds_SetServiceAutomaticTracking . . . 1744
9.7.1.44 unpack_pds_SetXTRAAutomaticDownload . . . 1745
9.7.1.45 unpack_pds_SetXTRANetwork . . . 1745
9.7.1.46 unpack_pds_SLQSGetAGPSConfig . . . 1745
9.7.1.47 unpack_pds_SLQSGetGPSStateInfo . . . 1746
9.7.1.48 unpack_pds_SLQSPDSDeterminePosition . . . 1746
9.7.1.49 unpack_pds_SLQSPDSInjectAbsoluteTimeReference . . . 1746
9.7.1.50 unpack_pds_SLQSPDSInjectPositionData . . . 1747
9.7.1.51 unpack_pds_SLQSSetAGPSConfig . . . 1747
9.7.1.52 unpack_pds_SLQSSetPositionMethodState . . . 1747
9.7.1.53 unpack_pds_StartPDSTrackingSessionExt . . . 1747
9.7.1.54 unpack_pds_StopPDSTrackingSession . . . 1748
9.8 qaCbkCatEventReportInd.h File Reference . . . 1748
9.8.1 Macro Definition Documentation . . . 1749
9.8.1.1 QMI_CAN_COMMON_EVENT_TLV_NUMBER . . . 1749
9.8.1.2 QMI_MAX_CAT_EVENT_DATA_LENGTH . . . 1749
9.8.2 Enumeration Type Documentation . . . 1749
9.8.2.1 eQMI_CAT_EVENT_REPORT_IND_TLV . . . 1749
9.8.2.2 eQMI_CAT_EVENT_REPORT_IND_TLV_LENGTH . . . 1749
9.8.3 Function Documentation . . . 1750
9.8.3.1 UpkQmiCbkCatEventReportInd . . . 1750
9.9 qaCbkSwiOmaDmEventReportInd.h File Reference . . . 1750
9.9.1 Macro Definition Documentation . . . 1750
9.9.1.1 QMI_SWIOMA_DM_CONFIG . . . 1750
9.9.1.2 QMI_SWIOMA_DM_FOTA . . . 1750
9.9.1.3 QMI_SWIOMA_DM_NOT . . . 1750
9.9.2 Enumeration Type Documentation . . . 1750
9.9.2.1 eQMI_SWIOMA_DM_EVENT_REPORT_IND . . . 1750
9.9.3 Function Documentation . . . 1751
9.9.3.1 UpkQmiCbkSwiOmaDmEventReportInd . . . 1751

9.9.3.2 UpkQmiCbkSwiOmaDmEventReportIndExt . . . 1751
9.10 qaGobiApiAudio.h File Reference . . . 1751
9.10.1 Detailed Description . . . 1751
9.10.2 Function Documentation . . . 1751
9.10.2.1 SLQSGetAudioPathConfig . . . 1751
9.10.2.2 SLQSGetAudioProfile . . . 1752
9.10.2.3 SLQSGetAudioVolTLBConfig . . . 1752
9.10.2.4 SLQSSetAudioPathConfig . . . 1753
9.10.2.5 SLQSSetAudioProfile . . . 1753
9.10.2.6 SLQSSetAudioVolTLBConfig . . . 1754
9.11 qaGobiApiCat.h File Reference . . . 1754
9.11.1 Detailed Description . . . 1754
9.11.2 Function Documentation . . . 1755
9.11.2.1 CATSendEnvelopeCommand . . . 1755
9.11.2.2 CATSendTerminalResponse . . . 1755
9.12 qaGobiApiCbk.h File Reference . . . 1756
9.12.1 Detailed Description . . . 1764
9.12.2 Macro Definition Documentation . . . 1764
9.12.2.1 CBK_DISABLE_EVENT . . . 1764
9.12.2.2 CBK_ENABLE_EVENT . . . 1764
9.12.2.3 CBK_NOCHANGE . . . 1764
9.12.2.4 DEREGISTER_EVENT . . . 1764
9.12.2.5 DEREGISTER_SRV . . . 1764
9.12.2.6 DHCP_MAX_NUM_OPTIONS . . . 1764
9.12.2.7 DHCP_OPTION_DATA_BUF_SIZE . . . 1764
9.12.2.8 EVENT_MASK_CARD . . . 1764
9.12.2.9 EVENT_MASK_DEREGISTER_ALL . . . 1764
9.12.2.10 EVENT_MASK_PHY_SLOT_STATUS . . . 1765
9.12.2.11 FIRST_INSTANCE . . . 1765
9.12.2.12 INVALID_INSTACNE . . . 1765
9.12.2.13 IPV4 . . . 1765
9.12.2.14 IPV4V6 . . . 1765
9.12.2.15 IPV6 . . . 1765
9.12.2.16 LOC_EVENT_MASK_ENG_STATE . . . 1765
9.12.2.17 LOC_EVENT_MASK_GNSS_SV_INFO . . . 1765
9.12.2.18 LOC_EVENT_MASK_INJECT_TIME . . . 1765
9.12.2.19 LOC_EVENT_MASK_NMEA . . . 1765
9.12.2.20 LOC_EVENT_MASK_SENSOR_STREAM . . . 1765
9.12.2.21 LOC_EVENT_MASK_TIME_SYNC . . . 1765
9.12.2.22 LOC_EVENT_POSITION_REPORT . . . 1765

9.12.2.23 MAX_MITIGATION_DEV_ID_LEN . . . 1765
9.12.2.24 MAX_NMEA_STR_LEN . . . 1765
9.12.2.25 MAX_NO_OF_APPLICATIONS . . . 1765
9.12.2.26 MAX_NO_OF_CALLS . . . 1765
9.12.2.27 MAX_NO_OF_FILES . . . 1765
9.12.2.28 MAX_NO_OF_SLOTS . . . 1765
9.12.2.29 MAX_NO_OF_UUSINFO . . . 1765
9.12.2.30 MAX_PATH_LENGTH . . . 1765
9.12.2.31 MAX_RADIO_INTERFACE_LIST . . . 1765
9.12.2.32 MAX_URL_ADDR_STR_LEN . . . 1765
9.12.2.33 MAXUSSDLENGTH . . . 1765
9.12.2.34 NAS_SRV . . . 1765
9.12.2.35 NUM_OF_SET . . . 1765
9.12.2.36 PDS_SRV . . . 1765
9.12.2.37 QMI_ETWS_MAX_PAYLOAD_LENGTH . . . 1765
9.12.2.38 QMI_MAX_VOICE_NUMBER_LENGTH . . . 1766
9.12.2.39 QMI_WMS_MAX_PAYLOAD_LENGTH . . . 1766
9.12.2.40 REGISTER_EVENT . . . 1766
9.12.2.41 REGISTER_SRV . . . 1766
9.12.2.42 SECOND_INSTANCE . . . 1766
9.12.2.43 SIGSTRENGTH_THRESHOLD_ARR_SZ . . . 1766
9.12.2.44 THIRD_INSTANCE . . . 1766
9.12.2.45 USSD_DCS_8BIT . . . 1766
9.12.2.46 USSD_DCS_ASCII . . . 1766
9.12.2.47 USSD_DCS_UCS2 . . . 1766
9.12.2.48 VOICE_SRV . . . 1766
9.12.2.49 WDS_SRV . . . 1766
9.12.3 Typedef Documentation . . . 1766
9.12.3.1 accelAcceptReady . . . 1766
9.12.3.2 accelTempAcceptReady . . . 1766
9.12.3.3 eDevState . . . 1767
9.12.3.4 eSMSEventType . . . 1767
9.12.3.5 gpsTime . . . 1767
9.12.3.6 gyroAcceptReady . . . 1767
9.12.3.7 gyroTempAcceptReady . . . 1768
9.12.3.8 LteNasReleaseInfo . . . 1768
9.12.3.9 modemTempNotification . . . 1769
9.12.3.10 packetSrvStatus . . . 1769
9.12.3.11 precisionDilution . . . 1770
9.12.3.12 ResetInfoNotification . . . 1771

9.12.3.13 sensorDataUsage . . . 1771
9.12.3.14 sessionInformation . . . 1772
9.12.3.15 sessionInformationExt . . . 1772
9.12.3.16 SMSAsyncRawSend . . . 1772
9.12.3.17 SMSCAddressInfo . . . 1773
9.12.3.18 SMSEtwsMessageInfo . . . 1773
9.12.3.19 SMSEtwsPlmnInfo . . . 1774
9.12.3.20 SMSEventInfo . . . 1774
9.12.3.21 SMSMessageModeInfo . . . 1775
9.12.3.22 SMSMTMessageInfo . . . 1775
9.12.3.23 SMSOnIMSInfo . . . 1775
9.12.3.24 SMSTransferRouteMTMessageInfo . . . 1775
9.12.3.25 svUsedforFix . . . 1776
9.12.3.26 SwiAvmsEventInd . . . 1776
9.12.3.27 SwiOTAMsg . . . 1776
9.12.3.28 tFNActivationStatus . . . 1777
9.12.3.29 tFNAllCallStatus . . . 1777
9.12.3.30 tFNASwiLTECphyCallInfo . . . 1777
9.12.3.31 tFNASwiOTAMsg . . . 1778
9.12.3.32 tFNAsyncRawSend . . . 1778
9.12.3.33 tFNBandPreference . . . 1778
9.12.3.34 tFNBestAvailPos . . . 1780
9.12.3.35 tFNCATEvent . . . 1780
9.12.3.36 tFNCbkUimSlotStatusChangeInd . . . 1780
9.12.3.37 tFNDataCapabilities . . . 1781
9.12.3.38 tFNDataSysStatus . . . 1781
9.12.3.39 tFNDelAssistData . . . 1781
9.12.3.40 tFNDeviceStateChange . . . 1781
9.12.3.41 tFNDHCPv4ClientLeaseStatus . . . 1782
9.12.3.42 tFNDTMFEvent . . . 1782
9.12.3.43 tFNDUNCallInfo . . . 1782
9.12.3.44 tFNEventNmea . . . 1782
9.12.3.45 tFNEventPosition . . . 1783
9.12.3.46 tFNFwDldCompletion . . . 1783
9.12.3.47 tFNGetServer . . . 1783
9.12.3.48 tFNGnssSvInfo . . . 1783
9.12.3.49 tFNHDRPersonaity . . . 1784
9.12.3.50 tFNImsaPdpStatus . . . 1784
9.12.3.51 tFNImsaRatStatus . . . 1784
9.12.3.52 tFNImsaRegStatus . . . 1784

9.12.3.53 tFNImsaSvcStatus . . . 1784
9.12.3.54 tFNImsRegMgrConfig . . . 1785
9.12.3.55 tFNImsSIPConfig . . . 1785
9.12.3.56 tFNImsSMSConfig . . . 1785
9.12.3.57 tFNImsUserConfig . . . 1785
9.12.3.58 tFNImsVoIPConfig . . . 1785
9.12.3.59 tFNInfoRec . . . 1786
9.12.3.60 tFNInjectPosition . . . 1786
9.12.3.61 tFNInjectSensorData . . . 1786
9.12.3.62 tFNInjectTimeStatus . . . 1786
9.12.3.63 tFNInjectUTCTime . . . 1786
9.12.3.64 tFNLUReject . . . 1787
9.12.3.65 tFNMemoryFull . . . 1789
9.12.3.66 tFNMessageWaiting . . . 1789
9.12.3.67 tFNMitiLvlRpt . . . 1789
9.12.3.68 tFNMobileIPStatus . . . 1789
9.12.3.69 tFNModemTempInfo . . . 1789
9.12.3.70 tFNNasTimer . . . 1790
9.12.3.71 tFNNet . . . 1790
9.12.3.72 tFNNetworkReject . . . 1790
9.12.3.73 tFNNetworkTime . . . 1790
9.12.3.74 tFNNewGPS . . . 1791
9.12.3.75 tFNNewNMEA . . . 1791
9.12.3.76 tFNNewRMTransferStatistics . . . 1792
9.12.3.77 tFNNewSMS . . . 1792
9.12.3.78 tFNOMADMState . . . 1792
9.12.3.79 tFNOpMode . . . 1793
9.12.3.80 tFNOTASPStatus . . . 1793
9.12.3.81 tFNPacketSrvState . . . 1794
9.12.3.82 tFNPDSState . . . 1794
9.12.3.83 tFNPower . . . 1794
9.12.3.84 tFNPrivacyChange . . . 1794
9.12.3.85 tFNPSMCfgParamChange . . . 1795
9.12.3.86 tFNQosNWStatus . . . 1795
9.12.3.87 tFNQosPriEvent . . . 1795
9.12.3.88 tFNQosStatus . . . 1795
9.12.3.89 tFNRankIndicator . . . 1796
9.12.3.90 tFNResetInfo . . . 1797
9.12.3.91 tFNRFInfo . . . 1797
9.12.3.92 tFNRoamingIndicator . . . 1797

9.12.3.93 tFNSDKTerminated . . . 1797
9.12.3.94 tFNSensorStreaming . . . 1798
9.12.3.95 tFNServingSystem . . . 1798
9.12.3.96 tFNSetCradleMount . . . 1798
9.12.3.97 tFNSetEngineState . . . 1798
9.12.3.98 tFNSetEventTimeSync . . . 1798
9.12.3.99 tFNSetExtPowerConfig . . . 1799
9.12.3.100 tFNSetServer . . . 1799
9.12.3.101 tFNSigInfo . . . 1799
9.12.3.102 tFNSignalStrength . . . 1799
9.12.3.103 tFNSLQSOMADMAlert . . . 1800
9.12.3.104 tFNSLQSQOSEvent . . . 1800
9.12.3.105 tFNSLQSSessionState . . . 1800
9.12.3.106 tFNSLQSSignalStrengths . . . 1800
9.12.3.107 tFNSLQSWDSEvent . . . 1800
9.12.3.108 tFNSMSEvents . . . 1801
9.12.3.109 tFNSUPSInfo . . . 1801
9.12.3.110 tFNSUPSNotification . . . 1801
9.12.3.111 tFNSwiAvmEventReport . . . 1801
9.12.3.112 tFNSysInfo . . . 1802
9.12.3.113 tFNSysSelectionPref . . . 1802
9.12.3.114 tFNtransLayerInfo . . . 1802
9.12.3.115 tFNtransNWRegInfo . . . 1802
9.12.3.116 tFNUIMRefresh . . . 1802
9.12.3.117 tFNUIMStatusChangeInfo . . . 1803
9.12.3.118 tFNUSSDNotification . . . 1803
9.12.3.119 tFNUSSDNoWaitIndication . . . 1803
9.12.3.120 tFNUSSDRelease . . . 1803
9.12.3.121 transLayerNotification . . . 1803
9.12.3.122 transNWRegInfoNotification . . . 1804
9.12.4 Enumeration Type Documentation . . . 1804
9.12.4.1 device_state_enum . . . 1804
9.12.4.2 eQaQMIService . . . 1805
9.12.4.3 SMSEventType . . . 1805
9.12.4.4 TYPE_OF_SERVICE_DOMAIN . . . 1805
9.12.5 Function Documentation . . . 1805
9.12.5.1 iSetCATEventCallback . . . 1805
9.12.5.2 iSetSignalStrengthCallback . . . 1805
9.12.5.3 iSLQSSetDUNCallInfoCallback . . . 1805
9.12.5.4 iSLQSSetSignalStrengthsCallback . . . 1805

9.12.5.5 iSLQSSetWdsFirstInstEventCallback . . . 1805
9.12.5.6 iSLQSSetWdsSecondInstEventCallback . . . 1805
9.12.5.7 iSLQSSetWdsThirdInstEventCallback . . . 1805
9.12.5.8 iSLQSSetWdsXferStatsFirstInstCallback . . . 1806
9.12.5.9 iSLQSSetWdsXferStatsSecondInstCallback . . . 1806
9.12.5.10 SetActivationStatusCallback . . . 1806
9.12.5.11 SetCATEventCallback . . . 1806
9.12.5.12 SetCfgParamChangeCallback . . . 1807
9.12.5.13 SetDataCapabilitiesCallback . . . 1807
9.12.5.14 SetDeviceStateChangeCbk . . . 1808
9.12.5.15 SetFwDldCompletionCbk . . . 1808
9.12.5.16 SetGPSCallback . . . 1809
9.12.5.17 SetLocBestAvailPosCallback . . . 1809
9.12.5.18 SetLocCradleMountCallback . . . 1809
9.12.5.19 SetLocDeleteAssistDataCallback . . . 1809
9.12.5.20 SetLocEngineStateCallback . . . 1810
9.12.5.21 SetLocEventMaskNMEACallback . . . 1810
9.12.5.22 SetLocEventPositionCallback . . . 1810
9.12.5.23 SetLocEventTimeSyncCallback . . . 1810
9.12.5.24 SetLocGetServerCallback . . . 1811
9.12.5.25 SetLocGnssSvInfoCallback . . . 1811
9.12.5.26 SetLocInjectSensorDataCallback . . . 1811
9.12.5.27 SetLocInjectTimeCallback . . . 1812
9.12.5.28 SetLocOpModeCallback . . . 1812
9.12.5.29 SetLocSensorStreamingCallback . . . 1812
9.12.5.30 SetLocSetExtPowerConfigCallback . . . 1812
9.12.5.31 SetLocSetServerCallback . . . 1813
9.12.5.32 SetLURejectCallback . . . 1813
9.12.5.33 SetMobileIPStatusCallback . . . 1813
9.12.5.34 SetNasLTECphyCaIndCallback . . . 1814
9.12.5.35 SetNetChangeCbk . . . 1814
9.12.5.36 SetNewSMSCallback . . . 1815
9.12.5.37 SetNMEACallback . . . 1815
9.12.5.38 SetOMADMStateCallback . . . 1816
9.12.5.39 SetPDSStateCallback . . . 1816
9.12.5.40 SetPowerCallback . . . 1816
9.12.5.41 SetRankIndicatorCallback . . . 1817
9.12.5.42 SetRFInfoCallback . . . 1817
9.12.5.43 SetRMTransferStatisticsCallback . . . 1817
9.12.5.44 SetRoamingIndicatorCallback . . . 1817

9.12.5.45 SetSignalStrengthCallback . . . 1818
9.12.5.46 SetSLQSOMADMAlertCallback . . . 1819
9.12.5.47 SetSLQSOMADMAlertCallbackExt . . . 1819
9.12.5.48 SetUimSlotStatusChangeCallback . . . 1819
9.12.5.49 SetUSSDNotificationCallback . . . 1820
9.12.5.50 SetUSSDNoWaitIndicationCallback . . . 1820
9.12.5.51 SetUSSDReleaseCallback . . . 1820
9.12.5.52 SLQSNasNetworkRejectCallback . . . 1821
9.12.5.53 SLQSNasNetworkTimeCallBack . . . 1821
9.12.5.54 SLQSNasSigInfo2CallBack . . . 1821
9.12.5.55 SLQSNasSigInfoCallBack . . . 1822
9.12.5.56 SLQSNasSwiOTAMessageCallback . . . 1822
9.12.5.57 SLQSNasSysInfoCallBack . . . 1823
9.12.5.58 SLQSNasTimerCallback . . . 1823
9.12.5.59 SLQSSetBandPreferenceCbk . . . 1824
9.12.5.60 SLQSSetDataSystemStatusCallback . . . 1824
9.12.5.61 SLQSSetDHCPv4ClientLeaseStatusCallback . . . 1824
9.12.5.62 SLQSSetDUNCallInfoCallback . . . 1825
9.12.5.63 SLQSSetIMSAPdpStatusCallback . . . 1825
9.12.5.64 SLQSSetIMSARatStatusCallback . . . 1826
9.12.5.65 SLQSSetIMSARegStatusCallback . . . 1826
9.12.5.66 SLQSSetIMSASvcStatusCallback . . . 1826
9.12.5.67 SLQSSetIMSSMSConfigCallback . . . 1827
9.12.5.68 SLQSSetIMSUserConfigCallback . . . 1827
9.12.5.69 SLQSSetIMSVoIPConfigCallback . . . 1828
9.12.5.70 SLQSSetLocInjectPositionCallback . . . 1828
9.12.5.71 SLQSSetLocInjectUTCTimeCallback . . . 1828
9.12.5.72 SLQSSetModemTempCallback . . . 1828
9.12.5.73 SLQSSetPacketSrvStatusCallback . . . 1829
9.12.5.74 SLQSSetQosEventCallback . . . 1829
9.12.5.75 SLQSSetQosNWStatusCallback . . . 1830
9.12.5.76 SLQSSetQosPriEventCallback . . . 1830
9.12.5.77 SLQSSetQosStatusCallback . . . 1831
9.12.5.78 SLQSSetRegMgrConfigCallback . . . 1831
9.12.5.79 SLQSSetSDKTerminatedCallback . . . 1831
9.12.5.80 SLQSSetServingSystemCallback . . . 1832
9.12.5.81 SLQSSetSessionStateCallback . . . 1832
9.12.5.82 SLQSSetSignalStrengthsCallback . . . 1833
9.12.5.83 SLQSSetSIPConfigCallback . . . 1833
9.12.5.84 SLQSSetSMSEventCallback . . . 1834

9.12.5.85 SLQSSetSwiGetResetInfoCallback . . . 1834
9.12.5.86 SLQSSetSwiHDRPersCallback . . . 1834
9.12.5.87 SLQSSetSysSelectionPrefCallBack . . . 1835
9.12.5.88 SLQSSetTransLayerInfoCallback . . . 1835
9.12.5.89 SLQSSetTransNWRegInfoCallback . . . 1836
9.12.5.90 SLQSSetWdsEventCallback . . . 1836
9.12.5.91 SLQSSetWdsTransferStatisticCallback . . . 1837
9.12.5.92 SLQSSwiAVMSEventReportCallback . . . 1837
9.12.5.93 SLQSTmdMitigationLvlRptCallback . . . 1837
9.12.5.94 SLQSUIMSetRefreshCallBack . . . 1838
9.12.5.95 SLQSUIMSetStatusChangeCallBack . . . 1838
9.12.5.96 SLQSVoiceInfoRecCallback . . . 1838
9.12.5.97 SLQSVoiceSetAllCallStatusCallBack . . . 1839
9.12.5.98 SLQSVoiceSetDTMFEventCallBack . . . 1839
9.12.5.99 SLQSVoiceSetOTASPStatusCallBack . . . 1840
9.12.5.100 SLQSVoiceSetPrivacyChangeCallBack . . . 1840
9.12.5.101 SLQSVoiceSetSUPSCallBack . . . 1841
9.12.5.102 SLQSVoiceSetSUPSNotificationCallback . . . 1841
9.12.5.103 SLQSWmsAsyncRawSendCallBack . . . 1842
9.12.5.104 SLQSWmsMemoryFullCallBack . . . 1842
9.12.5.105 SLQSWmsMessageWaitingCallBack . . . 1842
9.13 qaGobiApiDcs.h File Reference . . . 1843
9.13.1 Detailed Description . . . 1843
9.13.2 Macro Definition Documentation . . . 1844
9.13.2.1 LEN . . . 1844
9.13.2.2 PORTNAM_LEN . . . 1844
9.13.3 Function Documentation . . . 1844
9.13.3.1 GetQmapIsSupported . . . 1844
9.13.3.2 QCWWAN2kConnect . . . 1844
9.13.3.3 QCWWAN2kEnumerateDevices . . . 1845
9.13.3.4 QCWWAN2kGetConnectedDeviceID . . . 1845
9.13.3.5 QCWWANConnect . . . 1846
9.13.3.6 QCWWANDisconnect . . . 1846
9.13.3.7 QCWWANEnumerateDevices . . . 1847
9.13.3.8 SetQmapIPTable . . . 1847
9.13.3.9 SetQmapIPv6Table . . . 1847
9.13.3.10 SetSDKImagePath . . . 1848
9.13.3.11 SLQSGetDeviceMode . . . 1848
9.13.3.12 SLQSGetNetStatistic . . . 1848
9.13.3.13 SLQSGetUsbPortNames . . . 1849

9.13.3.14 SLQSKillSDKProcess . . . 1849
9.13.3.15 SLQSSetLoggingMask . . . 1850
9.13.3.16 SLQSStart . . . 1850
9.13.3.17 SLQSStart_AVAgent . . . 1851
9.13.3.18 SLQSStartSrv . . . 1851
9.14 qaGobiApiDms.h File Reference . . . 1852
9.14.1 Detailed Description . . . 1854
9.14.2 Macro Definition Documentation . . . 1855
9.14.2.1 MAX_CUST_ID_LEN . . . 1855
9.14.2.2 MAX_CUST_VALUE_LEN . . . 1855
9.14.2.3 MAX_DYING_GASP_CFG_SMS_CONTENT_LENGTH . . . 1855
9.14.2.4 MAX_DYING_GASP_CFG_SMS_NUMBER_LENGTH . . . 1855
9.14.2.5 MAX_FSN_LENGTH . . . 1855
9.14.3 Typedef Documentation . . . 1855
9.14.3.1 custFeaturesInfo . . . 1855
9.14.3.2 custFeaturesSetting . . . 1856
9.14.3.3 dmsCurrentPRLInfo . . . 1858
9.14.3.4 ERIFileparams . . . 1858
9.14.3.5 serialNumbersInfo . . . 1858
9.14.3.6 SLQSSwiGetHostDevInfoParams . . . 1859
9.14.3.7 SLQSSwiGetOSInfoParams . . . 1859
9.14.3.8 SLQSSwiGetSerialNoExtParams . . . 1860
9.14.3.9 SLQSSwiSetHostDevInfoParams . . . 1860
9.14.3.10 SLQSSwiSetOSInfoParams . . . 1861
9.14.4 Function Documentation . . . 1861
9.14.4.1 ActivateAutomatic . . . 1861
9.14.4.2 GetActivationState . . . 1862
9.14.4.3 GetDeviceCapabilities . . . 1862
9.14.4.4 GetFirmwareRevision . . . 1863
9.14.4.5 GetFirmwareRevisions . . . 1864
9.14.4.6 GetHardwareRevision . . . 1864
9.14.4.7 GetIMSI . . . 1865
9.14.4.8 GetManufacturer . . . 1865
9.14.4.9 GetModelID . . . 1866
9.14.4.10 GetNetworkTime . . . 1866
9.14.4.11 GetOfflineReason . . . 1867
9.14.4.12 GetPower . . . 1868
9.14.4.13 GetPRLVersion . . . 1868
9.14.4.14 GetSerialNumbers . . . 1869
9.14.4.15 GetVoiceNumber . . . 1869

9.14.4.16 ResetToFactoryDefaults . . . 1870
9.14.4.17 SetPower . . . 1870
9.14.4.18 SLQSDmsSwiGetPCInfo . . . 1871
9.14.4.19 SLQSDmsSwiGetResetInfo . . . 1871
9.14.4.20 SLQSDmsSwiIndicationRegister . . . 1871
9.14.4.21 SLQSGetBandCapabilities . . . 1871
9.14.4.22 SLQSGetBandCapability . . . 1872
9.14.4.23 SLQSGetCurrentPRLInfo . . . 1874
9.14.4.24 SLQSGetCustFeatures . . . 1874
9.14.4.25 SLQSGetCustFeaturesV2 . . . 1875
9.14.4.26 SLQSGetERIFile . . . 1875
9.14.4.27 SLQSGetPowerSaveModeConfig . . . 1876
9.14.4.28 SLQSGetSerialNumbers . . . 1876
9.14.4.29 SLQSSetCustFeatures . . . 1876
9.14.4.30 SLQSSetCustFeaturesV2 . . . 1877
9.14.4.31 SLQSSetPowerSaveModeConfig . . . 1877
9.14.4.32 SLQSSwiClearDyingGaspStatistics . . . 1878
9.14.4.33 SLQSSwiGetCrashAction . . . 1878
9.14.4.34 SLQSSwiGetCrashInfo . . . 1878
9.14.4.35 SLQSSwiGetDyingGaspCfg . . . 1879
9.14.4.36 SLQSSwiGetDyingGaspStatistics . . . 1879
9.14.4.37 SLQSSwiGetFSN . . . 1879
9.14.4.38 SLQSSwiGetFwUpdateStatus . . . 1880
9.14.4.39 SLQSSwiGetHostDevInfo . . . 1880
9.14.4.40 SLQSSwiGetOSInfo . . . 1881
9.14.4.41 SLQSSwiGetSerialNoExt . . . 1881
9.14.4.42 SLQSSwiGetUSBComp . . . 1882
9.14.4.43 SLQSSwiSetCrashAction . . . 1882
9.14.4.44 SLQSSwiSetDyingGaspCfg . . . 1883
9.14.4.45 SLQSSwiSetHostDevInfo . . . 1883
9.14.4.46 SLQSSwiSetOSInfo . . . 1883
9.14.4.47 SLQSSwiSetUSBComp . . . 1884
9.14.4.48 SLQSUIMGetState . . . 1884
9.14.4.49 UIMChangePIN . . . 1885
9.14.4.50 UIMGetControlKeyStatus . . . 1885
9.14.4.51 UIMGetICCID . . . 1886
9.14.4.52 UIMGetPINStatus . . . 1887
9.14.4.53 UIMSetControlKeyProtection . . . 1888
9.14.4.54 UIMSetPINProtection . . . 1888
9.14.4.55 UIMUnblockControlKey . . . 1889

9.14.4.56 UIMUnblockPIN . . . 1890
9.14.4.57 UIMVerifyPIN . . . 1891
9.14.4.58 ValidateSPC . . . 1892
9.15 qaGobiApiFms.h File Reference . . . 1892
9.15.1 Detailed Description . . . 1895
9.15.2 Macro Definition Documentation . . . 1896
9.15.2.1 BUILD_ID_LEN . . . 1896
9.15.2.2 BUILD_ID_MAX_LEN . . . 1896
9.15.2.3 DEVICE_OFFLINE . . . 1896
9.15.2.4 DEVICE_RESET . . . 1896
9.15.2.5 DEVICE_SHUTDOWN . . . 1896
9.15.2.6 FIRMWARE_UPDATE_FAIL . . . 1896
9.15.2.7 FIRMWARE_UPDATE_SUCCESS . . . 1896
9.15.2.8 FIRMWARE_UPGRADE_SUCCESS . . . 1896
9.15.2.9 G3K_FIRMWARE_DOWNLOAD . . . 1896
9.15.2.10 GOBI_LISTENTRIES_MAX . . . 1896
9.15.2.11 GOBI_MBN_BUILD_ID_STR_LEN . . . 1896
9.15.2.12 GOBI_MBN_IMG_ID_STR_LEN . . . 1896
9.15.2.13 GOBI_SET_IMG_PREF_RSPLEN . . . 1896
9.15.2.14 IMG_ID_LEN . . . 1896
9.15.2.15 IMGDETAILS_LEN . . . 1896
9.15.2.16 MAX_IMAGE_IDE_ELEMENTS . . . 1896
9.15.2.17 PRI_UPDATE_FAIL . . . 1896
9.15.2.18 SLQSFWINFO_APPVERSION_SZ . . . 1896
9.15.2.19 SLQSFWINFO_BOOTVERSION_SZ . . . 1896
9.15.2.20 SLQSFWINFO_CARRIER_SZ . . . 1896
9.15.2.21 SLQSFWINFO_CUR_CARR_NAME . . . 1896
9.15.2.22 SLQSFWINFO_CUR_CARR_REV . . . 1896
9.15.2.23 SLQSFWINFO_MODELID_SZ . . . 1896
9.15.2.24 SLQSFWINFO_PACKAGEID_SZ . . . 1896
9.15.2.25 SLQSFWINFO_PRIVERSION_SZ . . . 1896
9.15.2.26 SLQSFWINFO_SKU_SZ . . . 1896
9.15.2.27 SPKG_FIRMWARE_DOWNLOAD . . . 1896
9.15.2.28 UNIQUE_ID_LEN . . . 1897
9.15.3 Enumeration Type Documentation . . . 1897
9.15.3.1 eGobiDeviceSeries . . . 1897
9.15.3.2 eGobiImageCarrier . . . 1897
9.15.3.3 eGobiImageGPS . . . 1898
9.15.3.4 eGobiImageRegion . . . 1898
9.15.3.5 eGobiImageTech . . . 1899

9.15.4 Function Documentation . . . 1899
9.15.4.1 DeleteStoredImage . . . 1899
9.15.4.2 DownloadToSlot . . . 1899
9.15.4.3 eGetDeviceSeries . . . 1900
9.15.4.4 GetImagesPreference . . . 1900
9.15.4.5 GetImageStore . . . 1901
9.15.4.6 GetStoredImages . . . 1901
9.15.4.7 SetImagePath . . . 1902
9.15.4.8 SetImagesPreference . . . 1902
9.15.4.9 SLQSDownloadFirmwareToSlot . . . 1903
9.15.4.10 SLQSGetBootVersionNumber . . . 1904
9.15.4.11 SLQSGetFirmwareInfo . . . 1904
9.15.4.12 SLQSGetImageInfo . . . 1905
9.15.4.13 SLQSGetImageInfo_9x15 . . . 1905
9.15.4.14 SLQSGetImageInfoMC77xx . . . 1906
9.15.4.15 SLQSGetImageInfoMC83xx . . . 1906
9.15.4.16 SLQSGetValidFwPriCombinations . . . 1907
9.15.4.17 SLQSIsSpkgFormatRequired . . . 1907
9.15.4.18 SLQSSetCrashStateCheckIgnore . . . 1908
9.15.4.19 SLQSSetSIMBasedImageSwitching . . . 1908
9.15.4.20 SLQSSetSpkgFormatRequired . . . 1908
9.15.4.21 SLQSSwiGetAllCarrierImages . . . 1909
9.15.4.22 SLQSSwiGetFirmwareCurr . . . 1909
9.15.4.23 SLQSUpgradeFirmware9x07 . . . 1910
9.15.4.24 SLQSUpgradeFirmware9x15 . . . 1910
9.15.4.25 upgrade_9x07_9x50_fw . . . 1911
9.15.4.26 upgrade_mc77xx_fw . . . 1912
9.15.4.27 UpgradeFirmware2k . . . 1912
9.16 qaGobiApiIms.h File Reference . . . 1912
9.16.1 Detailed Description . . . 1913
9.16.2 Function Documentation . . . 1913
9.16.2.1 SLQSGetIMSSMSConfig . . . 1913
9.16.2.2 SLQSGetIMSUserConfig . . . 1914
9.16.2.3 SLQSGetIMSVoIPConfig . . . 1914
9.16.2.4 SLQSGetRegMgrConfig . . . 1915
9.16.2.5 SLQSGetSIPConfig . . . 1915
9.16.2.6 SLQSImsConfigIndicationRegister . . . 1916
9.16.2.7 SLQSSetIMSSMSConfig . . . 1916
9.16.2.8 SLQSSetIMSUserConfig . . . 1917
9.16.2.9 SLQSSetIMSVoIPConfig . . . 1917

9.16.2.10 SLQSSetRegMgrConfig . . . 1918
9.16.2.11 SLQSSetSIPConfig . . . 1918
9.17 qaGobiApiImsa.h File Reference . . . 1919
9.17.1 Detailed Description . . . 1919
9.17.2 Function Documentation . . . 1919
9.17.2.1 SLQSGetIMSARegStatus . . . 1919
9.17.2.2 SLQSGetIMSAServiceStatus . . . 1920
9.17.2.3 SLQSGetIMSASupportedFields . . . 1920
9.17.2.4 SLQSGetIMSASupportedMsg . . . 1921
9.17.2.5 SLQSRegisterIMSAIndication . . . 1921
9.18 qaGobiApiLoc.h File Reference . . . 1922
9.18.1 Detailed Description . . . 1923
9.18.2 Macro Definition Documentation . . . 1923
9.18.2.1 MAX_SENSOR_DATA_LEN . . . 1923
9.18.2.2 MAX_TEMP_DATA_LEN . . . 1923
9.18.3 Function Documentation . . . 1923
9.18.3.1 SLQSLOCDelAssData . . . 1923
9.18.3.2 SLQSLOCEventRegister . . . 1924
9.18.3.3 SLQSLOCGetBestAvailPos . . . 1924
9.18.3.4 SLQSLOCGetServer . . . 1924
9.18.3.5 SLQSLOCInjectPosition . . . 1925
9.18.3.6 SLQSLOCInjectSensorData . . . 1925
9.18.3.7 SLQSLOCInjectUTCTime . . . 1926
9.18.3.8 SLQSLOCSetCradleMountConfig . . . 1926
9.18.3.9 SLQSLOCSetExtPowerState . . . 1927
9.18.3.10 SLQSLOCSetOpMode . . . 1927
9.18.3.11 SLQSLOCSetServer . . . 1928
9.18.3.12 SLQSLOCStart . . . 1928
9.18.3.13 SLQSLOCStop . . . 1928
9.18.3.14 SwiLocGetAutoStart . . . 1929
9.18.3.15 SwiLocSetAutoStart . . . 1929
9.19 qaGobiApiNas.h File Reference . . . 1929
9.19.1 Detailed Description . . . 1935
9.19.2 Macro Definition Documentation . . . 1935
9.19.2.1 IMSI_M_S1_LENGTH . . . 1935
9.19.2.2 IMSI_M_S2_LENGTH . . . 1935
9.19.2.3 MAX_DATA_SRV_CAPABILITIES . . . 1935
9.19.2.4 MAX_DESCRIPTION_LENGTH . . . 1935
9.19.2.5 MAX_PILOT_SETS . . . 1935
9.19.2.6 MAX_SERV_SYSTEM_RADIO_INTERFACES . . . 1935

9.19.2.7 NAM_NAME_LENGTH . . . 1935
9.19.2.8 NAS_MAX_SCC_RX_INFO_INSTANCES . . . 1935
9.19.2.9 NAS_SIG_INFO_MAX_TDSCDMA_THRESHOLDS_LIST_SIZE . . . 1935
9.19.2.10 NAS_SIG_INFO_MIN_dB_FLOAT_VALUE . . . 1936
9.19.2.11 NAS_SIG_INFO_MIN_dBm_FLOAT_VALUE . . . 1936
9.19.2.12 PLMN_LENGTH . . . 1936
9.19.2.13 SLQS_SS_INFO_LIST_MAX_ELEMENTS . . . 1936
9.19.2.14 SLQS_SYSTEM_ID_SIZE . . . 1936
9.19.2.15 UATISIZE . . . 1936
9.19.3 Typedef Documentation . . . 1936
9.19.3.1 SlqsNas3GppNetworkRAT . . . 1936
9.19.3.2 slqsNetworkScanInfo . . . 1936
9.19.3.3 sysSelectPrefExtInfo . . . 1937
9.19.3.4 sysSelectPrefInfo . . . 1938
9.19.3.5 sysSelectPrefParams . . . 1942
9.19.4 Enumeration Type Documentation . . . 1948
9.19.4.1 _NAMS_RADIO_IF_TECHNOLOGY_ . . . 1948
9.19.4.2 eSYS_SRV_DOMAIN . . . 1948
9.19.4.3 NAS_LTE_CPHY_CA_BW_NRB . . . 1949
9.19.4.4 NAS_LTE_CPHY_SCELL_STATE . . . 1949
9.19.5 Function Documentation . . . 1949
9.19.5.1 GetACCOLC . . . 1949
9.19.5.2 GetANAAAAuthenticationStatus . . . 1949
9.19.5.3 GetCDMANetworkParameters . . . 1950
9.19.5.4 GetHomeNetwork . . . 1952
9.19.5.5 GetHomeNetwork3GPP2 . . . 1952
9.19.5.6 GetNetworkPreference . . . 1954
9.19.5.7 GetRFInfo . . . 1955
9.19.5.8 GetServingNetwork . . . 1955
9.19.5.9 GetServingNetworkCapabilities . . . 1956
9.19.5.10 GetSignalStrengths . . . 1957
9.19.5.11 InitiateDomainAttach . . . 1958
9.19.5.12 InitiateNetworkRegistration . . . 1958
9.19.5.13 PerformNetworkScan . . . 1959
9.19.5.14 SetACCOLC . . . 1959
9.19.5.15 SetCDMANetworkParameters . . . 1960
9.19.5.16 SetNetworkPreference . . . 1961
9.19.5.17 SLQSConfigSigInfo . . . 1962
9.19.5.18 SLQSGetErrorRate . . . 1963
9.19.5.19 SLQSGetNetworkTime . . . 1963

9.19.5.20 SLQSGetOperatorNameData . . . 1963
9.19.5.21 SLQSGetPLMNName . . . 1964
9.19.5.22 SLQSGetServingSystem . . . 1964
9.19.5.23 SLQSGetSignalStrength . . . 1965
9.19.5.24 SLQSGetSysSelectionPref . . . 1965
9.19.5.25 SLQSGetSysSelectionPrefExt . . . 1966
9.19.5.26 SLQSInitiateNetworkRegistration . . . 1966
9.19.5.27 SLQSNasConfigSigInfo2 . . . 1967
9.19.5.28 SLQSNasGet3GPP2Subscription . . . 1967
9.19.5.29 SLQSNasGetCellLocationInfo . . . 1968
9.19.5.30 SLQSNASGeteDRXParams . . . 1968
9.19.5.31 SLQSNasGetHDRColorCode . . . 1968
9.19.5.32 SLQSNASGetLTECPHYCaInfo . . . 1969
9.19.5.33 SLQSNasGetRFInfo . . . 1969
9.19.5.34 SLQSNasGetSigInfo . . . 1970
9.19.5.35 SLQSNasGetSysInfo . . . 1970
9.19.5.36 SLQSNasGetTxRxInfo . . . 1971
9.19.5.37 SLQSNasIndicationRegister . . . 1971
9.19.5.38 SLQSNasIndicationRegisterExt . . . 1972
9.19.5.39 SLQSNasIndicationRegisterLTECphyCa . . . 1972
9.19.5.40 SLQSNASSeteDRXParams . . . 1973
9.19.5.41 SLQSNASSwiGetChannelLock . . . 1973
9.19.5.42 SLQSNasSwiIndicationRegister . . . 1974
9.19.5.43 SLQSNasSwiModemStatus . . . 1974
9.19.5.44 SLQSNASSwiSetChannelLock . . . 1974
9.19.5.45 SLQSPerformNetworkScan . . . 1975
9.19.5.46 SLQSSetBandPreference . . . 1975
9.19.5.47 SLQSSetSysSelectionPref . . . 1977
9.19.5.48 SLQSSetSysSelectionPrefExt . . . 1977
9.19.5.49 SLQSSwiGetHDRPersonality . . . 1978
9.19.5.50 SLQSSwiGetHDRProtSubtype . . . 1978
9.19.5.51 SLQSSwiGetHRPDStats . . . 1978
9.19.5.52 SLQSSwiGetLteCQI . . . 1979
9.19.5.53 SLQSSwiGetLteSccRxInfo . . . 1979
9.19.5.54 SLQSSwiNetworkDebug . . . 1980
9.19.5.55 SLQSSwiPSDetach . . . 1980
9.20 qaGobiApiOmadm.h File Reference . . . 1980
9.20.1 Detailed Description . . . 1981
9.20.2 Function Documentation . . . 1981
9.20.2.1 OMADMCancelSession . . . 1981

9.20.2.2 OMADMGetPendingNIA . . . 1981
9.20.2.3 OMADMGetSessionInfo . . . 1982
9.20.2.4 OMADMStartSession . . . 1983
9.21 qaGobiApiPds.h File Reference . . . 1983
9.21.1 Detailed Description . . . 1984
9.21.2 Macro Definition Documentation . . . 1985
9.21.2.1 DEFAULTBYTEVALUE . . . 1985
9.21.2.2 DEFAULTLONGVALUE . . . 1985
9.21.2.3 DEFAULTWORDVALUE . . . 1985
9.21.3 Enumeration Type Documentation . . . 1985
9.21.3.1 anonymous enum . . . 1985
9.21.4 Function Documentation . . . 1985
9.21.4.1 ForceXTRADownload . . . 1985
9.21.4.2 GetPDSDefaults . . . 1985
9.21.4.3 GetPDSState . . . 1986
9.21.4.4 GetPortAutomaticTracking . . . 1987
9.21.4.5 GetServiceAutomaticTracking . . . 1987
9.21.4.6 GetXTRAAutomaticDownload . . . 1987
9.21.4.7 GetXTRANetwork . . . 1988
9.21.4.8 GetXTRAValidity . . . 1988
9.21.4.9 PDSInjectTimeReference . . . 1989
9.21.4.10 ResetPDSData . . . 1989
9.21.4.11 SetPDSDefaults . . . 1990
9.21.4.12 SetPDSState . . . 1991
9.21.4.13 SetPortAutomaticTracking . . . 1992
9.21.4.14 SetServiceAutomaticTracking . . . 1992
9.21.4.15 SetXTRAAutomaticDownload . . . 1992
9.21.4.16 SetXTRANetwork . . . 1993
9.21.4.17 SLQSGetAGPSConfig . . . 1993
9.21.4.18 SLQSGetGPSStateInfo . . . 1994
9.21.4.19 SLQSPDSDeterminePosition . . . 1995
9.21.4.20 SLQSPDSInjectAbsoluteTimeReference . . . 1995
9.21.4.21 SLQSPDSInjectPositionData . . . 1995
9.21.4.22 SLQSSetAGPSConfig . . . 1996
9.21.4.23 SLQSSetPositionMethodState . . . 1997
9.21.4.24 StartPDSTrackingSessionExt . . . 1997
9.21.4.25 StopPDSTrackingSession . . . 1998
9.22 qaGobiApiQos.h File Reference . . . 1998
9.22.1 Detailed Description . . . 1999
9.22.2 Macro Definition Documentation . . . 1999

9.22.2.1 MAX_QOS_FILTER_TLV . . . 1999
9.22.2.2 MAX_QOS_SPEC_PER_APN . . . 1999
9.22.3 Function Documentation . . . 1999
9.22.3.1 SetQosMuxID . . . 1999
9.22.3.2 SLQSQosGetFlowStatus . . . 2000
9.22.3.3 SLQSQosGetGranted . . . 2000
9.22.3.4 SLQSQosGetNetworkStatus . . . 2000
9.22.3.5 SLQSQosGetNWProf . . . 2001
9.22.3.6 SLQSQosModify . . . 2001
9.22.3.7 SLQSQosRel . . . 2002
9.22.3.8 SLQSQosReq . . . 2002
9.22.3.9 SLQSQosReset . . . 2003
9.22.3.10 SLQSQosResume . . . 2003
9.22.3.11 SLQSQosSuspend . . . 2004
9.22.3.12 SLQSQosSwiReadApnExtraParams . . . 2004
9.22.3.13 SLQSQosSwiReadDataStats . . . 2005
9.23 qaGobiApiRms.h File Reference . . . 2005
9.23.1 Detailed Description . . . 2005
9.23.2 Function Documentation . . . 2005
9.23.2.1 GetSMSWake . . . 2005
9.23.2.2 SetSMSWake . . . 2006
9.24 qaGobiApiSar.h File Reference . . . 2006
9.24.1 Detailed Description . . . 2007
9.24.2 Enumeration Type Documentation . . . 2007
9.24.2.1 eQMISARRFState . . . 2007
9.24.3 Function Documentation . . . 2008
9.24.3.1 SLQSGetRfSarState . . . 2008
9.24.3.2 SLQSSetRfSarState . . . 2008
9.25 qaGobiApiSms.h File Reference . . . 2009
9.25.1 Detailed Description . . . 2011
9.25.2 Macro Definition Documentation . . . 2011
9.25.2.1 ABSOLUTE_VALIDITY . . . 2011
9.25.2.2 CONFIG_LEN . . . 2011
9.25.2.3 MAX_SMS_ROUTES . . . 2011
9.25.2.4 NUM_OF_SET . . . 2011
9.25.2.5 TIME_DATE_BUF . . . 2011
9.25.2.6 TIME_STAMP_BUF . . . 2011
9.25.3 Typedef Documentation . . . 2011
9.25.3.1 getIndicationRegResp . . . 2011
9.25.3.2 getTransLayerInfoResp . . . 2012

9.25.3.3 getTransNWRegInfoResp . . . 2012
9.25.3.4 qaQmi3GPP2BroadcastCfgInfo . . . 2013
9.25.3.5 qaQmi3GPPBroadcastCfgInfo . . . 2013
9.25.3.6 setIndicationRegReq . . . 2013
9.25.3.7 transLayerInfo . . . 2014
9.25.4 Function Documentation . . . 2014
9.25.4.1 GetSMSCAddress . . . 2014
9.25.4.2 SaveSMS . . . 2015
9.25.4.3 SendSMS . . . 2016
9.25.4.4 SetSMSCAddress . . . 2017
9.25.4.5 SLQSCDMADecodeMTTextMsg . . . 2017
9.25.4.6 SLQSCDMADecodeMTTextMsgExt . . . 2017
9.25.4.7 SLQSCDMAEncodeMOTextMsg . . . 2018
9.25.4.8 SLQSDeleteSMS . . . 2018
9.25.4.9 SLQSGetIndicationRegister . . . 2019
9.25.4.10 SLQSGetMessageWaiting . . . 2020
9.25.4.11 SLQSGetSMS . . . 2020
9.25.4.12 SLQSGetSmsBroadcastConfig . . . 2021
9.25.4.13 SLQSGetSMSList . . . 2022
9.25.4.14 SLQSGetTransLayerInfo . . . 2023
9.25.4.15 SLQSGetTransNWRegInfo . . . 2023
9.25.4.16 SLQSModifySMSStatus . . . 2023
9.25.4.17 SLQSSendAsyncSMS . . . 2024
9.25.4.18 SLQSSendLongSMS . . . 2025
9.25.4.19 SLQSSendSMS . . . 2025
9.25.4.20 SLQSSetIndicationRegister . . . 2026
9.25.4.21 SLQSSetSmsBroadcastActivation . . . 2026
9.25.4.22 SLQSSetSmsBroadcastConfig . . . 2027
9.25.4.23 SLQSSetSmsStorage . . . 2027
9.25.4.24 SLQSSmsGetMaxStorageSize . . . 2028
9.25.4.25 SLQSSmsGetMessageProtocol . . . 2028
9.25.4.26 SLQSSmsSetRoutes . . . 2029
9.25.4.27 SLQSSwiGetSMSStorage . . . 2029
9.25.4.28 SLQSWCDMADecodeLongTextMsg . . . 2030
9.25.4.29 SLQSWCDMADecodeMTTextMsg . . . 2030
9.25.4.30 SLQSWCDMAEncodeMOTextMsg . . . 2031
9.26 qaGobiApiSwi.h File Reference . . . 2031
9.26.1 Detailed Description . . . 2031
9.26.2 Function Documentation . . . 2031
9.26.2.1 SLQSGetPidof . . . 2031

9.26.2.2 SLQSGetSdkVersion . . . 2032
9.26.2.3 SLQSSendRawQMI . . . 2032
9.27 qaGobiApiSwiAudio.h File Reference . . . 2032
9.27.1 Detailed Description . . . 2033
9.27.2 Macro Definition Documentation . . . 2033
9.27.2.1 MAX_LEN_IFACE_TABLE . . . 2033
9.27.3 Function Documentation . . . 2033
9.27.3.1 SLQSGetM2MAudioProfile . . . 2033
9.27.3.2 SLQSGetM2MAudioVolume . . . 2034
9.27.3.3 SLQSGetM2MAVMute . . . 2034
9.27.3.4 SLQSGetM2MSpkrGain . . . 2035
9.27.3.5 SLQSSetM2MAudioAVCFG . . . 2035
9.27.3.6 SLQSSetM2MAudioLPBK . . . 2035
9.27.3.7 SLQSSetM2MAudioNVDef . . . 2036
9.27.3.8 SLQSSetM2MAudioProfile . . . 2036
9.27.3.9 SLQSSetM2MAudioVolume . . . 2036
9.27.3.10 SLQSSetM2MAVMute . . . 2037
9.27.3.11 SLQSSetM2MSpkrGain . . . 2037
9.28 qaGobiApiSwiAvms.h File Reference . . . 2038
9.28.1 Detailed Description . . . 2040
9.28.2 Macro Definition Documentation . . . 2040
9.28.2.1 MAX_AVMS_RETRY_TIMER_NUMBER . . . 2040
9.28.2.2 MAX_GET_SETTINGS_AVMS_APN_STRING_LENGTH . . . 2040
9.28.2.3 MAX_GET_SETTINGS_AVMS_PWD_STRING_LENGTH . . . 2040
9.28.2.4 MAX_GET_SETTINGS_AVMS_UNAME_STRING_LENGTH . . . 2040
9.28.2.5 MAX_SWI_AVMS_SET_SETTING_APN_LENGTH . . . 2040
9.28.2.6 MAX_SWI_AVMS_SET_SETTING_CONNECTION_RETRY_TIMMERS . . . 2040
9.28.2.7 MAX_SWI_AVMS_SET_SETTING_PWD_LENGTH . . . 2040
9.28.2.8 MAX_SWI_AVMS_SET_SETTING_UNAME_LENGTH . . . 2040
9.28.2.9 QMISWIAVMSSESSIONGETINFO_BINARYUPDATESESSIONINFO_DESC_LENGTH . . . 2040
9.28.2.10 QMISWIAVMSSESSIONGETINFO_BINARYUPDATESESSIONINFO_NAME_LENGTH . . . 2040
9.28.2.11 QMISWIAVMSSESSIONGETINFO_BINARYUPDATESESSIONINFO_VERSION_LENGTH . . . 2040
9.28.2.12 QMISWIAVMSSESSIONGETINFO_CONFIG_ALERT_MSG_LENGTH . . . 2040
9.28.3 Typedef Documentation . . . 2040
9.28.3.1 QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp . . . 2040
9.28.3.2 QmiSwiAvmsEventReportConfigResp . . . 2041
9.28.3.3 QmiSwiAvmsEventReportConnectionRequestResp . . . 2041
9.28.3.4 QmiSwiAvmsEventReportDataSessionStatusResp . . . 2042

9.28.3.5 QmiSwiAvmsEventReportHTTPStatusResp . . . 2042
9.28.3.6 QmiSwiAvmsEventReportNotificationResp . . . 2043
9.28.3.7 QmiSwiAvmsEventReportPackageIDResp . . . 2044
9.28.3.8 QmiSwiAvmsEventReportRegStatusResp . . . 2044
9.28.3.9 QmiSwiAvmsEventReportSessionTypeResp . . . 2045
9.28.3.10 QmiSwiAvmsEventReportWAMSParamChangeResp . . . 2045
9.28.3.11 QmiSwiAvmsSetSettingsAPNInfo . . . 2045
9.28.3.12 QmiSwiAvmsSetSettingsConnectionRetryTimers . . . 2045
9.28.3.13 QmiSwiAvmsSetSettingsPeriodInfo . . . 2045
9.28.3.14 SLQSAVMSSetSettingsReq . . . 2045
9.28.3.15 SLQSAVMSSetSettingsReq_v2 . . . 2046
9.28.3.16 SLQSAVMSSettings . . . 2048
9.28.3.17 SLQSAVMSSettings_v2 . . . 2048
9.28.3.18 SLQSAVMSSettingsAPNInfo . . . 2048
9.28.3.19 SLQSAVMSSettingsConnectionRetryTimers . . . 2048
9.28.3.20 SLQSAVMSSettingsPeriodsInfo . . . 2048
9.28.4 Function Documentation . . . 2048
9.28.4.1 SLQSAVMSGetSessionInfo . . . 2048
9.28.4.2 SLQSAVMSGetSettings . . . 2048
9.28.4.3 SLQSAVMSGetSettings_v2 . . . 2049
9.28.4.4 SLQSAVMSSelection . . . 2049
9.28.4.5 SLQSAVMSSetEventReport . . . 2049
9.28.4.6 SLQSAVMSSetSettings . . . 2050
9.28.4.7 SLQSAVMSSetSettings_v2 . . . 2050
9.28.4.8 SLQSAVMSSetSettingsIgnoreAutoReboot . . . 2051
9.28.4.9 SLQSAVMSStartSession . . . 2051
9.28.4.10 SLQSAVMSStopSession . . . 2052
9.29 qaGobiApiSwiDms.h File Reference . . . 2052
9.29.1 Detailed Description . . . 2052
9.29.2 Function Documentation . . . 2053
9.29.2.1 SLQSSwiDmsGetMTU . . . 2053
9.29.2.2 SLQSSwiDmsGetUsbNetNum . . . 2053
9.29.2.3 SLQSSwiDmsSetMTU . . . 2053
9.29.2.4 SLQSSwiDmsSetUsbNetNum . . . 2054
9.30 qaGobiApiSwiOmadms.h File Reference . . . 2054
9.30.1 Detailed Description . . . 2055
9.30.2 Typedef Documentation . . . 2055
9.30.2.1 SLQSOMADMSessionInfo . . . 2055
9.30.2.2 SLQSOMADMSettings . . . 2057
9.30.2.3 SLQSOMADMSettingsReqParams . . . 2058

9.30.2.4 SLQSOMADMSettingsReqParams3 . . . 2058
9.30.3 Function Documentation . . . 2059
9.30.3.1 SLQSOMADMCancelSession . . . 2059
9.30.3.2 SLQSOMADMGetSessionInfo . . . 2060
9.30.3.3 SLQSOMADMGetSettings . . . 2060
9.30.3.4 SLQSOMADMGetSettings2 . . . 2061
9.30.3.5 SLQSOMADMSendSelection . . . 2061
9.30.3.6 SLQSOMADMSendSelection2 . . . 2062
9.30.3.7 SLQSOMADMSetSettings . . . 2062
9.30.3.8 SLQSOMADMSetSettings2 . . . 2063
9.30.3.9 SLQSOMADMSetSettings3 . . . 2063
9.30.3.10 SLQSOMADMStartSession . . . 2064
9.30.3.11 SLQSOMADMStartSession2 . . . 2064
9.31 qaGobiApiTableBandClasses.h File Reference . . . 2065
9.31.1 Detailed Description . . . 2065
9.31.2 Band Classes (Value - Description) . . . 2065
9.31.2.1 LTE Bands . . . 2066
9.32 qaGobiApiTableCallControlReturnReasons.h File Reference . . . 2068
9.32.1 Detailed Description . . . 2068
9.32.2 S1 . . . 2068
9.33 qaGobiApiTableCallEndReasons.h File Reference . . . 2068
9.33.1 Detailed Description . . . 2068
9.33.2 Call end reason codes (Code - Reason) . . . 2069
9.33.2.1 Technology-agnostic call end reasons . . . 2069
9.33.2.2 EVDO CDMA 1xEV-DO . . . 2069
9.33.2.3 WCDMA/GSM call end reasons . . . 2070
9.33.2.4 EVDO CDMA 1xEV-DO . . . 2072
9.33.2.5 call end reason type . . . 2072
9.33.2.6 Mobile IP call end reasons (Type=1) . . . 2072
9.33.2.7 Internal call end reasons (Type=2) . . . 2074
9.33.2.8 Call Manager defined call end reasons (Type=3) . . . 2077
9.33.2.9 3GPP specification defined call end reasons (Type=6) . . . 2081
9.33.2.10 PPP call end reasons (Type=7) . . . 2083
9.33.2.11 EHRPD call end reasons (Type=8) . . . 2084
9.33.2.12 IPV6 call end reasons (Type=9) . . . 2085
9.34 qaGobiApiTableCarrierCodes.h File Reference . . . 2085
9.34.1 Detailed Description . . . 2085
9.34.2 Carrier Codes (Number - Carrier) . . . 2085
9.35 qaGobiApiTableCodingScheme.h File Reference . . . 2087
9.35.1 Detailed Description . . . 2087

9.35.2 S1 . . . 2087
9.35.2.1 Use of bits 3..0\n\n . . . 2087
9.35.3 Coding Group Bits 7..4(0001) . . . 2087
9.35.3.1 use of bits 3..0 . . . 2087
9.35.4 Coding Group Bits 7..4(0010) . . . 2088
9.35.4.1 use of bits 3..0 . . . 2088
9.35.5 Coding Group Bits 7..4(0011) . . . 2088
9.35.5.1 use of bits 3..0 . . . 2088
9.35.6 Coding Group Bits 7..4(01xx) . . . 2088
9.35.6.1 use of bits 3..0 . . . 2088
9.35.7 Coding Group Bits 7..4(1001) . . . 2089
9.35.7.1 Reserved coding groups . . . 2089
9.35.8 Coding Group Bits 7..4(1010..1101) . . . 2089
9.35.8.1 Reserved coding groups . . . 2089
9.35.9 Coding Group Bits 7..4(1110) . . . 2089
9.35.9.1 Defined by the WAP Forum . . . 2089
9.35.10 Coding Group Bits 7..4 (1111) . . . 2089
9.35.10.1 Data coding / message handling . . . 2089
9.35.11 Macro Definition Documentation . . . 2089
9.35.11.1 __GOBI_API_CODING_SCHEME_H__ . . . 2089
9.36 qaGobiApiTableGpsCapabilityCodes.h File Reference . . . 2089
9.36.1 Detailed Description . . . 2090
9.36.2 GPS capability (Value - Capability) . . . 2090
9.37 qaGobiApiTablePowerModes.h File Reference . . . 2090
9.37.1 Detailed Description . . . 2090
9.37.2 Power Modes (Value - Description) . . . 2090
9.38 qaGobiApiTableRadioInterfaces.h File Reference . . . 2091
9.38.1 Detailed Description . . . 2091
9.38.2 Radio interface . . . 2091
9.38.2.1 Technology (Value - Radio Interface Technology) . . . 2091
9.39 qaGobiApiTableRegionCodes.h File Reference . . . 2091
9.39.1 Detailed Description . . . 2091
9.39.2 Region Codes (Code - Region) . . . 2091
9.40 qaGobiApiTableServiceOptions.h File Reference . . . 2092
9.40.1 Detailed Description . . . 2092
9.40.2 Service Option codes (Code - Reason) . . . 2092
9.40.2.1 Description . . . 2092
9.41 qaGobiApiTableSupServiceInfoClasses.h File Reference . . . 2094
9.41.1 Detailed Description . . . 2094
9.41.2 Supplementary Service Information Classes (Value - Service Class) . . . 2094

9.42 qaGobiApiTableSwiAudio.h File Reference . . . 2094
9.42.1 Detailed Description . . . 2094
9.42.2 ACDB Device (Device ID - description) . . . 2095
9.42.3 Physical Interface (Device ID - description - Interface parameters) . . . 2095
9.43 qaGobiApiTableSwiOMADMSessionStatus.h File Reference . . . 2095
9.43.1 Detailed Description . . . 2095
9.43.2 OMA DM Session Status (Session Status - Meaning - Usage) . . . 2095
9.44 qaGobiApiTableSwiOMADMUpdateCompleteStatus.h File Reference . . . 2096
9.44.1 Detailed Description . . . 2096
9.44.2 OMA DM Update Complete Status (Update Complete Status - Meaning - Usage) . . . 2096
9.45 qaGobiApiTableVoiceCallEndReasons.h File Reference . . . 2097
9.45.1 Detailed Description . . . 2097
9.45.2 Voice Call and supplementary services end reason codes (Code - Reason) . . . 2098
9.45.2.1 General . . . 2098
9.45.2.2 service Errors . . . 2099
9.45.2.3 control cause values . . . 2100
9.45.2.4 reject causes . . . 2102
9.45.2.5 reject causes . . . 2102
9.45.2.6 reject causes . . . 2103
9.45.2.7 stratum reject causes . . . 2103
9.45.2.8 reject causes . . . 2103
9.45.2.9 IP end reasons . . . 2103
9.46 qaGobiApiTmd.h File Reference . . . 2104
9.46.1 Detailed Description . . . 2104
9.46.2 Macro Definition Documentation . . . 2104
9.46.2.1 MAX_MITIGATION_DEV_ID_LEN . . . 2104
9.46.2.2 MAX_MITIGATION_DEV_LIST_LEN . . . 2104
9.46.3 Function Documentation . . . 2104
9.46.3.1 SLQSTmdDeRegNotMitigationLvl . . . 2104
9.46.3.2 SLQSTmdGetMitigationDevList . . . 2105
9.46.3.3 SLQSTmdGetMitigationLvl . . . 2105
9.46.3.4 SLQSTmdRegNotMitigationLvl . . . 2105
9.47 qaGobiApiUim.h File Reference . . . 2106
9.47.1 Detailed Description . . . 2108
9.47.2 Macro Definition Documentation . . . 2108
9.47.2.1 MAX_ACTIVE_PERS_FEATURES . . . 2108
9.47.2.2 MAX_CONTENT_LENGTH . . . 2108
9.47.2.3 MAX_DESCRIPTION_LENGTH . . . 2108
9.47.2.4 MAX_ICCID_LENGTH . . . 2108
9.47.2.5 MAX_NO_OF_APPLICATIONS . . . 2108

9.47.2.6 MAX_NO_OF_SLOTS . . . 2108
9.47.2.7 MAX_PATH_LENGTH . . . 2108
9.47.2.8 MAX_PUK_LENGTH . . . 2108
9.47.2.9 MAX_SLOTS_STATUS . . . 2108
9.47.3 Function Documentation . . . 2108
9.47.3.1 SLQSUIMAuthenticate . . . 2108
9.47.3.2 SLQSUIMChangePin . . . 2109
9.47.3.3 SLQSUIMDepersonalization . . . 2109
9.47.3.4 SLQSUIMEventRegister . . . 2110
9.47.3.5 SLQSUIMGetCardStatus . . . 2110
9.47.3.6 SLQSUIMGetConfiguration . . . 2111
9.47.3.7 SLQSUIMGetFileAttributes . . . 2111
9.47.3.8 SLQSUIMGetSlotsStatus . . . 2112
9.47.3.9 SLQSUIMPowerDown . . . 2112
9.47.3.10 SLQSUIMPowerUp . . . 2113
9.47.3.11 SLQSUIMReadTransparent . . . 2113
9.47.3.12 SLQSUIMRefreshComplete . . . 2114
9.47.3.13 SLQSUIMRefreshGetLastEvent . . . 2114
9.47.3.14 SLQSUIMRefreshOK . . . 2115
9.47.3.15 SLQSUIMRefreshRegister . . . 2115
9.47.3.16 SLQSUIMReset . . . 2116
9.47.3.17 SLQSUIMSetPinProtection . . . 2116
9.47.3.18 SLQSUIMSwitchSlot . . . 2117
9.47.3.19 SLQSUIMUnblockPin . . . 2117
9.47.3.20 SLQSUIMVerifyPin . . . 2118
9.48 qaGobiApiVoice.h File Reference . . . 2118
9.48.1 Detailed Description . . . 2121
9.48.2 Macro Definition Documentation . . . 2121
9.48.2.1 MAX_CALL_NO_LEN . . . 2121
9.48.2.2 MAX_DESCRIPTION_LENGTH . . . 2121
9.48.2.3 MAX_NO_OF_CALLS . . . 2121
9.48.2.4 MAXUSSDLENGTH . . . 2122
9.48.2.5 PASSWORD_LENGTH . . . 2122
9.48.3 Enumeration Type Documentation . . . 2122
9.48.3.1 serviceClassInformation . . . 2122
9.48.4 Function Documentation . . . 2122
9.48.4.1 AnswerUSSD . . . 2122
9.48.4.2 CancelUSSD . . . 2122
9.48.4.3 OriginateUSSD . . . 2123
9.48.4.4 SLQSOriginateUSSD . . . 2123

9.48.4.5 SLQSVoiceALSSelectLine . . . 2124
9.48.4.6 SLQSVoiceALSSetLineSwitching . . . 2124
9.48.4.7 SLQSVoiceAnswerCall . . . 2125
9.48.4.8 SLQSVoiceBindSubscription . . . 2125
9.48.4.9 SLQSVoiceBurstDTMF . . . 2126
9.48.4.10 SLQSVoiceDialCall . . . 2126
9.48.4.11 SLQSVoiceEndCall . . . 2127
9.48.4.12 SLQSVoiceGetAllCallInfo . . . 2127
9.48.4.13 SLQSVoiceGetCallBarring . . . 2128
9.48.4.14 SLQSVoiceGetCallForwardingStatus . . . 2128
9.48.4.15 SLQSVoiceGetCallInfo . . . 2129
9.48.4.16 SLQSVoiceGetCallWaiting . . . 2130
9.48.4.17 SLQSVoiceGetCLIP . . . 2130
9.48.4.18 SLQSVoiceGetCLIR . . . 2131
9.48.4.19 SLQSVoiceGetCNAP . . . 2131
9.48.4.20 SLQSVoiceGetCOLP . . . 2132
9.48.4.21 SLQSVoiceGetCOLR . . . 2132
9.48.4.22 SLQSVoiceGetConfig . . . 2133
9.48.4.23 SLQSVoiceIndicationRegister . . . 2133
9.48.4.24 SLQSVoiceManageCalls . . . 2134
9.48.4.25 SLQSVoiceOrigUSSDNoWait . . . 2134
9.48.4.26 SLQSVoiceSendFlash . . . 2135
9.48.4.27 SLQSVoiceSetCallBarringPassword . . . 2135
9.48.4.28 SLQSVoiceSetConfig . . . 2136
9.48.4.29 SLQSVoiceSetPreferredPrivacy . . . 2137
9.48.4.30 SLQSVoiceSetSUPSService . . . 2137
9.48.4.31 SLQSVoiceStartContDTMF . . . 2138
9.48.4.32 SLQSVoiceStopContDTMF . . . 2138
9.49 qaGobiApiWds.h File Reference . . . 2139
9.49.1 Detailed Description . . . 2142
9.49.2 Macro Definition Documentation . . . 2142
9.49.2.1 IPV6_ADDRESS_ARRAY_SIZE . . . 2142
9.49.3 Typedef Documentation . . . 2142
9.49.3.1 GetProfileSettingIn . . . 2142
9.49.3.2 GetProfileSettingOut . . . 2143
9.49.3.3 QmiProfileInfo . . . 2143
9.49.3.4 QmiWDSDataBearers . . . 2143
9.49.3.5 QmiWDSDataBearerTechnology . . . 2144
9.49.3.6 slqs3GPPConfigItem . . . 2145
9.49.4 Enumeration Type Documentation . . . 2146

9.49.4.1 qmiDataBearerMasks . . . 2146
9.49.5 Function Documentation . . . 2146
9.49.5.1 GetAutoconnect . . . 2146
9.49.5.2 GetByteTotals . . . 2146
9.49.5.3 GetConnectionRate . . . 2147
9.49.5.4 GetDataBearerTechnology . . . 2148
9.49.5.5 GetDefaultProfile . . . 2149
9.49.5.6 GetDefaultProfileLTE . . . 2150
9.49.5.7 GetDefaultProfileNum . . . 2152
9.49.5.8 GetDormancyState . . . 2152
9.49.5.9 GetIPAddressLTE . . . 2153
9.49.5.10 GetLastMobileIPError . . . 2153
9.49.5.11 GetMobileIP . . . 2154
9.49.5.12 GetMobileIPProfile . . . 2154
9.49.5.13 GetPacketStatistics . . . 2156
9.49.5.14 GetPacketStatus . . . 2156
9.49.5.15 GetSessionDuration . . . 2157
9.49.5.16 GetSessionState . . . 2158
9.49.5.17 iGetByteTotals . . . 2158
9.49.5.18 iGetConnectionRate . . . 2158
9.49.5.19 iGetPacketStatistics . . . 2158
9.49.5.20 iSLQSMISetIPFamilyPreference . . . 2158
9.49.5.21 RMSetTransferStatistics . . . 2158
9.49.5.22 SetActiveMobileIPProfile . . . 2159
9.49.5.23 SetAutoconnect . . . 2159
9.49.5.24 SetDefaultProfile . . . 2160
9.49.5.25 SetDefaultProfileLTE . . . 2161
9.49.5.26 SetDefaultProfileLTEV2 . . . 2162
9.49.5.27 SetDefaultProfileNum . . . 2164
9.49.5.28 SetMobileIP . . . 2164
9.49.5.29 SetMobileIPParameters . . . 2165
9.49.5.30 SetMobileIPProfile . . . 2166
9.49.5.31 SetMuxID . . . 2167
9.49.5.32 SLQSAutoConnect . . . 2167
9.49.5.33 SLQSCreateProfile . . . 2168
9.49.5.34 SLQSDeleteProfile . . . 2168
9.49.5.35 SLQSGet3GPPConfigItem . . . 2169
9.49.5.36 SLQSGetByteTotals . . . 2169
9.49.5.37 SLQSGetConnectionRate . . . 2170
9.49.5.38 SLQSGetCurrDataSystemStat . . . 2170

9.49.5.39 SLQSGetCurrentChannelRate . . . 2171
9.49.5.40 SLQSGetDataBearerTechnology . . . 2171
9.49.5.41 SLQSGetDataBearerTechnologyExt . . . 2172
9.49.5.42 SLQSGetDUNCallInfo . . . 2172
9.49.5.43 SLQSGetPacketStatistics . . . 2173
9.49.5.44 SLQSGetProfile . . . 2173
9.49.5.45 SLQSGetProfileSettings . . . 2175
9.49.5.46 SLQSGetRuntimeSettings . . . 2175
9.49.5.47 SLQSGetSessionState . . . 2176
9.49.5.48 SLQSModifyProfile . . . 2176
9.49.5.49 SLQSResetPacketStatics . . . 2177
9.49.5.50 SLQSSet3GPPConfigItem . . . 2177
9.49.5.51 SLQSSetProfile . . . 2177
9.49.5.52 SLQSSGetDHCPv4ClientConfig . . . 2179
9.49.5.53 SLQSSGetLoopback . . . 2179
9.49.5.54 SLQSSSetDHCPv4ClientConfig . . . 2180
9.49.5.55 SLQSSSetLoopback . . . 2180
9.49.5.56 SLQSStartStopDataSession . . . 2180
9.49.5.57 SLQSWdsGoActive . . . 2181
9.49.5.58 SLQSWdsGoDormant . . . 2181
9.49.5.59 SLQSWdsSetEventReport . . . 2182
9.49.5.60 SLQSWdsSwiPDPRuntimeSettings . . . 2182
9.49.5.61 WDS_IsGobiDevice . . . 2183
9.50 qaNasGetRFBandInfo.h File Reference . . . 2183
9.50.1 Enumeration Type Documentation . . . 2183
9.50.1.1 eQMI_NAS_GET_RF_INFO_RESP . . . 2183
9.50.2 Function Documentation . . . 2183
9.50.2.1 PkQmiNasGetRFBandInfo . . . 2183
9.50.2.2 UpkQmiNasGetRFBandInfo . . . 2183
9.51 qaNasPerformNetworkScan.h File Reference . . . 2184
9.51.1 Macro Definition Documentation . . . 2184
9.51.1.1 FORBIDDEN_INDEX . . . 2184
9.51.1.2 INDEX_ZERO . . . 2184
9.51.1.3 MAX_DESCRIPTION_LENGTH . . . 2184
9.51.1.4 PREFERRED_INDEX . . . 2184
9.51.1.5 QMI_NAS_MAX_INSTANCES . . . 2184
9.51.1.6 QMI_NAS_NETSTATUS_MASK . . . 2184
9.51.1.7 ROAMING_INDEX . . . 2184
9.51.2 Enumeration Type Documentation . . . 2184
9.51.2.1 eQMI_NAS_PERFORM_NETWORK_SCAN_RESP . . . 2184

9.51.3 Function Documentation . . . 2185
9.51.3.1 PkQmiNasPerformNetworkScan . . . 2185
9.51.3.2 UpkQmiNasPerformNetworkScan . . . 2185
9.52 qmerrno.h File Reference . . . 2185
9.52.1 Enumeration Type Documentation . . . 2187
9.52.1.1 eQCWWANError . . . 2187
9.52.1.2 qm_wds_ds_profile_extended_err_codes . . . 2192
9.53 qos.h File Reference . . . 2192
9.53.1 Macro Definition Documentation . . . 2194
9.53.1.1 LITEQMI_MAX_QOS_FILTERS . . . 2194
9.53.1.2 LITEQMI_MAX_QOS_FLOW_PER_APN_STATS . . . 2194
9.53.1.3 LITEQMI_MAX_QOS_FLOWS . . . 2194
9.53.2 Function Documentation . . . 2194
9.53.2.1 pack_qos_BindDataPort . . . 2194
9.53.2.2 pack_qos_SLQSQosGetNetworkStatus . . . 2194
9.53.2.3 pack_qos_SLQSQosSwiReadApnExtraParams . . . 2195
9.53.2.4 pack_qos_SLQSQosSwiReadDataStats . . . 2196
9.53.2.5 pack_qos_SLQSSetQosEventCallback . . . 2196
9.53.2.6 unpack_qos_BindDataPort . . . 2197
9.53.2.7 unpack_qos_SLQSQosGetNetworkStatus . . . 2197
9.53.2.8 unpack_qos_SLQSQosSwiReadApnExtraParams . . . 2198
9.53.2.9 unpack_qos_SLQSQosSwiReadDataStats . . . 2198
9.53.2.10 unpack_qos_SLQSSetQosEventCallback . . . 2199
9.53.2.11 unpack_qos_SLQSSetQosEventCallback_ind . . . 2199
9.53.2.12 unpack_qos_SLQSSetQosNWStatusCallback_ind . . . 2200
9.53.2.13 unpack_qos_SLQSSetQosPriEventCallback_ind . . . 2200
9.53.2.14 unpack_qos_SLQSSetQosStatusCallback_ind . . . 2201
9.54 rms.h File Reference . . . 2202
9.54.1 Macro Definition Documentation . . . 2202
9.54.1.1 __LITEQMI_RMS_H__ . . . 2202
9.54.2 Function Documentation . . . 2202
9.54.2.1 pack_rms_GetSMSWake . . . 2202
9.54.2.2 pack_rms_SetSMSWake . . . 2203
9.54.2.3 unpack_rms_GetSMSWake . . . 2203
9.54.2.4 unpack_rms_SetSMSWake . . . 2203
9.55 sar.h File Reference . . . 2204
9.55.1 Function Documentation . . . 2204
9.55.1.1 pack_sar_SLQSGetRfSarState . . . 2204
9.55.1.2 pack_sar_SLQSSetRfSarState . . . 2204
9.55.1.3 unpack_sar_SLQSGetRfSarState . . . 2205

9.55.1.4 unpack_sar_SLQSSetRfSarState . . . 2205
9.56 sms.h File Reference . . . 2205
9.56.1 Macro Definition Documentation . . . 2209
9.56.1.1 MAX_CDMA_ENC_MO_TXT_MSG_SIZE . . . 2209
9.56.1.2 MAX_MS_TRANSFER_ROUTE_MSG . . . 2209
9.56.1.3 MAX_MSC_ADDRESS_SIZE . . . 2209
9.56.1.4 MAX_MSE_TWS_MSG . . . 2209
9.56.1.5 MAX_SMS_LIST_SIZE . . . 2209
9.56.1.6 MAX_SMS_MESSAGE_SIZE . . . 2209
9.56.1.7 SMS_CONFIG_LEN . . . 2209
9.56.1.8 SMS_MAX_SMS_ROUTES . . . 2209
9.56.1.9 SMS_NUM_OF_SET . . . 2209
9.56.1.10 SMSC_TYPE_LEN . . . 2209
9.56.2 Enumeration Type Documentation . . . 2209
9.56.2.1 eqmiCbkSetStatus . . . 2209
9.56.3 Function Documentation . . . 2209
9.56.3.1 pack_sms_GetSMSCAddress . . . 2209
9.56.3.2 pack_sms_SaveSMS . . . 2210
9.56.3.3 pack_sms_SendSMS . . . 2210
9.56.3.4 pack_sms_SetNewSMSCallback . . . 2210
9.56.3.5 pack_sms_SetSMSCAddress . . . 2211
9.56.3.6 pack_sms_SLQSDeleteSMS . . . 2211
9.56.3.7 pack_sms_SLQSGetIndicationRegister . . . 2212
9.56.3.8 pack_sms_SLQSGetMessageWaiting . . . 2212
9.56.3.9 pack_sms_SLQSGetSMS . . . 2212
9.56.3.10 pack_sms_SLQSGetSmsBroadcastConfig . . . 2213
9.56.3.11 pack_sms_SLQSGetSMSList . . . 2213
9.56.3.12 pack_sms_SLQSGetTransLayerInfo . . . 2213
9.56.3.13 pack_sms_SLQSGetTransNWRegInfo . . . 2214
9.56.3.14 pack_sms_SLQSModifySMSStatus . . . 2214
9.56.3.15 pack_sms_SLQSSendAsyncSMS . . . 2214
9.56.3.16 pack_sms_SLQSSetIndicationRegister . . . 2215
9.56.3.17 pack_sms_SLQSSetSmsBroadcastActivation . . . 2215
9.56.3.18 pack_sms_SLQSSetSmsBroadcastConfig . . . 2215
9.56.3.19 pack_sms_SLQSSetSmsStorage . . . 2216
9.56.3.20 pack_sms_SLQSSmsGetMaxStorageSize . . . 2216
9.56.3.21 pack_sms_SLQSSmsGetMessageProtocol . . . 2217
9.56.3.22 pack_sms_SLQSSmsSetRoutes . . . 2217
9.56.3.23 pack_sms_SLQSSwiGetSMSStorage . . . 2217
9.56.3.24 unpack_sms_GetSMSCAddress . . . 2218

9.56.3.25 unpack_sms_SaveSMS . . . 2218
9.56.3.26 unpack_sms_SendSMS . . . 2218
9.56.3.27 unpack_sms_SetNewSMSCallback . . . 2219
9.56.3.28 unpack_sms_SetNewSMSCallback_ind . . . 2219
9.56.3.29 unpack_sms_SetSMSCAddress . . . 2219
9.56.3.30 unpack_sms_SLQSDeleteSMS . . . 2220
9.56.3.31 unpack_sms_SLQSGetIndicationRegister . . . 2220
9.56.3.32 unpack_sms_SLQSGetMessageWaiting . . . 2220
9.56.3.33 unpack_sms_SLQSGetSMS . . . 2221
9.56.3.34 unpack_sms_SLQSGetSmsBroadcastConfig . . . 2221
9.56.3.35 unpack_sms_SLQSGetSMSList . . . 2221
9.56.3.36 unpack_sms_SLQSGetTransLayerInfo . . . 2222
9.56.3.37 unpack_sms_SLQSGetTransNWRegInfo . . . 2222
9.56.3.38 unpack_sms_SLQSModifySMSStatus . . . 2222
9.56.3.39 unpack_sms_SLQSNWRegInfoCallback_ind . . . 2223
9.56.3.40 unpack_sms_SLQSSendAsyncSMS . . . 2223
9.56.3.41 unpack_sms_SLQSSetIndicationRegister . . . 2223
9.56.3.42 unpack_sms_SLQSSetSmsBroadcastActivation . . . 2224
9.56.3.43 unpack_sms_SLQSSetSmsBroadcastConfig . . . 2224
9.56.3.44 unpack_sms_SLQSSetSmsStorage . . . 2224
9.56.3.45 unpack_sms_SLQSSmsGetMaxStorageSize . . . 2225
9.56.3.46 unpack_sms_SLQSSmsGetMessageProtocol . . . 2225
9.56.3.47 unpack_sms_SLQSSmsSetRoutes . . . 2225
9.56.3.48 unpack_sms_SLQSSwiGetSMSStorage . . . 2226
9.56.3.49 unpack_sms_SLQSTransLayerInfoCallback_ind . . . 2226
9.56.3.50 unpack_sms_SLQSWmsAsyncRawSendCallBack_ind . . . 2226
9.56.3.51 unpack_sms_SLQSWmsMemoryFullCallBack_ind . . . 2227
9.56.3.52 unpack_sms_SLQSWmsMessageWaitingCallBack_ind . . . 2227
9.57 SwiDataTypes.h File Reference . . . 2227
9.57.1 Detailed Description . . . 2228
9.57.2 Macro Definition Documentation . . . 2228
9.57.2.1 QMI_NO_LTE_FW_SUPPORT . . . 2228
9.57.2.2 QMI_TLV_PLACEHOLDER . . . 2228
9.57.2.3 SWI_API . . . 2228
9.57.2.4 UNUSEDPARAM . . . 2228
9.57.3 Typedef Documentation . . . 2228
9.57.3.1 BOOL . . . 2228
9.57.3.2 BYTE . . . 2228
9.57.3.3 CHAR . . . 2228
9.57.3.4 FLOAT . . . 2228

9.57.3.5 INT32 . . . 2228
9.57.3.6 INT8 . . . 2228
9.57.3.7 LPCSTR . . . 2228
9.57.3.8 SHORT . . . 2229
9.57.3.9 ULONG . . . 2229
9.57.3.10 ULONGLONG . . . 2229
9.57.3.11 USHORT . . . 2229
9.57.3.12 WORD . . . 2229
9.58 swidms.h File Reference . . . 2229
9.58.1 Function Documentation . . . 2229
9.58.1.1 pack_swidms_SLQSSwiDmsGetMTU . . . 2229
9.58.1.2 pack_swidms_SLQSSwiDmsGetUsbNetNum . . . 2230
9.58.1.3 pack_swidms_SLQSSwiDmsSetMTU . . . 2230
9.58.1.4 pack_swidms_SLQSSwiDmsSetUsbNetNum . . . 2230
9.58.1.5 unpack_swidms_SLQSSwiDmsGetMTU . . . 2231
9.58.1.6 unpack_swidms_SLQSSwiDmsGetUsbNetNum . . . 2231
9.58.1.7 unpack_swidms_SLQSSwiDmsSetMTU . . . 2232
9.58.1.8 unpack_swidms_SLQSSwiDmsSetUsbNetNum . . . 2232
9.59 swiloc.h File Reference . . . 2232
9.59.1 Typedef Documentation . . . 2233
9.59.1.1 unpack_swiloc_SwiLocSetAutoStart_t . . . 2233
9.59.2 Function Documentation . . . 2233
9.59.2.1 pack_swiloc_SwiLocGetAutoStart . . . 2233
9.59.2.2 pack_swiloc_SwiLocSetAutoStart . . . 2233
9.59.2.3 unpack_swiloc_SwiLocGetAutoStart . . . 2233
9.59.2.4 unpack_swiloc_SwiLocSetAutoStart . . . 2234
9.60 swioma.h File Reference . . . 2234
9.60.1 Macro Definition Documentation . . . 2235
9.60.1.1 LITEQMI_MAX_SWIOMA_STR_LEN . . . 2235
9.60.2 Function Documentation . . . 2235
9.60.2.1 pack_swioma_SLQSOMADMAlertCallback . . . 2235
9.60.2.2 pack_swioma_SLQSOMADMCancelSession . . . 2236
9.60.2.3 pack_swioma_SLQSOMADMGetSessionInfo . . . 2236
9.60.2.4 pack_swioma_SLQSOMADMGetSettings . . . 2237
9.60.2.5 pack_swioma_SLQSOMADMSendSelection . . . 2238
9.60.2.6 pack_swioma_SLQSOMADMSetSettings . . . 2238
9.60.2.7 pack_swioma_SLQSOMADMStartSession . . . 2239
9.60.2.8 unpack_swioma_SLQSOMADMAlertCallback . . . 2239
9.60.2.9 unpack_swioma_SLQSOMADMAlertCallback_ind . . . 2240
9.60.2.10 unpack_swioma_SLQSOMADMCancelSession . . . 2240

9.60.2.11 unpack_swioma_SLQSOMADMGetSessionInfo . . . 2241
9.60.2.12 unpack_swioma_SLQSOMADMGetSettings . . . 2241
9.60.2.13 unpack_swioma_SLQSOMADMSendSelection . . . 2242
9.60.2.14 unpack_swioma_SLQSOMADMSetSettings . . . 2242
9.60.2.15 unpack_swioma_SLQSOMADMStartSession . . . 2243
9.61 SWIWWANCMAPI.h File Reference . . . 2243
9.62 uim.h File Reference . . . 2243
9.62.1 Macro Definition Documentation . . . 2246
9.62.1.1 MAX_DESCRIPTION_LENGTH . . . 2246
9.62.1.2 MAX_ICCID_LENGTH . . . 2246
9.62.1.3 MAX_NO_OF_APPLICATIONS . . . 2246
9.62.1.4 MAX_NO_OF_SLOTS . . . 2246
9.62.1.5 MAX_SLOTS_STATUS . . . 2246
9.62.1.6 UIM_MAX_ACTIVE_PERS_FEATURES . . . 2246
9.62.1.7 UIM_MAX_CONTENT_LENGTH . . . 2246
9.62.1.8 UIM_MAX_DESCRIPTION_LENGTH . . . 2246
9.62.1.9 UIM_MAX_NO_OF_APPLICATIONS . . . 2246
9.62.1.10 UIM_MAX_NO_OF_SLOTS . . . 2246
9.62.1.11 UIM_UINT8_MAX_STRING_SZ . . . 2246
9.62.2 Function Documentation . . . 2246
9.62.2.1 pack_uim_ChangePin . . . 2246
9.62.2.2 pack_uim_GetCardStatus . . . 2247
9.62.2.3 pack_uim_ReadTransparent . . . 2247
9.62.2.4 pack_uim_SetPinProtection . . . 2247
9.62.2.5 pack_uim_SLQSUIMAuthenticate . . . 2248
9.62.2.6 pack_uim_SLQSUIMDepersonalization . . . 2248
9.62.2.7 pack_uim_SLQSUIMEventRegister . . . 2249
9.62.2.8 pack_uim_SLQSUIMGetConfiguration . . . 2249
9.62.2.9 pack_uim_SLQSUIMGetFileAttributes . . . 2249
9.62.2.10 pack_uim_SLQSUIMGetSlotsStatus . . . 2250
9.62.2.11 pack_uim_SLQSUIMPowerDown . . . 2250
9.62.2.12 pack_uim_SLQSUIMPowerUp . . . 2250
9.62.2.13 pack_uim_SLQSUIMRefreshComplete . . . 2251
9.62.2.14 pack_uim_SLQSUIMRefreshGetLastEvent . . . 2251
9.62.2.15 pack_uim_SLQSUIMRefreshOK . . . 2252
9.62.2.16 pack_uim_SLQSUIMRefreshRegister . . . 2252
9.62.2.17 pack_uim_SLQSUIMReset . . . 2252
9.62.2.18 pack_uim_SLQSUIMSwitchSlot . . . 2253
9.62.2.19 pack_uim_UnblockPin . . . 2253
9.62.2.20 pack_uim_VerifyPin . . . 2253

9.62.2.21 unpack_uim_ChangePin . . . 2254
9.62.2.22 unpack_uim_GetCardStatus . . . 2254
9.62.2.23 unpack_uim_ReadTransparent . . . 2254
9.62.2.24 unpack_uim_SetPinProtection . . . 2255
9.62.2.25 unpack_uim_SetUimSlotStatusChangeCallback_ind . . . 2255
9.62.2.26 unpack_uim_SLQSUIMAuthenticate . . . 2255
9.62.2.27 unpack_uim_SLQSUIMDepersonalization . . . 2256
9.62.2.28 unpack_uim_SLQSUIMEventRegister . . . 2256
9.62.2.29 unpack_uim_SLQSUIMGetConfiguration . . . 2257
9.62.2.30 unpack_uim_SLQSUIMGetFileAttributes . . . 2257
9.62.2.31 unpack_uim_SLQSUIMGetSlotsStatus . . . 2257
9.62.2.32 unpack_uim_SLQSUIMPowerDown . . . 2258
9.62.2.33 unpack_uim_SLQSUIMPowerUp . . . 2258
9.62.2.34 unpack_uim_SLQSUIMRefreshCallback_Ind . . . 2258
9.62.2.35 unpack_uim_SLQSUIMRefreshComplete . . . 2259
9.62.2.36 unpack_uim_SLQSUIMRefreshGetLastEvent . . . 2259
9.62.2.37 unpack_uim_SLQSUIMRefreshOK . . . 2259
9.62.2.38 unpack_uim_SLQSUIMRefreshRegister . . . 2260
9.62.2.39 unpack_uim_SLQSUIMReset . . . 2260
9.62.2.40 unpack_uim_SLQSUIMSetStatusChangeCallBack_ind . . . 2260
9.62.2.41 unpack_uim_SLQSUIMSwitchSlot . . . 2261
9.62.2.42 unpack_uim_UnblockPin . . . 2261
9.62.2.43 unpack_uim_VerifyPin . . . 2261
9.63 voice.h File Reference . . . 2262
9.63.1 Detailed Description . . . 2267
9.63.2 S1 . . . 2267
9.63.3 Macro Definition Documentation . . . 2267
9.63.3.1 BARRING_PASSWORD_LENGTH . . . 2267
9.63.3.2 MAX_VOICE_CALL_NO_LEN . . . 2267
9.63.3.3 MAX_VOICE_DESCRIPTION_LENGTH . . . 2267
9.63.3.4 MAXVOICEUSSDLENGTH . . . 2267
9.63.3.5 VOICE_MAX_NO_OF_CALLS . . . 2267
9.63.4 Enumeration Type Documentation . . . 2267
9.63.4.1 liteServiceClassInformation . . . 2267
9.63.5 Function Documentation . . . 2267
9.63.5.1 pack_voice_AnswerUSSD . . . 2267
9.63.5.2 pack_voice_CancelUSSD . . . 2268
9.63.5.3 pack_voice_OriginateUSSD . . . 2268
9.63.5.4 pack_voice_SLQSOriginateUSSD . . . 2269
9.63.5.5 pack_voice_SLQSVoiceALSSelectLine . . . 2269

9.63.5.6 pack_voice_SLQSVoiceALSSetLineSwitching . . . 2269
9.63.5.7 pack_voice_SLQSVoiceAnswerCall . . . 2270
9.63.5.8 pack_voice_SLQSVoiceBindSubscription . . . 2270
9.63.5.9 pack_voice_SLQSVoiceBurstDTMF . . . 2270
9.63.5.10 pack_voice_SLQSVoiceDialCall . . . 2271
9.63.5.11 pack_voice_SLQSVoiceEndCall . . . 2271
9.63.5.12 pack_voice_SLQSVoiceGetAllCallInfo . . . 2272
9.63.5.13 pack_voice_SLQSVoiceGetCallBarring . . . 2272
9.63.5.14 pack_voice_SLQSVoiceGetCallForwardingStatus . . . 2272
9.63.5.15 pack_voice_SLQSVoiceGetCallInfo . . . 2273
9.63.5.16 pack_voice_SLQSVoiceGetCallWaiting . . . 2273
9.63.5.17 pack_voice_SLQSVoiceGetCLIP . . . 2273
9.63.5.18 pack_voice_SLQSVoiceGetCLIR . . . 2274
9.63.5.19 pack_voice_SLQSVoiceGetCNAP . . . 2274
9.63.5.20 pack_voice_SLQSVoiceGetCOLP . . . 2274
9.63.5.21 pack_voice_SLQSVoiceGetCOLR . . . 2275
9.63.5.22 pack_voice_SLQSVoiceGetConfig . . . 2275
9.63.5.23 pack_voice_SLQSVoiceIndicationRegister . . . 2275
9.63.5.24 pack_voice_SLQSVoiceManageCalls . . . 2276
9.63.5.25 pack_voice_SLQSVoiceOrigUSSDNoWait . . . 2276
9.63.5.26 pack_voice_SLQSVoiceSendFlash . . . 2277
9.63.5.27 pack_voice_SLQSVoiceSetCallBarringPassword . . . 2277
9.63.5.28 pack_voice_SLQSVoiceSetConfig . . . 2277
9.63.5.29 pack_voice_SLQSVoiceSetPreferredPrivacy . . . 2278
9.63.5.30 pack_voice_SLQSVoiceSetSUPSService . . . 2278
9.63.5.31 pack_voice_SLQSVoiceStartContDTMF . . . 2278
9.63.5.32 pack_voice_SLQSVoiceStopContDTMF . . . 2279
9.63.5.33 unpack_voice_allCallStatusCallback_ind . . . 2279
9.63.5.34 unpack_voice_AnswerUSSD . . . 2280
9.63.5.35 unpack_voice_CancelUSSD . . . 2280
9.63.5.36 unpack_voice_DTMFEventCallback_ind . . . 2280
9.63.5.37 unpack_voice_OriginateUSSD . . . 2281
9.63.5.38 unpack_voice_OTASPStatusCallback_ind . . . 2281
9.63.5.39 unpack_voice_SLQSOriginateUSSD . . . 2281
9.63.5.40 unpack_voice_SLQSVoiceALSSelectLine . . . 2282
9.63.5.41 unpack_voice_SLQSVoiceALSSetLineSwitching . . . 2282
9.63.5.42 unpack_voice_SLQSVoiceAnswerCall . . . 2282
9.63.5.43 unpack_voice_SLQSVoiceBindSubscription . . . 2283
9.63.5.44 unpack_voice_SLQSVoiceBurstDTMF . . . 2283
9.63.5.45 unpack_voice_SLQSVoiceDialCall . . . 2283

9.63.5.46 unpack_voice_SLQSVoiceEndCall . . . 2284
9.63.5.47 unpack_voice_SLQSVoiceGetAllCallInfo . . . 2284
9.63.5.48 unpack_voice_SLQSVoiceGetCallBarring . . . 2284
9.63.5.49 unpack_voice_SLQSVoiceGetCallForwardingStatus . . . 2285
9.63.5.50 unpack_voice_SLQSVoiceGetCallInfo . . . 2285
9.63.5.51 unpack_voice_SLQSVoiceGetCallWaiting . . . 2285
9.63.5.52 unpack_voice_SLQSVoiceGetCLIP . . . 2286
9.63.5.53 unpack_voice_SLQSVoiceGetCLIR . . . 2286
9.63.5.54 unpack_voice_SLQSVoiceGetCNAP . . . 2286
9.63.5.55 unpack_voice_SLQSVoiceGetCOLP . . . 2287
9.63.5.56 unpack_voice_SLQSVoiceGetCOLR . . . 2287
9.63.5.57 unpack_voice_SLQSVoiceGetConfig . . . 2287
9.63.5.58 unpack_voice_SLQSVoiceIndicationRegister . . . 2288
9.63.5.59 unpack_voice_SLQSVoiceManageCalls . . . 2288
9.63.5.60 unpack_voice_SLQSVoiceOrigUSSDNoWait . . . 2288
9.63.5.61 unpack_voice_SLQSVoiceSendFlash . . . 2289
9.63.5.62 unpack_voice_SLQSVoiceSetCallBarringPassword . . . 2289
9.63.5.63 unpack_voice_SLQSVoiceSetConfig . . . 2289
9.63.5.64 unpack_voice_SLQSVoiceSetPreferredPrivacy . . . 2290
9.63.5.65 unpack_voice_SLQSVoiceSetSUPSService . . . 2290
9.63.5.66 unpack_voice_SLQSVoiceStartContDTMF . . . 2290
9.63.5.67 unpack_voice_SLQSVoiceStopContDTMF . . . 2291
9.63.5.68 unpack_voice_SLQSVoiceSUPSCallback_ind . . . 2291
9.63.5.69 unpack_voice_SUPSNotificationCallback_ind . . . 2291
9.63.5.70 unpack_voice_USSDNotificationCallback_ind . . . 2292
9.63.5.71 unpack_voice_VoiceInfoRecCallback_ind . . . 2292
9.63.5.72 unpack_voice_voicePrivacyChangeCallback_ind . . . 2293
9.64 wds.h File Reference . . . 2293
9.64.1 Macro Definition Documentation . . . 2299
9.64.1.1 BYT_STAT_STAT_MASK . . . 2299
9.64.1.2 IPV6_ADDRESS_ARRAY_SIZE . . . 2299
9.64.1.3 MAX_WDS_3GPP_CONF_LTE_ATTACH_PROFILE_LIST_SIZE . . . 2299
9.64.1.4 PACK_WDS_IPV4 . . . 2299
9.64.1.5 PACK_WDS_IPV6 . . . 2299
9.64.1.6 WDS_DHCP_MAX_NUM_OPTIONS . . . 2299
9.64.1.7 WDS_DHCP_OPTION_DATA_BUF_SIZE . . . 2299
9.64.2 Typedef Documentation . . . 2299
9.64.2.1 UnpackQmiProfileInfo . . . 2299
9.64.3 Enumeration Type Documentation . . . 2299
9.64.3.1 liteQmiDataBearerMasks . . . 2299

9.64.4 Function Documentation . . . 2300
9.64.4.1 pack_wds_DHCPv4ClientLeaseChange . . . 2300
9.64.4.2 pack_wds_GetAutoconnect . . . 2300
9.64.4.3 pack_wds_GetByteTotals . . . 2300
9.64.4.4 pack_wds_GetConnectionRate . . . 2301
9.64.4.5 pack_wds_GetDataBearerTechnology . . . 2301
9.64.4.6 pack_wds_GetDefaultProfile . . . 2302
9.64.4.7 pack_wds_GetDefaultProfileNum . . . 2302
9.64.4.8 pack_wds_GetDormancyState . . . 2303
9.64.4.9 pack_wds_GetLastMobileIPError . . . 2303
9.64.4.10 pack_wds_GetMobileIP . . . 2303
9.64.4.11 pack_wds_GetMobileIPProfile . . . 2304
9.64.4.12 pack_wds_GetPacketStatistics . . . 2304
9.64.4.13 pack_wds_GetPacketStatus . . . 2305
9.64.4.14 pack_wds_GetSessionDuration . . . 2305
9.64.4.15 pack_wds_GetSessionState . . . 2306
9.64.4.16 pack_wds_RMSetTransferStatistics . . . 2306
9.64.4.17 pack_wds_SetAutoconnect . . . 2306
9.64.4.18 pack_wds_SetDefaultProfile . . . 2307
9.64.4.19 pack_wds_SetDefaultProfileNum . . . 2307
9.64.4.20 pack_wds_SetMobileIP . . . 2308
9.64.4.21 pack_wds_SetMobileIPParameters . . . 2308
9.64.4.22 pack_wds_SetMobileIPProfile . . . 2308
9.64.4.23 pack_wds_SetMuxID . . . 2309
9.64.4.24 pack_wds_SLQSCreateProfile . . . 2309
9.64.4.25 pack_wds_SLQSDeleteProfile . . . 2310
9.64.4.26 pack_wds_SLQSGet3GPPConfigItem . . . 2310
9.64.4.27 pack_wds_SLQSGetCurrDataSystemStat . . . 2311
9.64.4.28 pack_wds_SLQSGetCurrentChannelRate . . . 2311
9.64.4.29 pack_wds_SLQSGetDataBearerTechnology . . . 2311
9.64.4.30 pack_wds_SLQSGetDUNCallInfo . . . 2312
9.64.4.31 pack_wds_SLQSGetProfileSettings . . . 2312
9.64.4.32 pack_wds_SLQSGetRuntimeSettings . . . 2313
9.64.4.33 pack_wds_SLQSModifyProfile . . . 2313
9.64.4.34 pack_wds_SLQSResetPacketStatics . . . 2314
9.64.4.35 pack_wds_SLQSSet3GPPConfigItem . . . 2314
9.64.4.36 pack_wds_SLQSSetIPFamilyPreference . . . 2315
9.64.4.37 pack_wds_SLQSSetWdsEventCallback . . . 2315
9.64.4.38 pack_wds_SLQSSGetDHCPv4ClientConfig . . . 2315
9.64.4.39 pack_wds_SLQSSGetLoopback . . . 2316

9.64.4.40 pack_wds_SLQSSSetDHCPv4ClientConfig . . . 2316
9.64.4.41 pack_wds_SLQSSSetLoopback . . . 2316
9.64.4.42 pack_wds_SLQSStartDataSession . . . 2317
9.64.4.43 pack_wds_SLQSStopDataSession . . . 2317
9.64.4.44 pack_wds_SLQSWdsGoActive . . . 2318
9.64.4.45 pack_wds_SLQSWdsGoDormant . . . 2318
9.64.4.46 pack_wds_SLQSWdsSetEventReport . . . 2319
9.64.4.47 pack_wds_SLQSWdsSwiPDPRuntimeSettings . . . 2319
9.64.4.48 unpack_wds_DHCPv4ClientLease_ind . . . 2319
9.64.4.49 unpack_wds_DHCPv4ClientLeaseChange . . . 2320
9.64.4.50 unpack_wds_GetAutoconnect . . . 2320
9.64.4.51 unpack_wds_GetByteTotals . . . 2320
9.64.4.52 unpack_wds_GetConnectionRate . . . 2321
9.64.4.53 unpack_wds_GetDataBearerTechnology . . . 2321
9.64.4.54 unpack_wds_GetDefaultProfile . . . 2322
9.64.4.55 unpack_wds_GetDefaultProfileNum . . . 2322
9.64.4.56 unpack_wds_GetDormancyState . . . 2322
9.64.4.57 unpack_wds_GetLastMobileIPError . . . 2323
9.64.4.58 unpack_wds_GetMobileIP . . . 2323
9.64.4.59 unpack_wds_GetMobileIPProfile . . . 2323
9.64.4.60 unpack_wds_GetPacketStatistics . . . 2324
9.64.4.61 unpack_wds_GetPacketStatus . . . 2324
9.64.4.62 unpack_wds_GetSessionDuration . . . 2324
9.64.4.63 unpack_wds_GetSessionState . . . 2325
9.64.4.64 unpack_wds_RMSetTransferStatistics . . . 2325
9.64.4.65 unpack_wds_RMTransferStatistics_ind . . . 2325
9.64.4.66 unpack_wds_SetAutoconnect . . . 2326
9.64.4.67 unpack_wds_SetDefaultProfile . . . 2326
9.64.4.68 unpack_wds_SetDefaultProfileNum . . . 2326
9.64.4.69 unpack_wds_SetMobileIP . . . 2327
9.64.4.70 unpack_wds_SetMobileIPParameters . . . 2327
9.64.4.71 unpack_wds_SetMobileIPProfile . . . 2327
9.64.4.72 unpack_wds_SetMuxID . . . 2328
9.64.4.73 unpack_wds_SLQSCreateProfile . . . 2328
9.64.4.74 unpack_wds_SLQSDeleteProfile . . . 2328
9.64.4.75 unpack_wds_SLQSDUNCallInfoCallBack_ind . . . 2329
9.64.4.76 unpack_wds_SLQSGet3GPPConfigItem . . . 2329
9.64.4.77 unpack_wds_SLQSGetCurrDataSystemStat . . . 2329
9.64.4.78 unpack_wds_SLQSGetCurrentChannelRate . . . 2330
9.64.4.79 unpack_wds_SLQSGetDataBearerTechnology . . . 2330

9.64.4.80 unpack_wds_SLQSGetDUNCallInfo 2330
9.64.4.81 unpack_wds_SLQSGetProfileSettings 2331
9.64.4.82 unpack_wds_SLQSGetRuntimeSettings 2331
9.64.4.83 unpack_wds_SLQSModifyProfile 2331
9.64.4.84 unpack_wds_SLQSResetPacketStatics 2332
9.64.4.85 unpack_wds_SLQSSet3GPPConfigItem 2332
9.64.4.86 unpack_wds_SLQSSetIPFamilyPreference 2332
9.64.4.87 unpack_wds_SLQSSetPacketSrvStatusCallback 2333
9.64.4.88 unpack_wds_SLQSSetWdsEventCallback 2333
9.64.4.89 unpack_wds_SLQSSetWdsEventCallback_ind 2333
9.64.4.90 unpack_wds_SLQSSGetDHCPv4ClientConfig 2334
9.64.4.91 unpack_wds_SLQSSGetLoopback 2334
9.64.4.92 unpack_wds_SLQSSSetDHCPv4ClientConfig 2334
9.64.4.93 unpack_wds_SLQSSSetLoopback 2335
9.64.4.94 unpack_wds_SLQSStartDataSession 2335
9.64.4.95 unpack_wds_SLQSStopDataSession 2335
9.64.4.96 unpack_wds_SLQSWdsGoActive 2336
9.64.4.97 unpack_wds_SLQSWdsGoDormant 2336
9.64.4.98 unpack_wds_SLQSWdsSetEventReport 2336
9.64.4.99 unpack_wds_SLQSWdsSwiPDPRuntimeSettings 2336

Index **2338**

Chapter 1

Welcome to the Sierra Wireless Linux QMI SDK API Reference Guide

This API reference guide contains information about all the modules, in the Sierra Wireless Linux QMI SDK (SLQS). Use the tabs at the top of the page to navigate the reference guide.

- Modules tab – lists all the service modules and provides a link to the API header file in each module.
- References tab – links to reference material.

1.1 Important Notice

Due to the nature of wireless communications, transmission and reception of data can never be guaranteed. Data may be delayed, corrupted (i.e., have errors) or be totally lost. Although significant delays or losses of data are rare when wireless devices such as the Sierra Wireless modem are used in a normal manner with a well-constructed network, the Sierra Wireless modem should not be used in situations where failure to transmit or receive data could result in damage of any kind to the user or any other party, including but not limited to personal injury, death, or loss of property. Sierra Wireless accepts no responsibility for damages of any kind resulting from delays or errors in data transmitted or received using the Sierra Wireless modem, or for failure of the Sierra Wireless modem to transmit or receive such data.

1.2 Limitation of Liability

The information in this manual is subject to change without notice and does not represent a commitment on the part of Sierra Wireless. SIERRA WIRELESS AND ITS AFFILIATES SPECIFICALLY DISCLAIM LIABILITY FOR ANY AND ALL DIRECT, INDIRECT, SPECIAL, GENERAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS OR REVENUE OR ANTICIPATED PROFITS OR REVENUE ARISING OUT OF THE USE OR INABILITY TO USE ANY SIERRA WIRELESS PRODUCT, EVEN IF SIERRA WIRELESS AND/OR ITS AFFILIATES HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR THEY ARE FORESEEABLE OR FOR CLAIMS BY ANY THIRD PARTY.

Notwithstanding the foregoing, in no event shall Sierra Wireless and/or its affiliates aggregate liability arising under or in connection with the Sierra Wireless product, regardless of the number of events, occurrences, or claims giving rise to liability, be in excess of the price paid by the purchaser for the Sierra Wireless product.

1.3 Patents

Patents This product may contain technology developed by or for Sierra Wireless Inc. This product includes technology licensed from QUALCOMM® 3G. This product is manufactured or sold by Sierra Wireless Inc. or its affiliates

under one or more patents licensed from InterDigital Group.

1.4 Copyright

© 2011-2015 Sierra Wireless. All rights reserved.

1.5 Trademarks

AirCard® and Heart of the Wireless Machine® are registered trademarks of Sierra Wireless. Watcher® is a trademark of Sierra Wireless, registered in the European Community. Sierra Wireless, the Sierra Wireless logo, the red wave design, and the red-tipped antenna are trademarks of Sierra Wireless. Windows® is a registered trademark of Microsoft Corporation. QUALCOMM® is a registered trademark of QUALCOMM Incorporated. Used under license. Linux is a registered trademark of Linus Torvalds. Other trademarks are the property of the respective owners.

1.6 Contact Information

If you have any questions about the Sierra Wireless Linux SDK, contact your Sierra Wireless account manager.

Consult our website for up-to-date product descriptions, documentation, application notes, firmware upgrades, troubleshooting tips, and press releases: http://www.sierrawireless.com.

Chapter 2

Module Index

2.1 Modules

Here is a list of all modules:

Device Connectivity Service (DCS) 41
Wireless Data Service (WDS) 42
Device Management Service (DMS) 43
Network Access Service (NAS) 44
CallBacK registration (CBK) 45
Short Message Service (SMS) 46
Position Determination Service (PDS) 47
Card Application Toolkit (CAT) 48
Remote Management Service (RMS) 49
Firmware Management Service (FMS) 50
Open Mobile Alliance Service (OMA) 51
Specific Absorption Rate (SAR) 52
SWI Open Mobile Alliance Service (SWIOMA) 53
Voice Service (VOICE) 54
Non-service specific APIs (SWI) 55
User Identity Module Service (UIM) 56
Audio Service (AUDIO) 57
Quality of Service (QOS) 58
IMS Service (IMS) 59
SWI Audio Service(SWIAUDIO) 60
Location Service(LOC) 61
Thermal Mitigation Device(TMD) 62
AVMS (SWIAVMS) 63
SWIDMS 64

Chapter 3

Namespace Index

3.1 Namespace List

Here is a list of all namespaces with brief descriptions:

Tables 65

Chapter 4

Data Structure Index

4.1 Data Structures

Here are the data structures with brief descriptions:

_getIndicationRegResp . . . 67
_GetProfileSettingIn . . . 68
_GetProfileSettingOut . . . 68
_getResetInfoNotification . . . 69
_getTransLayerInfoResp . . . 70
_getTransNWRegInfoResp . . . 70
_MitigationDevInfo . . . 71
_modemTempNotification . . . 71
_packetSrvStatus . . . 72
_qaQmi3GPP2BroadcastCfgInfo . . . 74
_qaQmi3GPPBroadcastCfgInfo . . . 75
_QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp . . . 75
_QmiSwiAvmsEventReportConfigResp . . . 77
_QmiSwiAvmsEventReportConnectionRequestResp . . . 78
_QmiSwiAvmsEventReportDataSessionStatusResp . . . 79
_QmiSwiAvmsEventReportHTTPStatusResp . . . 79
_QmiSwiAvmsEventReportNotificationResp . . . 81
_QmiSwiAvmsEventReportPackageIDResp . . . 82
_QmiSwiAvmsEventReportRegStatusResp . . . 82
_QmiSwiAvmsEventReportSessionTypeResp . . . 82
_QmiSwiAvmsEventReportWAMSParamChangeResp . . . 83
_QmiSwiAvmsSetSettingsAPNInfo . . . 83
_QmiSwiAvmsSetSettingsConnectionRetryTimers . . . 84
_QmiSwiAvmsSetSettingsPeriodInfo . . . 84
_setIndicationRegReq . . . 84
_slqs3GPPConfigItem . . . 85
_SLQSAVMSSetSettingsReqPara . . . 87
_SLQSAVMSSetSettingsReqPara_v2 . . . 89
_SLQSAVMSSettings . . . 91
_SLQSAVMSSettings_v2 . . . 92
_SLQSAVMSSettingsAPNInfo . . . 92
_SLQSAVMSSettingsConnectionRetryTimers . . . 93
_SLQSAVMSSettingsPeriodsInfo . . . 93
SlqsNas3GppNetworkRAT . . . 93
_slqsNetworkScanInfo . . . 94
_SLQSOMADMSessionInfo . . . 95
_SLQSOMADMSettings . . . 98
_SLQSOMADMSettingsReqParams . . . 100

_SLQSOMADMSettingsReqParams3 . . . 100
_SLQSSwiGetHostDevInfoParams . . . 101
_SLQSSwiGetOSInfoParams . . . 103
_SLQSSwiGetSerialNoExtParams . . . 103
_SLQSSwiSetHostDevInfoParams . . . 104
_SLQSSwiSetOSInfoParams . . . 105
_SwiAvmsEventInd . . . 106
_sysSelectPrefExtInfo . . . 107
_sysSelectPrefInfo . . . 108
_sysSelectPrefParams . . . 114
_transLayerinfo . . . 120
_transLayerInfoNotification . . . 120
_transNWRegInfoNotification . . . 121
accelAcceptReady_s . . . 122
accelTempAcceptReady_s . . . 122
acqOrderPref . . . 123
AcqOrderPrefTlv . . . 124
ActPilotPNElement . . . 124
AddCDMASysInfo . . . 125
AddSysInfo . . . 125
airTimer . . . 126
allCallsAlphaIDInfo . . . 127
allCallsDiagInfo . . . 127
allCallsUUSInfo . . . 128
alphaIDInfo . . . 128
altitudeSrcInfo . . . 129
altSrcInfo_t . . . 130
appStats . . . 131
appStatus . . . 134
arrAlertingPattern . . . 137
arrAlertingType . . . 138
arrAlphaID . . . 139
arrCalledPartyNum . . . 139
arrCallEndReason . . . 140
arrCallInfo . . . 141
arrConnectPartyNum . . . 141
arrDiagInfo . . . 142
arrRedirPartyNum . . . 142
arrRemotePartyName . . . 143
arrRemotePartyNum . . . 143
arrSvcOption . . . 144
arrUUSInfo . . . 144
authenticateResult . . . 145
authenticationData . . . 146
BandCapabilityResp . . . 147
BdsSV . . . 150
BdsSVInfo . . . 150
BroadcastConfig . . . 151
burstDTMFInfo . . . 152
CallBarringSysInfo . . . 152
callBarStatus . . . 153
calledPartyInfo . . . 154
calledPartySubAdd . . . 156
callerIDInfo . . . 157
callFwdTypeAndPlan . . . 157
callFWExtInfo . . . 158
callFWInfo . . . 160
callInfo . . . 161

callingPartyInfo . . . 163
cardResult . . . 164
cardStatus . . . 165
CarrierImage_t . . . 166
CatAlPhaIdentifierTlv . . . 167
CatCommonEventTlv . . . 168
CatEndProactiveSessionTlv . . . 168
CATEventDataType . . . 169
CatEventIDDataTlv . . . 169
CatEventListTlv . . . 169
CatRefreshTlv . . . 170
ccSUPSType . . . 170
CDMABroadcastConfig . . . 171
CDMAChannel . . . 172
CDMAECIOThresh . . . 173
CDMAInfo . . . 173
cdmaMsgDecodingParams . . . 174
cdmaMsgDecodingParamsExt . . . 177
cdmaMsgEncodingParams . . . 180
CDMARSSIThresh . . . 182
CDMASSInfo . . . 182
cdmaSSInfo . . . 183
CDMASysInfo . . . 184
CDMASysInfoExt . . . 187
CellDb . . . 188
cellParams . . . 188
changeUIMPIN . . . 189
ChannelRate . . . 190
channelRate . . . 191
ciotAcqOrderPref . . . 191
CiotAcqOrderPrefTlv . . . 192
CiotLteOpModePrefTlv . . . 193
CLIPResp . . . 194
CLIRResp . . . 194
ClkInfo . . . 195
CNAPResp . . . 196
COLPResp . . . 197
COLRResp . . . 198
CommInfo . . . 198
ConnectionStatus . . . 200
connectionStatus . . . 201
connectNumInfo . . . 202
CrashInfo . . . 203
CrashInfoParams . . . 204
crashInfoParams . . . 205
crashInformation . . . 205
CreateProfileIn . . . 206
CreateProfileOut . . . 207
CsgId . . . 208
CSGID . . . 208
CUGInfo . . . 209
curAMRConfig . . . 210
CurrDataSysStat . . . 211
currentCatEvent . . . 212
CurrentImgList . . . 212
currentPLMN . . . 213
CurrImageInfo . . . 214
CurrNetworkInfo . . . 215

currNetworkInfo . . . 217
custFeaturesInfo . . . 218
custFeaturesSetting . . . 221
custSettingInfo . . . 222
custSettingList . . . 223
dataBearers . . . 224
DataBearerTech . . . 224
DataBearerTechExt . . . 226
dataBearerTechnology . . . 227
dataRate . . . 228
dataSrvCapabilities . . . 229
DataStatusDetail . . . 230
DataULongLongTlv . . . 232
DataULongTlv . . . 232
DcsUsbPortNames . . . 232
delAssistDataStatus . . . 232
depersonalizationInformation . . . 233
detailSvcInfo . . . 234
DeviceConfigDetail . . . 236
DHCPOption . . . 237
DHCPOptionList . . . 237
diagInfo . . . 238
dirNum . . . 238
dms_ActivationStatusTlv . . . 239
dms_OperatingModeTlv . . . 240
dms_PSMActiveTimerIndTlv . . . 240
dms_PSMActiveTimerTlv . . . 241
dms_PSMDurationDueToOOSTlv . . . 241
dms_PSMDurationThresholdTlv . . . 242
dms_PSMEarlyWakeupTimeTlv . . . 242
dms_PSMEnableStateIndTlv . . . 243
dms_PSMEnableStateTlv . . . 243
dms_PSMPeriodicUpdateTimerIndTlv . . . 244
dms_PSMPeriodicUpdateTimerTlv . . . 244
dms_PSMRandomizationWindowTlv . . . 245
dms_TemperatureTlv . . . 245
dms_VoltageTlv . . . 246
dmsCurrentPRLInfo . . . 247
DMScustSettingInfo . . . 247
DMScustSettingList . . . 248
DMSgetCustomFeatureV2 . . . 249
DMSgetCustomInput . . . 250
dmsIndicationRegisterReq . . . 250
dmsPsmCfgParamChange . . . 251
dmsSwiGetPCInfo . . . 251
dmsSwiGetResetInfo . . . 253
Domain . . . 253
DomainNameList . . . 254
DRCParams . . . 254
DTMFInfo . . . 255
DTMFLengths . . . 256
DUNCallInfoInd . . . 257
dunchannelRate . . . 257
ecioListElement . . . 258
ECIOThresh . . . 259
ECTNum . . . 259
ehrpdMTUSizeTlv . . . 260
encryptedPIN1 . . . 261

eriDataparams . . . 261
ERIFileparams . . . 262
errorRateListElement . . . 262
eTWSPLMNInfoTlv . . . 263
extDispRecInfo . . . 264
FactorySequenceNumber . . . 264
fileAttributes . . . 265
fileInfo . . . 268
FirmwareUpdatStat . . . 269
FMSImageElement . . . 271
FMSImageIdElement . . . 271
FMSImageIDEntries . . . 272
FMSImageList . . . 273
FMSPrefImageList . . . 274
fwinfo_s . . . 274
GERANInfo . . . 275
geranInstInfo . . . 277
getAllCallInformation . . . 278
getAllCallRmtPtyName . . . 278
getAllCallRmtPtyNum . . . 279
GetAudioPathConfigReq . . . 279
GetAudioPathConfigResp . . . 280
GetAudioProfileReq . . . 282
GetAudioProfileResp . . . 282
GetAudioVolTLBConfigReq . . . 284
GetAudioVolTLBConfigResp . . . 284
getCallFWExtInfo . . . 285
getCallFWInfo . . . 285
getCustomFeatureV2 . . . 286
getCustomInput . . . 287
getDUNCallInfoReq . . . 287
getDUNCallInfoResp . . . 289
getDyingGaspCfg . . . 291
getDyingGaspStatistics . . . 292
GetErrRateResp . . . 293
GetHRPDStatsResp . . . 294
GetIMSSMSConfigParams . . . 294
GetIMSUserConfigParams . . . 295
GetIMSVoIPConfigResp . . . 296
GetInstIDResp . . . 298
GetM2MAudioProfileReq . . . 299
GetM2MAudioProfileResp . . . 299
GetM2MAudioVolumeReq . . . 300
GetM2MAudioVolumeResp . . . 301
GetM2MAVMuteReq . . . 301
GetM2MAVMuteResp . . . 302
GetM2MSpkrGainReq . . . 302
GetM2MSpkrGainResp . . . 303
getMsgWaitingInfo . . . 303
GetNetworkTimeResp . . . 304
GetRegMgrConfigParams . . . 304
GetSessionIDResp . . . 305
GetSIPConfigResp . . . 305
GnssData . . . 307
gnssSvInfoNotification . . . 308
GPRSQoS . . . 309
GPRSRequestedQoS . . . 310
GPSStateInfo . . . 311

gpsTime_s . . . 315
gsmCellInfo . . . 315
GSMRSSIThresh . . . 317
GSMSrvStatusInfo . . . 317
GSMSysInfo . . . 318
gyroAcceptReady_s . . . 321
gyroTempAcceptReady_s . . . 322
HDRECIOThresh . . . 322
HDRIOThresh . . . 323
HDRPersonalityInd . . . 323
HDRPersonalityResp . . . 324
HDRProtSubtypResp . . . 324
HDRRSSIThresh . . . 325
HDRSINRThresh . . . 326
HDRSINRThreshold . . . 326
HDRSSInfo . . . 327
hdrSSInfo . . . 328
HDRSysInfo . . . 329
homeSIDNID . . . 331
hotSwapStatus . . . 332
hrpdMTUSizeTlv . . . 332
image_info_t . . . 333
ImageElement . . . 334
ImageIdElement . . . 334
ImageIDEntries . . . 335
ImageList . . . 336
IMSAIndRegisterInfo . . . 337
imsaPdpStatusInfo . . . 338
imsaRatStatusInfo . . . 338
IMSARegistrationStatus . . . 339
imsaRegStatusInfo . . . 340
IMSAServiceStatus . . . 340
IMSASupportedFieldsResp . . . 343
IMSASupportedMsgInfo . . . 343
imsaSvcStatusInfo . . . 344
imsCfgIndRegisterInfo . . . 345
imsRegMgrConfigInfo . . . 346
imsSIPConfigInfo . . . 347
imsSMSConfigInfo . . . 348
imsUserConfigInfo . . . 349
imsVoIPConfigInfo . . . 349
IndFieldsList . . . 351
infoInterFreq . . . 352
IOThresh . . . 353
IPv4Addr . . . 354
IPv4Config . . . 354
IPv4Info . . . 355
IPv6Addr . . . 355
IPV6AddressInfo . . . 356
ipv6AddressInfo . . . 356
IPv6Config . . . 357
IPV6GWAddressInfo . . . 357
IPv6Info . . . 358
IPv6TrafCls . . . 358
LibPackGPRSRequestedQoS . . . 359
LibpackProfile3GPP . . . 360
LibpackProfile3GPP2 . . . 367
LibPackprofile_3GPP . . . 372

LibPackprofile_3GPP2 . . . 378
LibPackQosClassID . . . 383
LibPackTFTIDParams . . . 384
LibPackUMTSQoS . . . 386
LibPackUMTSReqQoSSigInd . . . 389
lineCtrlInfo . . . 389
loc_accelAcceptReady . . . 390
loc_accelTempAcceptReady . . . 391
loc_BdsSV . . . 391
loc_BdsSVInfo . . . 392
loc_CellDb . . . 392
loc_ClkInfo . . . 393
loc_GnssData . . . 394
loc_gpsTime . . . 396
loc_gyroAcceptReady . . . 396
loc_gyroTempAcceptReady . . . 397
loc_IPv4Config . . . 398
loc_IPv4Info . . . 398
loc_IPv6Config . . . 399
loc_IPv6Info . . . 399
loc_LocApplicationInfo . . . 400
loc_precisionDilution . . . 401
loc_satelliteInfo . . . 402
loc_sensorDataUsage . . . 404
loc_SV . . . 405
loc_SVInfo . . . 406
loc_svUsedforFix . . . 406
loc_urlAddr . . . 407
loc_URLAddrInfo . . . 407
LocApplicationInfo . . . 408
LocDelAssDataReq . . . 409
LOCEventRegisterReqResp . . . 410
LOCExtPowerStateReqResp . . . 412
LocGetServerReq . . . 412
LocInjectPositionReq . . . 413
LocInjectSensorDataReq . . . 417
LocSetCradleMountReq . . . 418
LocSetServerReq . . . 419
LOCStartReq . . . 420
LOCStopReq . . . 422
LteCQIParm . . . 422
lteEARFCN . . . 423
lteGsmCellInfo . . . 423
LTEInfo . . . 425
LTEInfoInterfreq . . . 427
LTEInfoIntrafreq . . . 427
LTEInfoNeighboringGSM . . . 429
LTEInfoNeighboringWCDMA . . . 430
LteM1BandPrefTlv . . . 431
LteNasReleaseInfo_s . . . 433
LteNb1BandPrefTlv . . . 433
LTEOperationMode . . . 435
ltePCI . . . 435
lteRsrpinformation . . . 436
LTERSRPThresh . . . 436
LTERSRQThresh . . . 437
LTERSSIThresh . . . 437
LteSccRxInfoResp . . . 438

LTESigRptCfg . . . 438
LTESigRptConfig . . . 439
lteSnrinformation . . . 440
LTESNRThresh . . . 441
LTESNRThreshold . . . 441
LTESSInfo . . . 442
lteSSInfo . . . 443
LTESysInfo . . . 443
lteWcdmaCellInfo . . . 446
messageModeTlv . . . 447
messageWaitingInfoContent . . . 447
minBasedIMSI . . . 448
mitigationDevList . . . 449
MNRInfo . . . 450
ModifyProfileIn . . . 450
ModifyProfileOut . . . 451
msgWaitingInfo . . . 451
mtuSize3gppTlv . . . 452
MTUSizeReq . . . 453
namName . . . 453
nas_acqOrderPref . . . 454
nas_AcqOrderPrefTlv . . . 454
nas_ActPilotPNElement . . . 455
nas_AddCDMASysInfo . . . 456
nas_AddSysInfo . . . 456
nas_BandPrefTlv . . . 457
nas_CallBarringSysInfo . . . 459
nas_callBarStatus . . . 459
nas_CDMAChannel . . . 460
nas_CDMAECIOThresh . . . 461
nas_CDMAInfo . . . 462
nas_CDMARSSIThresh . . . 463
nas_CDMASysInfo . . . 463
nas_CDMASysInfoExt . . . 467
nas_cellParams . . . 467
nas_ciotAcqOrderPref . . . 468
nas_CiotAcqOrderPrefTlv . . . 469
nas_CiotLteOpModePrefTlv . . . 470
nas_CommInfo . . . 470
nas_CSGID . . . 472
nas_currentPLMN . . . 473
nas_dataSrvCapabilities . . . 474
nas_DataStatusDetail . . . 475
nas_detailSvcInfo . . . 477
nas_DeviceConfigDetail . . . 478
nas_dirNum . . . 479
nas_DRCParams . . . 479
nas_ecioListElement . . . 480
nas_ECIOThresh . . . 481
nas_EmerModeTlv . . . 481
nas_errorRateListElement . . . 482
nas_GERANInfo . . . 483
nas_geranInstInfo . . . 485
nas_gsmCellInfo . . . 485
nas_GSMRSSIThresh . . . 486
nas_GSMSrvStatusInfo . . . 487
nas_GSMSysInfo . . . 488
nas_GWAcqOrderPrefTlv . . . 491

nas_HDRECIOThresh . . . 491
nas_HDRIOThresh . . . 492
nas_HDRPersonality_Ind_Data . . . 492
nas_HDRRSSIThresh . . . 493
nas_HDRSINRThresh . . . 494
nas_HDRSINRThreshold . . . 494
nas_HDRSysInfo . . . 495
nas_homeSIDNID . . . 497
nas_infoInterFreq . . . 498
nas_IOThresh . . . 499
nas_LTEBandPrefTlv . . . 499
nas_lteEARFCN . . . 501
nas_lteGsmCellInfo . . . 501
nas_LTEInfo . . . 502
nas_LTEInfoInterfreq . . . 505
nas_LTEInfoIntrafreq . . . 505
nas_LTEInfoNeighboringGSM . . . 507
nas_LTEInfoNeighboringWCDMA . . . 508
nas_LteM1BandPrefTlv . . . 509
nas_LteNb1BandPrefTlv . . . 511
nas_LTEOperationMode . . . 513
nas_ltePCI . . . 513
nas_lteRsrpinformation . . . 514
nas_LTERSRPThresh . . . 514
nas_LTERSRQThresh . . . 515
nas_LTERSSIThresh . . . 515
nas_LTESigRptCfg . . . 516
nas_LTESigRptConfig . . . 517
nas_lteSnrinformation . . . 517
nas_LTESNRThresh . . . 518
nas_LTESNRThreshold . . . 518
nas_LTESysInfo . . . 519
nas_lteWcdmaCellInfo . . . 521
nas_minBasedIMSI . . . 522
nas_MNRInfo . . . 523
nas_ModePrefTlv . . . 524
nas_namName . . . 525
nas_netSelectionPref . . . 525
nas_NetSelPrefTlv . . . 526
nas_NetworkStat1x . . . 526
nas_NetworkStatEVDO . . . 529
nas_nmrCellInfo . . . 530
nas_nr5gBandPref . . . 531
nas_NR5gBandPrefTlv . . . 532
nas_operatorNameString . . . 533
nas_OperatorPLMNData . . . 533
nas_operatorPLMNList . . . 534
nas_PhyCaAggPcellInfo . . . 535
nas_PhyCaAggScellDlBw . . . 536
nas_PhyCaAggScellIndex . . . 536
nas_PhyCaAggScellIndType . . . 537
nas_PhyCaAggScellInfo . . . 538
nas_PilotSetData . . . 540
nas_PilotSetParams . . . 541
nas_PLMNNetworkName . . . 541
nas_PLMNNetworkNameData . . . 542
nas_PRLPrefTlv . . . 543
nas_protocolSubtypeElement . . . 544

nas_qaQmi3Gpp2TimeZone . . . 546
nas_QmiNas3GppNetworkInfo . . . 546
nas_QmiNas3GppNetworkRAT . . . 548
nas_QmisNasPcsDigit . . . 548
nas_RankIndicatorTlv . . . 549
nas_RatDisabledMaskTlv . . . 549
nas_RejectReasonTlv . . . 550
nas_RFBandInfoElements . . . 551
nas_RfBandInfoExtFormat . . . 551
nas_RfBandInfoExtFormatElements . . . 552
nas_RfBandInfoList . . . 553
nas_RfBandwidthInfo . . . 553
nas_RfBandwidthInfoElements . . . 554
nas_RfDedicatedBandInfo . . . 555
nas_RfDedicatedBandInfoElements . . . 555
nas_RFInfoTlv . . . 556
nas_roamIndList . . . 557
nas_RoamPrefTlv . . . 558
nas_RSRPThresh . . . 558
nas_rsrqInformation . . . 559
nas_RSRQThresh . . . 559
nas_RSSIThresh . . . 560
nas_rxInfo . . . 561
nas_RxSigInfo . . . 562
nas_rxSignalStrengthListElement . . . 563
nas_SccRxInfo . . . 564
nas_serviceProviderName . . . 565
nas_servSystem . . . 566
nas_sidNid . . . 567
nas_SignalStrengthTlv . . . 568
nas_SLQSSignalStrengthsIndReq . . . 568
nas_SLQSSignalStrengthsInformation . . . 570
nas_SLQSSignalStrengthsTlv . . . 571
nas_SrvDomainPrefTlv . . . 571
nas_SrvStatusInfo . . . 572
nas_sysInfoCommon . . . 573
nas_TDSCDMAECIOThresh . . . 575
nas_TDSCDMARSCPThresh . . . 575
nas_TDSCDMARSSIThresh . . . 576
nas_TDSCDMASINRCONFThresh . . . 576
nas_TDSCDMASINRThresh . . . 577
nas_timeInfo . . . 577
nas_trueIMSI . . . 579
nas_txInfo . . . 580
nas_UMTSInfo . . . 581
nas_UMTSinstInfo . . . 582
nas_umtsLTENbrCell . . . 583
nas_UniversalTime . . . 584
nas_wcdmaCellInfo . . . 585
nas_WCDMAECIOThresh . . . 586
nas_WCDMAInfoLTENeighborCell . . . 587
nas_WCDMARSSIThresh . . . 587
nas_WCDMASysInfo . . . 588
nas_wcdmaUARFCN . . . 591
NASBandPreferenceTlv . . . 592
nasCellLocationInfoResp . . . 592
NASEmergencyModeTlv . . . 594
nasGet3GPP2SubscriptionInfoReq . . . 594

nasGet3GPP2SubscriptionInfoResp . . . 594
nasGeteDRXParamsResp . . . 595
nasGetHDRColorCodeResp . . . 596
nasGetLTECphyCa . . . 597
NasGetLTECphyCaInfo . . . 597
nasGetLTECphyCaResp . . . 598
NasGetRFInfoResp . . . 598
nasGetSigInfoResp . . . 599
nasGetSysInfoResp . . . 600
nasGetTxRxInfoReq . . . 603
nasGetTxRxInfoResp . . . 603
NASGWAcqOrderPrefTlv . . . 604
nasIndicationRegisterReq . . . 604
nasInitNetworkReg . . . 608
NASLTEBandPreferenceTlv . . . 608
NASLteNasReleaseInfoTlv . . . 609
NASModePreferenceTlv . . . 610
NASNetSelPreferenceTlv . . . 610
nasNetworkReject . . . 610
nasNetworkTime . . . 613
nasOperatorNameResp . . . 614
NASOTAMessageTlv . . . 615
NASPhyCaAggPcellInfo . . . 616
NASPhyCaAggScellDlBw . . . 617
NASPhyCaAggScellIndex . . . 617
NASPhyCaAggScellIndType . . . 618
NASPhyCaAggScellInfo . . . 618
nasPLMNNameReq . . . 619
nasPLMNNameResp . . . 620
NASPRLPreferenceTlv . . . 623
NASQmiCbkNasSwiOTAMessageInd . . . 623
NASQmiCbkNasSystemSelPrefInd . . . 624
NASRoamPreferenceTlv . . . 625
NASServDomainPrefTlv . . . 625
NASServingSystemInfo . . . 626
nasSeteDRXParamsReq . . . 627
nasSigInfo . . . 628
nasSwiGetChannelLockResp . . . 629
NasSwiIndReg . . . 630
nasSwiSetChannelLockReq . . . 631
nasSysInfo . . . 632
NASTimeInfoTlv . . . 635
nasTimers . . . 635
netSelectionPref . . . 636
NetStats . . . 636
NetworkDebugResp . . . 638
NetworkStat1x . . . 638
NetworkStatEVDO . . . 641
newMTMessageTlv . . . 642
newPwdData . . . 643
nmrCellInfo . . . 643
nr5gBandPref . . . 645
NR5gBandPrefTlv . . . 645
NSSAudioCtrl . . . 646
NWProfile . . . 647
omaDmConfigTlv . . . 647
omaDmConfigTlvExt . . . 648
omaDmFotaTlv . . . 650

omaDmFotaTlvExt . . . 652
omaDmNotificationsTlv . . . 654
operatorNameString . . . 655
OperatorPLMNData . . . 656
operatorPLMNList . . . 656
pack_dms_ActivateAutomatic_t . . . 657
pack_dms_GetCustFeaturesV2_t . . . 657
pack_dms_ResetToFactoryDefaults_t . . . 658
pack_dms_SetActivationStatusCallback_t . . . 658
pack_dms_SetCrashAction_t . . . 659
pack_dms_SetCustFeature_t . . . 659
pack_dms_SetCustFeaturesV2_t . . . 661
pack_dms_SetEventReport_t . . . 662
pack_dms_SetIndicationRegister_t . . . 663
pack_dms_SetPower_t . . . 663
pack_dms_SetUSBComp_t . . . 664
pack_dms_SLQSDmsSwiIndicationRegister_t . . . 665
pack_dms_SLQSSetPowerSaveModeConfig_t . . . 666
pack_dms_SLQSSwiGetCrashInfo_t . . . 666
pack_dms_SLQSSwiSetDyingGaspCfg_t . . . 667
pack_dms_SLQSSwiSetHostDevInfo_t . . . 667
pack_dms_SLQSSwiSetOSInfo_t . . . 668
pack_dms_SwiSetEventReport_t . . . 669
pack_dms_UIMChangePIN_t . . . 669
pack_dms_UIMGetControlKeyStatus_t . . . 670
pack_dms_UIMGetICCID_t . . . 670
pack_dms_UIMSetControlKeyProtection_t . . . 671
pack_dms_UIMSetPINProtection_t . . . 672
pack_dms_UIMUnblockControlKey_t . . . 672
pack_dms_UIMUnblockPIN_t . . . 673
pack_dms_UIMVerifyPIN_t . . . 674
pack_fms_GetImagesPreference_t . . . 674
pack_fms_GetStoredImages_t . . . 674
pack_fms_SetImagesPreference_t . . . 675
pack_loc_Delete_Assist_Data_t . . . 676
pack_loc_EventRegister_t . . . 677
pack_loc_SetExtPowerState_t . . . 679
pack_loc_SetOperationMode_t . . . 679
pack_loc_SLQSLOCGetBestAvailPos_t . . . 680
pack_loc_SLQSLOCGetServer_t . . . 681
pack_loc_SLQSLOCInjectPosition_t . . . 681
pack_loc_SLQSLOCInjectSensorData_t . . . 686
pack_loc_SLQSLOCInjectUTCTime_t . . . 688
pack_loc_SLQSLOCSetCradleMountConfig_t . . . 688
pack_loc_SLQSLOCSetServer_t . . . 689
pack_loc_Start_t . . . 690
pack_loc_Stop_t . . . 692
pack_nas_InitiateDomainAttach_t . . . 692
pack_nas_SetACCOLC_t . . . 693
pack_nas_SetCDMANetworkParameters_t . . . 693
pack_nas_SetNetworkPreference_t . . . 695
pack_nas_SLQSConfigSigInfo_t . . . 695
pack_nas_SLQSGetPLMNName_t . . . 697
pack_nas_SLQSInitiateNetworkRegistration_t . . . 698
pack_nas_SLQSNasConfigSigInfo2_t . . . 699
pack_nas_SLQSNasGet3GPP2Subscription_t . . . 703
pack_nas_SLQSNasGetTxRxInfo_t . . . 704
pack_nas_SLQSNasIndicationRegisterExt_t . . . 704

pack_nas_SLQSNASSeteDRXParams_t . . . 707
pack_nas_SLQSNasSwiIndicationRegister_t . . . 708
pack_nas_SLQSNASSwiSetChannelLock_t . . . 709
pack_nas_SLQSSetBandPreference_t . . . 710
pack_nas_SLQSSetSignalStrengthsCallback_t . . . 712
pack_nas_SLQSSetSysSelectionPref_t . . . 712
pack_nas_SLQSSetSysSelectionPrefExt_t . . . 718
pack_nas_SLQSSwiPSDetach_t . . . 727
pack_pds_PDSInjectTimeReference_t . . . 727
pack_pds_ResetPDSData_t . . . 728
pack_pds_SetEventReportCallback_t . . . 729
pack_pds_SetPDSDefaults_t . . . 729
pack_pds_SetPDSState_t . . . 730
pack_pds_SetPortAutomaticTracking_t . . . 730
pack_pds_SetServiceAutomaticTracking_t . . . 731
pack_pds_SetXTRAAutomaticDownload_t . . . 731
pack_pds_SetXTRANetwork_t . . . 732
pack_pds_SLQSGetAGPSConfig_t . . . 732
pack_pds_SLQSPDSInjectAbsoluteTimeReference_t . . . 733
pack_pds_SLQSPDSInjectPositionData_t . . . 734
pack_pds_SLQSSetAGPSConfig_t . . . 736
pack_pds_SLQSSetPositionMethodState_t . . . 736
pack_pds_StartPDSTrackingSessionExt_t . . . 737
pack_qmi_t . . . 738
pack_qos_BindDataPort_t . . . 739
pack_qos_SLQSQosSwiReadApnExtraParams_t . . . 740
pack_qos_SLQSQosSwiReadDataStats_t . . . 740
pack_qos_SLQSSetQosEventCallback_t . . . 740
pack_rms_SetSMSWake_t . . . 741
pack_sar_SLQSSetRfSarState_t . . . 741
pack_sms_SaveSMS_t . . . 742
pack_sms_SendSMS_t . . . 743
pack_sms_SetNewSMSCallback_t . . . 744
pack_sms_SetSMSCAddress_t . . . 744
pack_sms_SLQSDeleteSMS_t . . . 744
pack_sms_SLQSGetSMS_t . . . 745
pack_sms_SLQSGetSmsBroadcastConfig_t . . . 746
pack_sms_SLQSGetSMSList_t . . . 746
pack_sms_SLQSModifySMSStatus_t . . . 747
pack_sms_SLQSSendAsyncSMS_t . . . 748
pack_sms_SLQSSetIndicationRegister_t . . . 748
pack_sms_SLQSSetSmsBroadcastActivation_t . . . 749
pack_sms_SLQSSetSmsBroadcastConfig_t . . . 749
pack_sms_SLQSSetSmsStorage_t . . . 750
pack_sms_SLQSSmsGetMaxStorageSize_t . . . 751
pack_sms_SLQSSmsSetRoutes_t . . . 751
pack_swidms_SLQSSwiDmsSetMTU_t . . . 751
pack_swidms_SLQSSwiDmsSetUsbNetNum_t . . . 752
pack_swiloc_SwiLocSetAutoStart_t . . . 752
pack_swioma_SLQSOMADMCancelSession_t . . . 754
pack_swioma_SLQSOMADMGetSessionInfo_t . . . 754
pack_swioma_SLQSOMADMSendSelection_t . . . 755
pack_swioma_SLQSOMADMSetSettings_t . . . 755
pack_swioma_SLQSOMADMStartSession_t . . . 756
pack_uim_ChangePin_t . . . 757
pack_uim_ReadTransparent_t . . . 758
pack_uim_SetPinProtection_t . . . 759
pack_uim_SLQSUIMAuthenticate_t . . . 760

pack_uim_SLQSUIMDepersonalization_t . . . 761
pack_uim_SLQSUIMEventRegister_t . . . 761
pack_uim_SLQSUIMGetConfiguration_t . . . 762
pack_uim_SLQSUIMGetFileAttributes_t . . . 762
pack_uim_SLQSUIMPowerDown_t . . . 763
pack_uim_SLQSUIMPowerUp_t . . . 763
pack_uim_SLQSUIMRefreshComplete_t . . . 764
pack_uim_SLQSUIMRefreshGetLastEvent_t . . . 764
pack_uim_SLQSUIMRefreshOK_t . . . 765
pack_uim_SLQSUIMRefreshRegister_t . . . 765
pack_uim_SLQSUIMSwitchSlot_t . . . 766
pack_uim_UnblockPin_t . . . 767
pack_uim_VerifyPin_t . . . 768
pack_voice_AnswerUSSD_t . . . 769
pack_voice_OriginateUSSD_t . . . 769
pack_voice_SLQSOriginateUSSD_t . . . 769
pack_voice_SLQSVoiceALSSelectLine_t . . . 770
pack_voice_SLQSVoiceALSSetLineSwitching_t . . . 771
pack_voice_SLQSVoiceAnswerCall_t . . . 771
pack_voice_SLQSVoiceBindSubscription_t . . . 771
pack_voice_SLQSVoiceBurstDTMF_t . . . 772
pack_voice_SLQSVoiceDialCall_t . . . 772
pack_voice_SLQSVoiceEndCall_t . . . 774
pack_voice_SLQSVoiceGetCallBarring_t . . . 774
pack_voice_SLQSVoiceGetCallForwardingStatus_t . . . 775
pack_voice_SLQSVoiceGetCallInfo_t . . . 776
pack_voice_SLQSVoiceGetCallWaiting_t . . . 776
pack_voice_SLQSVoiceGetConfig_t . . . 777
pack_voice_SLQSVoiceIndicationRegister_t . . . 779
pack_voice_SLQSVoiceManageCalls_t . . . 779
pack_voice_SLQSVoiceOrigUSSDNoWait_t . . . 780
pack_voice_SLQSVoiceSendFlash_t . . . 781
pack_voice_SLQSVoiceSetCallBarringPassword_t . . . 781
pack_voice_SLQSVoiceSetConfig_t . . . 782
pack_voice_SLQSVoiceSetPreferredPrivacy_t . . . 784
pack_voice_SLQSVoiceSetSUPSService_t . . . 784
pack_voice_SLQSVoiceStartContDTMF_t . . . 786
pack_voice_SLQSVoiceStopContDTMF_t . . . 787
pack_wds_DHCPv4ClientLeaseChange_t . . . 787
pack_wds_GetDefaultProfile_t . . . 788
pack_wds_GetDefaultProfileNum_t . . . 788
pack_wds_GetDormancyState_t . . . 789
pack_wds_GetLastMobileIPError_t . . . 789
pack_wds_GetMobileIP_t . . . 789
pack_wds_GetMobileIPProfile_t . . . 789
pack_wds_GetPacketStatistics_t . . . 790
pack_wds_GetPacketStatus_t . . . 790
pack_wds_GetSessionDuration_t . . . 791
pack_wds_RMSetTransferStatistics_t . . . 791
pack_wds_SetAutoconnect_t . . . 792
pack_wds_SetDefaultProfile_t . . . 792
pack_wds_SetDefaultProfileNum_t . . . 794
pack_wds_SetMobileIP_t . . . 795
pack_wds_SetMobileIPParameters_t . . . 795
pack_wds_SetMobileIPProfile_t . . . 796
pack_wds_SLQSCreateProfile_t . . . 798
pack_wds_SLQSDeleteProfile_t . . . 799
pack_wds_SLQSGetCurrDataSystemStat_t . . . 799

pack_wds_SLQSGetDataBearerTechnology_t . . . 800
pack_wds_SLQSGetDUNCallInfo_t . . . 800
pack_wds_SLQSGetProfileSettings_t . . . 801
pack_wds_SLQSGetRuntimeSettings_t . . . 802
pack_wds_SLQSModifyProfile_t . . . 803
pack_wds_SLQSSet3GPPConfigItem_t . . . 804
pack_wds_SLQSSetIPFamilyPreference_t . . . 806
pack_wds_SLQSSetWdsEventCallback_t . . . 806
pack_wds_SLQSSGetDHCPv4ClientConfig_t . . . 807
pack_wds_SLQSSSetDHCPv4ClientConfig_t . . . 807
pack_wds_SLQSSSetLoopback_t . . . 808
pack_wds_SLQSStartDataSession_t . . . 808
pack_wds_SLQSStopDataSession_t . . . 810
pack_wds_SLQSWdsSetEventReport_t . . . 810
pack_wds_SLQSWdsSwiPDPRuntimeSettings_t . . . 812
PackCreateProfileOut . . . 812
packgetDyingGaspCfg . . . 813
packgetDyingGaspStatistics . . . 813
PCMparams . . . 814
PCSCFFQDNAddress . . . 815
PCSCFFQDNAddressList . . . 815
PCSCFIPv4ServerAddressList . . . 816
PDSPositionData . . . 816
PDSPosMethodStateReq . . . 818
peerNumberInfo . . . 819
personalizationStatus . . . 821
PhyCaAggPcellInfo . . . 822
PhyCaAggScellDlBw . . . 822
PhyCaAggScellIndex . . . 823
PhyCaAggScellIndType . . . 823
PhyCaAggScellInfo . . . 824
PilotSetData . . . 827
PilotSetParams . . . 828
pktErrRate . . . 828
PlmnID . . . 829
PLMNNetworkName . . . 829
PLMNNetworkNameData . . . 830
Port . . . 832
PowerSaveModeConfigReq . . . 832
PowerSaveModeConfigResp . . . 833
precisionDilution_s . . . 834
PrefImageList . . . 835
prefVoiceSO . . . 835
Profile3GPP . . . 837
Profile3GPP2 . . . 843
ProfileIdentifier . . . 848
protocolSubtypeElement . . . 849
PSDetachReq . . . 851
PSMActiveTimerTlv . . . 851
PSMDurationDueToOOSTlv . . . 852
PSMDurationThresholdTlv . . . 852
PSMEarlyWakeupTimeTlv . . . 853
PSMEnableStateTlv . . . 853
PSMPeriodicUpdateTimerTlv . . . 854
PSMRandomizationWindowTlv . . . 854
qaQmi3Gpp2TimeZone . . . 855
qaQmiInterfaceInfo . . . 855
qaQmiServingSystemParam . . . 856

QmiCbkCatEventStatusReportInd . . . 860
QmiCbkLocBestAvailPosInd . . . 860
QmiCbkLocCradleMountInd . . . 866
QmiCbkLocEngineStateInd . . . 866
QmiCbkLocEventNMEAInd . . . 867
QmiCbkLocEventTimeSyncInd . . . 867
QmiCbkLocGetServerInd . . . 868
QmiCbkLocInjectPositionInd . . . 869
QmiCbkLocInjectSensorDataInd . . . 870
QmiCbkLocInjectTimeInd . . . 872
QmiCbkLocInjectUTCTimeInd . . . 872
QmiCbkLocOpModeInd . . . 873
QmiCbkLocPositionReportInd . . . 874
QmiCbkLocSensorStreamingInd . . . 880
QmiCbkLocSetExtPowerConfigInd . . . 881
QmiCbkLocSetServerInd . . . 881
QmiCbkNasLTECphyCaInfo . . . 882
QmiCbkSwiOmaDmEventStatusReportInd . . . 883
QmiCbkSwiOmaDmEventStatusReportIndExt . . . 883
QmiCbkTmdMitiLvlRptInd . . . 883
QmiCbkWdsStatisticsIndState . . . 884
qmifwinfo_s . . . 885
QmiNas3GppNetworkInfo . . . 886
QmiNasGetRFBandInfoResp . . . 887
QmiNasPerformNetworkScanResp . . . 888
qmiSmsMessageList . . . 888
qmiWDSDataBearerTechnology . . . 888
QmiWdsIpAddressInfo . . . 890
qmiWdsRunTimeSettings . . . 890
qos_BindDataPortMuxID_t . . . 894
qos_BindDataPortPeripheralEndPointID_t . . . 894
qos_BindDataPortSIODataPort_t . . . 895
QosClassID . . . 895
QosEventInfo . . . 896
QosFlowInfo . . . 898
QosFlowInfoState . . . 899
QosMap . . . 899
RankIndicatorInd . . . 900
RatDisabledMaskTlv . . . 900
readResult . . . 901
readTransparentInfo . . . 902
redirNumInfo . . . 902
registerRefresh . . . 904
remainingRetries . . . 905
remotePartyName . . . 905
remotePartyNum . . . 906
ReqFieldsList . . . 907
RespFieldsList . . . 908
RFBandInfoElements . . . 908
RfBandInfoExtFormat . . . 909
RfBandInfoExtFormatElements . . . 910
RfBandInfoList . . . 911
RfBandwidthInfo . . . 911
RfBandwidthInfoElements . . . 912
RfDedicatedBandInfo . . . 912
RfDedicatedBandInfoElements . . . 913
rmTrasnferStaticsReq . . . 914
roamIndList . . . 914

RoamingInfo . . . 915
roamTimer . . . 915
RSRPThresh . . . 916
rsrqInformation . . . 917
RSRQThresh . . . 917
RSSIThresh . . . 918
RXAGCList . . . 919
RXAVCList . . . 920
rxInfo . . . 920
RXPCMIIRFltr . . . 922
RxSigInfo . . . 923
rxSignalStrengthListElement . . . 924
sApnExtraParams . . . 925
satelliteInfo . . . 926
SccRxInfo . . . 929
sensorData . . . 929
sensorData_t . . . 931
sensorDataUsage_s . . . 933
serialNumbersInfo . . . 933
serviceProviderName . . . 935
ServingSystemInfo . . . 935
servSystem . . . 937
sessionInfo . . . 938
sessionInfoExt . . . 939
sessionInfoTlv . . . 939
sessionInfoTlvExt . . . 940
SetAudioPathConfigReq . . . 940
SetAudioProfileReq . . . 942
SetAudioVolTLBConfigReq . . . 943
SetAudioVolTLBConfigResp . . . 944
setCustomSettingV2 . . . 945
setDyingGaspCfg . . . 945
SetIMSSMSConfigReq . . . 946
SetIMSSMSConfigResp . . . 946
SetIMSUserConfigReq . . . 947
SetIMSUserConfigResp . . . 947
SetIMSVoIPConfigReq . . . 948
SetIMSVoIPConfigResp . . . 950
SetM2MAudioAVCFGReq . . . 951
SetM2MAudioLPBKReq . . . 952
SetM2MAudioProfileReq . . . 952
SetM2MAudioVolumeReq . . . 953
SetM2MAVMuteReq . . . 954
SetM2MSpkrGainReq . . . 955
setPINProtection . . . 955
SetRegMgrConfigReq . . . 956
SetRegMgrConfigResp . . . 957
setSignalStrengthInfo . . . 957
SetSIPConfigReq . . . 962
SetSIPConfigResp . . . 963
sGetDeviceSeriesResult . . . 964
sidNid . . . 964
sigInfo . . . 965
signalInfo . . . 966
SignalStrengthDataType . . . 967
slot_t . . . 967
slotInf . . . 968
slotInfo . . . 970

slots_t . . . 971
slqsautoconnect . . . 972
SLQSDeleteProfileParams . . . 972
slqsfwinfo_s . . . 973
SlqsNas3GppNetworkInfo . . . 974
SlqsNasPcsDigit . . . 976
slqssendasyncsmsparams_s . . . 976
slqssendsmsparams_s . . . 978
slqsSessionStateInfo . . . 980
slqsSignalStrengthInfo . . . 980
SLQSSignalStrengthsIndReq . . . 983
SLQSSignalStrengthsInformation . . . 985
slqsWdsEventInfo . . . 986
sms_BroadcastConfig . . . 988
sms_CDMABroadcastConfig . . . 988
sms_getIndicationReg . . . 989
sms_getMsgWaitingInfo . . . 990
sms_getTransLayerInfo . . . 990
sms_getTransNWRegInfo . . . 991
sms_maxStorageSizeReq . . . 992
sms_maxStorageSizeResp . . . 992
sms_messageWaitingInfoContent . . . 993
sms_msgProtocolResp . . . 994
sms_qaQmi3GPP2BroadcastCfgInfo . . . 994
sms_qaQmi3GPPBroadcastCfgInfo . . . 995
sms_routeEntry . . . 995
sms_sendAsyncsmsParams . . . 996
sms_setIndicationReg . . . 999
sms_setRoutesReq . . . 999
sms_transLayerInfo . . . 1000
SMSAsyncRawSend_s . . . 1001
SMSCAddress . . . 1002
sMSCAddressInfo . . . 1003
sMSCAddressTlv . . . 1003
SMSEtwsMessage . . . 1004
sMSEtwsMessageInfo . . . 1005
sMSEtwsMessageTlv . . . 1005
SMSEtwsPlmn . . . 1006
sMSEtwsPlmnInfo . . . 1006
SMSEventInfo_s . . . 1007
smsMaxStorageSizeReq . . . 1008
smsMaxStorageSizeResp . . . 1009
SMSMemoryInfo . . . 1009
SMSMessageMode . . . 1010
sMSMessageModeInfo . . . 1010
smsMsgprotocolResp . . . 1010
SMSMTMessage . . . 1011
sMSMTMessageInfo . . . 1011
SMSOnIMS . . . 1012
sMSOnIMSInfo . . . 1012
sMSOnIMSTlv . . . 1013
smsRouteEntry . . . 1013
smsSetRoutesReq . . . 1014
SMSTransferRouteMTMessage . . . 1015
sMSTransferRouteMTMessageInfo . . . 1016
sQosFlowStat . . . 1017
sQosStat . . . 1017
SrvStatusInfo . . . 1019

ssdatasession_params . . . 1019
SupportedMsgList . . . 1022
SUPSInfo . . . 1023
SV . . . 1023
SVInfo . . . 1024
svUsedforFix_s . . . 1025
SWI_STRUCT_CarrierImage . . . 1025
swidms_ehrpdMTUSizeTlv . . . 1027
swidms_hrpdMTUSizeTlv . . . 1027
swidms_mtuSize3gppTlv . . . 1028
swidms_usbMTUSizeTlv . . . 1028
SwiDmsGetMTUResp . . . 1029
SwiDmsSLQSGetUsbNetNum . . . 1029
SwiLocGetAutoStartResp . . . 1030
SwiLocSetAutoStartReq . . . 1031
swiModemStatusResp . . . 1033
SwiOTAMsg_s . . . 1034
swiPDPRuntimeSettingsReq . . . 1035
swiPDPRuntimeSettingsResp . . . 1035
swiQosFilter . . . 1037
swiQosFlow . . . 1040
swiQosGranted . . . 1043
swiQosIds . . . 1043
swiQosModifyReq . . . 1044
swiQosReq . . . 1045
swiRMTrasnferStaticsReq . . . 1045
sysInfoCommon . . . 1046
sysSelectPrefParamsExt . . . 1049
t_gpsTime . . . 1052
t_sensor . . . 1052
t_Sv . . . 1053
TDSCDMAECIOThresh . . . 1053
TDSCDMARSCPThresh . . . 1054
TDSCDMARSSIThresh . . . 1054
tdscdmaSigInfoExt . . . 1055
TDSCDMASigInfoExt . . . 1055
TDSCDMASINRCONFThresh . . . 1056
TDSCDMASINRThresh . . . 1057
tempData_t . . . 1057
tempratureData . . . 1058
TFTIDParams . . . 1059
timeInfo . . . 1061
TmdDeRegNotMitigationLvlReq . . . 1063
TmdGetMitigationDevListResp . . . 1063
TmdGetMitigationLvlReq . . . 1064
TmdGetMitigationLvlResp . . . 1065
TmdMitigationLvlIndReq . . . 1065
TmdRegNotMitigationLvlReq . . . 1066
tokenBucket . . . 1066
Tos . . . 1067
transferRouteMessageTlv . . . 1067
TransferStatInd . . . 1068
TransferStatsDataType . . . 1068
TrStatInd . . . 1069
trueIMSI . . . 1069
TXAGCList . . . 1070
txInfo . . . 1071
TXPCMIIRFltr . . . 1072

uim_appStatus . . . 1073
uim_authenticateResult . . . 1076
uim_authenticationData . . . 1077
uim_cardResult . . . 1078
uim_cardStatus . . . 1079
uim_changeUIMPIN . . . 1080
uim_depersonalizationInformation . . . 1081
uim_encryptedPIN1 . . . 1082
uim_fileAttributes . . . 1083
uim_fileInfo . . . 1086
uim_hotSwapStatus . . . 1087
uim_personalizationStatus . . . 1087
uim_readResult . . . 1088
uim_readTransparentInfo . . . 1089
uim_refreshevent . . . 1089
uim_registerRefresh . . . 1091
uim_remainingRetries . . . 1092
uim_sessionInformation . . . 1093
uim_setPINProtection . . . 1093
uim_slotInfo . . . 1094
uim_UIMSessionInformation . . . 1096
uim_unblockUIMPIN . . . 1097
uim_verifyUIMPIN . . . 1098
UIMAuthenticateReq . . . 1098
UIMAuthenticateResp . . . 1099
UIMChangePinReq . . . 1100
UIMDepersonalizationReq . . . 1101
UIMDepersonalizationResp . . . 1101
UIMEventRegisterReqResp . . . 1101
UIMGetCardStatusResp . . . 1102
UIMGetConfigurationReq . . . 1102
UIMGetConfigurationResp . . . 1103
UIMGetFileAttributesReq . . . 1104
UIMGetFileAttributesResp . . . 1104
UIMGetSlotsStatusResp . . . 1105
UIMPinResp . . . 1106
UIMPowerDownReq . . . 1106
UIMPowerUpReq . . . 1107
UIMReadTransparentReq . . . 1107
UIMReadTransparentResp . . . 1108
UIMRefreshCompleteReq . . . 1109
UIMRefreshEvent . . . 1110
UIMRefreshGetLastEventReq . . . 1111
UIMRefreshGetLastEventResp . . . 1112
UIMRefreshOKReq . . . 1112
UIMRefreshRegisterReq . . . 1113
UIMSessionInformation . . . 1113
UIMSetPinProtectionReq . . . 1114
UIMSlotsStatus . . . 1115
UIMSlotStatus . . . 1115
UIMSlotStatusChangeInfo . . . 1117
UIMStatusChangeInfo . . . 1117
UIMSwitchSlotReq . . . 1117
UIMUnblockPinReq . . . 1118
UIMVerifyPinReq . . . 1119
UMTSInfo . . . 1120
UMTSinstInfo . . . 1122
umtsLTENbrCell . . . 1122

UMTSMinQoS . . . 1123
UMTSQoS . . . 1126
UMTSReqQoSSigInd . . . 1128
unblockUIMPIN . . . 1129
UniversalTime . . . 1130
unpack_dms_GetActivationState_t . . . 1131
unpack_dms_GetBandCapability_t . . . 1132
unpack_dms_GetCrashAction_t . . . 1134
unpack_dms_GetCustFeature_t . . . 1134
unpack_dms_GetCustFeaturesV2_t . . . 1137
unpack_dms_GetDeviceCap_t . . . 1137
unpack_dms_GetDeviceCapabilities_t . . . 1139
unpack_dms_GetDeviceHardwareRev_t . . . 1140
unpack_dms_GetDeviceMfr_t . . . 1140
unpack_dms_GetDeviceSerialNumbers_t . . . 1141
unpack_dms_GetFirmwareInfo_t . . . 1143
unpack_dms_GetFirmwareRevision_t . . . 1144
unpack_dms_GetFirmwareRevisions_t . . . 1145
unpack_dms_GetFSN_t . . . 1146
unpack_dms_GetHardwareRevision_t . . . 1147
unpack_dms_GetIMSI_t . . . 1147
unpack_dms_GetManufacturer_t . . . 1148
unpack_dms_GetModelID_t . . . 1148
unpack_dms_GetNetworkTime_t . . . 1149
unpack_dms_GetOfflineReason_t . . . 1150
unpack_dms_GetPower_t . . . 1150
unpack_dms_GetPRLVersion_t . . . 1152
unpack_dms_GetSerialNumbers_t . . . 1152
unpack_dms_GetUSBComp_t . . . 1153
unpack_dms_GetVoiceNumber_t . . . 1155
unpack_dms_PSMCfgChange_ind_t . . . 1156
unpack_dms_ResetToFactoryDefaults_t . . . 1157
unpack_dms_SetActivationStatusCallback_t . . . 1157
unpack_dms_SetCrashAction_t . . . 1158
unpack_dms_SetCustFeature_t . . . 1158
unpack_dms_SetCustFeaturesV2_t . . . 1159
unpack_dms_SetEventReport_ind_t . . . 1159
unpack_dms_SetEventReport_t . . . 1160
unpack_dms_SetFirmwarePreference_t . . . 1160
unpack_dms_SetIndicationRegister_t . . . 1160
unpack_dms_SetPower_t . . . 1161
unpack_dms_SetUSBComp_t . . . 1161
unpack_dms_SLQSDmsSwiGetPCInfo_t . . . 1161
unpack_dms_SLQSDmsSwiGetResetInfo_Ind_t . . . 1163
unpack_dms_SLQSDmsSwiGetResetInfo_t . . . 1164
unpack_dms_SLQSDmsSwiIndicationRegister_t . . . 1165
unpack_dms_SLQSGetBandCapability_t . . . 1166
unpack_dms_SLQSGetERIFile_t . . . 1169
unpack_dms_SLQSGetPowerSaveModeConfig_t . . . 1170
unpack_dms_SLQSSetPowerSaveModeConfig_t . . . 1171
unpack_dms_SLQSSwiClearDyingGaspStatistics_t . . . 1171
unpack_dms_SLQSSwiGetCrashInfo_t . . . 1171
unpack_dms_SLQSSwiGetDyingGaspCfg_t . . . 1172
unpack_dms_SLQSSwiGetDyingGaspStatistics_t . . . 1172
unpack_dms_SLQSSwiGetFirmwareCurr_t . . . 1173
unpack_dms_SLQSSwiGetFwUpdateStatus_t . . . 1174
unpack_dms_SLQSSwiGetHostDevInfo_t . . . 1176
unpack_dms_SLQSSwiGetOSInfo_t . . . 1177

unpack_dms_SLQSSwiGetSerialNoExt_t . . . 1177
unpack_dms_SLQSSwiSetDyingGaspCfg_t . . . 1178
unpack_dms_SLQSSwiSetHostDevInfo_t . . . 1178
unpack_dms_SLQSSwiSetOSInfo_t . . . 1179
unpack_dms_SLQSUIMGetState_t . . . 1179
unpack_dms_SwiEventReportCallBack_ind_t . . . 1179
unpack_dms_SwiSetEventReport_t . . . 1180
unpack_dms_UIMGetControlKeyStatus_t . . . 1180
unpack_dms_UIMGetICCID_t . . . 1181
unpack_dms_UIMGetPINStatus_t . . . 1182
unpack_dms_UIMSetControlKeyProtection_t . . . 1184
unpack_dms_UIMSetPINProtection_t . . . 1184
unpack_dms_UIMUnblockControlKey_t . . . 1185
unpack_fms_GetImagesPreference_t . . . 1185
unpack_fms_GetStoredImages_t . . . 1186
unpack_fms_SetImagesPreference_t . . . 1187
unpack_loc_BestAvailPos_Ind_t . . . 1187
unpack_loc_CradleMountCallback_Ind_t . . . 1194
unpack_loc_Delete_Assist_Data_t . . . 1195
unpack_loc_DeleteAssistData_Ind_t . . . 1196
unpack_loc_EngineState_Ind_t . . . 1196
unpack_loc_EventNMEA_Ind_t . . . 1197
unpack_loc_EventRegister_t . . . 1198
unpack_loc_EventTimeSyncCallback_Ind_t . . . 1198
unpack_loc_GetServer_Ind_t . . . 1199
unpack_loc_GnssSvInfo_Ind_t . . . 1200
unpack_loc_InjectPositionCallback_Ind_t . . . 1201
unpack_loc_InjectSensorDataCallback_Ind_t . . . 1202
unpack_loc_InjectTimeSyncDataCallback_Ind_t . . . 1203
unpack_loc_InjectUTCTimeCallback_Ind_t . . . 1204
unpack_loc_PositionRpt_Ind_t . . . 1205
unpack_loc_SensorStreamingCallback_Ind_t . . . 1212
unpack_loc_SetExtPowerConfig_Ind_t . . . 1213
unpack_loc_SetExtPowerState_t . . . 1213
unpack_loc_SetOperationMode_Ind_t . . . 1214
unpack_loc_SetOperationMode_t . . . 1215
unpack_loc_SetServer_Ind_t . . . 1215
unpack_loc_SLQSLOCGetBestAvailPos_t . . . 1216
unpack_loc_Start_t . . . 1217
unpack_loc_Stop_t . . . 1217
unpack_nas_GetCDMANetworkParameters_t . . . 1217
unpack_nas_GetHomeNetwork3GPP2_t . . . 1220
unpack_nas_GetHomeNetwork_t . . . 1222
unpack_nas_GetNetworkPreference_t . . . 1223
unpack_nas_GetRFInfo_t . . . 1224
unpack_nas_GetServingNetwork_t . . . 1225
unpack_nas_GetServingNetworkCapabilities_t . . . 1227
unpack_nas_GetSignalStrengths_t . . . 1228
unpack_nas_PerformNetworkScan_t . . . 1229
unpack_nas_SetDataCapabilitiesCallback_ind_t . . . 1230
unpack_nas_SetEventReportInd_t . . . 1230
unpack_nas_SetNasLTECphyCaIndCallback_ind_t . . . 1231
unpack_nas_SetNetworkPreference_t . . . 1232
unpack_nas_SetRoamingIndicatorCallback_ind_t . . . 1232
unpack_nas_SetServingSystemCallback_ind_t . . . 1233
unpack_nas_SLQSGetErrorRate_t . . . 1233
unpack_nas_SlqsGetLTECphyCAInfo_t . . . 1234
unpack_nas_SLQSGetNetworkTime_t . . . 1235

unpack_nas_SLQSGetOperatorNameData_t . . . 1235
unpack_nas_SLQSGetPLMNName_t . . . 1236
unpack_nas_SLQSGetServingSystem_t . . . 1239
unpack_nas_SLQSGetSignalStrength_t . . . 1243
unpack_nas_SLQSGetSysInfo_t . . . 1245
unpack_nas_SLQSGetSysSelectionPref_t . . . 1249
unpack_nas_SLQSGetSysSelectionPrefExt_t . . . 1253
unpack_nas_SLQSNasGet3GPP2Subscription_t . . . 1256
unpack_nas_SLQSNasGetCellLocationInfo_t . . . 1257
unpack_nas_SLQSNASGeteDRXParams_t . . . 1258
unpack_nas_SLQSNasGetHDRColorCode_t . . . 1259
unpack_nas_SLQSNasGetRFInfo_t . . . 1259
unpack_nas_SLQSNasGetSigInfo_t . . . 1260
unpack_nas_SLQSNasGetTxRxInfo_t . . . 1261
unpack_nas_SLQSNasNetworkTimeCallBack_ind_t . . . 1262
unpack_nas_SLQSNasSigInfoCallback_ind_t . . . 1263
unpack_nas_SLQSNASSwiGetChannelLock_t . . . 1264
unpack_nas_SLQSNasSwiModemStatus_t . . . 1265
unpack_nas_SLQSNasSwiOTAMessageCallback_ind_t . . . 1265
unpack_nas_SLQSNasTimerCallback_ind_t . . . 1266
unpack_nas_SLQSSetSysSelectionPrefCallBack_ind_t . . . 1267
unpack_nas_SLQSSwiGetHDRPersonality_t . . . 1267
unpack_nas_SLQSSwiGetHDRProtSubtype_t . . . 1268
unpack_nas_SLQSSwiGetHRPDStats_t . . . 1269
unpack_nas_SLQSSwiGetLteCQI_t . . . 1269
unpack_nas_SLQSSwiGetLteSccRxInfo_t . . . 1270
unpack_nas_SLQSSwiHDRPersonalityCallback_Ind_t . . . 1271
unpack_nas_SLQSSwiNetworkDebug_t . . . 1271
unpack_nas_SLQSSwiRandIndicatorCallback_Ind_t . . . 1272
unpack_nas_SLQSSysInfoCallback_ind_t . . . 1272
unpack_omaDmConfigTlv_t . . . 1275
unpack_omaDmFotaTlv_t . . . 1276
unpack_omaDmNotificationsTlv_t . . . 1278
unpack_pds_GetPDSDefaults_t . . . 1279
unpack_pds_GetPDSState_t . . . 1280
unpack_pds_GetPortAutomaticTracking_t . . . 1281
unpack_pds_GetServiceAutomaticTracking_t . . . 1281
unpack_pds_GetXTRAAutomaticDownload_t . . . 1282
unpack_pds_GetXTRANetwork_t . . . 1282
unpack_pds_GetXTRAValidity_t . . . 1283
unpack_pds_SetEventReport_Ind_t . . . 1283
unpack_pds_SetPdsState_Ind_t . . . 1285
unpack_pds_SLQSGetAGPSConfig_t . . . 1286
unpack_pds_SLQSGetGPSStateInfo_t . . . 1287
unpack_qmi_t . . . 1291
unpack_qos_dataRate_t . . . 1291
unpack_qos_IPv4Addr_t . . . 1292
unpack_qos_IPv6Addr_t . . . 1292
unpack_qos_IPv6TrafCls_t . . . 1293
unpack_qos_pktErrRate_t . . . 1293
unpack_qos_Port_t . . . 1294
unpack_qos_QosFlowInfo_t . . . 1294
unpack_qos_QosFlowInfoState_t . . . 1296
unpack_qos_SLQSQosGetNetworkStatus_t . . . 1296
unpack_qos_SLQSQosSwiReadApnExtraParams_t . . . 1297
unpack_qos_SLQSQosSwiReadDataStats_t . . . 1298
unpack_qos_SLQSSetQosEventCallback_ind_t . . . 1299
unpack_qos_SLQSSetQosNWStatusCallback_ind_t . . . 1300

unpack_qos_SLQSSetQosPriEventCallback_ind_t . . . 1300
unpack_qos_SLQSSetQosStatusCallback_ind_t . . . 1301
unpack_qos_swiQosFilter_t . . . 1302
unpack_qos_swiQosFlow_t . . . 1306
unpack_qos_tokenBucket_t . . . 1310
unpack_qos_Tos_t . . . 1310
unpack_QosFlowStat_t . . . 1311
unpack_result_t . . . 1311
unpack_rms_GetSMSWake_t . . . 1312
unpack_RMTransferStatistics_ind_t . . . 1312
unpack_sar_SLQSGetRfSarState_t . . . 1313
unpack_sms_GetSMSCAddress_t . . . 1314
unpack_sms_SaveSMS_t . . . 1315
unpack_sms_SendSMS_t . . . 1315
unpack_sms_SetNewSMSCallback_ind_t . . . 1316
unpack_sms_SetNewSMSCallback_t . . . 1317
unpack_sms_SLQSDeleteSMS_t . . . 1317
unpack_sms_SLQSGetIndicationRegister_t . . . 1317
unpack_sms_SLQSGetMessageWaiting_t . . . 1318
unpack_sms_SLQSGetSMS_t . . . 1318
unpack_sms_SLQSGetSmsBroadcastConfig_t . . . 1319
unpack_sms_SLQSGetSMSList_t . . . 1320
unpack_sms_SLQSGetTransLayerInfo_t . . . 1320
unpack_sms_SLQSGetTransNWRegInfo_t . . . 1321
unpack_sms_SLQSModifySMSStatus_t . . . 1321
unpack_sms_SLQSNWRegInfoCallback_ind_t . . . 1321
unpack_sms_SLQSSmsGetMaxStorageSize_t . . . 1322
unpack_sms_SLQSSmsGetMessageProtocol_t . . . 1322
unpack_sms_SLQSSwiGetSMSStorage_t . . . 1323
unpack_sms_SLQSTransLayerInfoCallback_ind_t . . . 1323
unpack_sms_SLQSWmsAsyncRawSendCallBack_ind_t . . . 1324
unpack_sms_SLQSWmsMemoryFullCallBack_ind_t . . . 1326
unpack_sms_SLQSWmsMessageWaitingCallBack_ind_t . . . 1326
unpack_swidms_SLQSSwiDmsGetMTU_t . . . 1327
unpack_swidms_SLQSSwiDmsGetUsbNetNum_t . . . 1328
unpack_swidms_SLQSSwiDmsSetMTU_t . . . 1328
unpack_swiloc_SwiLocGetAutoStart_t . . . 1328
unpack_swioma_SLQSOMADMAlertCallback_ind_t . . . 1330
unpack_swioma_SLQSOMADMGetSessionInfo_t . . . 1331
unpack_swioma_SLQSOMADMGetSettings_t . . . 1334
unpack_swioma_SLQSOMADMStartSession_t . . . 1335
unpack_uim_ChangePin_t . . . 1336
unpack_uim_GetCardStatus_t . . . 1337
unpack_uim_ReadTransparent_t . . . 1337
unpack_uim_SetPinProtection_t . . . 1338
unpack_uim_SetUimSlotStatusChangeCallback_ind_t . . . 1339
unpack_uim_SLQSUIMAuthenticate_t . . . 1340
unpack_uim_SLQSUIMDepersonalization_t . . . 1340
unpack_uim_SLQSUIMEventRegister_t . . . 1341
unpack_uim_SLQSUIMGetConfiguration_t . . . 1341
unpack_uim_SLQSUIMGetFileAttributes_t . . . 1342
unpack_uim_SLQSUIMGetSlotsStatus_t . . . 1343
unpack_uim_SLQSUIMRefreshCallback_Ind_t . . . 1343
unpack_uim_SLQSUIMRefreshGetLastEvent_t . . . 1344
unpack_uim_SLQSUIMSetStatusChangeCallBack_ind_t . . . 1344
unpack_uim_UnblockPin_t . . . 1345
unpack_uim_VerifyPin_t . . . 1345
unpack_voice_allCallStatusCallback_ind_t . . . 1346

unpack_voice_DTMFEventCallback_ind_t . . . 1349
unpack_voice_OTASPStatusCallback_ind_t . . . 1350
unpack_voice_SLQSOriginateUSSD_t . . . 1351
unpack_voice_SLQSVoiceAnswerCall_t . . . 1354
unpack_voice_SLQSVoiceBurstDTMF_t . . . 1355
unpack_voice_SLQSVoiceDialCall_t . . . 1355
unpack_voice_SLQSVoiceEndCall_t . . . 1356
unpack_voice_SLQSVoiceGetAllCallInfo_t . . . 1357
unpack_voice_SLQSVoiceGetCallBarring_t . . . 1359
unpack_voice_SLQSVoiceGetCallForwardingStatus_t . . . 1361
unpack_voice_SLQSVoiceGetCallInfo_t . . . 1362
unpack_voice_SLQSVoiceGetCallWaiting_t . . . 1366
unpack_voice_SLQSVoiceGetCLIP_t . . . 1367
unpack_voice_SLQSVoiceGetCLIR_t . . . 1368
unpack_voice_SLQSVoiceGetCNAP_t . . . 1370
unpack_voice_SLQSVoiceGetCOLP_t . . . 1371
unpack_voice_SLQSVoiceGetCOLR_t . . . 1372
unpack_voice_SLQSVoiceGetConfig_t . . . 1374
unpack_voice_SLQSVoiceManageCalls_t . . . 1376
unpack_voice_SLQSVoiceSendFlash_t . . . 1376
unpack_voice_SLQSVoiceSetCallBarringPassword_t . . . 1377
unpack_voice_SLQSVoiceSetConfig_t . . . 1378
unpack_voice_SLQSVoiceSetSUPSService_t . . . 1380
unpack_voice_SLQSVoiceStartContDTMF_t . . . 1381
unpack_voice_SLQSVoiceStopContDTMF_t . . . 1381
unpack_voice_SLQSVoiceSUPSCallback_ind_t . . . 1382
unpack_voice_SUPSNotificationCallback_ind_t . . . 1384
unpack_voice_USSDNotificationCallback_ind_t . . . 1386
unpack_voice_VoiceInfoRecCallback_ind_t . . . 1386
unpack_voice_voicePrivacyChangeCallback_ind_t . . . 1389
unpack_wds_DHCPv4ClientLease_ind_t . . . 1389
unpack_wds_GetAutoconnect_t . . . 1390
unpack_wds_GetByteTotals_t . . . 1390
unpack_wds_GetConnectionRate_t . . . 1391
unpack_wds_GetDataBearerTechnology_t . . . 1392
unpack_wds_GetDefaultProfile_t . . . 1392
unpack_wds_GetDefaultProfileNum_t . . . 1395
unpack_wds_GetDormancyState_t . . . 1395
unpack_wds_GetLastMobileIPError_t . . . 1396
unpack_wds_GetMobileIP_t . . . 1396
unpack_wds_GetMobileIPProfile_t . . . 1397
unpack_wds_GetPacketStatistics_t . . . 1398
unpack_wds_GetPacketStatus_t . . . 1400
unpack_wds_GetSessionDuration_t . . . 1402
unpack_wds_GetSessionState_t . . . 1403
unpack_wds_RMSetTransferStatistics_t . . . 1403
unpack_wds_SetMobileIPProfile_t . . . 1403
unpack_wds_SLQSCreateProfile_t . . . 1404
unpack_wds_SLQSDeleteProfile_t . . . 1404
unpack_wds_SLQSDUNCallInfoCallBack_ind_t . . . 1405
unpack_wds_SLQSGet3GPPConfigItem_t . . . 1406
unpack_wds_SLQSGetCurrDataSystemStat_t . . . 1408
unpack_wds_SLQSGetCurrentChannelRate_t . . . 1408
unpack_wds_SLQSGetDataBearerTechnology_t . . . 1409
unpack_wds_SLQSGetDUNCallInfo_t . . . 1410
unpack_wds_SLQSGetProfileSettings_t . . . 1413
unpack_wds_SLQSGetRuntimeSettings_t . . . 1413
unpack_wds_SLQSModifyProfile_t . . . 1416

unpack_wds_SLQSSetIPFamilyPreference_t . . . 1417
unpack_wds_SLQSSetPacketSrvStatusCallback_t . . . 1417
unpack_wds_SLQSSetWdsEventCallback_ind_t . . . 1419
unpack_wds_SLQSSGetDHCPv4ClientConfig_t . . . 1421
unpack_wds_SLQSSGetLoopback_t . . . 1421
unpack_wds_SLQSStartDataSession_t . . . 1422
unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t . . . 1423
UnPackGetProfileSettingOut . . . 1425
unpackWdsProfileParam . . . 1426
urlAddr . . . 1426
URLAddrInfo . . . 1427
USBCompConfig . . . 1427
USBCompParams . . . 1428
usbMTUSizeTlv . . . 1430
USSDNoWaitIndicationInfo . . . 1431
USSDRespFNetwork . . . 1431
USSInfo . . . 1432
USSResp . . . 1433
UUSInfo . . . 1433
verifyUIMPIN . . . 1434
voice_airTimer . . . 1435
voice_allCallsAlphaIDInfo . . . 1435
voice_allCallsDiagInfo . . . 1436
voice_allCallsUUSInfo . . . 1436
voice_alphaIDInfo . . . 1437
voice_arrAlertingPattern . . . 1438
voice_arrAlertingType . . . 1438
voice_arrAlphaID . . . 1439
voice_arrCalledPartyNum . . . 1440
voice_arrCallEndReason . . . 1440
voice_arrCallInfo . . . 1441
voice_arrConnectPartyNum . . . 1441
voice_arrDiagInfo . . . 1442
voice_arrRedirPartyNum . . . 1442
voice_arrRemotePartyName . . . 1443
voice_arrRemotePartyNum . . . 1444
voice_arrSvcOption . . . 1444
voice_arrUUSInfo . . . 1445
voice_burstDTMFInfo . . . 1445
voice_calledPartyInfo . . . 1446
voice_calledPartySubAdd . . . 1448
voice_callerIDInfo . . . 1449
voice_callFwdTypeAndPlan . . . 1449
voice_callFWExtInfo . . . 1450
voice_callFWInfo . . . 1452
voice_callInfo . . . 1453
voice_callingPartyInfo . . . 1455
voice_ccSUPSType . . . 1456
voice_CLIPResp . . . 1457
voice_CLIRResp . . . 1458
voice_CNAPResp . . . 1459
voice_COLPResp . . . 1459
voice_COLRResp . . . 1460
voice_connectNumInfo . . . 1461
voice_CUGInfo . . . 1462
voice_curAMRConfig . . . 1463
voice_diagInfo . . . 1464
voice_DTMFInfo . . . 1464

voice_DTMFLengths . . . 1465
voice_ECTNum . . . 1466
voice_extDispRecInfo . . . 1467
voice_getAllCallInformation . . . 1467
voice_getAllCallRmtPtyName . . . 1468
voice_getAllCallRmtPtyNum . . . 1469
voice_getCallFWExtInfo . . . 1469
voice_getCallFWInfo . . . 1470
voice_lineCtrlInfo . . . 1470
voice_newPwdData . . . 1471
voice_NSSAudioCtrl . . . 1472
voice_peerNumberInfo . . . 1472
voice_prefVoiceSO . . . 1474
voice_redirNumInfo . . . 1476
voice_remotePartyName . . . 1478
voice_remotePartyNum . . . 1478
voice_roamTimer . . . 1479
voice_signalInfo . . . 1480
voice_SUPSInfo . . . 1481
voice_USSDNotificationNetworkInfo . . . 1481
voice_USSInfo . . . 1482
voice_UUSInfo . . . 1482
voiceALSSelectLineInfo . . . 1484
voiceALSSetLineSwitchInfo . . . 1484
voiceAnswerCall . . . 1484
voiceBindSubscriptionInfo . . . 1485
voiceBurstDTMFInfo . . . 1485
voiceCallInfoReq . . . 1486
voiceCallInfoResp . . . 1486
voiceCallRequestParams . . . 1489
voiceCallResponseParams . . . 1490
voiceContDTMFinfo . . . 1491
voiceDTMFEventInfo . . . 1492
voiceFlashInfo . . . 1493
voiceGetAllCallInfo . . . 1493
voiceGetCallBarringReq . . . 1496
voiceGetCallBarringResp . . . 1497
voiceGetCallFWReq . . . 1498
voiceGetCallFWResp . . . 1499
voiceGetCallWaitInfo . . . 1500
voiceGetCLIPResp . . . 1502
voiceGetCLIRResp . . . 1503
voiceGetCNAPResp . . . 1504
voiceGetCOLPResp . . . 1505
voiceGetCOLRResp . . . 1507
voiceGetConfigReq . . . 1508
voiceGetConfigResp . . . 1510
voiceIndicationRegisterInfo . . . 1511
voiceInfoRec . . . 1512
voiceManageCallsReq . . . 1515
voiceManageCallsResp . . . 1515
voiceOrigUSSDNoWaitInfo . . . 1516
voiceOTASPStatusInfo . . . 1516
voicePrivacyInfo . . . 1517
voiceSetAllCallStatusCbkInfo . . . 1518
voiceSetCallBarringPwdInfo . . . 1520
voiceSetCallBarringPwdResp . . . 1521
voiceSetConfigReq . . . 1522

voiceSetConfigResp . . . 1524
voiceSetPrefPrivacy . . . 1525
voiceSetSUPSServiceReq . . . 1526
voiceSetSUPSServiceResp . . . 1528
voiceStopContDTMFinfo . . . 1529
voiceSUPSInfo . . . 1530
voiceSUPSNotification . . . 1532
wcdmaCellInfo . . . 1534
WCDMAECIOThresh . . . 1535
WCDMAInfoLTENeighborCell . . . 1535
wcdmaLongMsgDecodingParams . . . 1536
wcdmaMsgDecodingParams . . . 1538
wcdmaMsgEncodingParams . . . 1539
WCDMARSSIThresh . . . 1540
WCDMASysInfo . . . 1541
wcdmaUARFCN . . . 1544
wds_channelRate . . . 1545
wds_ChannelRateTlv . . . 1545
wds_ConnStatusTlv . . . 1546
wds_currNetworkInfo . . . 1546
wds_DataBearTechTlv . . . 1548
wds_DataULongLongTlv . . . 1549
wds_DataULongTlv . . . 1550
wds_DHCPLeaseOptTlv . . . 1550
wds_DHCPLeaseStateTlv . . . 1551
wds_DHCPOpt . . . 1551
wds_DHCPProfileIdTlv . . . 1552
wds_DHCPv4HWConfig . . . 1552
wds_DHCPv4Option . . . 1553
wds_DHCPv4OptionList . . . 1554
wds_DHCPv4ProfileId . . . 1554
wds_Domain . . . 1555
wds_DomainNameList . . . 1555
wds_DormStatTlv . . . 1556
wds_GPRSQoS . . . 1556
wds_IPv4AdTlv . . . 1557
wds_IPV6AddressInfo . . . 1558
wds_IPV6GWAddressInfo . . . 1558
wds_LastMdmCallEndRsnTlv . . . 1559
wds_PCSCFFQDNAddress . . . 1559
wds_PCSCFFQDNAddressList . . . 1560
wds_PCSCFIPv4ServerAddressList . . . 1560
wds_ProfileIdentifier . . . 1561
wds_profileInfo . . . 1561
wds_RXBytesOKTlv . . . 1562
wds_transferStatInd . . . 1562
wds_TrStatInd . . . 1563
wds_TXBytesOKTlv . . . 1564
wds_UMTSMinQoS . . . 1564
WdsByteTotals . . . 1566
WdsByteTotalsElmnts . . . 1567
WdsClientLeaseChange . . . 1568
WdsConnectionRate . . . 1568
WdsConnectionRateElmnts . . . 1569
WdsDHCPv4ClientLeaseInd . . . 1570
WdsDHCPv4Config . . . 1571
WdsDHCPv4HWConfig . . . 1571
wdsDhcpv4HwConfig . . . 1572

WdsDHCPv4Option 1572
wdsDhcpv4Option 1573
WdsDHCPv4OptionList 1574
wdsDhcpv4OptionList 1574
wdsDhcpv4ProfileId 1575
WdsDHCPv4ProfileId 1575
WDSGetLoopbackData 1576
WdsIpAddressInfoReq 1576
WdsPktStatisticsElmnts 1577
WdsPktStatisticsReq 1579
WdsPktStatisticsResp 1579
WdsProfileParam 1580
WdsRunTimeSettings 1581
wdsSetEventReportReq 1581
WDSSetLoopbackData 1583
WDSSWICurrentChannelRates 1584

Chapter 5

File Index

5.1 File List

Here is a list of all files with brief descriptions:

apdoxypages.c
Contains the module declaration for the Doxygen output. Also contains the content of the main page and related pages . . . 1585
common.h . . . 1585
dms.h . . . 1591
fms.h . . . 1649
loc.h . . . 1652
nas.h . . . 1674
pds.h . . . 1728
qaCbkCatEventReportInd.h . . . 1748
qaCbkSwiOmaDmEventReportInd.h . . . 1750
qaGobiApiAudio.h
Audio Service API function prototypes . . . 1751
qaGobiApiCat.h
Card Application Toolkit API function headers . . . 1754
qaGobiApiCbk.h
Callback Service API function prototypes . . . 1756
qaGobiApiDcs.h
Device Connectivity Service API function prototypes . . . 1843
qaGobiApiDms.h
Device Management Service API function prototypes . . . 1852
qaGobiApiFms.h
Firmware Management Service API function prototypes . . . 1892
qaGobiApiIms.h
IMS Service API function prototypes . . . 1912
qaGobiApiImsa.h
IMSA Service API function prototypes . . . 1919
qaGobiApiLoc.h
Location API function prototypes . . . 1922
qaGobiApiNas.h
Network Access Service API function prototypes . . . 1929
qaGobiApiOmadm.h
Open Mobile Alliance Device Management Service API function prototypes . . . 1980
qaGobiApiPds.h
Position Determination Service API function prototypes . . . 1983
qaGobiApiQos.h
Quality of Service API function prototypes . . . 1998

qaGobiApiRms.h
Remote Management Service API function prototypes . . . 2005
qaGobiApiSar.h
Specific Absorption Rate API function prototypes . . . 2006
qaGobiApiSms.h
Short Message Service API function prototypes . . . 2009
qaGobiApiSwi.h
SWI API function prototypes . . . 2031
qaGobiApiSwiAudio.h
M2M Audio Service API function prototypes . . . 2032
qaGobiApiSwiAvms.h
SWI Open Mobile Alliance Device Management Service API function prototypes SWI AVMS QMI Service revision 1.14 . . . 2038
qaGobiApiSwiDms.h
SWI DMS API function prototypes . . . 2052
qaGobiApiSwiOmadms.h
SWI Open Mobile Alliance Device Management Service API function prototypes SWI OMA-DM QMI Service revision 1.6 . . . 2054
qaGobiApiTableBandClasses.h
Network Access Service API Band Classes table . . . 2065
qaGobiApiTableCallControlReturnReasons.h
Call Control Return Reasons table . . . 2068
qaGobiApiTableCallEndReasons.h
Wireless Data Service Call End Reasons . . . 2068
qaGobiApiTableCarrierCodes.h
Carrier Codes table . . . 2085
qaGobiApiTableCodingScheme.h
Data Coding Scheme . . . 2087
qaGobiApiTableGpsCapabilityCodes.h
Position Determination Service API GPS Capability Codes . . . 2089
qaGobiApiTablePowerModes.h
Device Management Service API Power Modes table . . . 2090
qaGobiApiTableRadioInterfaces.h
Network Access Service API Radio Interfaces table . . . 2091
qaGobiApiTableRegionCodes.h
Region Codes table . . . 2091
qaGobiApiTableServiceOptions.h
Voice Service Options . . . 2092
qaGobiApiTableSupServiceInfoClasses.h
Voice Supplementary Service Information Classes . . . 2094
qaGobiApiTableSwiAudio.h
Swi Audio related tables . . . 2094
qaGobiApiTableSwiOMADMSessionStatus.h
Session Status table . . . 2095
qaGobiApiTableSwiOMADMUpdateCompleteStatus.h
Update Complete Status table . . . 2096
qaGobiApiTableVoiceCallEndReasons.h
Voice Service Call and supplementary services end reasons . . . 2097
qaGobiApiTmd.h
Thermal Mitigation Device API function prototypes . . . 2104
qaGobiApiUim.h
Uim Service API function prototypes . . . 2106
qaGobiApiVoice.h
Voice Service API function prototypes . . . 2118
qaGobiApiWds.h
Wireless Data Service API function prototypes . . . 2139
qaNasGetRFBandInfo.h . . . 2183
qaNasPerformNetworkScan.h . . . 2184

qmerrno.h 2185
qos.h 2192
rms.h 2202
sar.h 2204
sms.h 2205
SwiDataTypes.h
SWI data types 2227
swidms.h 2229
swiloc.h 2232
swioma.h 2234
SWIWWANCMAPI.h 2243
uim.h 2243
voice.h 2262
wds.h 2293

Chapter 6

Module Documentation

6.1 Device Connectivity Service (DCS)

Files

- file qaGobiApiDcs.h

  Device Connectivity Service API function prototypes.

6.1.1 Detailed Description

6.2 Wireless Data Service (WDS)

Files

- file qaGobiApiTableCallEndReasons.h

  Wireless Data Service Call End Reasons.
- file qaGobiApiTableCarrierCodes.h

  Carrier Codes table.
- file qaGobiApiTableRegionCodes.h

  Region Codes table.
- file qaGobiApiWds.h

  Wireless Data Service API function prototypes.

6.2.1 Detailed Description

6.3 Device Management Service (DMS)

Files

- file qaGobiApiTablePowerModes.h

  Device Management Service API Power Modes table.
- file qaGobiApiDms.h

  Device Management Service API function prototypes.

6.3.1 Detailed Description

6.4 Network Access Service (NAS)

Files

- file qaGobiApiTableRadioInterfaces.h

  Network Access Service API Radio Interfaces table.
- file qaGobiApiTableBandClasses.h

  Network Access Service API Band Classes table.
- file qaGobiApiNas.h

  Network Access Service API function prototypes.

6.4.1 Detailed Description

6.5 CallBacK registration (CBK)

Files

- file qaGobiApiCbk.h

  Callback Service API function prototypes.

6.5.1 Detailed Description

6.6 Short Message Service (SMS)

Files

- file qaGobiApiSms.h

  Short Message Service API function prototypes.

6.6.1 Detailed Description

6.7 Position Determination Service (PDS)

Files

- file qaGobiApiTableGpsCapabilityCodes.h

  Position Determination Service API GPS Capability Codes.
- file qaGobiApiPds.h

  Position Determination Service API function prototypes.

6.7.1 Detailed Description

6.8 Card Application Toolkit (CAT)

Files

- file qaGobiApiCat.h

  Card Application Toolkit API function headers.

6.8.1 Detailed Description

6.9 Remote Management Service (RMS)

Files

- file qaGobiApiRms.h

  Remote Management Service API function prototypes.

6.9.1 Detailed Description

6.10 Firmware Management Service (FMS)

Files

- file qaGobiApiFms.h

  Firmware Management Service API function prototypes.

6.10.1 Detailed Description

6.11 Open Mobile Alliance Service (OMA)

Files

- file qaGobiApiOmadm.h

  Open Mobile Alliance Device Management Service API function prototypes.

6.11.1 Detailed Description

6.12 Specific Absorption Rate (SAR)

Files

- file qaGobiApiSar.h

  Specific Absorption Rate API function prototypes.

6.12.1 Detailed Description

6.13 SWI Open Mobile Alliance Service (SWIOMA)

Files

- file qaGobiApiTableSwiOMADMUpdateCompleteStatus.h

  Update Complete Status table.
- file qaGobiApiTableSwiOMADMSessionStatus.h

  Session Status table.
- file qaGobiApiSwiOmadms.h

  SWI Open Mobile Alliance Device Management Service API function prototypes SWI OMA-DM QMI Service revision 1.6.

6.13.1 Detailed Description

6.14 Voice Service (VOICE)

Files

- file qaGobiApiTableServiceOptions.h

  Voice Service Options.
- file qaGobiApiTableVoiceCallEndReasons.h

  Voice Service Call and supplementary services end reasons.
- file qaGobiApiTableCodingScheme.h

  Data Coding Scheme.
- file qaGobiApiTableCallControlReturnReasons.h

  Call Control Return Reasons table.
- file qaGobiApiTableSupServiceInfoClasses.h

  Voice Supplementary Service Information Classes.
- file qaGobiApiVoice.h

  Voice Service API function prototypes.

6.14.1 Detailed Description

6.15 Non-service specific APIs (SWI)

Files

- file qaGobiApiSwi.h

  SWI API function prototypes.

6.15.1 Detailed Description

6.16 User Identity Module Service (UIM)

Files

- file qaGobiApiUim.h

  Uim Service API function prototypes.

6.16.1 Detailed Description

6.17 Audio Service (AUDIO)

Files

- file qaGobiApiAudio.h

  Audio Service API function prototypes.

6.17.1 Detailed Description

6.18 Quality of Service (QOS)

Files

- file qaGobiApiQos.h

  Quality of Service API function prototypes.

6.18.1 Detailed Description

6.19 IMS Service (IMS)

Files

- file qaGobiApiIms.h

  IMS Service API function prototypes.
- file qaGobiApiImsa.h

  IMSA Service API function prototypes.

6.19.1 Detailed Description

6.20 SWI Audio Service(SWIAUDIO)

Files

- file qaGobiApiTableSwiAudio.h

  Swi Audio related tables.
- file qaGobiApiSwiAudio.h

  M2M Audio Service API function prototypes.

6.20.1 Detailed Description

6.21 Location Service(LOC)

Files

- file qaGobiApiLoc.h

  Location API function prototypes.

6.21.1 Detailed Description

6.22 Thermal Mitigation Device(TMD)

Files

- file qaGobiApiTmd.h

  Thermal Mitigation Device API function prototypes.

6.22.1 Detailed Description

6.23 AVMS (SWIAVMS)

Files

- file qaGobiApiSwiAvms.h

  SWI Open Mobile Alliance Device Management Service API function prototypes SWI AVMS QMI Service revision 1.14.

6.23.1 Detailed Description

6.24 SWIDMS

Files

- file qaGobiApiSwiDms.h

  SWI DMS API function prototypes.

6.24.1 Detailed Description

Chapter 7

Namespace Documentation

7.1 Tables Namespace Reference

7.1.1 Detailed Description

Tables referenced in the API function headers:

- Table 1 - Call End Reason Codes The reason a call (either in process or connected) was ended. qaGobiApiTableCallEndReasons.h
- Table 2 - Carrier codes List of carrier identification codes. qaGobiApiTableCarrierCodes.h
- Table 3 - Region codes List of region identification codes. qaGobiApiTableRegionCodes.h
- Table 4 - GPS capability codes List of GPS capability codes. qaGobiApiTableGpsCapabilityCodes.h
- Table 5 - Radio Interfaces List of radio interface technologies. qaGobiApiTableRadioInterfaces.h
- Table 6 - Band classes List of band classes. qaGobiApiTableBandClasses.h
- Table 7 - Power modes List of operating modes. qaGobiApiTablePowerModes.h
- Table 8 - Service Options List of Service Options. qaGobiApiTableServiceOptions.h
- Table 9 - Voice Call End Reason List of Voice Call End Reason. qaGobiApiTableVoiceCallEndReasons.h
- Table 10 - Data Coding Scheme List of Data Coding Scheme. qaGobiApiTableCodingScheme.h
- Table 11 - Call Control Return Reasons List of Voice Call Control Return Reasons. qaGobiApiTableCallControlReturnReasons.h
- Table 12 - Supplementary Service Information Classes List of Voice Supplementary Service Information Classes. qaGobiApiTableSupServiceInfoClasses.h
- Table 13 - Audio Calibration Data Base(ACDB) Device List of ACDB devices. qaGobiApiTableSwiAudio.h
- Table 14 - PIFACE List of physical interfaces. qaGobiApiTableSwiAudio.h

Chapter 8

Data Structure Documentation

8.1 _getIndicationRegResp Struct Reference

Data Fields

- BYTE * pRegTransLayerInfoEvt
- BYTE * pRegTransNWRegInfoEvt
- BYTE * pRegCallStatInfoEvt

8.1.1 Detailed Description

This structure contains Get Indication Register Response parameters

Parameters

pRegTrans-LayerInfoEvt	- • Optional 1 BYTE parameter indicating registration status of transport layer information events • Values: – 0x00 - Disabled – 0x01 - Enabled • function SLQSGetIndicationRegister() returns a default value 0xFF if this parameter is allocated memory in the structure and no response is received from the device.
pRegTransNW-RegInfoEvt	- • Optional 1 BYTEparameter indicating registration status of transport network registration information events • Values: – 0x00 - Disabled – 0x01 - Enabled • function SLQSGetIndicationRegister() returns a default value 0xFF if this parameter is allocated memory in the structure and no response is received from the device.
pRegCallStat-InfoEvt	- • Optional 1 BYTE parameter indicating registration status of call status information events • Values: – 0x00 - Disabled – 0x01 - Enabled • function SLQSGetIndicationRegister() returns a default value 0xFF if this parameter is allocated memory in the structure and no response is received from the device.

8.1.2 Field Documentation

8.1.2.1 BYTE* _getIndicationRegResp::pRegCallStatInfoEvt

8.1.2.2 BYTE* _getIndicationRegResp::pRegTransLayerInfoEvt

8.1.2.3 BYTE* _getIndicationRegResp::pRegTransNWRegInfoEvt

8.2 _GetProfileSettingIn Struct Reference

Data Fields

- BYTE ProfileType
- BYTE ProfileID

8.2.1 Detailed Description

This structure contains the input parameters for SLQSGetProfileSettings

Parameters

ProfileType	• Identifies the technology type of the profile – 0x00 - 3GPP – 0x01 - 3GPP2
ProfileID	• index identifying the profile

8.2.2 Field Documentation

8.2.2.1 BYTE _GetProfileSettingIn::ProfileID

8.2.2.2 BYTE _GetProfileSettingIn::ProfileType

8.3 _GetProfileSettingOut Struct Reference

Data Fields

- QmiProfileInfo curProfile
- WORD * pExtErrCode

8.3.1 Detailed Description

This structure contains the profile settings retrieved by the API SLQSGetProfileSettings

Parameters

curProfile	• Structure containing details of the profile • See QmiProfileInfo for more details

pExtErrCode	• pointer to a 2 byte extended error code • Error code will only will be present if error code eQCWWAN_ERR_QMI_EXTENDED_INTERNAL is returned by device. • See qm_wds_ds_profile_extended_err_codes enum in qmerrno.h for received error description.

8.3.2 Field Documentation

8.3.2.1 QmiProfileInfo _GetProfileSettingOut::curProfile

8.3.2.2 WORD* _GetProfileSettingOut::pExtErrCode

8.4 _getResetInfoNotification Struct Reference

Data Fields

- BYTE type
- BYTE source

8.4.1 Detailed Description

Contains the parameters passed for SLQSSetSwiGetResetInfoCallback by the device.

Parameters

type	• type of reset or power down, possible values listed below: – 0 - unknown – 1 - warm – 2 - hard – 3 - crash – 4 - power down
source	• entity which initiated the reset or power down, possible values listed below: – 0 - unknown – 1 - user requested – 2 - hardware switch – 3 - temperature critical – 4 - voltage critical – 5 - configuration update – 6 - LWM2M – 7 - OMA-DM – 8 - FOTA

Note

None

8.4.2 Field Documentation

8.4.2.1 BYTE _getResetInfoNotification::source

8.4.2.2 BYTE _getResetInfoNotification::type

8.5 _getTransLayerInfoResp Struct Reference

Data Fields

- BYTE * pRegInd
- transLayerInfo * pTransLayerInfo

8.5.1 Detailed Description

This structure contains Get Transport Layer Info Response parameters

Parameters

pRegInd	- • Optional parameter indicating if transport layer is registered • Values: – 0x00 - Transport layer is not registered – 0x01 - Transport layer is registered • function SLQSGetTransLayerInfo() returns a default value 0xFF if no response is received from the device.
pTransLayerInfo	• Pointer to structure of transLayerInfo. – Optional parameter – See transLayerInfo for more information • function SLQSGetTransLayerInfo() returns a default value 0xFF for parameter values if no response is received from the device.

8.5.2 Field Documentation

8.5.2.1 BYTE* _getTransLayerInfoResp::pRegInd

8.5.2.2 transLayerInfo* _getTransLayerInfoResp::pTransLayerInfo

8.6 _getTransNWRegInfoResp Struct Reference

Data Fields

- BYTE * pRegStatus

8.6.1 Detailed Description

This structure contains transport network registration info parameter

Parameters

pRegStatus	- • Optional 1 BYTE parameter indicating transport layer network registration status • Values: – 0x00 - No service – 0x01 - In progress – 0x02 - Failed – 0x03 - Limited Service – 0x04 - Full Service • function SLQSGetTransNWRegInfo() returns a default value 0xFF if no response is received from the device.

8.6.2 Field Documentation

8.6.2.1 BYTE* _getTransNWRegInfoResp::pRegStatus

8.7 _MitigationDevInfo Struct Reference

Data Fields

- BYTE deviceIdLen
- CHAR deviceID [255]

8.7.1 Detailed Description

This structure contains mitigation Level Indication request parameters

Parameters

deviceIdLen	• Number of sets of the following elements – deviceID
deviceID	• Mitigation device ID

8.7.2 Field Documentation

8.7.2.1 CHAR _MitigationDevInfo::deviceID[255]

8.7.2.2 BYTE _MitigationDevInfo::deviceIdLen

8.8 _modemTempNotification Struct Reference

Data Fields

- BYTE ModemTempState
- WORD ModemTemperature

8.8.1 Detailed Description

Contains the parameters passed for SLQSSetModemTempCallback by the device.

Parameters

ModemTemp-State	• provides the temperature state of the modem • Values: – 0 - unknown – 1 - normal – 2 - high(warning) – 3 - high(critical) – 4 - low(critical)
Modem-Temperature	• provides the temperature of the modem

Note

None

8.8.2 Field Documentation

8.8.2.1 WORD _modemTempNotification::ModemTemperature

8.8.2.2 BYTE _modemTempNotification::ModemTempState

8.9 _packetSrvStatus Struct Reference

Data Fields

- qaQmiInterfaceInfo * pQmiInterfaceInfo
- BYTE connStatus
- BYTE reconfigReqd
- WORD sessionEndReason
- WORD verboseSessnEndReasonType
- WORD verboseSessnEndReason
- BYTE ipFamily
- WORD techName
- BYTE bearerID

8.9.1 Detailed Description

Contains the parameters passed for SLQSSetPacketSrvStatusCallback by the device.

Parameters

pQmiInterface-Info	• See qaQmiInterfaceInfo for more information

connStatus	• Current Link Status – 1 - Disconnected – 2 - Connected – 3 - Suspended – 4 - Authenticating
reconfigReqd	• Indicates if the network interface on the host needs to be reconfigured – 0 - No need to reconfigure – 1 - Reconfiguration required
sessionEndReason	• See qaGobiApiTableCallEndReasons.h for Call End Reason, 0xFFFF means invalid value
verboseSessnEndReasonType	• Call End Reason Type – 0 - Unspecified – 1 - Mobile IP – 2 - Internal – 3 - Call Manager defined – 6 - 3GPP Specification defined – 7 - PPP – 8 - EHRPD – 9 - IPv6 – 0xFFFF - invalid value
verboseSessnEndReason	• See qaGobiApiTableCallEndReasons.h for verbose Call End Reason. The values depend on verboseSessnEndReasonType parameter 0xFFFF means invalid value
ipFamily	• IP Family of the packet data connection – 4 - IPv4 – 6 - IPv6 – 0xFF - invalid value
techName	• Technology name of the packet data connection. – 32767 - CDMA – 32764 - UMTS – 30592 - EPC – 30590 - EMBMS – 30584 - Modem Link Local – 0xFFFF - invalid value EPC is a logical interface to support LTE/eHRPD handoff. Modem Link is an interface for transferring data between entities on the AP and modem.
bearerID	• Bearer ID (3GPP) or RLP ID (3GPP2) of the packet data connection 0xFF means invalid value

Note

Any parameter not returned by the device is returned as its maximum unsigned value by the callback.

8.9.2 Field Documentation

8.9.2.1 BYTE _packetSrvStatus::bearerID

8.9.2.2 BYTE _packetSrvStatus::connStatus

8.9.2.3 BYTE _packetSrvStatus::ipFamily

8.9.2.4 qaQmiInterfaceInfo* _packetSrvStatus::pQmiInterfaceInfo

8.9.2.5 BYTE _packetSrvStatus::reconfigReqd

8.9.2.6 WORD _packetSrvStatus::sessionEndReason

8.9.2.7 WORD _packetSrvStatus::techName

8.9.2.8 WORD _packetSrvStatus::verboseSessnEndReason

8.9.2.9 WORD _packetSrvStatus::verboseSessnEndReasonType

8.10 _qaQmi3GPP2BroadcastCfgInfo Struct Reference

Data Fields

- BYTE activated_ind
- WORD num_instances
- struct CDMABroadcastConfig CDMABroadcastConfig [0x05]

8.10.1 Detailed Description

This structure contains the 3GPP2 Broadcast Configuration Information parameters

Parameters

activated_ind	• Broadcast SMS – 0x00 - Deactivated – 0x01 - Activated
num_instances	• Number of sets (N) of parameters Following each set describes one entry in the broadcast configuration table. – serviceCategory – language – selected
broadcastConfig	• A CDMABroadcastConfig structure array. • Further defined by the structure CDMABroadcastConfig

8.10.2 Field Documentation

8.10.2.1 BYTE _qaQmi3GPP2BroadcastCfgInfo::activated_ind

8.10.2.2 struct CDMABroadcastConfig _qaQmi3GPP2BroadcastCfgInfo::CDMABroadcastConfig[0x05]

8.10.2.3 WORD _qaQmi3GPP2BroadcastCfgInfo::num_instances

8.11 _qaQmi3GPPBroadcastCfgInfo Struct Reference

Data Fields

- BYTE activated_ind
- WORD num_instances
- struct BroadcastConfig broadcastConfig [0x05]

8.11.1 Detailed Description

This structure contains the 3GPP Broadcast Configuration Information parameters

Parameters

activated_ind	• Broadcast SMS – 0x00 - Deactivated – 0x01 - Activated
num_instances	• Number of sets (N) of parameters Following each set describes one entry in the broadcast configuration table. – fromServiceId – toServiceId – selected
broadcastConfig	• A BroadcastConfig structure array. • Further defined by the structure BroadcastConfig

8.11.2 Field Documentation

8.11.2.1 BYTE _qaQmi3GPPBroadcastCfgInfo::activated_ind

8.11.2.2 struct BroadcastConfig _qaQmi3GPPBroadcastCfgInfo::broadcastConfig[0x05]

8.11.2.3 WORD _qaQmi3GPPBroadcastCfgInfo::num_instances

8.12 _QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp Struct Reference

Data Fields

- BYTE bBinaryType
- BYTE bState

- BYTE bUserInputRequest
- WORD wUserInputTimeout
- ULONG ulPkgDownloadSize
- ULONG ulPkgDownloadComplete
- WORD wUpdateCompeteStatus
- BYTE bSerity
- WORD wVersionLength
- CHAR szVersion [128]
- WORD wNameLength
- CHAR szName [128]
- WORD wDescriptionLength
- CHAR szDescription [1024]
- BYTE TlvPresent

8.12.1 Detailed Description

Parameters

bBinaryType	: Type • 1 - Firmware. • 2 - User App. • 3 - Legato Framework.
bStat	: State • 0x01 - No binary update available. • 0x02 - Query binary Download. • 0x03 - Binary Downloading. • 0x04 - Binary downloaded. • 0x05 -Query Binary Update. • 0x06 - Binary updating. • 0x07 - Binary updated.
bUserInput-Request	Bit mask of available user inputs. • 0x00 - No user input required. Informational indication. • 0x01 - Accept. • 0x02 - Reject.
wUserInput-Timeout	Timeout for user input in minutes. A value of 0 means no time-out.
ulPkgDownload-Size	The size (in bytes) of the update package
ulPkgDownload-Complete	The number of bytes being downloaded. For downloading state, this value shall be $>$ 0 and incremented toward the pkg_dload_size. For other states, the value shall be 0 as it is meaningless.
wUpdate-CompeteStatus	Result code.This field should be looked at only when the AVMS session is complete.
bSerity	Serity. • 0x01 - Mandatory. • 0x02 - Optional.
wVersionLength	Length of FW Version string in bytes.
szVersion	FW Version string in ASCII.
wNameLength	Length Package Name string in bytes.
szName	Package Name in UCS2.
wDescription-Length	Length of description in bytes.

szDescription	Description of Update Package in USC2.
TlvPresent	Boolean indicating the presence of the TLV in the QMI response

8.12.2 Field Documentation

8.12.2.1 BYTE _QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp::bBinaryType

8.12.2.2 BYTE _QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp::bSerity

8.12.2.3 BYTE _QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp::bState

8.12.2.4 BYTE _QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp::bUserInputRequest

8.12.2.5 CHAR _QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp::szDescription[1024]

8.12.2.6 CHAR _QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp::szName[128]

8.12.2.7 CHAR _QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp::szVersion[128]

8.12.2.8 BYTE _QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp::TlvPresent

8.12.2.9 ULONG _QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp::ulPkgDownloadComplete

8.12.2.10 ULONG _QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp::ulPkgDownloadSize

8.12.2.11 WORD _QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp::wDescriptionLength

8.12.2.12 WORD _QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp::wNameLength

8.12.2.13 WORD _QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp::wUpdateCompeteStatus

8.12.2.14 WORD _QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp::wUserInputTimeout

8.12.2.15 WORD _QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp::wVersionLength

8.13 _QmiSwiAvmsEventReportConfigResp Struct Reference

Data Fields

- BYTE bState
- BYTE bUserInputRequest
- WORD wUserInputTimeout
- WORD wAlertMsgLength
- CHAR szAlertMsg [200]
- BYTE TlvPresent

8.13.1 Detailed Description

Parameters

bState	State. • 0x01 - AVMS Read Request. • 0x02 - AVMS Change Request. • 0x03 - AVMS Config Complete.
bUserInput-Request	Bit mask of available user inputs. • 0x00 - No user input required. Informational indication. • 0x01 - Accept. • 0x02 - Reject.
wUserInput-Timeout	Timeout for user input in seconds. A value of 0 means no time-out
wAlertMsg-Length	Length of Alert message string in bytes.
szAlertMsg	Alert message in UCS2.
TlvPresent	Boolean indicating the presence of the TLV in the QMI response

8.13.2 Field Documentation

8.13.2.1 BYTE _QmiSwiAvmsEventReportConfigResp::bState

8.13.2.2 BYTE _QmiSwiAvmsEventReportConfigResp::bUserInputRequest

8.13.2.3 CHAR _QmiSwiAvmsEventReportConfigResp::szAlertMsg[200]

8.13.2.4 BYTE _QmiSwiAvmsEventReportConfigResp::TlvPresent

8.13.2.5 WORD _QmiSwiAvmsEventReportConfigResp::wAlertMsgLength

8.13.2.6 WORD _QmiSwiAvmsEventReportConfigResp::wUserInputTimeout

8.14 _QmiSwiAvmsEventReportConnectionRequestResp Struct Reference

Data Fields

- BYTE bUserInputRequest
- WORD wUserInputTimeout
- BYTE TlvPresent

8.14.1 Detailed Description

Parameters

bUserInput-Request	Bit mask of available user inputs. • 0x00 - No user input required. Informational indication. • 0x01 - Accept. • 0x02 - Reject.
bUserInput-Request	Timeout for user input in minutes. A value of 0 means no time-out.
TlvPresent	Boolean indicating the presence of the TLV in the QMI response

8.14.2 Field Documentation

8.14.2.1 BYTE _QmiSwiAvmsEventReportConnectionRequestResp::bUserInputRequest

8.14.2.2 BYTE _QmiSwiAvmsEventReportConnectionRequestResp::TlvPresent

8.14.2.3 WORD _QmiSwiAvmsEventReportConnectionRequestResp::wUserInputTimeout

8.15 _QmiSwiAvmsEventReportDataSessionStatusResp Struct Reference

Data Fields

- BYTE bType
- WORD wErrorCode
- BYTE TlvPresent

8.15.1 Detailed Description

Parameters

bType	Notification type. • 0: Data session closed. • 1: Data session activated. • 2: Register made. -3: Data session error.
wErrorCode	LWM2M Session error code. • 0x0000: none
TlvPresent	Boolean indicating the presence of the TLV in the QMI response

8.15.2 Field Documentation

8.15.2.1 BYTE _QmiSwiAvmsEventReportDataSessionStatusResp::bType

8.15.2.2 BYTE _QmiSwiAvmsEventReportDataSessionStatusResp::TlvPresent

8.15.2.3 WORD _QmiSwiAvmsEventReportDataSessionStatusResp::wErrorCode

8.16 _QmiSwiAvmsEventReportHTTPStatusResp Struct Reference

Data Fields

- WORD wHTTPStatus
- BYTE TlvPresent

8.16.1 Detailed Description

Parameters

wHTTPStatus	See RFC 7231. • 100 - Continue • 101 - Switching Protocols • 200 - OK • 201 - Created • 202 - Accepted • 203 - Non-Authoritative Information • 204 - No Content • 205 - Reset Content • 206 - Partial Content • 300 - Multiple Choices • 301 - Moved Permanently • 302 - Found • 303 - See Other • 304 - Not Modified • 305 - Use Proxy • 307 - Temporary Redirect • 400 - Bad Request • 401 - Unauthorized • 402 - Payment Required • 403 - Forbidden • 404 - Not Found • 405 - Method Not Allowed • 406 - Not Acceptable • 407 - Proxy Authentication Required • 408 - Request Timeout • 409 - Conflict • 410 - Gone • 411 - Length Required • 412 - Precondition Failed • 413 - Payload Too Large • 414 - URI Too Long • 415 - Unsupported Media Type • 416 - Range Not Satisfiable • 417 - Expectation Failed • 426 - Upgrade Required • 500 - Internal Server Error • 501 - Not Implemented • 502 - Bad Gateway • 503 - Service Unavailable • 504 - Gateway Timeout • 505 - HTTP Version Not Supported
TlvPresent	Boolean indicating the presence of the TLV in the QMI response

8.16.2 Field Documentation

8.16.2.1 BYTE _QmiSwiAvmsEventReportHTTPStatusResp::TlvPresent

8.16.2.2 WORD _QmiSwiAvmsEventReportHTTPStatusResp::wHTTPStatus

8.17 _QmiSwiAvmsEventReportNotificationResp Struct Reference

Data Fields

- BYTE bNotification
- WORD wSessionStatus
- BYTE TlvPresent

8.17.1 Detailed Description

Parameters

bNotification	Notification. • 0x14 - Module starts sending data to server. • 0x15 - Authentication with the server. • 0x16 - session with the server is ended.
wSessionStatus	This field will set to the session status for notifications that occur at the end of a session, zero for all other notifications. • 0x0000: Successful: Session succeeded • 0x0001: Break: Session succeeded • 0x0002: Large Object Handled: Session succeeded • 0x0003: No status: Session succeeded • 0x0004: No more commands: Session succeeded • 0x0005: User cancel: Session cancelled • 0x0100-0x01FF: General errors • 0x0200-0x02FF: Syncml errors • 0x0300-0x03FF: Authentication errors • 0x0400-0x04FF: Protocol errors • 0x0500-0x05FF: Tree errors (DM Only) • 0x0600-0x06FF: Not applicable • 0x0700-0x07FF: Trigger errors • 0x0800-0x08FF: FUMO errors • 0x0900-0x09FF: Communication errors • 0x0A00-0x0AFF: Parsing errors • 0x0B00-0x0CFF: Not applicable • 0x7F00-0x7F12:Insignia errors • 0x7F13: Illegal text: Text received contains illegal characters • 0x7F14: Download failure: Failed to download FOTA image • 0x7F15: Empty session: Session ran successfully, but no information wasa updated • 0x7F16: Factory reset successful: Factory reset succeeded • 0x7F17: Factory reset fail: Factory reset failed
TlvPresent	Boolean indicating the presence of the TLV in the QMI response

8.17.2 Field Documentation

8.17.2.1 BYTE _QmiSwiAvmsEventReportNotificationResp::bNotification

8.17.2.2 BYTE _QmiSwiAvmsEventReportNotificationResp::TlvPresent

8.17.2.3 WORD _QmiSwiAvmsEventReportNotificationResp::wSessionStatus

8.18 _QmiSwiAvmsEventReportPackageIDResp Struct Reference

Data Fields

- BYTE bPackageID
- BYTE TlvPresent

8.18.1 Detailed Description

Parameters

bPackageID	Package ID of the application binary that this AVMS_EVENT_ID notification is for.
TlvPresent	Boolean indicating the presence of the TLV in the QMI response

8.18.2 Field Documentation

8.18.2.1 BYTE _QmiSwiAvmsEventReportPackageIDResp::bPackageID

8.18.2.2 BYTE _QmiSwiAvmsEventReportPackageIDResp::TlvPresent

8.19 _QmiSwiAvmsEventReportRegStatusResp Struct Reference

Data Fields

- BYTE bRegStatus
- BYTE TlvPresent

8.19.1 Detailed Description

Parameters

bRegStatus	LWM2M Registration status. • 0: Need Bootstrap. • 1: Bootstrap made. • 2: Register made. -3: Update made.
TlvPresent	Boolean indicating the presence of the TLV in the QMI response

8.19.2 Field Documentation

8.19.2.1 BYTE _QmiSwiAvmsEventReportRegStatusResp::bRegStatus

8.19.2.2 BYTE _QmiSwiAvmsEventReportRegStatusResp::TlvPresent

8.20 _QmiSwiAvmsEventReportSessionTypeResp Struct Reference

Data Fields

- BYTE bType
- BYTE TlvPresent

8.20.1 Detailed Description

Parameters

bType	Session Type. • 0: Bootstrap session. • 1. DM session
TlvPresent	Boolean indicating the presence of the TLV in the QMI response

8.20.2 Field Documentation

8.20.2.1 BYTE _QmiSwiAvmsEventReportSessionTypeResp::bType

8.20.2.2 BYTE _QmiSwiAvmsEventReportSessionTypeResp::TlvPresent

8.21 _QmiSwiAvmsEventReportWAMSParamChangeResp Struct Reference

Data Fields

- WORD wWamsChangeMask
- BYTE TlvPresent

8.21.1 Detailed Description

Parameters

wWamsChange-Mask	Mask of WAMS parameters changed. • By default set to 0xFF for all changes. • 0x01 - device_login • 0x02 - device_MD5_key • 0x04 - server_login • 0x08 - server_MD5_key • 0x10 - server_URL • 0x20 - Nonce • 0x40 - Application key
TlvPresent	Boolean indicating the presence of the TLV in the QMI response

8.21.2 Field Documentation

8.21.2.1 BYTE _QmiSwiAvmsEventReportWAMSParamChangeResp::TlvPresent

8.21.2.2 WORD _QmiSwiAvmsEventReportWAMSParamChangeResp::wWamsChangeMask

8.22 _QmiSwiAvmsSetSettingsAPNInfo Struct Reference

Data Fields

- BYTE bAPNLength
- CHAR szAPN [49]
- BYTE bUnameLength
- CHAR szUname [29]
- BYTE bPWDLength
- CHAR szPWD [29]

8.22.1 Field Documentation

8.22.1.1 BYTE _QmiSwiAvmsSetSettingsAPNInfo::bAPNLength

8.22.1.2 BYTE _QmiSwiAvmsSetSettingsAPNInfo::bPWDLength

8.22.1.3 BYTE _QmiSwiAvmsSetSettingsAPNInfo::bUnameLength

8.22.1.4 CHAR _QmiSwiAvmsSetSettingsAPNInfo::szAPN[49]

8.22.1.5 CHAR _QmiSwiAvmsSetSettingsAPNInfo::szPWD[29]

8.22.1.6 CHAR _QmiSwiAvmsSetSettingsAPNInfo::szUname[29]

8.23 _QmiSwiAvmsSetSettingsConnectionRetryTimers Struct Reference

Data Fields

- WORD Timers [8]

8.23.1 Field Documentation

8.23.1.1 WORD _QmiSwiAvmsSetSettingsConnectionRetryTimers::Timers[8]

8.24 _QmiSwiAvmsSetSettingsPeriodInfo Struct Reference

Data Fields

- ULONG ulMin
- ULONG ulMax

8.24.1 Field Documentation

8.24.1.1 ULONG _QmiSwiAvmsSetSettingsPeriodInfo::ulMax

8.24.1.2 ULONG _QmiSwiAvmsSetSettingsPeriodInfo::ulMin

8.25 _setIndicationRegReq Struct Reference

Data Fields

- BYTE * pRegTransLayerInfoEvt
- BYTE * pRegTransNWRegInfoEvt

- BYTE * pRegCallStatInfoEvt

8.25.1 Detailed Description

This structure contains Indication Register request parameters

Parameters

pRegTrans-LayerInfoEvt	- • Optional 1 BYTE parameter indicating registration status of transport layer information events • Values: – 0x00 - Disabled – 0x01 - Enabled – NULL - No change - specifying NULL indicates that the device will continue to use the existing setting (disable/enable) which has been previously set for the device
pRegTransNW-RegInfoEvt	- • Optional 1 BYTE parameter indicating registration status of transport network registration information events • Values: – 0x00 - Disabled – 0x01 - Enabled – NULL - No change - specifying NULL indicates that the device will continue to use the existing setting (disable/enable) which has been previously set for the device
pRegCallStat-InfoEvt	- • Optional 1 BYTE parameter indicating registration status of call status information events • Values: – 0x00 - Disabled – 0x01 - Enabled – NULL - No change - specifying NULL indicates that the device will continue to use the existing setting (disable/enable) which has been previously set for the device

8.25.2 Field Documentation

8.25.2.1 BYTE* _setIndicationRegReq::pRegCallStatInfoEvt

8.25.2.2 BYTE* _setIndicationRegReq::pRegTransLayerInfoEvt

8.25.2.3 BYTE* _setIndicationRegReq::pRegTransNWRegInfoEvt

8.26 _slqs3GPPConfigItem Struct Reference

Data Fields

- WORD * pLTEAttachProfile
- WORD * pProfileList
- BYTE * pDefaultPDNEnabled
- BYTE * p3gppRelease
- WORD LTEAttachProfileListLen
- WORD * pLTEAttachProfileList

8.26.1 Detailed Description

This structure contains the 3gpp Configuration Item information.

Parameters

pLTEAttach-Profile	• LTE Attach Profile – points to a single WORD Value indicating the attached LTE Profile – Optional parameter with possible values 1-16 (EM/MC73xx or earlier) – function SLQSGet3GPPConfigItem() returns a default value 255 if no LTE Attach Profile is configured • This setting is deprecated on MC/EM74xx
pProfileList	• Profile List – an array of 4 profile configurations – Each element points to a single WORD value indicating profile – Optional parameter with possible values * 1 - 16 (MC/EM73xx and before) * 1 - 24 (MC/EM74xx and onwards) – function SLQSGet3GPPConfigItem() returns a default value 255 if no 3gpp configuration is present
pDefaultPDN-Enabled	• Always Connect Default PDN – A single BYTE value indicating the status of Always connect default PDN * 0 - disabled * 1 - enabled – Optional parameter – function SLQSGet3GPPConfigItem() returns a default value 255 if no 3gpp configuration is present
p3gppRelease	• 3gpp release – A single BYTE value indicating the 3gpp release * 0 - Release 99 * 1 - Release 5 * 2 - Release 6 * 3 - Release 7 * 4 - Release 8 – In 9x30 and onwards * 5 - Release 9 * 6 - Release 10 * 7 - Release 11 – Optional parameter – function SLQSGet3GPPConfigItem() returns a default value 255 if no 3gpp configuration is present

pLTEAttach-ProfileList	• pointer to WORD array indicating LTE Attach Profile List – Optional parameter – possible values: 1-24 – This setting is only supported for MC/EM74xx onwards – The new equivalent option for "pLTEAttachProfile" on 74xx modems is "pLTEAttachProfile-List". Please provide attach profiles in order of decreasing priority in this list.
LTEAttach-ProfileListLen	• Number of element in pLTEAttachProfileList – valid range: 1-24 * This setting is only supported for MC/EM74xx onwards

8.26.2 Field Documentation

8.26.2.1 WORD _slqs3GPPConfigItem::LTEAttachProfileListLen

8.26.2.2 BYTE* _slqs3GPPConfigItem::p3gppRelease

8.26.2.3 BYTE* _slqs3GPPConfigItem::pDefaultPDNEnabled

8.26.2.4 WORD* _slqs3GPPConfigItem::pLTEAttachProfile

8.26.2.5 WORD* _slqs3GPPConfigItem::pLTEAttachProfileList

8.26.2.6 WORD* _slqs3GPPConfigItem::pProfileList

8.27 _SLQSAVMSSetSettingsReqPara Struct Reference

Data Fields

- BYTE * pAutoConnect
- BYTE * pAutoReboot
- BYTE * pFwPromptdownload
- BYTE * pFwPromptUpdate
- BYTE * pFwAutoSDM
- ULONG * pPollingTimer
- QmiSwiAvmsSetSettingsConnectionRetryTimers * pConnectionRetryTimers
- QmiSwiAvmsSetSettingsAPNInfo * pAPNInfo
- BYTE * pNotifStore
- QmiSwiAvmsSetSettingsPeriodInfo * pPeroidInfo

8.27.1 Detailed Description

Sets the AVMS settings requested (For AVC1 service).

Parameters

bAutoConnect[IN]	• Auto Connect to AirVantage server – 0x00 - FALSE – 0x01 - TRUE
bAutoReboot[IN]	• Automatic device reboot when the request is received from AirVantage server – 0x00 - FALSE – 0x01 - TRUE
bFwPromptdownload[IN]	• Start Firmware Download promptly/automatically – 0x00 - FALSE – 0x01 - TRUE
bFwPromptUpdate[IN]	• Start Firmware Download promptly/automatically – 0x00 - FALSE – 0x01 - TRUE
FwAutoSDM[Optional]	- OMA Automatic UI Alert Response • 0x00 - DISABLED • 0x01 - ENABLED ACCEPT • 0x02 - ENABLED REJECT
PollingTimer[Optional]	• 0-525600 (min) • 0:disabled
ConnectionRetryTimers[Optional]	• See QmiSwiAvmsSetSettingsConnectionRetryTimers for more information
APNInfo[Optional]	• See QmiSwiAvmsSetSettingsAPNInfo for more information
NotifStore[Optional]	• 0 : Disabled. • 1 : Enabeld.
PeroidInfo[Optional]	• See QmiSwiAvmsSetSettingsPeriodInfo for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

8.27.2 Field Documentation

8.27.2.1 QmiSwiAvmsSetSettingsAPNInfo* _SLQSAVMSSetSettingsReqPara::pAPNInfo

8.27.2.2 BYTE* _SLQSAVMSSetSettingsReqPara::pAutoConnect

8.27.2.3 BYTE* _SLQSAVMSSetSettingsReqPara::pAutoReboot

8.27.2.4 QmiSwiAvmsSetSettingsConnectionRetryTimers* _SLQSAVMSSetSettingsReqPara::pConnectionRetry-Timers

8.27.2.5 BYTE* _SLQSAVMSSetSettingsReqPara::pFwAutoSDM

8.27.2.6 BYTE* _SLQSAVMSSetSettingsReqPara::pFwPromptdownload

8.27.2.7 BYTE* _SLQSAVMSSetSettingsReqPara::pFwPromptUpdate

8.27.2.8 BYTE* _SLQSAVMSSetSettingsReqPara::pNotifStore

8.27.2.9 QmiSwiAvmsSetSettingsPeriodInfo* _SLQSAVMSSetSettingsReqPara::pPeroidInfo

8.27.2.10 ULONG* _SLQSAVMSSetSettingsReqPara::pPollingTimer

8.28 _SLQSAVMSSetSettingsReqPara_v2 Struct Reference

Data Fields

- BYTE * pAutoConnect
- BYTE * pFwPromptdownload
- BYTE * pFwPromptUpdate
- BYTE * pFwAutoSDM
- ULONG * pPollingTimer
- QmiSwiAvmsSetSettingsConnectionRetryTimers * pConnectionRetryTimers
- QmiSwiAvmsSetSettingsAPNInfo * pAPNInfo
- BYTE * pNotifStore
- QmiSwiAvmsSetSettingsPeriodInfo * pPeroidInfo
- BYTE * pAutoReboot

8.28.1 Detailed Description

Sets the AVMS settings requested (For AVC2 service).

Parameters

bAutoConnect[IN]	• Auto Connect to AirVantage server – 0x00 - FALSE – 0x01 - TRUE
bFwPromptdownload[IN]	• Start Firmware Download promptly/automatically – 0x00 - FALSE – 0x01 - TRUE

bFwPrompt-Update[IN]	• Start Firmware Download promptly/automatically – 0x00 - FALSE – 0x01 - TRUE
FwAutoSDM[-Optional]	- OMA Automatic UI Alert Response • 0x00 - DISABLED • 0x01 - ENABLED ACCEPT • 0x02 - ENABLED REJECT
PollingTimer[-Optional]	• 0-525600 (min) • 0:disabled
Connection-RetryTimers[-Optional]	• See QmiSwiAvmsSetSettingsConnectionRetryTimers for more information
APNInfo[-Optional]	• See QmiSwiAvmsSetSettingsAPNInfo for more information
NotifStore[-Optional]	• 0 : Disabled. • 1 : Enabeld.
PeroidInfo[-Optional]	• See QmiSwiAvmsSetSettingsPeriodInfo for more information
bAutoReboot[-Optional]	• Automatic device reboot when the request is received from AirVantage server – 0x00 - FALSE – 0x01 - TRUE

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Setting PromptFwDownload/PromptFwUpdate as TRUE implies AutoConnect to be also TRUE even if AutoConnect was set FALSE initially. Automatic firmware download/update selection trumps the connection setting flag.

8.28.2 Field Documentation

8.28.2.1 QmiSwiAvmsSetSettingsAPNInfo* _SLQSAVMSSetSettingsReqPara_v2::pAPNInfo

8.28.2.2 BYTE* _SLQSAVMSSetSettingsReqPara_v2::pAutoConnect

8.28.2.3 BYTE* _SLQSAVMSSetSettingsReqPara_v2::pAutoReboot

8.28.2.4 QmiSwiAvmsSetSettingsConnectionRetryTimers* _SLQSAVMSSetSettingsReqPara_v2::pConnectionRetryTimers

8.28.2.5 BYTE* _SLQSAVMSSetSettingsReqPara_v2::pFwAutoSDM

8.28.2.6 BYTE* _SLQSAVMSSetSettingsReqPara_v2::pFwPromptdownload

8.28.2.7 BYTE* _SLQSAVMSSetSettingsReqPara_v2::pFwPromptUpdate

8.28.2.8 BYTE* _SLQSAVMSSetSettingsReqPara_v2::pNotifStore

8.28.2.9 QmiSwiAvmsSetSettingsPeriodInfo* _SLQSAVMSSetSettingsReqPara_v2::pPeroidInfo

8.28.2.10 ULONG* _SLQSAVMSSetSettingsReqPara_v2::pPollingTimer

8.29 _SLQSAVMSSettings Struct Reference

Data Fields

- ULONG * pOMADMEnabled
- BYTE * pAutoConnect
- BYTE * pAutoReboot
- BYTE * pFwPromptdownload
- BYTE * pFwPromptUpdate
- BYTE * pFwAutoSDM
- ULONG * pPollingTimer
- SLQSAVMSSettingsConnectionRetryTimers * pConnectionRetryTimers
- SLQSAVMSSettingsAPNInfo * pAPNInfo
- BYTE * pNotificationStore
- SLQSAVMSSettingsPeriodsInfo * pPeroidsInfo

8.29.1 Field Documentation

8.29.1.1 SLQSAVMSSettingsAPNInfo* _SLQSAVMSSettings::pAPNInfo

8.29.1.2 BYTE* _SLQSAVMSSettings::pAutoConnect

8.29.1.3 BYTE* _SLQSAVMSSettings::pAutoReboot

8.29.1.4 SLQSAVMSSettingsConnectionRetryTimers* _SLQSAVMSSettings::pConnectionRetryTimers

8.29.1.5 BYTE* _SLQSAVMSSettings::pFwAutoSDM

8.29.1.6 BYTE* _SLQSAVMSSettings::pFwPromptdownload

8.29.1.7 BYTE* _SLQSAVMSSettings::pFwPromptUpdate

8.29.1.8 BYTE* _SLQSAVMSSettings::pNotificationStore

8.29.1.9 ULONG* _SLQSAVMSSettings::pOMADMEnabled

8.29.1.10 SLQSAVMSSettingsPeriodsInfo* _SLQSAVMSSettings::pPeroidsInfo

8.29.1.11 ULONG* _SLQSAVMSSettings::pPollingTimer

8.30 _SLQSAVMSSettings_v2 Struct Reference

Data Fields

- ULONG * pOMADMEnabled
- BYTE * pAutoConnect
- BYTE * pFwPromptdownload
- BYTE * pFwPromptUpdate
- BYTE * pFwAutoSDM
- ULONG * pPollingTimer
- SLQSAVMSSettingsConnectionRetryTimers * pConnectionRetryTimers
- SLQSAVMSSettingsAPNInfo * pAPNInfo
- BYTE * pNotificationStore
- SLQSAVMSSettingsPeriodsInfo * pPeroidsInfo
- BYTE * pAutoReboot

8.30.1 Field Documentation

8.30.1.1 SLQSAVMSSettingsAPNInfo* _SLQSAVMSSettings_v2::pAPNInfo

8.30.1.2 BYTE* _SLQSAVMSSettings_v2::pAutoConnect

8.30.1.3 BYTE* _SLQSAVMSSettings_v2::pAutoReboot

8.30.1.4 SLQSAVMSSettingsConnectionRetryTimers* _SLQSAVMSSettings_v2::pConnectionRetryTimers

8.30.1.5 BYTE* _SLQSAVMSSettings_v2::pFwAutoSDM

8.30.1.6 BYTE* _SLQSAVMSSettings_v2::pFwPromptdownload

8.30.1.7 BYTE* _SLQSAVMSSettings_v2::pFwPromptUpdate

8.30.1.8 BYTE* _SLQSAVMSSettings_v2::pNotificationStore

8.30.1.9 ULONG* _SLQSAVMSSettings_v2::pOMADMEnabled

8.30.1.10 SLQSAVMSSettingsPeriodsInfo* _SLQSAVMSSettings_v2::pPeroidsInfo

8.30.1.11 ULONG* _SLQSAVMSSettings_v2::pPollingTimer

8.31 _SLQSAVMSSettingsAPNInfo Struct Reference

Data Fields

- BYTE bAPNLength
- CHAR * pAPN
- BYTE bUnameLength
- CHAR * pUname
- BYTE bPWDLength
- CHAR * pPWD

8.31.1 Field Documentation

8.31.1.1 BYTE _SLQSAVMSSettingsAPNInfo::bAPNLength

8.31.1.2 BYTE _SLQSAVMSSettingsAPNInfo::bPWDLength

8.31.1.3 BYTE _SLQSAVMSSettingsAPNInfo::bUnameLength

8.31.1.4 CHAR* _SLQSAVMSSettingsAPNInfo::pAPN

8.31.1.5 CHAR* _SLQSAVMSSettingsAPNInfo::pPWD

8.31.1.6 CHAR* _SLQSAVMSSettingsAPNInfo::pUname

8.32 _SLQSAVMSSettingsConnectionRetryTimers Struct Reference

Data Fields

- WORD Timers [8]

8.32.1 Field Documentation

8.32.1.1 WORD _SLQSAVMSSettingsConnectionRetryTimers::Timers[8]

8.33 _SLQSAVMSSettingsPeriodsInfo Struct Reference

Data Fields

- ULONG min
- ULONG max

8.33.1 Field Documentation

8.33.1.1 ULONG _SLQSAVMSSettingsPeriodsInfo::max

8.33.1.2 ULONG _SLQSAVMSSettingsPeriodsInfo::min

8.34 _SlqsNas3GppNetworkRAT_ Struct Reference

Data Fields

- WORD MCC
- WORD MNC
- BYTE RAT

8.34.1 Detailed Description

Contain the 3GPP radio access technology information.

Parameters

MCC	• Mobile Country Code
MNC	• Mobile Network Code
RAT	• Radio Access Technology – 0x04 - GERAN – 0x05 - UMTS – 0x08 - LTE – 0x09 - TD-SCDMA

8.34.2 Field Documentation

8.34.2.1 WORD _SlqsNas3GppNetworkRAT_::MCC

8.34.2.2 WORD _SlqsNas3GppNetworkRAT_::MNC

8.34.2.3 BYTE _SlqsNas3GppNetworkRAT_::RAT

8.35 _slqsNetworkScanInfo Struct Reference

Data Fields

- BYTE * pNetworkInfoInstances
- struct SlqsNas3GppNetworkInfo * pNetworkInfo
- BYTE * pRATInstances
- SlqsNas3GppNetworkRAT * pRATInfo
- BYTE * pPCSDigitInstances
- struct SlqsNasPcsDigit * pPCSDigitInfo
- ULONG * pScanResult

8.35.1 Detailed Description

Contain the network scan information.

Parameters

pNetworkInfoInstances[IN/OUT]	• Upon input, maximum number of elements that the network info instance array can contain. • Upon successful output, the actual number of elements in the network info instance array.
pNetworkInfo[OUT]	• Network info instance array – See SlqsNas3GppNetworkInfo for more information
pRATInstances[IN/OUT]	• Upon input, maximum number of elements that the RAT info instance array can contain. • Upon successful output, the actual number of elements in the RAT info instance array.

pRATInfo[OUT]	• RAT info instance array – See SlqsNas3GppNetworkRAT for more information
pPCSDigitInstances[IN/OUT]	• Upon input, maximum number of elements that the PCS Digit info instance array can contain. • Upon successful output, the actual number of elements in the PCS Digit info instance array.
pPCSDigitInfo[OUT]	• PCS Digit info instance array – See SlqsNasPcsDigit for more information
pScanResult[OUT]	• status of network scan • 0x00 - scan successful • 0x01 - scan was aborted • 0x02 - scan did not complete due to a radio link failure recovery in progress

8.35.2 Field Documentation

8.35.2.1 struct SlqsNas3GppNetworkInfo* _slqsNetworkScanInfo::pNetworkInfo

8.35.2.2 BYTE* _slqsNetworkScanInfo::pNetworkInfoInstances

8.35.2.3 struct SlqsNasPcsDigit* _slqsNetworkScanInfo::pPCSDigitInfo

8.35.2.4 BYTE* _slqsNetworkScanInfo::pPCSDigitInstances

8.35.2.5 SlqsNas3GppNetworkRAT* _slqsNetworkScanInfo::pRATInfo

8.35.2.6 BYTE* _slqsNetworkScanInfo::pRATInstances

8.35.2.7 ULONG* _slqsNetworkScanInfo::pScanResult

8.36 _SLQSOMADMSessionInfo Struct Reference

Data Fields

- BYTE * pStatus
- WORD * pUpdateCompleteStatus
- BYTE * pSeverity
- WORD * pSourceLength
- BYTE * pSource
- WORD * pPkgNameLength
- BYTE * pPkgName
- WORD * pPkgDescLength
- BYTE * pPkgDescription
- WORD * pDateLength
- BYTE * pDate
- WORD * pTimeLength
- BYTE * pTime

- BYTE * pSessionType
- BYTE * pSessionState
- WORD * pRetryCount

8.36.1 Detailed Description

Structure containing the OMA DM Session Info returned by the device. Also used as input parameter to specify the size of variable parameters. (ref. notes)

Parameters

pStatus	• 1 Byte parameter indicating status(optional) – 0x01 - No Firmware available – 0x02 - Query Firmware Download – 0x03 - Firmware Downloading – 0x04 - Firmware Downloaded – 0x05 - Query Firmware Update – 0x06 - Firmware Updating – 0x07 - Firmware Updated
pUpdate-CompleteStatus	• 2 byte parameter indicating Update Complete Status(optional) – See qaGobiApiTableSwiOMADMUpdateCompleteStatus.h Update Complete Status
pSeverity	• 1 byte parameter indicating severity(optional) – 0x01 - Mandatory – 0x02 - Optional
pSourceLength	• 2 byte parameter indicating Length of Vendor Name String in Bytes.(optional)
pSource	• Variable length parameter indicating Vendor Name in ASCII(optional)
pPkgName-Length	• 2 byte parameter indicating Length of Package Name String in Bytes.(optional)
pPkgName	• Variable length parameter indicating Package Name in ASCII(optional)
pPkgDesc-Length	• 2 byte parameter indicating Length of Package Description String in Bytes.(optional)
pPkgDescription	• Variable length parameter indicating Package Description in ASCII(optional)
pDateLength	• 2 byte parameter indicating Length of Package Description String in Bytes.(optional)
pDate	• Variable length parameter indicating Package Description in ASCII

pTimeLength	• 2 byte parameter indicating Length of Time String in Bytes.(optional)
pTime	• Variable length parameter indicating Time String in ASCII(optional)
pSessionType	• 1 byte parameter reflects the last session started for Sprint(optional) – 0x00 - No session since boot – 0x01 - Sprint CI-DC Session – 0x02 - Sprint CI-PRL Session – 0x03 - Sprint CI-FUMO Session – 0x04 - Sprint HFA-DC Session – 0x05 - Sprint HFA-PRL Session – 0x06 - Sprint HFA-FUMO Session – 0x07 - Sprint NI Session
pSessionState	• 1 byte parameter indicating session state(optional) – 0x01 - idle – 0x02 - active – 0x03 - pending
pRetryCount	• 1 byte parameter indicating retries left count(optional) – valid values 0 to 6

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

As input parameter the members pSourceLength, pPkgNameLength pPkgDescLength, pDateLength, pTimeLength have to be specified. These should contain the initialized size of pSource, pPkgName, pPkgDescription, pDate, pTime respectively.

8.36.2 Field Documentation

8.36.2.1 BYTE* _SLQSOMADMSessionInfo::pDate

8.36.2.2 WORD* _SLQSOMADMSessionInfo::pDateLength

8.36.2.3 WORD* _SLQSOMADMSessionInfo::pPkgDescLength

8.36.2.4 BYTE* _SLQSOMADMSessionInfo::pPkgDescription

8.36.2.5 BYTE* _SLQSOMADMSessionInfo::pPkgName

8.36.2.6 WORD* _SLQSOMADMSessionInfo::pPkgNameLength

8.36.2.7 WORD* _SLQSOMADMSessionInfo::pRetryCount

8.36.2.8 BYTE* _SLQSOMADMSessionInfo::pSessionState

8.36.2.9 BYTE* _SLQSOMADMSessionInfo::pSessionType

8.36.2.10 BYTE* _SLQSOMADMSessionInfo::pSeverity

8.36.2.11 BYTE* _SLQSOMADMSessionInfo::pSource

8.36.2.12 WORD* _SLQSOMADMSessionInfo::pSourceLength

8.36.2.13 BYTE* _SLQSOMADMSessionInfo::pStatus

8.36.2.14 BYTE* _SLQSOMADMSessionInfo::pTime

8.36.2.15 WORD* _SLQSOMADMSessionInfo::pTimeLength

8.36.2.16 WORD* _SLQSOMADMSessionInfo::pUpdateCompleteStatus

8.37 _SLQSOMADMSettings Struct Reference

Data Fields

- ULONG * pOMADMEnabled
- BYTE * pFOTAdownload
- BYTE * pFOTAUpdate
- BYTE * pAutosdm
- BYTE * pFwAutoCheck

8.37.1 Detailed Description

Structure containing the OMA DM settings retrieved from the device

Parameters

pOMADM-Enabled[OUT]	• 4 byte parameter indicating OMADM service enabled – 0x00000001 - Client-initiated device configuration – 0x00000002 - Network-initiated device configuration – 0x00000010 - Client-initiated FUMO – 0x00000020 - Network-initiated FUMO • function SLQSOMADMGetSettings2() returns a default value 0xFFFFFFFF in case this parameter is not returned by the modem.

pFOTAdownload[OUT]	• 1 Byte parameter indicating support for FOTA Automatic download – 0x00 - Host permission required before downloading – 0x01 - Automatically start downloading, no host permission required – 0x02 - Automatically start downloading, while not roaming – 0x03 - Automatically reject download – 0x04 - Automatically reject download with “Enterprise Reject Policy” • function SLQSOMADMGetSettings2() returns a default value 0xFF in case this parameter is not returned by the modem.
pFOTAUpdate[OUT]	• 1 byte parameter indicating FOTA Automatic update – 0x00 - User permission required before updating firmware – 0x01 - No user permission required before updating firmware – 0x02 - User permission required, auto update on power up • function SLQSOMADMGetSettings2() returns a default value 0xFF in case this parameter is not returned by the modem.
pAutosdm[OUT]	• 1 byte parameter indicating OMA Automatic UI Alert Response – 0x00 - Disabled – 0x01 - Enabled Accept – 0x02 - Enabled Reject • function SLQSOMADMGetSettings2() returns a default value 0xFF in case this parameter is not returned by the modem.
pFwAutoCheck[OUT]	• Optional 1 byte parameter indicating OMA Automatic Check for Firmware Update on Power-Up Response – 0x00 - Disabled – 0x01 - Enabled • function SLQSOMADMGetSettings2() returns a default value 0xFF in case this parameter is not returned by the modem.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

8.37.2 Field Documentation

8.37.2.1 BYTE* _SLQSOMADMSettings::pAutosdm

8.37.2.2 BYTE* _SLQSOMADMSettings::pFOTAdownload

8.37.2.3 BYTE* _SLQSOMADMSettings::pFOTAUpdate

8.37.2.4 BYTE* _SLQSOMADMSettings::pFwAutoCheck

8.37.2.5 ULONG* _SLQSOMADMSettings::pOMADMEnabled

8.38 _SLQSOMADMSettingsReqParams Struct Reference

Data Fields

- BYTE FOTAdownload
- BYTE FOTAUpdate
- BYTE * pAutosdm

8.38.1 Detailed Description

Structure containing the OMA DM settings to be set on the device

Parameters

FOTAdownload	• 1 Byte parameter indicating support for FOTA Automatic download – 0x00 - Firmware auto download FALSE – 0x01 - Firmware auto download TRUE
FOTAUpdate	• 1 byte parameter indicating FOTA Automatic update – 0x00 - Firmware auto update FALSE – 0x01 - Firmware auto update TRUE
pAutosdm[IN]	• Optional 1 byte parameter indicating OMA Automatic UI Alert Response – 0x00 - Disabled – 0x01 - Enabled Accept – 0x02 - Enabled Reject

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

8.38.2 Field Documentation

8.38.2.1 BYTE _SLQSOMADMSettingsReqParams::FOTAdownload

8.38.2.2 BYTE _SLQSOMADMSettingsReqParams::FOTAUpdate

8.38.2.3 BYTE* _SLQSOMADMSettingsReqParams::pAutosdm

8.39 _SLQSOMADMSettingsReqParams3 Struct Reference

Data Fields

- BYTE FOTAdownload

- BYTE FOTAUpdate
- BYTE * pAutosdm
- BYTE * pFwAutoCheck

8.39.1 Detailed Description

Structure containing the OMA DM settings to be set on the device

Parameters

FOTAdownload	• 1 Byte parameter indicating support for FOTA Automatic download – 0x00 - Firmware auto download FALSE – 0x01 - Firmware auto download TRUE
FOTAUpdate	• 1 byte parameter indicating FOTA Automatic update – 0x00 - Firmware auto update FALSE – 0x01 - Firmware auto update TRUE
pAutosdm[IN]	• Optional 1 byte parameter indicating OMA Automatic UI Alert Response – 0x00 - Disabled – 0x01 - Enabled Accept – 0x02 - Enabled Reject
pFwAutoCheck[-IN]	• Optional 1 byte parameter indicating OMA Automatic Check for Firmware Update on Power-Up Response – 0x00 - Disabled – 0x01 - Enabled

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

8.39.2 Field Documentation

8.39.2.1 BYTE _SLQSOMADMSettingsReqParams3::FOTAdownload

8.39.2.2 BYTE _SLQSOMADMSettingsReqParams3::FOTAUpdate

8.39.2.3 BYTE* _SLQSOMADMSettingsReqParams3::pAutosdm

8.39.2.4 BYTE* _SLQSOMADMSettingsReqParams3::pFwAutoCheck

8.40 _SLQSSwiGetHostDevInfoParams Struct Reference

Data Fields

- BYTE bManSize
- CHAR * pManString
- BYTE bModelSize
- CHAR * pModelString
- BYTE bSWVerSize
- CHAR * pSWVerString
- BYTE bPlasmaIDSize
- CHAR * pPlasmaIDString

8.40.1 Detailed Description

This structure is used to Get Host Device Information

Parameters

bManSize[IN/OUT]	• Host Device Manufacturer String Size
pManString[OUT]	• Host Device Manufacturer Name(Optional parameter) • Null terminated ASCII String
bModelSize[IN/OUT]	• Host Device Model String Size
pModelString[OUT]	• Host Device Model String(Optional parameter) • Null terminated ASCII string.
bSWVerSize[IN/OUT]	• Host Device Software Version String Size
pSWVerString[OUT]	• Host Device Software Version String(Optional parameter) • Null terminated ASCII string
bPlasmaIDSize[IN/OUT]	• Host Device Plasma ID String Size
pPlasmaIDString[OUT]	• Host Device Plasma ID String(Optional parameter) • Null terminated alphanumeric ASCII String.

8.40.2 Field Documentation

8.40.2.1 BYTE _SLQSSwiGetHostDevInfoParams::bManSize

8.40.2.2 BYTE _SLQSSwiGetHostDevInfoParams::bModelSize

8.40.2.3 BYTE _SLQSSwiGetHostDevInfoParams::bPlasmaIDSize

8.40.2.4 BYTE _SLQSSwiGetHostDevInfoParams::bSWVerSize

8.40.2.5 CHAR* _SLQSSwiGetHostDevInfoParams::pManString

8.40.2.6 CHAR* _SLQSSwiGetHostDevInfoParams::pModelString

8.40.2.7 CHAR* _SLQSSwiGetHostDevInfoParams::pPlasmaIDString

8.40.2.8 CHAR* _SLQSSwiGetHostDevInfoParams::pSWVerString

8.41 _SLQSSwiGetOSInfoParams Struct Reference

Data Fields

- BYTE bNameSize
- CHAR * pNameString
- BYTE bVersionSize
- CHAR * pVersionString

8.41.1 Detailed Description

This structure is used to Get OS Information

Parameters

bNameSize[IN/-OUT]	• Size of Operating System Name
pNameString[O-UT]	• Operating System Name(Optional parameter) • Null terminated ASCII string
bVersionSize[I-N/OUT]	• Operating System Version Size
pVersionString[-OUT]	• Operating System Version String(Optional parameter) • Null terminated ASCII string.

8.41.2 Field Documentation

8.41.2.1 BYTE _SLQSSwiGetOSInfoParams::bNameSize

8.41.2.2 BYTE _SLQSSwiGetOSInfoParams::bVersionSize

8.41.2.3 CHAR* _SLQSSwiGetOSInfoParams::pNameString

8.41.2.4 CHAR* _SLQSSwiGetOSInfoParams::pVersionString

8.42 _SLQSSwiGetSerialNoExtParams Struct Reference

Data Fields

- BYTE meidLength
- CHAR * pMeidString

8.42.1 Detailed Description

This structure is used to store MEID Information

Parameters

meidLength[OUT]	• String length of the of MEID received
pMeidString[OUT]	• Optional parameter • Pointer to receive String containing the Mobile Equipment Identifier(MEID) of the device.

8.42.2 Field Documentation

8.42.2.1 BYTE _SLQSSwiGetSerialNoExtParams::meidLength

8.42.2.2 CHAR* _SLQSSwiGetSerialNoExtParams::pMeidString

8.43 _SLQSSwiSetHostDevInfoParams Struct Reference

Data Fields

- BYTE bManSize
- CHAR * pManString
- BYTE bModelSize
- CHAR * pModelString
- BYTE bSWVerSize
- CHAR * pSWVerString
- BYTE bPlasmaIDSize
- CHAR * pPlasmaIDString

8.43.1 Detailed Description

This structure is used to Set Host Device Information

Parameters

bManSize[IN]	• Host Device Manufacturer String Size
pManString[IN]	• Host Device Manufacturer Name(Optional parameter) • Null terminated ASCII String
bModelSize[IN]	• Host Device Model String Size

pModelString[IN]	• Host Device Model String(Optional parameter) • Null terminated ASCII string.
bSWVerSize[IN]	• Host Device Software Version String Size
pSWVerString[IN]	• Host Device Software Version String(Optional parameter) • Null terminated ASCII string
bPlasmaIDSize[IN]	• Host Device Plasma ID String Size
pPlasmaIDString[IN]	• Host Device Plasma ID String(Optional parameter) • Null terminated alphanumeric ASCII String.

8.43.2 Field Documentation

8.43.2.1 BYTE _SLQSSwiSetHostDevInfoParams::bManSize

8.43.2.2 BYTE _SLQSSwiSetHostDevInfoParams::bModelSize

8.43.2.3 BYTE _SLQSSwiSetHostDevInfoParams::bPlasmaIDSize

8.43.2.4 BYTE _SLQSSwiSetHostDevInfoParams::bSWVerSize

8.43.2.5 CHAR* _SLQSSwiSetHostDevInfoParams::pManString

8.43.2.6 CHAR* _SLQSSwiSetHostDevInfoParams::pModelString

8.43.2.7 CHAR* _SLQSSwiSetHostDevInfoParams::pPlasmaIDString

8.43.2.8 CHAR* _SLQSSwiSetHostDevInfoParams::pSWVerString

8.44 _SLQSSwiSetOSInfoParams Struct Reference

Data Fields

- BYTE bNameSize
- CHAR * pNameString
- BYTE bVersionSize
- CHAR * pVersionString

8.44.1 Detailed Description

This structure is used to Set OS Information

Parameters

bNameSize[IN]	• Size of Operating System Name
pNameString[IN]	• Operating System Name(Optional parameter) • Null terminated ASCII string
bVersionSize[IN]	• Operating System Version Size
pVersionString[IN]	• Operating System Version String(Optional parameter) • Null terminated ASCII string.

8.44.2 Field Documentation

8.44.2.1 BYTE _SLQSSwiSetOSInfoParams::bNameSize

8.44.2.2 BYTE _SLQSSwiSetOSInfoParams::bVersionSize

8.44.2.3 CHAR* _SLQSSwiSetOSInfoParams::pNameString

8.44.2.4 CHAR* _SLQSSwiSetOSInfoParams::pVersionString

8.45 _SwiAvmsEventInd Struct Reference

Data Fields

- QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp BinaryUpdateSessionInfo
- QmiSwiAvmsEventReportConfigResp Config
- QmiSwiAvmsEventReportNotificationResp Notification
- QmiSwiAvmsEventReportConnectionRequestResp ConnectionRequest
- QmiSwiAvmsEventReportWAMSParamChangeResp WAMSParaChanged
- QmiSwiAvmsEventReportPackageIDResp PackageID
- QmiSwiAvmsEventReportDataSessionStatusResp DataSessionStatus
- QmiSwiAvmsEventReportSessionTypeResp SessionType
- QmiSwiAvmsEventReportHTTPStatusResp HTTPStatus
- QmiSwiAvmsEventReportRegStatusResp RegStatus

8.45.1 Field Documentation

8.45.1.1 QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp _SwiAvmsEventInd::BinaryUpdateSessionInfo

8.45.1.2 QmiSwiAvmsEventReportConfigResp _SwiAvmsEventInd::Config

8.45.1.3 QmiSwiAvmsEventReportConnectionRequestResp _SwiAvmsEventInd::ConnectionRequest

8.45.1.4 QmiSwiAvmsEventReportDataSessionStatusResp _SwiAvmsEventInd::DataSessionStatus

8.45.1.5 QmiSwiAvmsEventReportHTTPStatusResp _SwiAvmsEventInd::HTTPStatus

8.45.1.6 QmiSwiAvmsEventReportNotificationResp _SwiAvmsEventInd::Notification

8.45.1.7 QmiSwiAvmsEventReportPackageIDResp _SwiAvmsEventInd::PackageID

8.45.1.8 QmiSwiAvmsEventReportRegStatusResp _SwiAvmsEventInd::RegStatus

8.45.1.9 QmiSwiAvmsEventReportSessionTypeResp _SwiAvmsEventInd::SessionType

8.45.1.10 QmiSwiAvmsEventReportWAMSParamChangeResp _SwiAvmsEventInd::WAMSParaChanged

8.46 _sysSelectPrefExtInfo Struct Reference

Data Fields

- sysSelectPrefInfo * pSysSelectPrefInfo
- AcqOrderPrefTlv * pAcqOrderPref
- RatDisabledMaskTlv * pRatDisabledMask
- CiotLteOpModePrefTlv * pCiotLteOpModePref
- LteM1BandPrefTlv * pLteM1BandPref
- LteNb1BandPrefTlv * pLteNb1BandPref
- CiotAcqOrderPrefTlv * pCiotAcqOrderPref
- NR5gBandPrefTlv * pNr5gBandPref

8.46.1 Detailed Description

Structure for storing the current preferred system selection settings for the device.

Parameters

pSysSelectPrefInfo	• See sysSelectPrefInfo for more information
pAcqOrderPref	• Optional parameter • Acquisition Order Preference • See AcqOrderPrefTlv for more information
pRatDisabledMask	• Optional parameter • See RatDisabledMaskTlv for more information
pCiotLteOpModePref	• Optional parameter • See CiotLteOpModePrefTlv for more information
pLteM1BandPref	• Optional parameter • See LteM1BandPrefTlv for more information
pLteNb1BandPref	• Optional parameter • See LteNb1BandPrefTlv for more information

pCiotAcqOrder-Pref	• Optional parameter indicating CIOT Acquisition Order Preference • See CiotAcqOrderPrefTlv for more information
pNr5gBandPref	• Optional parameter indicating NR5G Band Preference • See NR5gBandPrefTlv for more information

Note

None

8.46.2 Field Documentation

8.46.2.1 AcqOrderPrefTlv∗ _sysSelectPrefExtInfo::pAcqOrderPref

8.46.2.2 CiotAcqOrderPrefTlv∗ _sysSelectPrefExtInfo::pCiotAcqOrderPref

8.46.2.3 CiotLteOpModePrefTlv∗ _sysSelectPrefExtInfo::pCiotLteOpModePref

8.46.2.4 LteM1BandPrefTlv∗ _sysSelectPrefExtInfo::pLteM1BandPref

8.46.2.5 LteNb1BandPrefTlv∗ _sysSelectPrefExtInfo::pLteNb1BandPref

8.46.2.6 NR5gBandPrefTlv∗ _sysSelectPrefExtInfo::pNr5gBandPref

8.46.2.7 RatDisabledMaskTlv∗ _sysSelectPrefExtInfo::pRatDisabledMask

8.46.2.8 sysSelectPrefInfo∗ _sysSelectPrefExtInfo::pSysSelectPrefInfo

8.47 _sysSelectPrefInfo Struct Reference

Data Fields

- BYTE ∗ pEmerMode
- WORD ∗ pModePref
- ULONGLONG ∗ pBandPref
- WORD ∗ pPRLPref
- WORD ∗ pRoamPref
- ULONGLONG ∗ pLTEBandPref
- BYTE ∗ pNetSelPref
- ULONG ∗ pSrvDomainPref
- ULONG ∗ pGWAcqOrderPref

8.47.1 Detailed Description

Structure for storing the current preferred system selection settings for the device.

Parameters

pEmerMode	• Optional parameter specifying the emergency Mode • Values: – 0 - OFF (normal) – 1 - ON (Emergency) • function SLQSGetSysSelectionPref() returns a default value FF if no value is returned by the device.
pModePref	• Optional parameter • Bit Mask indicating the radio technology mode preference • Bit values: – Bit 0 - cdma2000 1x – Bit 1 - cdma2000 HRPD(1xEV-DO) – Bit 2 - GSM – Bit 3 - UMTS – Bit 4 - LTE – Bit 5 - TD-SCDMA – Bit 6 - NR5G • function SLQSGetSysSelectionPref() returns a default value FF if no value is returned by the device.

pBandPref	• Optional parameter • Bit mask representing the band preference • Bit values: – Bit 0 - Band Class 0, A-System – Bit 1 - Band Class 0, B-System, Band Class 0 AB, GSM 850 Band – Bit 2 - Band Class 1, all blocks – Bit 3 - Band Class 2 place holder – Bit 4 - Band Class 3, A-System – Bit 5 - Band Class 4, all blocks – Bit 6 - Band Class 5, all blocks – Bit 7 - GSM_DCS_1800 band – Bit 8 - GSM Extended GSM (E-GSM) 900 band – Bit 9 - GSM Primary GSM (P-GSM) 900 band – Bit 10 - Band Class 6 – Bit 11 - Band Class 7 – Bit 12 - Band Class 8 – Bit 13 - Band Class 9 – Bit 14 - Band Class 10 – Bit 15 - Band Class 11 – Bit 16 - GSM 450 band – Bit 17 - GSM 480 band – Bit 18 - GSM 750 band – Bit 19 - GSM 850 band – Bit 20 - GSM Railways GSM 900 Band – Bit 21 - GSM PCS 1900 band – Bit 22 - WCDMA Europe, Japan, and China IMT 2100 band – Bit 23 - WCDMA U.S. PCS 1900 band – Bit 24 - WCDMA Europe and China DCS 1800 band – Bit 25 - WCDMA U.S. 1700 band – Bit 26 - WCDMA U.S. 850 band – Bit 27 - WCDMA Japan 800 band – Bit 28 - Band Class 12 – Bit 29 - Band Class 14 – Bit 30 - Reserved – Bit 31 - Band Class 15 – Bit 32 to 47 - Reserved – Bit 48 - WCDMA Europe 2600 band – Bit 49 - WCDMA Europe and Japan 900 band – Bit 50 - WCDMA Japan 1700 band – Bit 51 to 55 - Reserved – Bit 56 - Band Class 16 – Bit 57 - Band Class 17 – Bit 58 - Band Class 18 – Bit 59 - Band Class 19 – Bit 60 to 64 - Reserved • function SLQSGetSysSelectionPref() returns a default value FFFFFFFFFFFFFFFF if no value is returned by the device.

pPRLPref	• Optional parameter indicating the CDMA PRL Preference • Values: – 0x0001 - Acquire available system only on the A side – 0x0002 - Acquire available system only on the B side – 0x3FFF - Acquire any available systems • function SLQSGetSysSelectionPref() returns a default value FFFF if no value is returned by the device.
pRoamPref	• Optional parameter indicating the roaming Preference • Values: – 0x01 - Acquire only systems for which the roaming indicator is off – 0x02 - Acquire a system as long as its roaming indicator is not off – 0x03 - Acquire only systems for which the roaming indicator is off or solid on, i.e. not flashing; CDMA only – 0xFF - Acquire systems, regardless of their roaming indicator • function SLQSGetSysSelectionPref() returns a default value FFFF if no value is returned by the device.

pLTEBandPref	• Optional parameter • Bit mask representing the LTE band preference • Bit Values – Bit 0 - E-UTRA Operating Band 1 – Bit 1 - E-UTRA Operating Band 2 – Bit 2 - E-UTRA Operating Band 3 – Bit 3 - E-UTRA Operating Band 4 – Bit 4 - E-UTRA Operating Band 5 – Bit 5 - E-UTRA Operating Band 6 – Bit 6 - E-UTRA Operating Band 7 – Bit 7 - E-UTRA Operating Band 8 – Bit 8 - E-UTRA Operating Band 9 – Bit 9 - E-UTRA Operating Band 10 – Bit 10 - E-UTRA Operating Band 11 – Bit 11 - E-UTRA Operating Band 12 – Bit 12 - E-UTRA Operating Band 13 – Bit 13 - E-UTRA Operating Band 14 – Bit 16 - E-UTRA Operating Band 17 – Bit 17 - E-UTRA Operating Band 18 – Bit 18 - E-UTRA Operating Band 19 – Bit 19 - E-UTRA Operating Band 20 – Bit 20 - E-UTRA Operating Band 21 – Bit 22 - E-UTRA Operating Band 23 – Bit 23 - E-UTRA Operating Band 24 – Bit 24 - E-UTRA Operating Band 25 – Bit 25 - E-UTRA Operating Band 26 – Bit 27 - E-UTRA Operating Band 28 – Bit 28 - E-UTRA Operating Band 29 – Bit 29 - E-UTRA Operating Band 32 – Bit 32 - E-UTRA Operating Band 33 – Bit 33 - E-UTRA Operating Band 34 – Bit 34 - E-UTRA Operating Band 35 – Bit 35 - E-UTRA Operating Band 36 – Bit 36 - E-UTRA Operating Band 37 – Bit 37 - E-UTRA Operating Band 38 – Bit 38 - E-UTRA Operating Band 39 – Bit 39 - E-UTRA Operating Band 40 – Bit 40 - E-UTRA Operating Band 41 – Bit 41 - E-UTRA Operating Band 42 – Bit 42 - E-UTRA Operating Band 43 – Bit 60 - E-UTRA Operating Band 125 – All other bits are reserved • function SLQSGetSysSelectionPref() returns a default value FFFFFFFFFFFFFFFF if no value is returned by the device.

pNetSelPref	• Optional parameter indicating network selection preference • Values: – 0x00 - Automatic network selection – 0x01 - Manual network selection • function SLQSGetSysSelectionPref() returns a default value FF if no value is returned by the device.
pSrvDomainPref	• Optional parameter indicating Service domain preference • Values: – 0x00 - Circuit switched only – 0x01 - Packet switched only – 0x02 - Circuit switched and packet switched – 0x03 - Packet switched attach – 0x04 - Packet switched detach • function SLQSGetSysSelectionPref() returns a default value FFFFFFFF if no value is returned by the device.
pGWAcqOrder-Pref	• Optional parameter indicating GSM/WCDMA Acquisition order Preference • Values: – 0x00 - Automatic – 0x01 - GSM then WCDMA – 0x02 - WCDMA then GSM • function SLQSGetSysSelectionPref() returns a default value FFFFFFFF if no value is returned by the device.

Note

None

8.47.2 Field Documentation

8.47.2.1 ULONGLONG* _sysSelectPrefInfo::pBandPref

8.47.2.2 BYTE* _sysSelectPrefInfo::pEmerMode

8.47.2.3 ULONG* _sysSelectPrefInfo::pGWAcqOrderPref

8.47.2.4 ULONGLONG* _sysSelectPrefInfo::pLTEBandPref

8.47.2.5 WORD* _sysSelectPrefInfo::pModePref

8.47.2.6 BYTE* _sysSelectPrefInfo::pNetSelPref

8.47.2.7 WORD* _sysSelectPrefInfo::pPRLPref

8.47.2.8 WORD* _sysSelectPrefInfo::pRoamPref

8.47.2.9 ULONG* _sysSelectPrefInfo::pSrvDomainPref

8.48 _sysSelectPrefParams Struct Reference

Data Fields

- BYTE * pEmerMode
- WORD * pModePref
- ULONGLONG * pBandPref
- WORD * pPRLPref
- WORD * pRoamPref
- ULONGLONG * pLTEBandPref
- struct netSelectionPref * pNetSelPref
- BYTE * pChgDuration
- BYTE * pMNCIncPCSDigStat
- ULONG * pSrvDomainPref
- ULONG * pGWAcqOrderPref
- ULONGLONG * pTdscdmaBandPref
- struct acqOrderPref * pAcqOrderPref
- ULONG * pSrvRegRestriction
- struct CSGID * pCSGID
- BYTE * pRAT

8.48.1 Detailed Description

Contain the system selection preferences.

Parameters

pEmerMode	• Optional parameter specifying the emergency Mode • Values: – 0 - OFF (normal) – 1 - ON (Emergency)
pModePref	• Optional parameter • Bit Mask indicating the radio technology mode preference • Bit values: – Bit 0 - cdma2000 1x – Bit 1 - cdma2000 HRPD(1xEV-DO) – Bit 2 - GSM – Bit 3 - UMTS – Bit 4 - LTE – Bit 5 - TD-SCDMA – Bit 6 - NR5G

pBandPref	• Optional parameter • Bit mask representing the band preference • Bit values: – Bit 0 - Band Class 0, A-System – Bit 1 - Band Class 0, B-System, Band Class 0 AB, GSM 850 Band – Bit 2 - Band Class 1, all blocks – Bit 3 - Band Class 2 place holder – Bit 4 - Band Class 3, A-System – Bit 5 - Band Class 4, all blocks – Bit 6 - Band Class 5, all blocks – Bit 7 - GSM_DCS_1800 band – Bit 8 - GSM Extended GSM (E-GSM) 900 band – Bit 9 - GSM Primary GSM (P-GSM) 900 band – Bit 10 - Band Class 6 – Bit 11 - Band Class 7 – Bit 12 - Band Class 8 – Bit 13 - Band Class 9 – Bit 14 - Band Class 10 – Bit 15 - Band Class 11 – Bit 16 - GSM 450 band – Bit 17 - GSM 480 band – Bit 18 - GSM 750 band – Bit 19 - GSM 850 band – Bit 20 - GSM Railways GSM 900 Band – Bit 21 - GSM PCS 1900 band – Bit 22 - WCDMA Europe, Japan, and China IMT 2100 band – Bit 23 - WCDMA U.S. PCS 1900 band – Bit 24 - WCDMA Europe and China DCS 1800 band – Bit 25 - WCDMA U.S. 1700 band – Bit 26 - WCDMA U.S. 850 band – Bit 27 - WCDMA Japan 800 band – Bit 28 - Band Class 12 – Bit 29 - Band Class 14 – Bit 30 - Reserved – Bit 31 - Band Class 15 – Bit 32 to 47 - Reserved – Bit 48 - WCDMA Europe 2600 band – Bit 49 - WCDMA Europe and Japan 900 band – Bit 50 - WCDMA Japan 1700 band – Bit 51 to 55 - Reserved – Bit 56 - Band Class 16 – Bit 57 - Band Class 17 – Bit 58 - Band Class 18 – Bit 59 - Band Class 19 – Bit 60 to 64 - Reserved

pPRLPref	• Optional parameter indicating the CDMA PRL Preference • Values: – 0x0001 - Acquire available system only on the A side – 0x0002 - Acquire available system only on the B side – 0x3FFF - Acquire any available systems
pRoamPref	• Optional parameter indicating the roaming Preference • Values: – 0x01 - Acquire only systems for which the roaming indicator is off – 0x02 - Acquire a system as long as its roaming indicator is not off – 0x03 - Acquire only systems for which the roaming indicator is off or solid on, i.e. not flashing; CDMA only – 0xFF - Acquire systems, regardless of their roaming indicator

pLTEBandPref	• Optional parameter • Bit mask representing the LTE band preference • Bit Values – Bit 0 - E-UTRA Operating Band 1 – Bit 1 - E-UTRA Operating Band 2 – Bit 2 - E-UTRA Operating Band 3 – Bit 3 - E-UTRA Operating Band 4 – Bit 4 - E-UTRA Operating Band 5 – Bit 5 - E-UTRA Operating Band 6 – Bit 6 - E-UTRA Operating Band 7 – Bit 7 - E-UTRA Operating Band 8 – Bit 8 - E-UTRA Operating Band 9 – Bit 9 - E-UTRA Operating Band 10 – Bit 10 - E-UTRA Operating Band 11 – Bit 11 - E-UTRA Operating Band 12 – Bit 12 - E-UTRA Operating Band 13 – Bit 13 - E-UTRA Operating Band 14 – Bit 16 - E-UTRA Operating Band 17 – Bit 17 - E-UTRA Operating Band 18 – Bit 18 - E-UTRA Operating Band 19 – Bit 19 - E-UTRA Operating Band 20 – Bit 20 - E-UTRA Operating Band 21 – Bit 22 - E-UTRA Operating Band 23 – Bit 23 - E-UTRA Operating Band 24 – Bit 24 - E-UTRA Operating Band 25 – Bit 25 - E-UTRA Operating Band 26 – Bit 27 - E-UTRA Operating Band 28 – Bit 28 - E-UTRA Operating Band 29 – Bit 29 - E-UTRA Operating Band 32 – Bit 32 - E-UTRA Operating Band 33 – Bit 33 - E-UTRA Operating Band 34 – Bit 34 - E-UTRA Operating Band 35 – Bit 35 - E-UTRA Operating Band 36 – Bit 36 - E-UTRA Operating Band 37 – Bit 37 - E-UTRA Operating Band 38 – Bit 38 - E-UTRA Operating Band 39 – Bit 39 - E-UTRA Operating Band 40 – Bit 40 - E-UTRA Operating Band 41 – Bit 41 - E-UTRA Operating Band 42 – Bit 42 - E-UTRA Operating Band 43 – Bit 60 - E-UTRA Operating Band 125 – All other bits are reserved

pNetSelPref	- netSelectionPref • Optional parameter for specifying Network Selection Preference • Modem selects networks based on this parameter(if present). • Either of pNetSelPref or pCSGID can be set. • see netSelectionPref for more information
pChgDuration	• Optional parameter specifying the duration of the change • At least one system selection setting to be set if pChgDuration is populated. • Values: – 0x00 - Power cycle - Remains active until the next device power cycle – 0x01 - Permanent - Remains active through power cycles until changed by client – Device will use "0x01 - permanent" as default if this parameter is omitted
pMNCIncPCS-DigStat	• Optional parameter indicating if MNC includes PCS digit • pNetSelPref is expected if MNC includes PCS digit is set to 1. • Values: – TRUE - MNC is a 3 digit value; e.g., a reported value of 90 corresponds to an MNC value of 090 – FALSE - MNC is a 2-digit value; e.g., a reported value of 90 corresponds to an MNC value of 90
pSrvDomainPref	• Optional parameter indicating Service domain preference • Values: – 0x00 - Circuit switched only – 0x01 - Packet switched only – 0x02 - Circuit switched and packet switched – 0x03 - Packet switched attach – 0x04 - Packet switched detach
pGWAcqOrder-Pref	• Optional parameter indicating GSM/WCDMA Acquisition order Preference • Values: – 0x00 - Automatic – 0x01 - GSM then WCDMA – 0x02 - WCDMA then GSM
pTdscdmaBand-Pref	• Optional parameter indicating bitmask representing the TD-SCDMA band preference to be set. • Values: – 0x01 - TD-SCDMA Band A – 0x02 - TD-SCDMA Band B – 0x04 - TD-SCDMA Band C – 0x08 - TD-SCDMA Band D – 0x10 - TD-SCDMA Band E – 0x20 - TD-SCDMA Band F – All other bits are reserved

pAcqOrderPref	- acqOrderPref • Optional parameter for specifying Acquisition Order Preference • see acqOrderPref for more information
pSrvReg-Restriction	• Optional parameter indicating Network Selection Registration Restriction Preference • Values: – 0x00 - Device follows the normal registration process – 0x01 - Device camps on the network according to its provisioning, but does not register – 0x02 - Device selects the network for limited service – All other values are reserved.
pCSGID	- CSGID • Optional parameter for specifying CSG ID • Either of pNetSelPref or pCSGID can be set. • see CSGID for more information
pRAT	• Optional parameter Radio Access Technology order Preference • Values: – 0x04 - GSM – 0x05 - UMTS – 0x08 - LTE – 0x09 - TDSCDMA – 0x0A - LTE-M1 – 0x0B - LTE-NB1 – 0x0C - NR5G

8.48.2 Field Documentation

8.48.2.1 struct acqOrderPref* _sysSelectPrefParams::pAcqOrderPref

8.48.2.2 ULONGLONG* _sysSelectPrefParams::pBandPref

8.48.2.3 BYTE* _sysSelectPrefParams::pChgDuration

8.48.2.4 struct CSGID* _sysSelectPrefParams::pCSGID

8.48.2.5 BYTE* _sysSelectPrefParams::pEmerMode

8.48.2.6 ULONG* _sysSelectPrefParams::pGWAcqOrderPref

8.48.2.7 ULONGLONG* _sysSelectPrefParams::pLTEBandPref

8.48.2.8 BYTE* _sysSelectPrefParams::pMNCIncPCSDigStat

8.48.2.9 WORD* _sysSelectPrefParams::pModePref

8.48.2.10 struct netSelectionPref* _sysSelectPrefParams::pNetSelPref

8.48.2.11 WORD* _sysSelectPrefParams::pPRLPref

8.48.2.12 BYTE* _sysSelectPrefParams::pRAT

8.48.2.13 WORD* _sysSelectPrefParams::pRoamPref

8.48.2.14 ULONG* _sysSelectPrefParams::pSrvDomainPref

8.48.2.15 ULONG* _sysSelectPrefParams::pSrvRegRestriction

8.48.2.16 ULONGLONG* _sysSelectPrefParams::pTdscdmaBandPref

8.49 _transLayerinfo Struct Reference

Data Fields

- BYTE TransType
- BYTE TransCap

8.49.1 Detailed Description

This structure contains Transport Layer Information

Parameters

TransType	• Transport Type – 0x00 - IMS
TransCap	• Transport Capability • Values: – 0x00 - CDMA – 0x01 - GW

8.49.2 Field Documentation

8.49.2.1 BYTE _transLayerinfo::TransCap

8.49.2.2 BYTE _transLayerinfo::TransType

8.50 _transLayerInfoNotification Struct Reference

Data Fields

- BYTE regInd
- transLayerInfo * pTransLayerInfo

8.50.1 Detailed Description

Contains the parameters passed for SLQSSetTransLayerInfoCallback by the device.

Parameters

regInd	• Indicates whether the transport layer is registered or not • Values: – 0x00 - Transport layer is not registered – 0x01 - Transport layer is registered
pTransLayerInfo	• Optional parameter • See transLayerInfo for more information

Note

None

8.50.2 Field Documentation

8.50.2.1 transLayerInfo* _transLayerInfoNotification::pTransLayerInfo

8.50.2.2 BYTE _transLayerInfoNotification::regInd

8.51 _transNWRegInfoNotification Struct Reference

Data Fields

- BYTE NWRegStat

8.51.1 Detailed Description

Contains the parameters passed for SLQSSetTransNWRegInfoCallback by the device.

Parameters

NWRegStat	• provides the transport network registration information • Values: – 0x00 - No Service – 0x01 - In Progress – 0x02 - Failed – 0x03 - Limited Service – 0x04 - Full Service

Note

None

8.51.2 Field Documentation

8.51.2.1 BYTE _transNWRegInfoNotification::NWRegStat

8.52 accelAcceptReady_s Struct Reference

Data Fields

- BYTE injectEnable
- WORD samplesPerBatch
- WORD batchPerSec

8.52.1 Detailed Description

This structure contains Accelerometer Accept Ready Info

Parameters

injectEnable	• GNSS location engine is ready to accept data from sensor. • Values • 0x01 - Ready to accept sensor data • 0x00 - Not ready to accept sensor data
samplesPer-Batch	• number of samples per batch the GNSS location engine is to receive. • samplingFrequency = samplesPerBatch ∗ batchesPerSecond • samplesPerBatch must be a nonzero positive value.
batchPerSec	• LTE NAS version minor • Number of sensor-data batches the GNSS location engine is to receive per second. • BatchesPerSecond must be a nonzero positive value.

8.52.2 Field Documentation

8.52.2.1 WORD accelAcceptReady_s::batchPerSec

8.52.2.2 BYTE accelAcceptReady_s::injectEnable

8.52.2.3 WORD accelAcceptReady_s::samplesPerBatch

8.53 accelTempAcceptReady_s Struct Reference

Data Fields

- BYTE injectEnable
- WORD samplesPerBatch
- WORD batchPerSec

8.53.1 Detailed Description

This structure contains Accelerometer Temperature Accept Ready Info

Parameters

injectEnable	• GNSS location engine is ready to accept data from sensor. • Values • 0x01 - Ready to accept sensor data • 0x00 - Not ready to accept sensor data
samplesPer-Batch	• number of samples per batch the GNSS location engine is to receive. • samplingFrequency = samplesPerBatch ∗ batchesPerSecond • samplesPerBatch must be a nonzero positive value.
batchPerSec	• LTE NAS version minor • Number of sensor-data batches the GNSS location engine is to receive per second. • BatchesPerSecond must be a nonzero positive value.

8.53.2 Field Documentation

8.53.2.1 WORD accelTempAcceptReady_s::batchPerSec

8.53.2.2 BYTE accelTempAcceptReady_s::injectEnable

8.53.2.3 WORD accelTempAcceptReady_s::samplesPerBatch

8.54 acqOrderPref Struct Reference

Data Fields

- BYTE acqOrdeLen
- BYTE ∗ pAcqOrder

8.54.1 Detailed Description

Contain the Acquisition Order Preference.

Parameters

acqOrdeLen	• Number of sets of the following elements.
pAcqOrder	• Acquisition order preference to be set. Values: – 0x01 - NAS_RADIO_IF_CDMA_1X - cdma2000 1X – 0x02 - NAS_RADIO_IF_CDMA_1XEVDO - cdma2000 HRPD (1xEV-DO) – 0x04 - NAS_RADIO_IF_GSM - GSM – 0x05 - NAS_RADIO_IF_UMTS - UMTS – 0x08 - NAS_RADIO_IF_LTE - LTE – 0x09 - NAS_RADIO_IF_TDSCDMA - TD-SCDMA – 0x0C - NAS_RADIO_IF_NR5G - NR5G

8.54.2 Field Documentation

8.54.2.1 BYTE acqOrderPref::acqOrdeLen

8.54.2.2 BYTE* acqOrderPref::pAcqOrder

8.55 AcqOrderPrefTlv Struct Reference

Data Fields

- BYTE acqOrdeLen
- BYTE * pAcqOrder
- BYTE TlvPresent

8.55.1 Detailed Description

Contain the Acquisition Order Preference.

Parameters

acqOrdeLen	• Number of sets of the following elements.
pAcqOrder	• Acquisition order preference to be set. Values: – 0x01 - NAS_RADIO_IF_CDMA_1X - cdma2000 1X – 0x02 - NAS_RADIO_IF_CDMA_1XEVDO - cdma2000 HRPD (1xEV-DO) – 0x04 - NAS_RADIO_IF_GSM - GSM – 0x05 - NAS_RADIO_IF_UMTS - UMTS – 0x08 - NAS_RADIO_IF_LTE - LTE – 0x09 - NAS_RADIO_IF_TDSCDMA - TD-SCDMA – 0x0C - NAS_RADIO_IF_NR5G - NR5G
TlvPresent	• Tlv Present

8.55.2 Field Documentation

8.55.2.1 BYTE AcqOrderPrefTlv::acqOrdeLen

8.55.2.2 BYTE* AcqOrderPrefTlv::pAcqOrder

8.55.2.3 BYTE AcqOrderPrefTlv::TlvPresent

8.56 ActPilotPNElement Struct Reference

Data Fields

- WORD ActSetPilotPN
- BYTE ActSetPilotPNStrength

8.56.1 Detailed Description

This structure describes Active Pilot PN elements

Parameters

ActSetPilotPN	• Active Pilot PN
ActSetPilotPN-Strength	• Active Pilot PN strength

8.56.2 Field Documentation

8.56.2.1 WORD ActPilotPNElement::ActSetPilotPN

8.56.2.2 BYTE ActPilotPNElement::ActSetPilotPNStrength

8.57 AddCDMASysInfo Struct Reference

Data Fields

- WORD geoSysIdx
- WORD regPrd

8.57.1 Detailed Description

Structure for storing the Additional CDMA System Information.

Parameters

geoSysIdx	• System table index referencing the beginning of the geo in which the current serving system is present. • When the system index is not known, 0xFFFF is used.
regPrd	• Registration period after the CDMA system is acquired. • When the CDMA registration period is not valid, 0xFFFF is used.

8.57.2 Field Documentation

8.57.2.1 WORD AddCDMASysInfo::geoSysIdx

8.57.2.2 WORD AddCDMASysInfo::regPrd

8.58 AddSysInfo Struct Reference

Data Fields

- WORD geoSysIdx

- ULONG cellBroadcastCap

8.58.1 Detailed Description

Structure for storing the Additional GSM and WCDMA System Information.

Parameters

geoSysIdx	• System table index referencing the beginning of the geo in which the current serving system is present. • When the system index is not known, 0xFFFF is used.
cellBroadcast-Cap	• Cell broadcast capability of the serving system. • When the CDMA registration period is not valid, 0xFFFF is used. – NAS_CELL_BROADCAST_CAP_UNKNOWN - Cell broadcast support is unknown – NAS_CELL_BROADCAST_CAP_OFF - Cell broadcast is not supported – NAS_CELL_BROADCAST_CAP_ON - Cell broadcast is supported

8.58.2 Field Documentation

8.58.2.1 ULONG AddSysInfo::cellBroadcastCap

8.58.2.2 WORD AddSysInfo::geoSysIdx

8.59 airTimer Struct Reference

Data Fields

- BYTE namID
- ULONG airTimerValue

8.59.1 Detailed Description

This structure contains information about the Air Timer.

Parameters

namID	• Index of the NAM(Number Assignment Module) to be configured. • Range 0 to 3. • Some modems support only 1 or 2 NAMs. • 0xFF,if not available.
airTimerValue	• Time in minutes. • Cumulative air time is slammed. • 0xFFFFFFFF,if not available.

8.59.2 Field Documentation

8.59.2.1 ULONG airTimer::airTimerValue

8.59.2.2 BYTE airTimer::namID

8.60 allCallsAlphaIDInfo Struct Reference

Data Fields

- BYTE callID
- alphaIDInfo AlphaIDInfo

8.60.1 Detailed Description

This structure contains information for Alpha Identifier for All Calls

Parameters

callID	• Unique call identifier for the call.
AlphaIDInfo	• See alphaIDInfo for more information.

8.60.2 Field Documentation

8.60.2.1 alphaIDInfo allCallsAlphaIDInfo::AlphaIDInfo

8.60.2.2 BYTE allCallsAlphaIDInfo::callID

8.61 allCallsDiagInfo Struct Reference

Data Fields

- BYTE callID
- diagInfo DiagInfo

8.61.1 Detailed Description

This structure contains Diagnostic Information for All Calls

Parameters

callID	• Unique call identifier for the call.
DiagInfo	• See diagInfo for more information.

8.61.2 Field Documentation

8.61.2.1 BYTE allCallsDiagInfo::callID

8.61.2.2 diagInfo allCallsDiagInfo::DiagInfo

8.62 allCallsUUSInfo Struct Reference

Data Fields

- BYTE callID
- UUSInfo uusInfo

8.62.1 Detailed Description

This structure contains information for User to User Signaling Service for All Calls.

Parameters

callID	• Unique call identifier for the call.
uusInfo	• See UUSInfo for more information.

8.62.2 Field Documentation

8.62.2.1 BYTE allCallsUUSInfo::callID

8.62.2.2 UUSInfo allCallsUUSInfo::uusInfo

8.63 alphaIDInfo Struct Reference

Data Fields

- BYTE alphaDcs
- BYTE alphaLen
- BYTE alphaText [255]

8.63.1 Detailed Description

This structure contains information about the Alpha Identifier.

Parameters

alphaDcs	• Alpha coding scheme – 0x01 - GSM Default_Char – 0x02 - UCS2 – 0xFF - Not Available

alphaLen	• Number of sets of the following elements: – pAlpha_text • If zero(0) then no further information exists.
alphaText[MAX_-DESCRIPTION-_LENGTH]	• Data encoded as per the alpha_dcs

8.63.2 Field Documentation

8.63.2.1 BYTE alphaIDInfo::alphaDcs

8.63.2.2 BYTE alphaIDInfo::alphaLen

8.63.2.3 BYTE alphaIDInfo::alphaText[255]

8.64 altitudeSrcInfo Struct Reference

Data Fields

- ULONG source
- ULONG linkage
- ULONG coverage

8.64.1 Detailed Description

This structure specifies information regarding the altitude source

Parameters

source	• Specifies the source of the altitude • Valid values – 0 - Source is unknown – 1 - GPS is the source – 2 - Cell ID provided the source – 3 - Source is enhanced cell ID – 4 - Wi-Fi is the source – 5 - Terrestrial source – 6 - Hybrid terrestrial source – 7 - Altitude database is the source – 8 - Barometric altimeter is the source – 9 - Other sources

linkage	• Specifies the dependency between the horizontal and altitude position components • Valid values – 0 - Not specified – 1 - Fully interdependent – 2 - Depends on latitude and longitude – 3 - Fully independent
coverage	• Specifies the region of uncertainty. • Valid values – 0 - Not specified – 1 - Altitude uncertainty is valid at the injected horizontal position coordinates only – 2 - Altitude uncertainty applies to the position of the device regardless of horizontal position

8.64.2 Field Documentation

8.64.2.1 ULONG altitudeSrcInfo::coverage

8.64.2.2 ULONG altitudeSrcInfo::linkage

8.64.2.3 ULONG altitudeSrcInfo::source

8.65 altSrcInfo_t Struct Reference

Data Fields

- uint32_t source
- uint32_t linkage
- uint32_t coverage

8.65.1 Detailed Description

This structure specifies information regarding the altitude source

Parameters

source	• Specifies the source of the altitude • Valid values – 0 - Source is unknown – 1 - GPS is the source – 2 - Cell ID provided the source – 3 - Source is enhanced cell ID – 4 - Wi-Fi is the source – 5 - Terrestrial source – 6 - Hybrid terrestrial source – 7 - Altitude database is the source – 8 - Barometric altimeter is the source – 9 - Other sources

linkage	• Specifies the dependency between the horizontal and altitude position components • Valid values – 0 - Not specified – 1 - Fully interdependent – 2 - Depends on latitude and longitude – 3 - Fully independent
coverage	• Specifies the region of uncertainty. • Valid values – 0 - Not specified – 1 - Altitude uncertainty is valid at the injected horizontal position coordinates only – 2 - Altitude uncertainty applies to the position of the device regardless of horizontal position

8.65.2 Field Documentation

8.65.2.1 uint32_t altSrcInfo_t::coverage

8.65.2.2 uint32_t altSrcInfo_t::linkage

8.65.2.3 uint32_t altSrcInfo_t::source

8.66 appStats Struct Reference

Data Fields

- uint8_t appType
- uint8_t appState
- uint8_t persoState
- uint8_t persoFeature
- uint8_t persoRetries
- uint8_t persoUnblockRetries
- uint8_t aidLength
- uint8_t aidVal [255]
- uint8_t univPin
- uint8_t pin1State
- uint8_t pin1Retries
- uint8_t puk1Retries
- uint8_t pin2State
- uint8_t pin2Retries
- uint8_t puk2Retries

8.66.1 Detailed Description

This structure contains Application Status Information loaded on the card.

Parameters

appType	• Indicates the type of the application. – 0 - Unknown – 1 - SIM card – 2 - USIM application – 3 - RUIM card – 4 - CSIM application – 5 - ISIM application • Other values are reserved for the future and are to be handled as "Unknown".
appState	• Indicates the state of the application. – 0 - Unknown – 1 - Detected – 2 - PIN1 or UPIN is required – 3 - PUK1 or PUK for UPIN is required – 4 - Personalization state must be checked – 5 - PIN1 is blocked – 6 - Illegal – 7 - Ready
persoState	• Indicates the state of the personalization for the application. – 0 - Unknown – 1 - Personalization operation is in progress – 2 - Ready – 3 - Personalization code is required – 4 - PUK for personalization code is required – 5 - Permanently blocked
persoFeature	• Indicates the personalization feature. • This applies only when a personalization code is required to deactivate or unblock personalization. – 0 - GW network personalization – 1 - GW network subset personalization – 2 - GW service provider personalization – 3 - GW corporate personalization – 4 - GW UIM personalization – 5 - 1X network type 1 personalization – 6 - 1X network type 2 personalization – 7 - 1X HRPD personalization – 8 - 1X service provider personalization – 9 - 1X corporate personalization – 10 - 1X RUIM personalization – 11 - Unknown
persoRetries	• Indicates the number of retries remaining to disable the personalization.

persoUnblock-Retries	• Indicates the number of retries remaining to unblock the personalization.
aidLength	• Number of sets of the following elements. i.e. aidVal • If zero(0) then no aidVal information exists.
aidVal[MAX_DE-SCRIPTION_LE-NGTH]	• Application identifier value.
univPin	• Indicates whether UPIN replaces PIN1. – 0 - PIN1 is used – 1 - UPIN replaces PIN1
pin1State	• Indicates the state of PIN1. – 0 - Unknown – 1 - Enabled and not verified – 2 - Enabled and verified – 3 - Disabled – 4 - Blocked – 5 - Permanently blocked
pin1Retries	• Indicates the number of retries remaining to verify PIN1.
puk1Retries	• Indicates the number of retries remaining to unblock PIN1.
pin2State	• Indicates the state of PIN2. – 0 - Unknown – 1 - Enabled and not verified – 2 - Enabled and verified – 3 - Disabled – 4 - Blocked – 5 - Permanently blocked
pin2Retries	• Indicates the number of retries remaining to verify PIN2.
puk2Retries	• Indicates the number of retries remaining to unblock PIN2.

8.66.2 Field Documentation

8.66.2.1 uint8_t appStats::aidLength

8.66.2.2 uint8_t appStats::aidVal[255]

8.66.2.3 uint8_t appStats::appState

8.66.2.4 uint8_t appStats::appType

8.66.2.5 uint8_t appStats::persoFeature

8.66.2.6 uint8_t appStats::persoRetries

8.66.2.7 uint8_t appStats::persoState

8.66.2.8 uint8_t appStats::persoUnblockRetries

8.66.2.9 uint8_t appStats::pin1Retries

8.66.2.10 uint8_t appStats::pin1State

8.66.2.11 uint8_t appStats::pin2Retries

8.66.2.12 uint8_t appStats::pin2State

8.66.2.13 uint8_t appStats::puk1Retries

8.66.2.14 uint8_t appStats::puk2Retries

8.66.2.15 uint8_t appStats::univPin

8.67 appStatus Struct Reference

Data Fields

- BYTE appType
- BYTE appState
- BYTE persoState
- BYTE persoFeature
- BYTE persoRetries
- BYTE persoUnblockRetries
- BYTE aidLength
- BYTE aidVal [255]
- BYTE univPin
- BYTE pin1State
- BYTE pin1Retries
- BYTE puk1Retries
- BYTE pin2State
- BYTE pin2Retries
- BYTE puk2Retries

8.67.1 Detailed Description

This structure contains Application Status Information loaded on the card.

Parameters

appType	• Indicates the type of the application. – 0 - Unknown – 1 - SIM card – 2 - USIM application – 3 - RUIM card – 4 - CSIM application – 5 - ISIM application • Other values are reserved for the future and are to be handled as "Unknown".
appState	• Indicates the state of the application. – 0 - Unknown – 1 - Detected – 2 - PIN1 or UPIN is required – 3 - PUK1 or PUK for UPIN is required – 4 - Personalization state must be checked – 5 - PIN1 is blocked – 6 - Illegal – 7 - Ready
persoState	• Indicates the state of the personalization for the application. – 0 - Unknown – 1 - Personalization operation is in progress – 2 - Ready – 3 - Personalization code is required – 4 - PUK for personalization code is required – 5 - Permanently blocked
persoFeature	• Indicates the personalization feature. • This applies only when a personalization code is required to deactivate or unblock personalization. – 0 - GW network personalization – 1 - GW network subset personalization – 2 - GW service provider personalization – 3 - GW corporate personalization – 4 - GW UIM personalization – 5 - 1X network type 1 personalization – 6 - 1X network type 2 personalization – 7 - 1X HRPD personalization – 8 - 1X service provider personalization – 9 - 1X corporate personalization – 10 - 1X RUIM personalization – 11 - Unknown
persoRetries	• Indicates the number of retries remaining to disable the personalization.

persoUnblock-Retries	• Indicates the number of retries remaining to unblock the personalization.
aidLength	• Number of sets of the following elements. i.e. aidVal • If zero(0) then no aidVal information exists.
aidVal[MAX_DE-SCRIPTION_LE-NGTH]	• Application identifier value.
univPin	• Indicates whether UPIN replaces PIN1. – 0 - PIN1 is used – 1 - UPIN replaces PIN1
pin1State	• Indicates the state of PIN1. – 0 - Unknown – 1 - Enabled and not verified – 2 - Enabled and verified – 3 - Disabled – 4 - Blocked – 5 - Permanently blocked
pin1Retries	• Indicates the number of retries remaining to verify PIN1.
puk1Retries	• Indicates the number of retries remaining to unblock PIN1.
pin2State	• Indicates the state of PIN2. – 0 - Unknown – 1 - Enabled and not verified – 2 - Enabled and verified – 3 - Disabled – 4 - Blocked – 5 - Permanently blocked
pin2Retries	• Indicates the number of retries remaining to verify PIN2.
puk2Retries	• Indicates the number of retries remaining to unblock PIN2.

8.67.2 Field Documentation

8.67.2.1 BYTE appStatus::aidLength

8.67.2.2 BYTE appStatus::aidVal[255]

8.67.2.3 BYTE appStatus::appState

8.67.2.4 BYTE appStatus::appType

8.67.2.5 BYTE appStatus::persoFeature

8.67.2.6 BYTE appStatus::persoRetries

8.67.2.7 BYTE appStatus::persoState

8.67.2.8 BYTE appStatus::persoUnblockRetries

8.67.2.9 BYTE appStatus::pin1Retries

8.67.2.10 BYTE appStatus::pin1State

8.67.2.11 BYTE appStatus::pin2Retries

8.67.2.12 BYTE appStatus::pin2State

8.67.2.13 BYTE appStatus::puk1Retries

8.67.2.14 BYTE appStatus::puk2Retries

8.67.2.15 BYTE appStatus::univPin

8.68 arrAlertingPattern Struct Reference

Data Fields

- BYTE numInstances
- BYTE callID [20]
- ULONG alertingPattern [20]

8.68.1 Detailed Description

This structure contains an array of Alerting Pattern.

Parameters

numInstances	• Number of callID, alertingPattern that follow. • If zero(0) then no further information exists.
callID[MAX_NO_OF_CALLS]	• Array of Unique call identifier for the call.
alertingPattern[MAX_NO_OF_CALLS]	• Array of Alerting pattern. – 0x00 - QMI_VOICE_ALERTING_PATTERN_1 - Pattern 1 – 0x01 - QMI_VOICE_ALERTING_PATTERN_2 - Pattern 2 – 0x02 - QMI_VOICE_ALERTING_PATTERN_3 - Pattern 3 – 0x04 - QMI_VOICE_ALERTING_PATTERN_5 - Pattern 5 – 0x05 - QMI_VOICE_ALERTING_PATTERN_6 - Pattern 6 – 0x06 - QMI_VOICE_ALERTING_PATTERN_7 - Pattern 7 – 0x07 - QMI_VOICE_ALERTING_PATTERN_8 - Pattern 8 – 0x08 - QMI_VOICE_ALERTING_PATTERN_9 - Pattern 9

8.68.2 Field Documentation

8.68.2.1 ULONG arrAlertingPattern::alertingPattern[20]

8.68.2.2 BYTE arrAlertingPattern::callID[20]

8.68.2.3 BYTE arrAlertingPattern::numInstances

8.69 arrAlertingType Struct Reference

Data Fields

- BYTE numInstances
- BYTE callID [20]
- BYTE AlertingType [20]

8.69.1 Detailed Description

This structure contains an array of Alerting Type.

Parameters

numInstances	• Number of callID, AlertingType that follow. • If zero(0) then no further information exists.
callID[MAX_NO_OF_CALLS]	• Array of Unique call identifier for the call.

AlertingType[MAX_NO_OF_CALLS]	• Array of Alerting type. – 0x00 - ALERTING_LOCAL - Local – 0x01 - ALERTING_REMOTE - Remote

8.69.2 Field Documentation

8.69.2.1 BYTE arrAlertingType::AlertingType[20]

8.69.2.2 BYTE arrAlertingType::callID[20]

8.69.2.3 BYTE arrAlertingType::numInstances

8.70 arrAlphaID Struct Reference

Data Fields

- BYTE numInstances
- allCallsAlphaIDInfo allCallsAlphaIDInfoArr [20]

8.70.1 Detailed Description

This structure contains an array of Alpha ID Info

Parameters

numInstances	• Number of allCallsAlphaIDInfo that follow. • If zero(0) then no further information exists.
allCallsAlphaIDInfo[MAX_NO_OF_CALLS]	• Array of allCallsAlphaIDInfo. • See allCallsAlphaIDInfo for more information.

8.70.2 Field Documentation

8.70.2.1 allCallsAlphaIDInfo arrAlphaID::allCallsAlphaIDInfoArr[20]

8.70.2.2 BYTE arrAlphaID::numInstances

8.71 arrCalledPartyNum Struct Reference

Data Fields

- BYTE numInstances
- peerNumberInfo CalledPartyNum [20]

8.71.1 Detailed Description

This structure contains an array of Called Party Numbers consisting of information of all the numbers which have been called from the device.

Parameters

numInstances	• Number of calledPartyNum that follow. • If zero(0) then no further information exists.
CalledPartyNum[MAX_NO_OF_CALLS]	• Array of CalledPartyNum. • See peerNumberInfo for more information.

8.71.2 Field Documentation

8.71.2.1 peerNumberInfo arrCalledPartyNum::CalledPartyNum[20]

8.71.2.2 BYTE arrCalledPartyNum::numInstances

8.72 arrCallEndReason Struct Reference

Data Fields

- BYTE numInstances
- BYTE callID [20]
- WORD callEndReason [20]

8.72.1 Detailed Description

This structure contains an array of Call End Reasons.

Parameters

numInstances	• Number of callID, callEndReason that follow. • If zero(0) then no further information exists.
callID[MAX_NO_OF_CALLS]	• Array of Unique call identifier for the call.
callEndReason[MAX_NO_OF_CALLS]	• Array of Call End Reason . • See Table9 qaGobiApiTableVoiceCallEndReasons.h for a list of valid voice-related call end reasons

8.72.2 Field Documentation

8.72.2.1 WORD arrCallEndReason::callEndReason[20]

8.72.2.2 BYTE arrCallEndReason::callID[20]

8.72.2.3 BYTE arrCallEndReason::numInstances

8.73 arrCallInfo Struct Reference

Data Fields

- BYTE numInstances
- getAllCallInformation getAllCallInfo [20]

8.73.1 Detailed Description

This structure contains an array of Call Info

Parameters

numInstances	• Number of getAllCallInfo that follow. • If zero(0) then no further information exists.
getAllCallInfo[MAX_NO_OF_CALLS]	• Array of CallInfo. • See getAllCallInfo for more information.

8.73.2 Field Documentation

8.73.2.1 getAllCallInformation arrCallInfo::getAllCallInfo[20]

8.73.2.2 BYTE arrCallInfo::numInstances

8.74 arrConnectPartyNum Struct Reference

Data Fields

- BYTE numInstances
- peerNumberInfo ConnectedPartyNum [20]

8.74.1 Detailed Description

This structure contains an array of Connected Party Numbers consisting of information regarding all the devices connected.

Parameters

numInstances	• Number of ConnectedPartyNum that follow. • If zero(0) then no further information exists.
ConnectedPartyNum[MAX_NO_OF_CALLS]	• Array of ConnectedPartyNum. • See peerNumberInfo for more information.

8.74.2 Field Documentation

8.74.2.1 peerNumberInfo arrConnectPartyNum::ConnectedPartyNum[20]

8.74.2.2 BYTE arrConnectPartyNum::numInstances

8.75 arrDiagInfo Struct Reference

Data Fields

- BYTE numInstances
- allCallsDiagInfo DiagInfo [20]

8.75.1 Detailed Description

This structure contains an array of Diagnostic Information.

Parameters

numInstances	• Number of DiagInfo that follow. • If zero(0) then no further information exists.
DiagInfo[MAX_-NO_OF_CALLS]	• Array of DiagInfo. • See allCallsDiagInfo for more information.

8.75.2 Field Documentation

8.75.2.1 allCallsDiagInfo arrDiagInfo::DiagInfo[20]

8.75.2.2 BYTE arrDiagInfo::numInstances

8.76 arrRedirPartyNum Struct Reference

Data Fields

- BYTE numInstances
- peerNumberInfo RedirPartyNum [20]

8.76.1 Detailed Description

This structure contains an array of Redirecting Party Numbers consisting of information of all the numbers which have been redirected from the device.

Parameters

numInstances	• Number of redirPartyNum that follow. • If zero(0) then no further information exists.

RedirPartyNum[MAX_NO_OF_CALLS]	• Array of RedirPartyNum. • See peerNumberInfo for more information.

8.76.2 Field Documentation

8.76.2.1 BYTE arrRedirPartyNum::numInstances

8.76.2.2 peerNumberInfo arrRedirPartyNum::RedirPartyNum[20]

8.77 arrRemotePartyName Struct Reference

Data Fields

- BYTE numInstances
- getAllCallRmtPtyName GetAllCallRmtPtyName [20]

8.77.1 Detailed Description

This structure contains an array of Remote Party Names

Parameters

numInstances	• Number of remotePartyName that follow. • If zero(0) then no further information exists.
GetAllCallRmtPtyName[MAX_NO_OF_CALLS]	• Array of remotePartyName. • See getAllCallRmtPtyName for more information.

8.77.2 Field Documentation

8.77.2.1 getAllCallRmtPtyName arrRemotePartyName::GetAllCallRmtPtyName[20]

8.77.2.2 BYTE arrRemotePartyName::numInstances

8.78 arrRemotePartyNum Struct Reference

Data Fields

- BYTE numInstances
- getAllCallRmtPtyNum RmtPtyNum [20]

8.78.1 Detailed Description

This structure contains an array of Remote Party Numbers

Parameters

numInstances	• Number of remotePartyNum that follow. • If zero(0) then no further information exists.
RmtPtyNum[MAX_NO_OF_CALLS]	• Array of remotePartyNum. • See getAllCallRmtPtyNum for more information.

8.78.2 Field Documentation

8.78.2.1 BYTE arrRemotePartyNum::numInstances

8.78.2.2 getAllCallRmtPtyNum arrRemotePartyNum::RmtPtyNum[20]

8.79 arrSvcOption Struct Reference

Data Fields

- BYTE numInstances
- BYTE callID [20]
- WORD srvOption [20]

8.79.1 Detailed Description

This structure contains array an of Servicing option.

Parameters

numInstances	• Number of callID, srvOption that follow. • If zero(0) then no further information exists.
callID[MAX_NO_OF_CALLS]	• Array of Unique call identifier for the call.
srvOption[MAX_NO_OF_CALLS]	• Array of Service option. • See Table9 qaGobiApiTableServiceOptions.h for standard service option number assignments.

8.79.2 Field Documentation

8.79.2.1 BYTE arrSvcOption::callID[20]

8.79.2.2 BYTE arrSvcOption::numInstances

8.79.2.3 WORD arrSvcOption::srvOption[20]

8.80 arrUUSInfo Struct Reference

Data Fields

- BYTE numInstances
- allCallsUUSInfo AllCallsUUSInfo [20]

8.80.1 Detailed Description

This structure contains an array of User to User Signaling Service Information

Parameters

numInstances	• Number of allCallsUUSInfo that follow. • If zero(0) then no further information exists.
AllCallsUUS-Info[MAX_NO_-OF_CALLS]	• Array of allCallsUUSInfo. • See allCallsUUSInfo for more information.

8.80.2 Field Documentation

8.80.2.1 allCallsUUSInfo arrUUSInfo::AllCallsUUSInfo[20]

8.80.2.2 BYTE arrUUSInfo::numInstances

8.81 authenticateResult Struct Reference

Data Fields

- WORD contentLen
- BYTE content [1024]

8.81.1 Detailed Description

This structure contains the information about the authenticate result.

Parameters

contentLen	• Length of the following elements i.e. content.
content[MAX_C-ONTENT_LEN-GTH]	• Authenticate data. • This value is a sequence of bytes returned from the card.

8.81.2 Field Documentation

8.81.2.1 BYTE authenticateResult::content[1024]

8.81.2.2 WORD authenticateResult::contentLen

8.82 authenticationData Struct Reference

Data Fields

- BYTE context
- WORD dataLen
- BYTE data [1024]

8.82.1 Detailed Description

This structure contains the Session Information.

Parameters

context	• Authenticate context. – 0 - Runs the GSM algorithm (valid only on a 2GSIM card) – 1 - Runs the CAVE algorithm (valid only on a RUIM card) – 2 - GSM security context (valid only on a USIM application) – 3 - 3G security context (valid only on a USIM application) – 4 - VGCS/VBS security context (valid only on aUSIM application) – 5 - GBA security context, Bootstrapping mode (valid only on a USIM or ISIM application) – 6 - GBA security context, NAF Derivation mode (valid only on a USIM or ISIM application) – 7 - MBMS security context, MSK Update mode (valid only on a USIM application) – 8 - MBMS security context, MTK Generation mode (valid only on a USIM application) – 9 - MBMS security context, MSK Deletion mode (valid only on a USIM application) – 10 - MBMS security context, MUK Deletion mode (valid only on a USIM application) – 11 - IMS AKA security context (valid only on aISIM application) – 12 - HTTP-digest security context (valid only onan ISIM application) – 13 - Compute IP authentication, CHAP (valid onlyon RUIM or CSIM) – 14 - Compute IP authentication, MN-HA authenticator (valid only on RUIM or CSIM) – 15 - Compute IP authentication, MIP-RRQ hash (valid only on RUIM or CSIM) – 16 - Compute IP authentication, MN-AAA authenticator (valid only on RUIM or CSIM) – 17 - Compute IP authentication, HRPD access authenticator (valid only on RUIM or CSIM) • Other values are possible and reserved for future use.
dataLen	• Length of the following elements i.e. data.
data[MAX_DESCRIPTION_LENGTH]	• Authenticate Data.

8.82.2 Field Documentation

8.82.2.1 BYTE authenticationData::context

8.82.2.2 BYTE authenticationData::data[1024]

8.82.2.3 WORD authenticationData::dataLen

8.83 BandCapabilityResp Struct Reference

Data Fields

- ULONGLONG bandCapability
- ULONGLONG * pLteBandCapability
- ULONGLONG * pTdsBandCapability

8.83.1 Detailed Description

This structure contains the TLV required to Get Band Capability.

Parameters

bandCapability[-OUT]	Bitmask of bands supported by the device • Bit 0 - Band class 0, A-system • Bit 1 - Band class 0, B-system • Bit 2 - Band class 1, all blocks • Bit 3 - Band class 2 • Bit 4 - Band class 3, A-system • Bit 5 - Band class 4, all blocks • Bit 6 - Band class 5, all blocks • Bit 7 - GSM DCS band (1800) • Bit 8 - GSM Extended GSM (E-GSM) band (900) • Bit 9 - GSM Primary GSM (P-GSM) band (900) • Bit 10 - Band class 6 • Bit 11 - Band class 7 • Bit 12 - Band class 8 • Bit 13 - Band class 9 • Bit 14 - Band class 10 • Bit 15 - Band class 11 • Bit 16 - GSM 450 band • Bit 17 - GSM 480 band • Bit 18 - GSM 750 band • Bit 19 - GSM 850 band • Bit 20 - GSM railways GSM band (900) • Bit 21 - GSM PCS band (1900) • Bit 22 - WCDMA (Europe, Japan, and China) 2100 band • Bit 23 - WCDMA US PCS 1900 band • Bit 24 - WCDMA (Europe and China) DCS 1800 band • Bit 25 - WCDMA US 1700 band • Bit 26 - WCDMA US 850 band • Bit 27 - WCDMA Japan 800 band • Bit 28 - Band class 12 • Bit 29 - Band class 14 • Bit 30 - Reserved • Bit 31 - Band class 15 • Bits 32 through 47 - Reserved • Bit 48 - WCDMA Europe 2600 band • Bit 49 - WCDMA Europe and Japan 900 band • Bit 50 - WCDMA Japan 1700 band • Bits 51 through 55 - Reserved • Bit 56 - Band class 16 • Bit 57 - Band class 17 • Bit 58 - Band class 18 • Bit 59 - Band class 19 • Bit 60 - WCDMA Japan 850 band • Bit 61 - WCDMA 1500 band • Bits 62 and 63 - Reserved

OUT]	pLteBandCapability[OUT] Bitmask of LTE bands supported by the device • Bit 0 - LTE EUTRAN Band 1 UL:1920-1980; DL: 2110-2170 • Bit 1 - LTE EUTRAN Band 2 UL:1850-1910; DL: 1930-1990 • Bit 2 - LTE EUTRAN Band 3 UL:1710-1785; DL: 1805-1880 • Bit 3 - LTE EUTRAN Band 4 UL:1710-1755; DL: 2110-2155 • Bit 4 - LTE EUTRAN Band 5 UL: 824-849; DL: 869-894 • Bit 5 - LTE EUTRAN Band 6 UL: 830-840; DL: 875-885 • Bit 6 - LTE EUTRAN Band 7 UL:2500-2570; DL: 2620-2690 • Bit 7 - LTE EUTRAN Band 8 UL: 880-915; DL: 925-960 • Bit 8 - LTE EUTRAN Band 9 UL:1749.9-1784.9; DL: 1844.9-1879.9 • Bit 9 - LTE EUTRAN Band 10 UL:1710-1770; DL: 2110-2170 • Bit 10 - LTE EUTRAN Band 11 UL:1427.9-1452.9; DL: 1475.9-1500.9 • Bit 11 - LTE EUTRAN Band 12 UL:698-716; DL: 728-746 • Bit 12 - LTE EUTRAN Band 13 UL: 777-787; DL: 746-756 • Bit 13 - LTE EUTRAN Band 14 UL: 788-798; DL: 758-768 • Bits 14 and 15 - Reserved • Bit 16 - LTE EUTRAN Band 17 UL: 704-716; DL: 734-746 • Bit 17 - LTE EUTRAN Band 18 UL: 815-830; DL: 860-875 • Bit 18 - LTE EUTRAN Band 19 UL: 830-845; DL: 875-890 • Bit 19 - LTE EUTRAN Band 20 UL: 832-862; DL: 791-821 • Bit 20 - LTE EUTRAN Band 21 UL: 1447.9-1462.9; DL: 1495.9-1510.9 • Bit 21 - Reserved • Bit 22 - LTE EUTRAN Band 23 UL: 2000-2020; DL: 2180-2200 • Bit 23 - LTE EUTRAN Band 24 UL: 1626.5-1660.5; DL: 1525-1559 • Bit 24 - LTE EUTRAN Band 25 UL: 1850-1915; DL: 1930-1995 • Bit 25 - LTE EUTRAN Band 26 UL: 814-849; DL: 859-894 • Bit 26 - Reserved • Bit 27 - LTE EUTRAN Band 28 UL: 703-748; DL: 758-803 • Bit 28 - LTE EUTRAN Band 29 UL: 1850-1910 or 1710-1755; DL: 716-728 • Bit 29 - LTE EUTRAN Band 30 UL: 2350-2360; DL: 2305-2315 • Bit 30 - Reserved • Bit 31 - LTE EUTRAN Band 32 DL: 9920-10359 • Bit 32 - LTE EUTRAN Band 33 UL: 1900-1920; DL: 1900-1920 • Bit 33 - LTE EUTRAN Band 34 UL: 2010-2025; DL: 2010-2025 • Bit 34 - LTE EUTRAN Band 35 UL: 1850-1910; DL: 1850-1910 • Bit 35 - LTE EUTRAN Band 36 UL: 1930-1990; DL: 1930-1990 • Bit 36 - LTE EUTRAN Band 37 UL: 1910-1930; DL: 1910-1930 • Bit 37 - LTE EUTRAN Band 38 UL: 2570-2620; DL: 2570-2620 • Bit 38 - LTE EUTRAN Band 39 UL: 1880-1920; DL: 1880-1920 • Bit 39 - LTE EUTRAN Band 40 UL: 2300-2400; DL: 2300-2400 • Bit 40 - LTE EUTRAN Band 41 UL: 2496-2690; DL: 2496-2690 • Bit 41 - LTE EUTRAN Band 42 UL: 3400-3600; DL: 3400-3600 • Bit 42 - LTE EUTRAN Band 43 UL: 3600-3800; DL: 3600-3800 • Bits 43 through 64 - Reserved

OUT]	pTdsBandCapability[OUT] Bitmask of TDS bands supported by the device. • Bit 0 - TDS Band A 1900 to 1920 MHz, 2010 to 2020 MHz • Bit 1 - TDS Band B 1850 to 1910 MHz, 1930 to 1990 MHz • Bit 2 - TDS Band C 1910 to 1930 MHz • Bit 3 - TDS Band D 2570 to 2620 MHz • Bit 4 - TDS Band E 2300 to 2400 MHz • Bit 5 - TDS Band F 1880 to 1920 MHz

8.83.2 Field Documentation

8.83.2.1 ULONGLONG BandCapabilityResp::bandCapability

8.83.2.2 ULONGLONG* BandCapabilityResp::pLteBandCapability

8.83.2.3 ULONGLONG* BandCapabilityResp::pTdsBandCapability

8.84 BdsSV Struct Reference

Data Fields

- WORD id
- BYTE mask

8.84.1 Detailed Description

This structure contains the BDS SV Info

Parameters

id	• SV ID of the satellite whose data is to be deleted. – Range for BDS: 201 to 237
mask	• Indicates if the ephemeris or almanac for a satellite is to be deleted • Valid values: – QMI_LOC_MASK_DELETE_EPHEMERIS (0x01) - Delete ephemeris for the satellite – QMI_LOC_MASK_DELETE_ALMANAC (0x02) - Delete almanac for the satellite

8.84.2 Field Documentation

8.84.2.1 WORD BdsSV::id

8.84.2.2 BYTE BdsSV::mask

8.85 BdsSVInfo Struct Reference

Data Fields

- BYTE len
- BdsSV * pSV

8.85.1 Detailed Description

This structure contains the number of sets of the BDS SVN Info

Parameters

len	• Number of sets of the following elements: – gnssSvId – deleteSvInfoMask
pSV	• Pointer to struct BdsSV. See BdsSV for more information

8.85.2 Field Documentation

8.85.2.1 BYTE BdsSVInfo::len

8.85.2.2 BdsSV* BdsSVInfo::pSV

8.86 BroadcastConfig Struct Reference

Data Fields

- WORD fromServiceId
- WORD toServiceId
- BYTE selected

8.86.1 Detailed Description

This structure contains BroadcastConfig parameters

Parameters

fromServiceId	• Starting point of range of CBM message identifiers
toServiceId	• Ending point of range of CBM message identifiers
selected	• Range of CBM message identifiers indicated by from_service_id and to_service_id – 0x00 – Not selected – 0x01 – Selected

8.86.2 Field Documentation

8.86.2.1 WORD BroadcastConfig::fromServiceId

8.86.2.2 BYTE BroadcastConfig::selected

8.86.2.3 WORD BroadcastConfig::toServiceId

8.87 burstDTMFInfo Struct Reference

Data Fields

- BYTE * pCallID
- BYTE digitCnt
- BYTE pDigitBuff [255]

8.87.1 Detailed Description

This structure contains Voice Burst DTMF Information

Parameters

pCallID[IN/OUT]	• Call ID associated with call on which the DTMF information has to be sent. A burst DTMF request is sent to the current active/alerting call when pCallId is set to 0xFF. • This is IN/OUT parameter, value passed by user will be packed in request and value received from the device would be returned to the user. • If the call ID value received is 0, no value has been returned by the device
digitCnt	• Length of DTMF digit buffer which follows
pDigitBuff[MAX_DESCRIPTION_LENGTH]	• DTMF digit buffer in ASCII, NULL terminated

8.87.2 Field Documentation

8.87.2.1 BYTE burstDTMFInfo::digitCnt

8.87.2.2 BYTE* burstDTMFInfo::pCallID

8.87.2.3 BYTE burstDTMFInfo::pDigitBuff[255]

8.88 CallBarringSysInfo Struct Reference

Data Fields

- ULONG csBarStatus
- ULONG psBarStatus

8.88.1 Detailed Description

Structure for storing the GSM and WCDMA Call Barring System Information.

Parameters

csBarStatus	• Call barring status for circuit-switched calls. – NAS_CELL_ACCESS_NORMAL_ONLY - Cell access is allowed for normal calls only – NAS_CELL_ACCESS_EMERGENCY_ONLY - Cell access is allowed for emergency calls only – NAS_CELL_ACCESS_NO_CALLS - Cell access is not allowed for any call type – NAS_CELL_ACCESS_ALL_CALLS - Cell access is allowed for all call types – NAS_CELL_ACCESS_UNKNOWN - Cell access type is unknown
psBarStatus	• Call barring status for packet-switched calls. – NAS_CELL_ACCESS_NORMAL_ONLY - Cell access is allowed for normal calls only – NAS_CELL_ACCESS_EMERGENCY_ONLY - Cell access is allowed for emergency calls only – NAS_CELL_ACCESS_NO_CALLS - Cell access is not allowed for any call type – NAS_CELL_ACCESS_ALL_CALLS - Cell access is allowed for all call types – NAS_CELL_ACCESS_UNKNOWN - Cell access type is unknown

8.88.2 Field Documentation

8.88.2.1 ULONG CallBarringSysInfo::csBarStatus

8.88.2.2 ULONG CallBarringSysInfo::psBarStatus

8.89 callBarStatus Struct Reference

Data Fields

- ULONG csBarStatus
- ULONG psBarStatus

8.89.1 Detailed Description

This structure contains Call Barring Status.

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

csBarStatus	• Call Barring Status for circuit-switched calls. • Values: • NAS_CELL_ACCESS_NORMAL_ONLY - Cell access is allowed for normal calls only • NAS_CELL_ACCESS_EMERGENCY_ONLY - Cell access is allowed for emergency calls only • NAS_CELL_ACCESS_NO_CALLS - Cell access is not allowed for any call type • NAS_CELL_ACCESS_ALL_CALLS - Cell access is allowed for all call types • NAS_CELL_ACCESS_UNKNOWN - Cell access type is unknown
psBarStatus	• Call Barring Status for packet-switched calls. • Values: – NAS_CELL_ACCESS_NORMAL_ONLY - Cell access is allowed for normal calls only – NAS_CELL_ACCESS_EMERGENCY_ONLY - Cell access is allowed for emergency calls only – NAS_CELL_ACCESS_NO_CALLS - Cell access is not allowed for any call type – NAS_CELL_ACCESS_ALL_CALLS - Cell access is allowed for all call types – NAS_CELL_ACCESS_UNKNOWN - Cell access type is unknown

8.89.2 Field Documentation

8.89.2.1 ULONG callBarStatus::csBarStatus

8.89.2.2 ULONG callBarStatus::psBarStatus

8.90 calledPartyInfo Struct Reference

Data Fields

- BYTE PI
- BYTE SI
- BYTE numType
- BYTE numPlan
- BYTE numLen
- BYTE number [255]

8.90.1 Detailed Description

This structure contains Called party Number Information

Parameters

PI	• Presentation indicator; refer to [S1, Table 2.7.4.4-1] for valid values.
SI	• Number of sets of following elements – Caller Id

SI	• Number screening indicator. • Values: – 0x00 - QMI_VOICE_SI_USER_PROVIDED_NOT_SCREENED - Provided user is not screened – 0x01 - QMI_VOICE_SI_USER_PROVIDED_VERIFIED_PASSED - Provided user passed verification – 0x02 - QMI_VOICE_SI_USER_PROVIDED_VERIFIED_FAILED - Provided user failed verification – 0x03 - QMI_VOICE_SI_NETWORK_PROVIDED - Provided network
numType	• Number type. • Values: – 0x00 - QMI_VOICE_NUM_TYPE_UNKNOWN - Unknown – 0x01 - QMI_VOICE_NUM_TYPE_INTERNATIONAL - International – 0x02 - QMI_VOICE_NUM_TYPE_NATIONAL - National – 0x03 - QMI_VOICE_NUM_TYPE_NETWORK_SPECIFIC - Network-specific – 0x04 - QMI_VOICE_NUM_TYPE_SUBSCRIBER - Subscriber – 0x05 - QMI_VOICE_NUM_TYPE_RESERVED - Reserved – 0x06 - QMI_VOICE_NUM_TYPE_ABBREVIATED - Abbreviated – 0x07 - QMI_VOICE_NUM_TYPE_RESERVED_EXTENSION - Reserved extension
numPlan	• Number plan. • Values: – 0x00 - QMI_VOICE_NUM_PLAN_UNKNOWN - Unknown – 0x01 - QMI_VOICE_NUM_PLAN_ISDN - ISDN – 0x03 - QMI_VOICE_NUM_PLAN_DATA - Data – 0x04 - QMI_VOICE_NUM_PLAN_TELEX - Telex – 0x08 - QMI_VOICE_NUM_PLAN_NATIONAL - National – 0x09 - QMI_VOICE_NUM_PLAN_PRIVATE - Private – 0x0B - QMI_VOICE_NUM_PLAN_RESERVED_CTS - Reserved cordless telephony system – 0x0F - QMI_VOICE_NUM_PLAN_RESERVED_EXTENSION - Reserved extension
numLen	• Provides the length of number which follow.
number[255]	• number of numLen length, NULL terminated.

8.90.2 Field Documentation

8.90.2.1 BYTE calledPartyInfo::number[255]

8.90.2.2 BYTE calledPartyInfo::numLen

8.90.2.3 BYTE calledPartyInfo::numPlan

8.90.2.4 BYTE calledPartyInfo::numType

8.90.2.5 BYTE calledPartyInfo::PI

8.90.2.6 BYTE calledPartyInfo::SI

8.91 calledPartySubAdd Struct Reference

Data Fields

- BYTE extBit
- BYTE subAddrType
- BYTE oddEvenInd
- BYTE subAddrLen
- BYTE subAddr [255]

8.91.1 Detailed Description

This structure contains information about the Called Sub Party Addresses.

Parameters

extBit	• Extension bit.
subAddrType	• Subaddress type. – 0x00 - NSAP – 0x01 - USER
oddEvenInd	• Even/odd indicator. – 0x00 - Even number of address signals – 0x01 - Odd number of address signals
subAddrLen	• Number of sets of the following elements: – SubAddress
subAddr[MAX_-DESCRIPTION-_LENGTH]	• Array of the SubAddress in BCD number format.

8.91.2 Field Documentation

8.91.2.1 BYTE calledPartySubAdd::extBit

8.91.2.2 BYTE calledPartySubAdd::oddEvenInd

8.91.2.3 BYTE calledPartySubAdd::subAddr[255]

8.91.2.4 BYTE calledPartySubAdd::subAddrLen

8.91.2.5 BYTE calledPartySubAdd::subAddrType

8.92 callerIDInfo Struct Reference

Data Fields

- BYTE PI
- BYTE callerIDLen
- BYTE callerID [255]

8.92.1 Detailed Description

This structure contains Caller ID Information

Parameters

PI	• Presentation indicator; refer to [S1, Table 2.7.4.4-1] for valid values.
callerIDLen	• Number of sets of following elements – Caller Id
pCallerID	• Caller ID in ASCII string.

8.92.2 Field Documentation

8.92.2.1 BYTE callerIDInfo::callerID[255]

8.92.2.2 BYTE callerIDInfo::callerIDLen

8.92.2.3 BYTE callerIDInfo::PI

8.93 callFwdTypeAndPlan Struct Reference

Data Fields

- BYTE numberType
- BYTE numberPlan

8.93.1 Detailed Description

This structure contains Supplementary Service request parameters related to different features and their activation, deactivation, registration and erasure (applicable only for 3GPP)

Parameters

numberType	• Call forwarding number type – 0x00 - QMI_VOICE_NUM_TYPE_UNKNOWN Unknown – 0x01 - QMI_VOICE_NUM_TYPE_INTERNATIONAL International – 0x02 - QMI_VOICE_NUM_TYPE_NATIONAL National – 0x03 - QMI_VOICE_NUM_TYPE_NETWORK_SPECIFIC Network-specific – 0x04 - QMI_VOICE_NUM_TYPE_SUBSCRIBER Subscriber – 0x05 - QMI_VOICE_NUM_TYPE_RESERVED Reserved – 0x06 - QMI_VOICE_NUM_TYPE_ABBREVIATED Abbreviated – 0x07 - QMI_VOICE_NUM_TYPE_RESERVED_EXTENSION Reserved extension
numberPlan	• Call forwarding number plan – 0x00 - QMI_VOICE_NUM_PLAN_UNKNOWN Unknown – 0x01 - QMI_VOICE_NUM_PLAN_ISDN ISDN – 0x03 - QMI_VOICE_NUM_PLAN_DATA Data – 0x04 - QMI_VOICE_NUM_PLAN_TELEX Telex – 0x08 - QMI_VOICE_NUM_PLAN_NATIONAL National – 0x09 - QMI_VOICE_NUM_PLAN_PRIVATE Private – 0x0B - QMI_VOICE_NUM_PLAN_RESERVED_CTS Reserved cordless telephony system – 0x0F - QMI_VOICE_NUM_PLAN_RESERVED_EXTENSION Reserved extension

8.93.2 Field Documentation

8.93.2.1 BYTE callFwdTypeAndPlan::numberPlan

8.93.2.2 BYTE callFwdTypeAndPlan::numberType

8.94 callFWExtInfo Struct Reference

Data Fields

- BYTE SvcStatus
- BYTE SvcClass
- BYTE noReplyTimer
- BYTE PI
- BYTE SI
- BYTE numType
- BYTE numPlan
- BYTE numLen
- BYTE number [255]

8.94.1 Detailed Description

This structure contains information for Get Call Forwarding Extended Information.

Parameters

SvcStatus	• Service status. Values: – 0x00 - SERVICE_STATUS_INACTIVE - Inactive – 0x01 - SERVICE_STATUS_ACTIVE - Active
SvcClass	• Service Class is a combination (sum) of information class constants • See qaGobiApiTableSupServiceInfoClasses.h for service classes.
noReplyTimer	• No reply timer value in seconds • A value of 0 indicates that no_reply_timer is ignored.
PI	• Presentation indicator; refer to [S1, Table 2.7.4.4-1] for valid values.
SI	• Number screening indicator. • Values: – 0x00 - QMI_VOICE_SI_USER_PROVIDED_NOT_SCREENED - Provided user is not screened – 0x01 - QMI_VOICE_SI_USER_PROVIDED_VERIFIED_PASSED - Provided user passed verification – 0x02 - QMI_VOICE_SI_USER_PROVIDED_VERIFIED_FAILED - Provided user failed verification – 0x03 - QMI_VOICE_SI_NETWORK_PROVIDED - Provided network
numType	• Number type. • Values: – 0x00 - QMI_VOICE_NUM_TYPE_UNKNOWN - Unknown – 0x01 - QMI_VOICE_NUM_TYPE_INTERNATIONAL - International – 0x02 - QMI_VOICE_NUM_TYPE_NATIONAL - National – 0x03 - QMI_VOICE_NUM_TYPE_NETWORK_SPECIFIC - Network-specific – 0x04 - QMI_VOICE_NUM_TYPE_SUBSCRIBER - Subscriber – 0x05 - QMI_VOICE_NUM_TYPE_RESERVED - Reserved – 0x06 - QMI_VOICE_NUM_TYPE_ABBREVIATED - Abbreviated – 0x07 - QMI_VOICE_NUM_TYPE_RESERVED_EXTENSION - Reserved extension
numPlan	• Number plan. • Values: – 0x00 - QMI_VOICE_NUM_PLAN_UNKNOWN - Unknown – 0x01 - QMI_VOICE_NUM_PLAN_ISDN - ISDN – 0x03 - QMI_VOICE_NUM_PLAN_DATA - Data – 0x04 - QMI_VOICE_NUM_PLAN_TELEX - Telex – 0x08 - QMI_VOICE_NUM_PLAN_NATIONAL - National – 0x09 - QMI_VOICE_NUM_PLAN_PRIVATE - Private – 0x0B - QMI_VOICE_NUM_PLAN_RESERVED_CTS - Reserved cordless telephony system – 0x0F - QMI_VOICE_NUM_PLAN_RESERVED_EXTENSION - Reserved extension

numLen	• Provides the length of number which follow.
number[255]	• number of numLen length, NULL terminated.

8.94.2 Field Documentation

8.94.2.1 BYTE callFWExtInfo::noReplyTimer

8.94.2.2 BYTE callFWExtInfo::number[255]

8.94.2.3 BYTE callFWExtInfo::numLen

8.94.2.4 BYTE callFWExtInfo::numPlan

8.94.2.5 BYTE callFWExtInfo::numType

8.94.2.6 BYTE callFWExtInfo::PI

8.94.2.7 BYTE callFWExtInfo::SI

8.94.2.8 BYTE callFWExtInfo::SvcClass

8.94.2.9 BYTE callFWExtInfo::SvcStatus

8.95 callFWInfo Struct Reference

Data Fields

- BYTE SvcStatus
- BYTE SvcClass
- BYTE numLen
- BYTE number [255]
- BYTE noReplyTimer

8.95.1 Detailed Description

This structure contains information for Get Call Forwarding Information.

Parameters

SvcStatus	• Service status. Values: – 0x00 - SERVICE_STATUS_INACTIVE - Inactive – 0x01 - SERVICE_STATUS_ACTIVE - Active
SvcClass	• Service Class is a combination (sum) of information class constants • See qaGobiApiTableSupServiceInfoClasses.h for service classes.

numLen	• Provides the length of number which follow.
number[255]	• number of numLen length, NULL terminated.
noReplyTimer	• No reply timer value in seconds • A value of 0 indicates that noReplyTimer is ignored.

8.95.2 Field Documentation

8.95.2.1 BYTE callFWInfo::noReplyTimer

8.95.2.2 BYTE callFWInfo::number[255]

8.95.2.3 BYTE callFWInfo::numLen

8.95.2.4 BYTE callFWInfo::SvcClass

8.95.2.5 BYTE callFWInfo::SvcStatus

8.96 callInfo Struct Reference

Data Fields

- BYTE callID
- BYTE callState
- BYTE callType
- BYTE direction
- BYTE mode

8.96.1 Detailed Description

This structure contains Information about call state changes. For example, when an incoming call is received, this structure is populated and indicate the incoming call information. When this incoming call is answered, the call status changes from INCOMING to CONVERSATION, which means a change in the call information and this structure is populated again with the changes and notified to/retrived by the user.

Parameters

callID	• Call identifier for the call queried for information. • If zero(0) then invalid.
callState	• Call state. – 0x01 - CALL_STATE_ORIGINATION - Origination – 0x02 - CALL_STATE_INCOMING - Incoming – 0x03 - CALL_STATE_CONVERSATION - Conversation – 0x04 - CALL_STATE_CC_IN_PROGRESS - Call is originating but waiting for call control to complete – 0x05 - CALL_STATE_ALERTING - Alerting – 0x06 - CALL_STATE_HOLD - Hold – 0x07 - CALL_STATE_WAITING - Waiting – 0x08 - CALL_STATE_DISCONNECTING - Disconnecting – 0x09 - CALL_STATE_END - End – 0x0A - CALL_STATE_SETUP - MT call is in Setup state in 3GPP – 0xFF - Not Available
callType	• Call type. – 0x00 - CALL_TYPE_VOICE - Voice – 0x02 - CALL_TYPE_VOICE_IP - Voice over IP – 0x06 - CALL_TYPE_OTAPA - OTAPA – 0x07 - CALL_TYPE_STD_OTASP - Standard OTASP – 0x08 - CALL_TYPE_NON_STD_OTASP - Nonstandard OTASP – 0x09 - CALL_TYPE_EMERGENCY - Emergency – 0xFF - Not Available
direction	• Direction. – 0x01 - CALL_DIRECTION_MO - MO call – 0x02 - CALL_DIRECTION_MT - MT call – 0xFF - Not Available
mode	• Mode. • If the mode field is "0x01 - CDMA",the optional Service Option, Voice Privacy, and OTASP Status (only for OTASP calls) TLVs are included in the response. – 0x01 - CALL_MODE_CDMA - CDMA – 0x02 - CALL_MODE_GSM - GSM – 0x03 - CALL_MODE_UMTS - UMTS – 0x04 - CALL_MODE_LTE - LTE – 0x05 - CALL_MODE_TDS - TD-SCDMA – 0xFF - Not Available

8.96.2 Field Documentation

8.96.2.1 BYTE callInfo::callID

8.96.2.2 BYTE callInfo::callState

8.96.2.3 BYTE callInfo::callType

8.96.2.4 BYTE callInfo::direction

8.96.2.5 BYTE callInfo::mode

8.97 callingPartyInfo Struct Reference

Data Fields

- BYTE PI
- BYTE SI
- BYTE numType
- BYTE numPlan
- BYTE numLen
- BYTE number [255]

8.97.1 Detailed Description

This structure contains Calling party Number Information

Parameters

PI	• Presentation indicator; refer to [S1, Table 2.7.4.4-1] for valid values.
SI	• Number of sets of following elements – Caller Id
SI	• Number screening indicator. • Values: – 0x00 - QMI_VOICE_SI_USER_PROVIDED_NOT_SCREENED - Provided user is not screened – 0x01 - QMI_VOICE_SI_USER_PROVIDED_VERIFIED_PASSED - Provided user passed verification – 0x02 - QMI_VOICE_SI_USER_PROVIDED_VERIFIED_FAILED - Provided user failed verification – 0x03 - QMI_VOICE_SI_NETWORK_PROVIDED - Provided network

numType	• Number type. • Values: – 0x00 - QMI_VOICE_NUM_TYPE_UNKNOWN - Unknown – 0x01 - QMI_VOICE_NUM_TYPE_INTERNATIONAL - International – 0x02 - QMI_VOICE_NUM_TYPE_NATIONAL - National – 0x03 - QMI_VOICE_NUM_TYPE_NETWORK_SPECIFIC - Network-specific – 0x04 - QMI_VOICE_NUM_TYPE_SUBSCRIBER - Subscriber – 0x05 - QMI_VOICE_NUM_TYPE_RESERVED - Reserved – 0x06 - QMI_VOICE_NUM_TYPE_ABBREVIATED - Abbreviated – 0x07 - QMI_VOICE_NUM_TYPE_RESERVED_EXTENSION - Reserved extension
numPlan	• Number plan. • Values: – 0x00 - QMI_VOICE_NUM_PLAN_UNKNOWN - Unknown – 0x01 - QMI_VOICE_NUM_PLAN_ISDN - ISDN – 0x03 - QMI_VOICE_NUM_PLAN_DATA - Data – 0x04 - QMI_VOICE_NUM_PLAN_TELEX - Telex – 0x08 - QMI_VOICE_NUM_PLAN_NATIONAL - National – 0x09 - QMI_VOICE_NUM_PLAN_PRIVATE - Private – 0x0B - QMI_VOICE_NUM_PLAN_RESERVED_CTS - Reserved cordless telephony system – 0x0F - QMI_VOICE_NUM_PLAN_RESERVED_EXTENSION - Reserved extension
numLen	• Provides the length of number which follow.
number[255]	• number of numLen length, NULL terminated.

8.97.2 Field Documentation

8.97.2.1 BYTE callingPartyInfo::number[255]

8.97.2.2 BYTE callingPartyInfo::numLen

8.97.2.3 BYTE callingPartyInfo::numPlan

8.97.2.4 BYTE callingPartyInfo::numType

8.97.2.5 BYTE callingPartyInfo::PI

8.97.2.6 BYTE callingPartyInfo::SI

8.98 cardResult Struct Reference

Data Fields

- BYTE sw1

- BYTE sw2

8.98.1 Detailed Description

This structure contains the information about the card result.

Parameters

sw1	• SW1 received from the card.
sw2	• SW2 received from the card.

8.98.2 Field Documentation

8.98.2.1 BYTE cardResult::sw1

8.98.2.2 BYTE cardResult::sw2

8.99 cardStatus Struct Reference

Data Fields

- WORD indexGwPri
- WORD index1xPri
- WORD indexGwSec
- WORD index1xSec
- BYTE numSlot
- slotInfo SlotInfo [5]

8.99.1 Detailed Description

This structure contains Card Status Information.

Parameters

indexGwPri	• Index of the primary GW provisioning application. • The most significant byte indicates the slot (starting from 0), while the least significant byte indicates the application for that slot (starting from 0). • The value 0xFFFF identifies when the session does not exist.
index1xPri	• Index of the primary 1X provisioning application. • The most significant byte indicates the slot (starting from 0), while the least significant byte indicates the application for that slot (starting from 0). • The value 0xFFFF identifies when the session does not exist.

indexGwSec	• Index of the secondary GW provisioning application. • The most significant byte indicates the slot (starting from 0), while the least significant byte indicates the application for that slot (starting from 0). • The value 0xFFFF identifies when the session does not exist.
index1xSec	• Index of the secondary GW provisioning application. • The most significant byte indicates the slot (starting from 0), while the least significant byte indicates the application for that slot (starting from 0). • The value 0xFFFF identifies when the session does not exist.
numSlot	• Indicates the number of slots available on the device. • The following block is repeated for each slot. i.e. cardState • If zero(0) then no cardState information exists.
SlotInfo[MAX_NO_OF_SLOTS]	• See slotInfo for more information.

8.99.2 Field Documentation

8.99.2.1 WORD cardStatus::index1xPri

8.99.2.2 WORD cardStatus::index1xSec

8.99.2.3 WORD cardStatus::indexGwPri

8.99.2.4 WORD cardStatus::indexGwSec

8.99.2.5 BYTE cardStatus::numSlot

8.99.2.6 slotInfo cardStatus::SlotInfo[5]

8.100 CarrierImage_t Struct Reference

Data Fields

- uint32_t m_nCarrierId
- uint32_t m_nFolderId
- uint32_t m_nStorage
- uint8_t m_FwImageId [16]
- uint8_t m_FwBuildId [32]
- uint8_t m_PriImageId [16]
- uint8_t m_PriBuildId [32]

8.100.1 Detailed Description

This structure contains the Carrier Image parameters.

Parameters

m_nCarrierId	• Unique numeric carrier ID indicating the carrier that the following images belong to
m_nFolderId	• Unique numeric folder ID indicating the folder where the images should reside on the host storage.
m_nStorage	• Information of storage type • Values – 0 - Device – 1 - Host
m_FwImageId	• Firmware image ID
m_FwBuildId	• Firmware build ID
m_PriImageId	• PRI image ID
m_PriBuildId	• PRI build ID

8.100.2 Field Documentation

8.100.2.1 uint8_t CarrierImage_t::m_FwBuildId[32]

8.100.2.2 uint8_t CarrierImage_t::m_FwImageId[16]

8.100.2.3 uint32_t CarrierImage_t::m_nCarrierId

8.100.2.4 uint32_t CarrierImage_t::m_nFolderId

8.100.2.5 uint32_t CarrierImage_t::m_nStorage

8.100.2.6 uint8_t CarrierImage_t::m_PriBuildId[32]

8.100.2.7 uint8_t CarrierImage_t::m_PriImageId[16]

8.101 CatAlPhaIdentifierTlv Struct Reference

Data Fields

- BYTE ReferenceID
- USHORT AlphaIDLength
- BYTE AlphaID [255]

8.101.1 Detailed Description

structure used to store all Alpha Identifier parameters.

Parameters

ReferenceID	- proactive command type that included the alpha identifier – 0x01; sends SMS proactive command
AlphaIDLength	- length of AlphaID (in bytes)
AlphaID	- alpha identifier, encoded as in ETSI TS 102 223 [Section 8.2]

8.101.2 Field Documentation

8.101.2.1 BYTE CatAlPhaIdentifierTlv::AlphaID[255]

8.101.2.2 USHORT CatAlPhaIdentifierTlv::AlphaIDLength

8.101.2.3 BYTE CatAlPhaIdentifierTlv::ReferenceID

8.102 CatCommonEventTlv Struct Reference

Data Fields

- BYTE TlvPresent
- BYTE EventID
- WORD EventLength
- union currentCatEvent CatEvent

8.102.1 Field Documentation

8.102.1.1 union currentCatEvent CatCommonEventTlv::CatEvent

8.102.1.2 BYTE CatCommonEventTlv::EventID

8.102.1.3 WORD CatCommonEventTlv::EventLength

8.102.1.4 BYTE CatCommonEventTlv::TlvPresent

8.103 CatEndProactiveSessionTlv Struct Reference

Data Fields

- BYTE EndProactiveSession

8.103.1 Detailed Description

structure used to store End Proactive Session event parameters.

Parameters

EndProactive-Session	- The proactive session end type values are: • 0x01 – End proactive session command type received from the card • 0x02 – End proactive session internal to ME

8.103.2 Field Documentation

8.103.2.1 BYTE CatEndProactiveSessionTlv::EndProactiveSession

8.104 CATEventDataType Struct Reference

Data Fields

- ULONG eventMask
- ULONG * pErrorMask

8.104.1 Field Documentation

8.104.1.1 ULONG CATEventDataType::eventMask

8.104.1.2 ULONG* CATEventDataType::pErrorMask

8.105 CatEventIDDataTlv Struct Reference

Data Fields

- ULONG ReferenceID
- USHORT DataLength
- BYTE Data [255]

8.105.1 Detailed Description

structure used to store all Common CAT Event parameters.

Parameters

ReferenceID	- proactive command reference ID.
DataLength	- length of pData (in Bytes)
Data	- command specific to the CAT event ID, encoded as in ETSI TS 102 223 [Section 6.6.X]

8.105.2 Field Documentation

8.105.2.1 BYTE CatEventIDDataTlv::Data[255]

8.105.2.2 USHORT CatEventIDDataTlv::DataLength

8.105.2.3 ULONG CatEventIDDataTlv::ReferenceID

8.106 CatEventListTlv Struct Reference

Data Fields

- ULONG SetupEventList

8.106.1 Detailed Description

structure used to store all Event List parameters.

Parameters

SetupEventList	- Setup event list bit mask • 0x00000001 – User Activity Notify • 0x00000002 – Idle Screen Available • 0x00000004 – Lang Selection Notify Each set bit indicates the availability of the corresponding event in Setup Event list proactive command; all unlisted bits are reserved for future use and will be ignored

8.106.2 Field Documentation

8.106.2.1 ULONG CatEventListTlv::SetupEventList

8.107 CatRefreshTlv Struct Reference

Data Fields

- USHORT RefreshMode
- BYTE RefreshStage

8.107.1 Detailed Description

structure used to store all Refresh Event parameters.

Parameters

RefreshMode	- The Refresh Event as in ETSI TS 102 223 [Section 8.6]
RefreshStage	- Stage of a refresh procedure • 0x01 – Refresh start • 0x02 – Refresh success • 0x03 – Refresh failed

8.107.2 Field Documentation

8.107.2.1 USHORT CatRefreshTlv::RefreshMode

8.107.2.2 BYTE CatRefreshTlv::RefreshStage

8.108 ccSUPSType Struct Reference

Data Fields

- BYTE svcType
- BYTE reason

8.108.1 Detailed Description

This structure contains information about the Call Control Supplementary Service Types

Parameters

svcType	• Service type. – 0x01 - VOICE_CC_SUPS_RESULT_SERVICE_TYPE_ACTIVATE - Activate – 0x02 - VOICE_CC_SUPS_RESULT_SERVICE_TYPE_DEACTIVATE - Deactivate – 0x03 - VOICE_CC_SUPS_RESULT_SERVICE_TYPE_REGISTER - Register – 0x04 - VOICE_CC_SUPS_RESULT_SERVICE_TYPE_ERASE - Erase – 0x05 - VOICE_CC_SUPS_RESULT_SERVICE_TYPE_INTERROGATE - Interrogate – 0x06 - VOICE_CC_SUPS_RESULT_SERVICE_TYPE_REGISTER_PASSWORD - Register password – 0x07 - VOICE_CC_SUPS_RESULT_SERVICE_TYPE_USSD - USSD – 0xFF - Not Available
reason	• Call control supplementary service result reason • Values: – See qaGobiApiTableCallControlReturnReasons.h for return reasons.

8.108.2 Field Documentation

8.108.2.1 BYTE ccSUPSType::reason

8.108.2.2 BYTE ccSUPSType::svcType

8.109 CDMABroadcastConfig Struct Reference

Data Fields

- WORD serviceCategory
- WORD language
- BYTE selected

8.109.1 Detailed Description

This structure contains CDMABroadcastConfig parameters

Parameters

serviceCategory	• Service category
language	• Language

selected	• Specified service_category and language – 0x00 – Not selected – 0x01 – Selected

8.109.2 Field Documentation

8.109.2.1 WORD CDMABroadcastConfig::language

8.109.2.2 BYTE CDMABroadcastConfig::selected

8.109.2.3 WORD CDMABroadcastConfig::serviceCategory

8.110 CDMAChannel Struct Reference

Data Fields

- WORD priChA
- WORD priChB
- WORD secChA
- WORD secChB

8.110.1 Detailed Description

This structure contains the parameters for CDMA Channel Information

Parameters

priChA	• A Channel number for the primary carrier. – 0xFFFF - Not Available
priChB	• B Channel number for the primary carrier. – 0xFFFF - Not Available
secChA	• A Channel number for the secondary carrier. – 0xFFFF - Not Available
secChB	• B Channel number for the secondary carrier. – 0xFFFF - Not Available

8.110.2 Field Documentation

8.110.2.1 WORD CDMAChannel::priChA

8.110.2.2 WORD CDMAChannel::priChB

8.110.2.3 WORD CDMAChannel::secChA

8.110.2.4 WORD CDMAChannel::secChB

8.111 CDMAECIOThresh Struct Reference

Data Fields

- BYTE CDMAECIOThreshListLen
- WORD * pCDMAECIOThreshList

8.111.1 Detailed Description

This structure contains CDMA ECIO threshold related parameters.

Parameters

CDMAECIO-ThreshListLen	• Length of the CDMA ECIO threshold list parameter to follow
pCDMAECIO-ThreshList	• Array of ECIO thresholds (in units of 0.1 dB) • Maximum of 32 values. Range for ECIO values: -31.5 to 0 (in dB)

8.111.2 Field Documentation

8.111.2.1 BYTE CDMAECIOThresh::CDMAECIOThreshListLen

8.111.2.2 WORD* CDMAECIOThresh::pCDMAECIOThreshList

8.112 CDMAInfo Struct Reference

Data Fields

- WORD sid
- WORD nid
- WORD baseId
- WORD refpn
- ULONG baseLat
- ULONG baseLong

8.112.1 Detailed Description

This structure contains information about the CDMA Network.

Parameters

sid	• System ID. – 0xFFFF - Not Available

nid	• Network ID. – 0xFFFF - Not Available
baseId	• Base station ID. – 0xFFFF - Not Available
refpn	• Reference PN. – 0xFFFF - Not Available
baseLat	• Latitude of the current base station in units of 0.25 sec. – 0xFFFFFFFF - Not Available
baseLong	• Longitude of the current base station in units of 0.25 sec. – 0xFFFFFFFF - Not Available

8.112.2 Field Documentation

8.112.2.1 WORD CDMAInfo::baseId

8.112.2.2 ULONG CDMAInfo::baseLat

8.112.2.3 ULONG CDMAInfo::baseLong

8.112.2.4 WORD CDMAInfo::nid

8.112.2.5 WORD CDMAInfo::refpn

8.112.2.6 WORD CDMAInfo::sid

8.113 cdmaMsgDecodingParams Struct Reference

Data Fields

- ULONG messageLength
- BYTE * pMessage
- ULONG * pMessageID
- BYTE * pSenderAddrLength
- CHAR * pSenderAddr
- BYTE * pTextMsgLength
- WORD * pTextMsg
- BYTE * pPriority
- BYTE * pPrivacy
- BYTE * pLanguage
- BYTE mcTimeStamp [0x08]
- BYTE absoluteValidity [0x08]
- BYTE * pRelativeValidity

- BYTE * pDisplayMode
- BOOL * pUserAcknowledgementReq
- BOOL * pReadAcknowledgementReq
- BYTE * pAlertPriority
- BYTE * pCallbkAddrLength
- CHAR * pCallbkAddr

8.113.1 Detailed Description

Structure contains parameters which need to be decoded from message

Parameters

messageLength[IN]	• Length of the message to be decoded in bytes
pMessage[IN]	• Message read off the device via GetSMS
pSenderAddrLength[IN/OUT]	• Upon input, indicates the maximum number of ASCII characters (including NULL termination) that the pSenderAddr buffer can accommodate. Note that a length of 14 is reasonable.Upon successful output, returns the length of originating address string (including the NULL termination)
pSenderAddr[OUT]	• Returns NULL-terminated ASCII String containing the originating address.International number will be prepended with a '+'character
pTextMsgLength[IN/OUT]	• Upon input, specifies the number of UCS2 characters the given text message buffer can accommodate.Upon successful output, returns the number of UCS2 characters returns in the given text messagebuffer(including NULL-terminator)
pTextMsg[OUT]	• Returns the text message as NULL-terminated UCS2 string
pPriority[OUT]	(optional parameter) • Returns the priority setting of the message 0x00 - normal 0x01 - interactive 0x02 - urgent 0x03 - emergency 0xFF - unavailable setting
pPrivacy[OUT](optional	parameter) • Returns the privacy setting of the message 0x00 - not restricted 0x01 - restricted 0x02 - confidential 0x03 - secret 0xFF - unavailable setting
pLanguage[OUT]	(optional parameter) • Returns the language setting of the message 0x00 - unspecified 0x01 - english 0x02 - french 0x03 - spanish 0x04 - japanese 0x05 - korean 0x06 - chinese 0x07 - hebrew 0xFF - unavailable setting
mcTimeStamp[8][OUT]	(optional parameter) • Returns the message center timestamp which takes the form: YYMMDDHHMMSSTZ where YY - year MM - month DD - day HH - hour MM - minute SS - second TZ - timezone All values are in decimal. Timezone is in relation to GMT, one unit is equal to 15 minutes and MSB indicates a negative value.If this information is unavailable for message then this field will be filled with 0xFF

absolute-Validity[8][OUT]	(optional parameter) • Returns the absolute validity period setting for this message.This field takes the same form as mcTimeStamp
pRelative-Validity[OUT]	(optional parameter) • Returns the relative validity period.Values have the following meanings: 0 to 143: validity period =(value + 1)∗ 5 minutes 144 to 167: validity period =12 hours+(value - 143)∗30 minutes 168 to 196: validity period = (value - 166) ∗ 1 day 197 to 244: validity period = (value - 192) ∗ 1 week 245: validity period = indefinite 246: validity period = immediate 247: validity period = valid until mobile becomes inactive 248: validity period = valid until registration area changes 249 to 254: reserved 255: unavailable information
pDisplayMode[-OUT]	(optional parameter) • Returns the display mode parameter 0x00 - immediate display 0x01 - mobile default setting 0x02 - user invoked 0x03 - reserved 0xFF - unavailable parameter
pUser-Acknowledgement-Req[OUT]	(optional parameter) • Returns the user (manual) acknowledgment request parameter TRUE - means the user is requested to manually acknowledge the delivery of the message. FALSE - means no such user acknowledgement is requested
pRead-Acknowledgement-Req[OUT]	(optional parameter) • Returns the read acknowledgement request parameter TRUE - means acknowledgment of the message being viewed is requested. FALSE - means no such read acknowledgement is requested
pAlertPriority[O-UT]	(optional parameter) • Returns the alerting parameter setting 0x00 - use default alert 0x01 - use low priority alert 0x02 - use medium priority alert 0x03 - use high priority alert 0xFF - unavailable parameter
pCallbkAddr-Length[OUT]	(optional parameter) • returns the length of Callback address string (including the NULL termination)
pCallbkAddr[OU-T]	(optional parameter) • returns NULL-terminated ASCII String containing callback address String containing the Call Back number with a 32 maximum characters.

8.113.2 Field Documentation

8.113.2.1 BYTE cdmaMsgDecodingParams::absoluteValidity[0x08]

8.113.2.2 BYTE cdmaMsgDecodingParams::mcTimeStamp[0x08]

8.113.2.3 ULONG cdmaMsgDecodingParams::messageLength

8.113.2.4 BYTE∗ cdmaMsgDecodingParams::pAlertPriority

8.113.2.5 CHAR∗ cdmaMsgDecodingParams::pCallbkAddr

8.113.2.6 BYTE∗ cdmaMsgDecodingParams::pCallbkAddrLength

8.113.2.7 BYTE∗ cdmaMsgDecodingParams::pDisplayMode

8.113.2.8 BYTE* cdmaMsgDecodingParams::pLanguage

8.113.2.9 BYTE* cdmaMsgDecodingParams::pMessage

8.113.2.10 ULONG* cdmaMsgDecodingParams::pMessageID

8.113.2.11 BYTE* cdmaMsgDecodingParams::pPriority

8.113.2.12 BYTE* cdmaMsgDecodingParams::pPrivacy

8.113.2.13 BOOL* cdmaMsgDecodingParams::pReadAcknowledgementReq

8.113.2.14 BYTE* cdmaMsgDecodingParams::pRelativeValidity

8.113.2.15 CHAR* cdmaMsgDecodingParams::pSenderAddr

8.113.2.16 BYTE* cdmaMsgDecodingParams::pSenderAddrLength

8.113.2.17 WORD* cdmaMsgDecodingParams::pTextMsg

8.113.2.18 BYTE* cdmaMsgDecodingParams::pTextMsgLength

8.113.2.19 BOOL* cdmaMsgDecodingParams::pUserAcknowledgementReq

8.114 cdmaMsgDecodingParamsExt Struct Reference

Data Fields

- ULONG messageLength
- BYTE * pMessage
- ULONG * pMessageID
- BYTE * pSenderAddrLength
- CHAR * pSenderAddr
- BYTE * pTextMsgLength
- WORD * pTextMsg
- BYTE * pPriority
- BYTE * pPrivacy
- BYTE * pLanguage
- BYTE mcTimeStamp [0x08]
- BYTE absoluteValidity [0x08]
- BYTE * pRelativeValidity
- BYTE * pDisplayMode
- BOOL * pUserAcknowledgementReq
- BOOL * pReadAcknowledgementReq
- BYTE * pAlertPriority
- BYTE * pCallbkAddrLength
- CHAR * pCallbkAddr
- BYTE * pReferenceNum
- BYTE * pTotalNum
- BYTE * pPartNum
- BOOL * pIsUDHPresent

8.114.1 Detailed Description

Structure contains parameters which need to be decoded from message

Parameters

messageLength[IN]	• Length of the message to be decoded in bytes
pMessage[IN]	• Message read off the device via GetSMS
pSenderAddrLength[IN/OUT]	• Upon input, indicates the maximum number of ASCII characters (including NULL termination) that the pSenderAddr buffer can accommodate. Note that a length of 14 is reasonable.Upon successful output, returns the length of originating address string (including the NULL termination)
pSenderAddr[OUT]	• Returns NULL-terminated ASCII String containing the originating address.International number will be prepended with a '+'character
pTextMsgLength[IN/OUT]	• Upon input, specifies the number of UCS2 characters the given text message buffer can accommodate.Upon successful output, returns the number of UCS2 characters returns in the given text messagebuffer(including NULL-terminator)
pTextMsg[OUT]	• Returns the text message as NULL-terminated UCS2 string
pPriority[OUT]	(optional parameter) • Returns the priority setting of the message 0x00 - normal 0x01 - interactive 0x02 - urgent 0x03 - emergency 0xFF - unavailable setting
pPrivacy[OUT](optional	parameter) • Returns the privacy setting of the message 0x00 - not restricted 0x01 - restricted 0x02 - confidential 0x03 - secret 0xFF - unavailable setting
pLanguage[OUT]	(optional parameter) • Returns the language setting of the message 0x00 - unspecified 0x01 - english 0x02 - french 0x03 - spanish 0x04 - japanese 0x05 - korean 0x06 - chinese 0x07 - hebrew 0xFF - unavailable setting
mcTimeStamp[8][OUT]	(optional parameter) • Returns the message center timestamp which takes the form: YYMMDDHHMMSSTZ where YY - year MM - month DD - day HH - hour MM - minute SS - second TZ - timezone All values are in decimal. Timezone is in relation to GMT, one unit is equal to 15 minutes and MSB indicates a negative value.If this information is unavailable for message then this field will be filled with 0xFF
absoluteValidity[8][OUT]	(optional parameter) • Returns the absolute validity period setting for this message.This field takes the same form as mcTimeStamp

pRelative-Validity[OUT]	(optional parameter) • Returns the relative validity period.Values have the following meanings: 0 to 143: validity period =(value + 1)∗ 5 minutes 144 to 167: validity period =12 hours+(value - 143)∗30 minutes 168 to 196: validity period = (value - 166) ∗ 1 day 197 to 244: validity period = (value - 192) ∗ 1 week 245: validity period = indefinite 246: validity period = immediate 247: validity period = valid until mobile becomes inactive 248: validity period = valid until registration area changes 249 to 254: reserved 255: unavailable information
pDisplayMode[-OUT]	(optional parameter) • Returns the display mode parameter 0x00 - immediate display 0x01 - mobile default setting 0x02 - user invoked 0x03 - reserved 0xFF - unavailable parameter
pUser-Acknowledgement-Req[OUT]	(optional parameter) • Returns the user (manual) acknowledgment request parameter TRUE - means the user is requested to manually acknowledge the delivery of the message. FALSE - means no such user acknowledgement is requested
pRead-Acknowledgement-Req[OUT]	(optional parameter) • Returns the read acknowledgement request parameter TRUE - means acknowledgment of the message being viewed is requested. FALSE - means no such read acknowledgement is requested
pAlertPriority[O-UT]	(optional parameter) • Returns the alerting parameter setting 0x00 - use default alert 0x01 - use low priority alert 0x02 - use medium priority alert 0x03 - use high priority alert 0xFF - unavailable parameter
pCallbkAddr-Length[OUT]	(optional parameter) • returns the length of Callback address string (including the NULL termination)
pCallbkAddr[OU-T]	(optional parameter) • returns NULL-terminated ASCII String containing callback address String containing the Call Back number with a 32 maximum characters.
pReference-Num[OUT]	• Reference number of the sms
pTotalNum[OUT]	• Total number of the concatenated message
pPartNum[OUT]	• Sequence number of the current message
pIsUDHPresent	• Is User Data Header Present in the PDU? If yes, it means it is a • concatenated SMS.

8.114.2 Field Documentation

8.114.2.1 BYTE cdmaMsgDecodingParamsExt::absoluteValidity[0x08]

8.114.2.2 BYTE cdmaMsgDecodingParamsExt::mcTimeStamp[0x08]

8.114.2.3 ULONG cdmaMsgDecodingParamsExt::messageLength

8.114.2.4 BYTE* cdmaMsgDecodingParamsExt::pAlertPriority

8.114.2.5 CHAR* cdmaMsgDecodingParamsExt::pCallbkAddr

8.114.2.6 BYTE* cdmaMsgDecodingParamsExt::pCallbkAddrLength

8.114.2.7 BYTE* cdmaMsgDecodingParamsExt::pDisplayMode

8.114.2.8 BOOL* cdmaMsgDecodingParamsExt::pIsUDHPresent

8.114.2.9 BYTE* cdmaMsgDecodingParamsExt::pLanguage

8.114.2.10 BYTE* cdmaMsgDecodingParamsExt::pMessage

8.114.2.11 ULONG* cdmaMsgDecodingParamsExt::pMessageID

8.114.2.12 BYTE* cdmaMsgDecodingParamsExt::pPartNum

8.114.2.13 BYTE* cdmaMsgDecodingParamsExt::pPriority

8.114.2.14 BYTE* cdmaMsgDecodingParamsExt::pPrivacy

8.114.2.15 BOOL* cdmaMsgDecodingParamsExt::pReadAcknowledgementReq

8.114.2.16 BYTE* cdmaMsgDecodingParamsExt::pReferenceNum

8.114.2.17 BYTE* cdmaMsgDecodingParamsExt::pRelativeValidity

8.114.2.18 CHAR* cdmaMsgDecodingParamsExt::pSenderAddr

8.114.2.19 BYTE* cdmaMsgDecodingParamsExt::pSenderAddrLength

8.114.2.20 WORD* cdmaMsgDecodingParamsExt::pTextMsg

8.114.2.21 BYTE* cdmaMsgDecodingParamsExt::pTextMsgLength

8.114.2.22 BYTE* cdmaMsgDecodingParamsExt::pTotalNum

8.114.2.23 BOOL* cdmaMsgDecodingParamsExt::pUserAcknowledgementReq

8.115 cdmaMsgEncodingParams Struct Reference

Data Fields

- BYTE * pMessageSize
- BYTE * pMessage
- BYTE messageId
- CHAR * pDestAddr
- CHAR * pCallbackAddr
- ULONG textMsgLength
- WORD * pTextMsg
- BYTE * pPriority
- BYTE * pEncodingAlphabet
- BYTE * pRelValidity

8.115.1 Detailed Description

Structure contains parameters for message to be encoded

Parameters

pMessageSize[IN/OUT]	• Upon input, specifies the total number of bytes that the given pMessage buffer can hold (a buffer of length 240 is recommended).Upon successful output, specifies the length of the constructed message placed in the pMessage buffer (in bytes)
pMessage[OUT]	- The constructed raw message
messageId[IN]	• The message reference number for this message. This value should be incremented for every message the host application sends
pDestAddr[IN]	• Gives NULL-terminated ASCII String containing a destination address.International number will be prepended with a '+' character
pCallbackAddr[IN]	• Gives NULL-terminated ASCII String containing a callback address.International number will be prepended with a '+' character
textMsgLength[IN]	• Number of UCS2 characters in the text message(excluding NULL)
pTextMsg[IN]	• Text message to be encoded
pPriority[IN](optional	parameter) • Gives the priority of the outgoing message: 0 - normal (default if NULL pointer is given) 1 - interactive 2 - urgent 3 - emergency 64 - 64 is decoded value for URGENT VZAM Support interactive. 128 - 128 is decoded value for URGENT VZAM Support urgent. 192 - 128 is decoded value for URGENT VZAM Support emergency.
pEncodingAlphabet[IN/OUT](optional	parameter) • Upon input, specifies the alphabet the text message should be encoded in 0 - 8bit ASCII (not supported at this time) 1 - IS91EP (not supported at this time) 2 - 7bit ASCII (default if NULL pointer is given) 3 - IA5 (not supported at this time) 4 - unicode (not supported at this time) 5 - shift JIS (not supported at this time) 6 - korean (not supported at this time) 7 - latin hebrew (not supported at this time) 8 - latin (not supported at this time) 9 - GSM 7 bit default Upon successful output, specifies the alphabet used to encode the message.
pRelValidity[IN](optional	parameter) • Gives the relative validity period of the outgoing message 0 - Set Relative validity to 11 1 - Set Relative validity to 71 2 - Set Relative validity to 167 3 - Set Relative validity to 169 4 - Set Relative validity to 171 Values have the following meanings: 0 to 143: validity period = (value + 1)$*$ 5 minutes 144 to 167: validity period = 12 hours + (value - 143)$*$30 minutes 168 to 196: validity period = (value - 166) $*$ 1 day 197 to 244: validity period = (value - 192) $*$ 1 week 245: validity period = indefinite

Currently only encoding of 7bit ASCII messages is supported.

8.115.2 Field Documentation

8.115.2.1 BYTE cdmaMsgEncodingParams::messageId

8.115.2.2 CHAR* cdmaMsgEncodingParams::pCallbackAddr

8.115.2.3 CHAR* cdmaMsgEncodingParams::pDestAddr

8.115.2.4 BYTE* cdmaMsgEncodingParams::pEncodingAlphabet

8.115.2.5 BYTE* cdmaMsgEncodingParams::pMessage

8.115.2.6 BYTE* cdmaMsgEncodingParams::pMessageSize

8.115.2.7 BYTE* cdmaMsgEncodingParams::pPriority

8.115.2.8 BYTE* cdmaMsgEncodingParams::pRelValidity

8.115.2.9 WORD* cdmaMsgEncodingParams::pTextMsg

8.115.2.10 ULONG cdmaMsgEncodingParams::textMsgLength

8.116 CDMARSSIThresh Struct Reference

Data Fields

- BYTE CDMARSSIThreshListLen
- WORD * pCDMARSSIThreshList

8.116.1 Detailed Description

This structure contains CDMA RSSI threshold related parameters.

Parameters

CDMARSSI-ThreshListLen	• Length of the CDMARSSI threshold list parameter to follow
pCDMARSSI-ThreshList	• Array of RSSI thresholds (in units of 0.1 dBm) • maximum of 32 values. • Range for RSSI values:-105 to -21 (in dBm).

8.116.2 Field Documentation

8.116.2.1 BYTE CDMARSSIThresh::CDMARSSIThreshListLen

8.116.2.2 WORD* CDMARSSIThresh::pCDMARSSIThreshList

8.117 CDMASSInfo Struct Reference

Data Fields

- INT8 rssi
- SHORT ecio

8.117.1 Detailed Description

This structure contains the parameters for CDMA/WCDMA Signal Strength Information

Parameters

rssi	• RSSI in dBm (signed value). • A value of -125 dBm or lower is used to indicate No Signal.
ecio	• ECIO value representing negative 0.5 dBm increments, i.e., 2 means -1 dBm (14 means -7 dBm, 63 means -31.5 dBm).

8.117.2 Field Documentation

8.117.2.1 SHORT CDMASSInfo::ecio

8.117.2.2 INT8 CDMASSInfo::rssi

8.118 cdmaSSInfo Struct Reference

Data Fields

- int8_t rssi
- int16_t ecio

8.118.1 Detailed Description

This structure contains the parameters for CDMA/WCDMA Signal Strength Information

Parameters

rssi	• RSSI in dBm (signed value). • A value of -125 dBm or lower is used to indicate No Signal.
ecio	• ECIO value representing negative 0.5 dBm increments, i.e., 2 means -1 dBm (14 means -7 dBm, 63 means -31.5 dBm).

8.118.2 Field Documentation

8.118.2.1 int16_t cdmaSSInfo::ecio

8.118.2.2 int8_t cdmaSSInfo::rssi

8.119 CDMASysInfo Struct Reference

Data Fields

- sysInfoCommon sysInfoCDMA
- BYTE isSysPrlMatchValid
- BYTE isSysPrlMatch
- BYTE pRevInUseValid
- BYTE pRevInUse
- BYTE bsPRevValid
- BYTE bsPRev
- BYTE ccsSupportedValid
- BYTE ccsSupported
- BYTE cdmaSysIdValid
- WORD systemID
- WORD networkID
- BYTE bsInfoValid
- WORD baseId
- ULONG baseLat
- ULONG baseLong
- BYTE packetZoneValid
- WORD packetZone
- BYTE networkIdValid
- BYTE MCC [3]
- BYTE MNC [3]

8.119.1 Detailed Description

Structure for storing the CDMA System Information.

Parameters

sysInfoCDMA	• See sysInfoCommon for more information.
isSysPrlMatch-Valid	• Indicates whether the system PRL match is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
isSysPrlMatch	• Indicates whether the system is in a PRL. • Only applies to CDMA/HDR. – 0x00 - System is not in a PRL – 0x01 - System is in a PRL – 0xFF - Not Available • If the system is not in a PRL, roam_status carries the value from the default roaming indicator in the PRL. • If the system is in a PRL, roam_status is set to the value based on the standard specification.

pRevInUseValid	• Indicates whether the P_Rev in use is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
pRevInUse	• The lesser of the base station P_Rev and mobile P_Rev • Only applicable for CDMA. – 0xFF - Not Available
bsPRevValid	• Indicates whether the base station P_Rev is valid – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
bsPRev	• Base station P_Rev. • Only applicable for CDMA. – 0xFF - Not Available
ccsSupported-Valid	• Indicates whether the supported concurrent service is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
ccsSupported	• Whether concurrent service is supported. • Only applicable for CDMA. – 0x00 - Not supported – 0x01 - Supported – 0xFF - Not Available
cdmaSysIdValid	• Indicates whether the CDMA system ID is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
systemID	• System ID. – 0xFFFF - Not Available
networkID	• Network ID. – 0xFFFF - Not Available

bsInfoValid	• Indicates whether the base station information is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
baseLat	• Base station latitude in units of 0.25 sec. • Expressed as a two's complement signed number with positive numbers signifying North latitudes. – 0xFFFFFFFF - Not Available
baseLong	• Base station longitude in units of 0.25 sec. • Expressed as a two's complement signed number with positive numbers signifying East latitudes. – 0xFFFFFFFF - Not Available
packetZoneValid	• Indicates whether the packet zone is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
packetZone	• Packet zone (8-bit). – 0xFFFF indicates no packet zone. • Only applicable for CDMA.
networkIdValid	• Indicates whether the network ID is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
MCC[PLMN_LENGTH]	• Mobile Country Code. • MCC digits in ASCII characters • MCC wildcard value is returned as {'3', 0xFF, 0xFF}.
MNC[PLMN_LENGTH]	• Mobile Network Code. • MNC digits in ASCII characters • An unused byte is set to 0xFF. • MNC wildcard value is returned as {'7', 0xFF, 0xFF}.

8.119.2 Field Documentation

8.119.2.1 WORD CDMASysInfo::baseId

8.119.2.2 ULONG CDMASysInfo::baseLat

8.119.2.3 ULONG CDMASysInfo::baseLong

8.119.2.4 BYTE CDMASysInfo::bsInfoValid

8.119.2.5 BYTE CDMASysInfo::bsPRev

8.119.2.6 BYTE CDMASysInfo::bsPRevValid

8.119.2.7 BYTE CDMASysInfo::ccsSupported

8.119.2.8 BYTE CDMASysInfo::ccsSupportedValid

8.119.2.9 BYTE CDMASysInfo::cdmaSysIdValid

8.119.2.10 BYTE CDMASysInfo::isSysPrlMatch

8.119.2.11 BYTE CDMASysInfo::isSysPrlMatchValid

8.119.2.12 BYTE CDMASysInfo::MCC[3]

8.119.2.13 BYTE CDMASysInfo::MNC[3]

8.119.2.14 WORD CDMASysInfo::networkID

8.119.2.15 BYTE CDMASysInfo::networkIdValid

8.119.2.16 WORD CDMASysInfo::packetZone

8.119.2.17 BYTE CDMASysInfo::packetZoneValid

8.119.2.18 BYTE CDMASysInfo::pRevInUse

8.119.2.19 BYTE CDMASysInfo::pRevInUseValid

8.119.2.20 sysInfoCommon CDMASysInfo::sysInfoCDMA

8.119.2.21 WORD CDMASysInfo::systemID

8.120 CDMASysInfoExt Struct Reference

Data Fields

- WORD MCC
- BYTE imsi_11_12

8.120.1 Detailed Description

This structure contains CDMA system information extension

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

MCC	• Mobile Country Code
imsi_11_12	• IMSI_11_12

8.120.2 Field Documentation

8.120.2.1 BYTE CDMASysInfoExt::imsi_11_12

8.120.2.2 WORD CDMASysInfoExt::MCC

8.121 CellDb Struct Reference

Data Fields

- ULONG mask

8.121.1 Detailed Description

This structure contains the cell database

Parameters

mask	• Mask for the cell database assistance data that is to be deleted • Valid values: – 0x00000001 - DELETE_CELLDB_POS – 0x00000002 - DELETE_CELLDB_LATEST_GPS_POS – 0x00000004 - DELETE_CELLDB_OTA_POS – 0x00000008 - DELETE_CELLDB_EXT_REF_POS – 0x00000010 - DELETE_CELLDB_TIMETAG – 0x00000020 - DELETE_CELLDB_CELLID – 0x00000040 - DELETE_CELLDB_CACHED_CELLID – 0x00000080 - DELETE_CELLDB_LAST_SRV_CELL – 0x00000100 - DELETE_CELLDB_CUR_SRV_CELL – 0x00000200 - DELETE_CELLDB_NEIGHBOR_INFO

8.121.2 Field Documentation

8.121.2.1 ULONG CellDb::mask

8.122 cellParams Struct Reference

Data Fields

- WORD pci
- SHORT rsrq

- SHORT rsrp
- SHORT rssi
- SHORT srxlev

8.122.1 Detailed Description

This structure contains information about the Cell parameters.

Parameters

pci	• Physical cell ID. • Range: 0 to 503.
rsrq	• Current RSRQ in 1/10 dB as measured by L1. • Range: -20.0 dB to -3.0 dB.
rsrp	• Current RSRP in 1/10 dBm as measured by L1. • Range: -140.0 dBm to -44.0 dBm.
rssi	• Current RSSI in 1/10 dBm as measured by L1. • Range: -120.0 dBm to 0.
srxlev	• Cell selection Rx level (Srxlev) value. • Range: -128 to 128. • This field is only valid when ue_in_idle is TRUE.

8.122.2 Field Documentation

8.122.2.1 WORD cellParams::pci

8.122.2.2 SHORT cellParams::rsrp

8.122.2.3 SHORT cellParams::rsrq

8.122.2.4 SHORT cellParams::rssi

8.122.2.5 SHORT cellParams::srxlev

8.123 changeUIMPIN Struct Reference

Data Fields

- BYTE pinID
- BYTE oldPINLen
- BYTE oldPINVal [255]
- BYTE pinLen
- BYTE pinVal [255]

8.123.1 Detailed Description

This structure contains the information about the pin parameters that need to be verified.

Parameters

pinID	• Indicates the PIN ID to be changed. – 1 - PIN1 (also called PIN) – 2 - PIN2 – 3 - Universal PIN – 4 - Hidden key
oldPINLen	• Length of the following elements i.e. old pin value.
oldPINVal[MAX_DESCRIPTION_LENGTH]	• Old PIN value. • This value is a sequence of ASCII characters.
pinLen	• Length of the following elements i.e. new pin value.
pinVal[MAX_DESCRIPTION_LENGTH]	• New PIN value. • This value is a sequence of ASCII characters.

8.123.2 Field Documentation

8.123.2.1 BYTE changeUIMPIN::oldPINLen

8.123.2.2 BYTE changeUIMPIN::oldPINVal[255]

8.123.2.3 BYTE changeUIMPIN::pinID

8.123.2.4 BYTE changeUIMPIN::pinLen

8.123.2.5 BYTE changeUIMPIN::pinVal[255]

8.124 ChannelRate Struct Reference

Data Fields

- ULONG CurrChanTxRate
- ULONG CurrChanRxRate
- ULONG MaxChanTxRate
- ULONG MaxChanRxRate

8.124.1 Detailed Description

This structure contains Channel Rate

Parameters

CurrChanTxRate	• Instantaneous channel Tx rate in bits per second
CurrChanRx-Rate	• Instantaneous channel Rx rate in bits per second
MaxChanTxRate	• maximum Tx rate that can be assigned to the device by the serving system in bits per second
MaxChanRx-Rate	• maximum Rx rate that can be assigned to the device by the serving system in bits per second

8.124.2 Field Documentation

8.124.2.1 ULONG ChannelRate::CurrChanRxRate

8.124.2.2 ULONG ChannelRate::CurrChanTxRate

8.124.2.3 ULONG ChannelRate::MaxChanRxRate

8.124.2.4 ULONG ChannelRate::MaxChanTxRate

8.125 channelRate Struct Reference

Data Fields

- ULONG CurrChanTxRate
- ULONG CurrChanRxRate

8.125.1 Detailed Description

This structure contains Channel Rate

Parameters

CurrChanTxRate	• Max channel Tx rate in bits per second
CurrChanRx-Rate	• Max channel Rx rate in bits per second

8.125.2 Field Documentation

8.125.2.1 ULONG channelRate::CurrChanRxRate

8.125.2.2 ULONG channelRate::CurrChanTxRate

8.126 ciotAcqOrderPref Struct Reference

Data Fields

- BYTE ciotAcqOrderLen
- ULONG * pCiotAcqOrder

8.126.1 Detailed Description

Contain the CIOT Acquisition Order Preference.

Parameters

ciotAcqOrderLen	• Number of sets of the following elements.
pCiotAcqOrder	• CIOT Acquisition order preference to be set. • Values – 0x01 - cdma2000 ®1X – 0x02 - cdma2000 ® HRPD (1xEV-DO) – 0x04 - GSM – 0x05 - UMTS – 0x08 - LTE – 0x09 - TD-SCDMA – 0x0a - LTE_M1 – 0x0b - LTE_NB1

8.126.2 Field Documentation

8.126.2.1 BYTE ciotAcqOrderPref::ciotAcqOrderLen

8.126.2.2 ULONG* ciotAcqOrderPref::pCiotAcqOrder

8.127 CiotAcqOrderPrefTlv Struct Reference

Data Fields

- BYTE ciotAcqOrderLen
- ULONG * pCiotAcqOrder
- BYTE TlvPresent

8.127.1 Detailed Description

Contain the CIOT Acquisition Order Preference.

Parameters

ciotAcqOrderLen	• Number of sets of the following elements.

pCiotAcqOrder	• CIOT Acquisition order preference to be set. • Values – 0x01 - cdma2000 ®1X – 0x02 - cdma2000 ® HRPD (1xEV-DO) – 0x04 - GSM – 0x05 - UMTS – 0x08 - LTE – 0x09 - TD-SCDMA – 0x0a - LTE_M1 – 0x0b - LTE_NB1
TlvPresent	• Tlv Present

8.127.2 Field Documentation

8.127.2.1 BYTE CiotAcqOrderPrefTlv::ciotAcqOrderLen

8.127.2.2 ULONG* CiotAcqOrderPrefTlv::pCiotAcqOrder

8.127.2.3 BYTE CiotAcqOrderPrefTlv::TlvPresent

8.128 CiotLteOpModePrefTlv Struct Reference

Data Fields

- ULONGLONG ciotLteOpModePref
- BYTE TlvPresent

8.128.1 Detailed Description

Contain the CIOT LTE Operational Mode Preference.

Parameters

ciotLteOpMode-Pref	• CIOT LTE Operational Mode Preference • Values: – Bit 0 (0x01) - LTE wideband – Bit 1 (0x02) - LTE M1 – Bit 2 (0x04) - LTE NB1 All unlisted bits are reserved for future use and the service point ignores them if used.
TlvPresent	• Tlv Present

8.128.2 Field Documentation

8.128.2.1 ULONGLONG CiotLteOpModePrefTlv::ciotLteOpModePref

8.128.2.2 BYTE CiotLteOpModePrefTlv::TlvPresent

8.129 CLIPResp Struct Reference

Data Fields

- BYTE ActiveStatus
- BYTE ProvisionStatus

8.129.1 Detailed Description

This structure contains information about the Calling Line Identification Presentation (CLIP) supplementary service responses.

Parameters

ActiveStatus	• Active status. • Values: – 0x00 - ACTIVE_STATUS_INACTIVE - Inactive – 0x01 - ACTIVE_STATUS_ACTIVE - Active – 0xFF - Not Available
ProvisionStatus	• Provisioned status. • Values: – 0x00 - PROVISION_STATUS_NOT_PROVISIONED - Not provisioned – 0x01 - PROVISION_STATUS_PROVISIONED - Provisioned – 0xFF - Not Available

8.129.2 Field Documentation

8.129.2.1 BYTE CLIPResp::ActiveStatus

8.129.2.2 BYTE CLIPResp::ProvisionStatus

8.130 CLIRResp Struct Reference

Data Fields

- BYTE ActiveStatus
- BYTE ProvisionStatus

8.130.1 Detailed Description

This structure contains information about the Calling Line Identification Restriction (CLIR) supplementary service responses.

Parameters

ActiveStatus	• Active status. • Values: – 0x00 - ACTIVE_STATUS_INACTIVE - Inactive – 0x01 - ACTIVE_STATUS_ACTIVE - Active – 0xFF - Not Available
ProvisionStatus	• Provisioned status. • Values: – 0x00 - PROVISION_STATUS_NOT_PROVISIONED - Not provisioned – 0x01 - PROVISION_STATUS_PROVISIONED_PERMANENT - Permanently provisioned – 0x02 - PROVISION_STATUS_PRESENTATION_RESTRICTED - Restricted presentation – 0x03 - PROVISION_STATUS_PRESENTATION_ALLOWED - Allowed presentation – 0xFF - Not Available

8.130.2 Field Documentation

8.130.2.1 BYTE CLIRResp::ActiveStatus

8.130.2.2 BYTE CLIRResp::ProvisionStatus

8.131 ClkInfo Struct Reference

Data Fields

- ULONG mask

8.131.1 Detailed Description

This structure contains the clock Info

Parameters

mask	• Mask for the clock information assistance data that is to be deleted • Valid bitmasks: – QMI_LOC_MASK_DELETE_CLOCK_INFO_TIME_EST (0x00000001) - Mask to delete time estimate from clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_FREQ_EST (0x00000002) - Mask to delete frequency estimate from clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_WEEK_NUMBER (0x00000004) - Mask to delete week number from clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_RTC_TIME (0x00000008) - Mask to delete RTC time from clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_TIME_TRANSFER (0x00000010) - Mask to delete time transfer from clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_GPSTIME_EST (0x00000020) - Mask to delete GPS time estimate from clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_GLOTIME_EST (0x00000040) - Mask to delete GLONASS time estimate from clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_GLODAY_NUMBER (0x00000080) - Mask to delete GLONASS day number from clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_GLO4YEAR_NUMBER (0x00000100) - Mask to delete GLONASS four year number from clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_GLO_RF_GRP_DELAY (0x00000200) - Mask to delete GLONASS RF GRP delay from clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_DISABLE_TT (0x00000400) - Mask to delete disable TT from clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_GG_LEAPSEC (0x00000800) - Mask to delete a BDS time estimate from the clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_GG_GGTB (0x00001000) - Mask to delete a BDS time estimate from the clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_BDSTIME_EST (0x00002000) - Mask to delete a BDS time estimate from the clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_GB_GBTB (0x00004000) - Mask to delete Glonass-to-BDS time bias-related information from the clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_BG_BGTB (0x00008000) - Mask to delete BDS-to-GLONASS time bias-related information from the clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_BDSWEEK_NUMBER (0x00010000) - Mask to delete the BDS week number from the clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_BDS_RF_GRP_DELAY (0x00020000) - Mask to delete the BDS RF GRP delay from the clock information

8.131.2 Field Documentation

8.131.2.1 ULONG ClkInfo::mask

8.132 CNAPResp Struct Reference

Data Fields

- BYTE ActiveStatus
- BYTE ProvisionStatus

8.132.1 Detailed Description

This structure contains information about the Calling Name Presentation (CNAP) supplementary service responses.

Parameters

ActiveStatus	• Active status. • Values: – 0x00 - ACTIVE_STATUS_INACTIVE - Inactive – 0x01 - ACTIVE_STATUS_ACTIVE - Active – 0xFF - Not Available
ProvisionStatus	• Provisioned status. • Values: – 0x00 - PROVISION_STATUS_NOT_PROVISIONED - Not provisioned – 0x01 - PROVISION_STATUS_PROVISIONED - Provisioned – 0xFF - Not Available

8.132.2 Field Documentation

8.132.2.1 BYTE CNAPResp::ActiveStatus

8.132.2.2 BYTE CNAPResp::ProvisionStatus

8.133 COLPResp Struct Reference

Data Fields

- BYTE ActiveStatus
- BYTE ProvisionStatus

8.133.1 Detailed Description

This structure contains information about the Connected Line Identification Presentation (COLP) supplementary service responses.

Parameters

ActiveStatus	• Active status. • Values: – 0x00 - ACTIVE_STATUS_INACTIVE - Inactive – 0x01 - ACTIVE_STATUS_ACTIVE - Active – 0xFF - Not Available

ProvisionStatus	• Provisioned status. • Values: – 0x00 - PROVISION_STATUS_NOT_PROVISIONED - Not provisioned – 0x01 - PROVISION_STATUS_PROVISIONED - Provisioned – 0xFF - Not Available

8.133.2 Field Documentation

8.133.2.1 BYTE COLPResp::ActiveStatus

8.133.2.2 BYTE COLPResp::ProvisionStatus

8.134 COLRResp Struct Reference

Data Fields

- BYTE ActiveStatus
- BYTE ProvisionStatus

8.134.1 Detailed Description

This structure contains information about the Connected Line Identification Restriction (COLR) supplementary service responses.

Parameters

ActiveStatus	• Active status. • Values: – 0x00 - ACTIVE_STATUS_INACTIVE - Inactive – 0x01 - ACTIVE_STATUS_ACTIVE - Active – 0xFF - Not Available
ProvisionStatus	• Provisioned status. • Values: – 0x00 - PROVISION_STATUS_NOT_PROVISIONED - Not provisioned – 0x01 - PROVISION_STATUS_PROVISIONED - Provisioned – 0xFF - Not Available

8.134.2 Field Documentation

8.134.2.1 BYTE COLRResp::ActiveStatus

8.134.2.2 BYTE COLRResp::ProvisionStatus

8.135 CommInfo Struct Reference

Data Fields

- BYTE temperature
- BYTE modemMode
- BYTE systemMode
- BYTE imsRegState
- BYTE psState

8.135.1 Detailed Description

Structure for storing the common information for the device.

Parameters

temperature	• Temperature. – 8-bit signed integer – 0xFF - Not Available.
modemMode	• Modem Operating Mode. – 0x00 - POWERING OFF – 0x01 - FACTORY TEST – 0x02 - OFFLINE – 0x03 - OFFLINE_AMPS – 0x04 - OFFLINE_CDMA – 0x05 - ONLINE – 0x06 - LOW POWER MODE – 0x07 - RESETTING – 0x08 - NETWORK TEST – 0x09 - OFFLINE REQUEST – 0x0A - PSEUDO ONLINE – 0x0B - RESETTING MODEM – 0xFF - Unknown
systemMode	• System Acquisition Mode. – 0x00 - No service – 0x01 - AMPS – 0x02 - CDMA – 0x03 - GSM – 0x04 - HDR – 0x05 - WCDMA – 0x06 - GPS – 0x08 - WLAN – 0x09 - LTE – 0xFF - Unknown

imsRegState	• IMS Registration State. – 0x00 - NO SRV – 0x01 - IN PROG – 0x02 - FAILED – 0x03 - LIMITED – 0x04 - FULL SRV – 0xFF - Unknown
psState	• PS Attach State. – 0x00 - Attached – 0x01 - Detached – 0xFF - Unknown

8.135.2 Field Documentation

8.135.2.1 BYTE CommInfo::imsRegState

8.135.2.2 BYTE CommInfo::modemMode

8.135.2.3 BYTE CommInfo::psState

8.135.2.4 BYTE CommInfo::systemMode

8.135.2.5 BYTE CommInfo::temperature

8.136 ConnectionStatus Struct Reference

Data Fields

- BYTE MDMConnStatus
- ULONGLONG MDMCallDuration

8.136.1 Detailed Description

This structure contains modem connection status

Parameters

MDMConn-Status	• Current link status – 0x01 - DISCONNECTED – 0x02 - CONNECTED
MDMCall-Duration	• Call duration in milliseconds. • If the modem connection status is connected, this represent the duration of the current DUN call. • If the modem connection status is disconnected, this represents the duration of the last DUN call since the device was powered up (zero, if no call has been made or if the last call was not DUN).

8.136.2 Field Documentation

8.136.2.1 ULONGLONG ConnectionStatus::MDMCallDuration

8.136.2.2 BYTE ConnectionStatus::MDMConnStatus

8.137 connectionStatus Struct Reference

Data Fields

- uint8_t MDMConnStatus
- uint64_t MDMCallDuration

8.137.1 Detailed Description

This structure contains modem connection status

Parameters

MDMConn-Status	• Current link status – 0x01 - DISCONNECTED – 0x02 - CONNECTED – 0xff - Invalid data.
MDMCall-Duration	• Call duration in milliseconds. • If the modem connection status is connected, this represent the duration of the current DUN call. • If the modem connection status is disconnected, this represents the duration of the last DUN call since the device was powered up (zero, if no call has been made or if the last call was not DUN). – 0xffffffffffffffff - Invalid data.

8.137.2 Field Documentation

8.137.2.1 uint64_t connectionStatus::MDMCallDuration

8.137.2.2 uint8_t connectionStatus::MDMConnStatus

8.138 connectNumInfo Struct Reference

Data Fields

- BYTE numPresInd
- BYTE screeningInd
- BYTE numType
- BYTE numPlan
- BYTE callerIDLen
- BYTE callerID [81]

8.138.1 Detailed Description

This structure contains information about the numbers connected to a device. It contains information such as number type, eg International or Local.

Parameters

numPresInd	• Presentation indicator – 0x00 - PRESENTATION_ALLOWED - Allowed presentation – 0x01 - PRESENTATION_RESTRICTED - Restricted presentation – 0x02 - PRESENTATION_NUM_UNAVAILABLE - Unavailable presentation – 0x04 - PRESENTATION_PAYPHONE - Payphone presentation (GSM/UMTS specific) – 0xFF - Not Available
screeningInd	• Screening indicator. – 0x00 - QMI_VOICE_SI_USER_PROVIDED_NOT_SCREENED - Provided user is not screened – 0x01 - QMI_VOICE_SI_USER_PROVIDED_VERIFIED_PASSED - Provided user passed verification – 0x02 - QMI_VOICE_SI_USER_PROVIDED_VERIFIED_FAILED - Provided user failed verification – 0x03 - QMI_VOICE_SI_NETWORK_PROVIDED - Provided network – 0xFF - Not Available
numType	• Number type. – 0x00 - QMI_VOICE_NUM_TYPE_UNKNOWN - Unknown – 0x01 - QMI_VOICE_NUM_TYPE_INTERNATIONAL - International – 0x02 - QMI_VOICE_NUM_TYPE_NATIONAL - National – 0x03 - QMI_VOICE_NUM_TYPE_NETWORK_SPECIFIC - Network-specific – 0x04 - QMI_VOICE_NUM_TYPE_SUBSCRIBER - Subscriber – 0x05 - QMI_VOICE_NUM_TYPE_RESERVED - Reserved – 0x06 - QMI_VOICE_NUM_TYPE_ABBREVIATED - Abbreviated – 0x07 - QMI_VOICE_NUM_TYPE_RESERVED_EXTENSION - Reserved extension – 0xFF - Not Available

numPlan	• Number plan. – 0x00 - QMI_VOICE_NUM_PLAN_UNKNOWN - Unknown – 0x01 - QMI_VOICE_NUM_PLAN_ISDN - ISDN – 0x03 - QMI_VOICE_NUM_PLAN_DATA - Data – 0x04 - QMI_VOICE_NUM_PLAN_TELEX - Telex – 0x08 - QMI_VOICE_NUM_PLAN_NATIONAL - National – 0x09 - QMI_VOICE_NUM_PLAN_PRIVATE - Private – 0x0B - QMI_VOICE_NUM_PLAN_RESERVED_CTS - Reserved cordless telephony system – 0x0F - QMI_VOICE_NUM_PLAN_RESERVED_EXTENSION - Reserved extension – 0xFF - Not Available
callerIDLen	• Provides the length of caller ID which follow. • If zero(0) then no further information exists.
callerID[MAX_CALL_NO_LEN]	• callerID of numLen length, NULL terminated.

8.138.2 Field Documentation

8.138.2.1 BYTE connectNumInfo::callerID[81]

8.138.2.2 BYTE connectNumInfo::callerIDLen

8.138.2.3 BYTE connectNumInfo::numPlan

8.138.2.4 BYTE connectNumInfo::numPresInd

8.138.2.5 BYTE connectNumInfo::numType

8.138.2.6 BYTE connectNumInfo::screeningInd

8.139 CrashInfo Struct Reference

Data Fields

- WORD numCrashes
- ULONG crashId
- ULONG crashData
- WORD crashStrLen
- CHAR * pCrashString
- WORD gcDumpStrLen
- CHAR * pGCDumpString

8.139.1 Detailed Description

This structure is used to store Crash Information

Parameters

numCrashes[OUT]	• Number of instances of the remaining fields
crashId[OUT]	• Random crash id assigned at crash
crashData[OUT]	• Crash Data
crashStrLen[IN/OUT]	• Length of pCrashString as an INPUT, length of the pCrashString field returned by API as an OUTPUT
pCrashString[OUT]	• Pointer to store crash string
gcDumpStrLen[IN/OUT]	• Length of pGCDumpString as an INPUT, Length of the pGCDumpString field returned by API as an OUTPUT
pGCDumpString[OUT]	• gcdump string for the crash

8.139.2 Field Documentation

8.139.2.1 ULONG CrashInfo::crashData

8.139.2.2 ULONG CrashInfo::crashId

8.139.2.3 WORD CrashInfo::crashStrLen

8.139.2.4 WORD CrashInfo::gcDumpStrLen

8.139.2.5 WORD CrashInfo::numCrashes

8.139.2.6 CHAR* CrashInfo::pCrashString

8.139.2.7 CHAR* CrashInfo::pGCDumpString

8.140 CrashInfoParams Struct Reference

Data Fields

- BYTE * pDevCrashStatus
- CrashInfo * pCrashInfo

8.140.1 Detailed Description

This structure is used to store Crash Information

Parameters

pDevCrashStatus[OUT]	• Device Crash Status • 0 - no crash • 1 - crash has occurred
pCrashInfo[OUT]	• Pointer to structure CrashInfo (Optional parameter) • See CrashInfo for more information

8.140.2 Field Documentation

8.140.2.1 CrashInfo* CrashInfoParams::pCrashInfo

8.140.2.2 BYTE* CrashInfoParams::pDevCrashStatus

8.141 crashInfoParams Struct Reference

Data Fields

- uint8_t crashStatus
- crashInformation crashInfo

8.141.1 Detailed Description

This structure contains crash information parameters

Parameters

crashStatus[OUT]	• Device Crash Status • 0 - no crash • 1 - crash has occurred • 0xff - invalid data.
crashInfo[OUT]	• See crashInformation

8.141.2 Field Documentation

8.141.2.1 crashInformation crashInfoParams::crashInfo

8.141.2.2 uint8_t crashInfoParams::crashStatus

8.142 crashInformation Struct Reference

Data Fields

- uint16_t numCrashes
- uint32_t crashId

- uint32_t crashData
- uint16_t crashStrlen
- char crashString [255]
- uint16_t gcdumpStrlen
- char gcdumpString [1024]

8.142.1 Detailed Description

This structure contains crash information

Parameters

numCrashes[OUT]	• number of instances of the remaining fields
crashId[OUT]	• ramdom crash id assigned at crash
crashData	• crash data[OUT]
crashStrlen[IN/OUT]	• length of the crashString field as an input, length of the crashString field returned by API as an OUTPUT
crashString	• crash string
gcdumpStrlen[OUT]	• length of the gcdumpString field as an input, length of the gcdumpString field returned by API as an OUTPUT
gcdumpString[OUT]	• gcdump string for the crash

8.142.2 Field Documentation

8.142.2.1 uint32_t crashInformation::crashData

8.142.2.2 uint32_t crashInformation::crashId

8.142.2.3 char crashInformation::crashString[255]

8.142.2.4 uint16_t crashInformation::crashStrlen

8.142.2.5 char crashInformation::gcdumpString[1024]

8.142.2.6 uint16_t crashInformation::gcdumpStrlen

8.142.2.7 uint16_t crashInformation::numCrashes

8.143 CreateProfileIn Struct Reference

Data Fields

- BYTE * pProfileID
- BYTE * pProfileType
- QmiProfileInfo curProfile

8.143.1 Detailed Description

This structure contains the input parameters for SLQSCreateProfile

Parameters

ProfileID	• 1 to 16 for 3GPP profile (EM/MC73xx or earlier) • 1 to 24 for 3GPP profile (EM/MC74xx onwards) • 101 to 106 for 3GPP2 profile
ProfileType	• Identifies the technology type of the profile – 0x00 - 3GPP – 0x01 - 3GPP2 – NULL is not allowed
curProfile	• union of Profile3GPP and Profile3GPP2

Note

- If profileID is NULL, 3GPP profile will be created and index will be assigned based on availability in device.
- If profileID is not NULL depending on pProfileType 3GPP/3GPP2 relevant profile will be created

8.143.2 Field Documentation

8.143.2.1 QmiProfileInfo CreateProfileIn::curProfile

8.143.2.2 BYTE* CreateProfileIn::pProfileID

8.143.2.3 BYTE* CreateProfileIn::pProfileType

8.144 CreateProfileOut Struct Reference

Data Fields

- BYTE * pProfileType
- BYTE * pProfileIndex
- USHORT * pExtErrorCode

8.144.1 Detailed Description

structure contains out parameter Information

Parameters

profileType	• Identifies the type of profile 0x00 = 3GPP 0x01 = 3GPP2
profileIndex	• Index identifying the profile that was created
pExtErrorCode	• The extended error code received from DS Profile subsystem

8.144.2 Field Documentation

8.144.2.1 USHORT* CreateProfileOut::pExtErrorCode

8.144.2.2 BYTE* CreateProfileOut::pProfileIndex

8.144.2.3 BYTE* CreateProfileOut::pProfileType

8.145 CsgId Struct Reference

Data Fields

- ULONG csgId
- BYTE TlvPresent

8.145.1 Detailed Description

This structure contains csg ID.

Parameters

csgId	• Closed subscriber group identifier.
TlvPresent	• Tlv Present or not

8.145.2 Field Documentation

8.145.2.1 ULONG CsgId::csgId

8.145.2.2 BYTE CsgId::TlvPresent

8.146 CSGID Struct Reference

Data Fields

- WORD mcc
- WORD mnc
- BYTE mncPcsDigits

- ULONG id
- BYTE rat

8.146.1 Detailed Description

Contain the CSGID.

Parameters

mcc	• MCC value. Range 0 to 999
mnc	• MNC value. Range 0 to 999
mncPcsDigits	• TRUE - MNC is a three-digit value; e.g., a reported value of 90 corresponds to an MNC value of 090 • FALSE - MNC is a two-digit value; e.g., a reported value of 90 corresponds to an MNC value of 90
id	• Closed subscriber group identifier.
rat	• Radio interface technology of the CSG network. Values: – 0x04 - RADIO_IF_GSM - GSM – 0x05 - RADIO_IF_UMTS - UMTS – 0x08 - RADIO_IF_LTE - LTE – 0x09 - RADIO_IF_TDSCDMA - TDS

8.146.2 Field Documentation

8.146.2.1 ULONG CSGID::id

8.146.2.2 WORD CSGID::mcc

8.146.2.3 WORD CSGID::mnc

8.146.2.4 BYTE CSGID::mncPcsDigits

8.146.2.5 BYTE CSGID::rat

8.147 CUGInfo Struct Reference

Data Fields

- WORD CUGIndex
- BYTE SuppPrefCUG
- BYTE SuppOA

8.147.1 Detailed Description

This structure contains Closed User Group Information

Parameters

CUGIndex	• Range 0x00... 0x7FFF
SuppPrefCUG	• Suppress preferential CUG – 0x00 - FALSE – 0x01 - TRUE
SuppOA	• Suppress OA subscription option – 0x00 - FALSE – 0x01 - TRUE

8.147.2 Field Documentation

8.147.2.1 WORD CUGInfo::CUGIndex

8.147.2.2 BYTE CUGInfo::SuppOA

8.147.2.3 BYTE CUGInfo::SuppPrefCUG

8.148 curAMRConfig Struct Reference

Data Fields

- BYTE gsmAmrStat
- BYTE wcdmaAmrStat

8.148.1 Detailed Description

This structure contains the Current Adaptive Multi Rate Configuration Information.

Parameters

gsmAmrStat	• GSM AMR Status – 0x00 - Disable – 0x01 - Enable – 0xFF - Not Available
wcdmaAmrStat	• WCDMA AMR Status • One or a combination of the following bitmask values: – Bit 0 - AMR codec advertised is not supported – Bit 1 - Controls WCDMA AMR wideband – Bit 2 - Controls GSM half rate AMR – Bit 3 - Controls GSM AMR wideband – Bit 4 - Controls GSM AMR narrowband • 0xFF, if not available

8.148.2 Field Documentation

8.148.2.1 BYTE curAMRConfig::gsmAmrStat

8.148.2.2 BYTE curAMRConfig::wcdmaAmrStat

8.149 CurrDataSysStat Struct Reference

Data Fields

- BYTE * pPrefNetwork
- BYTE * pNetworkInfoLen
- CurrNetworkInfo * pCurrNetworkInfo

8.149.1 Detailed Description

Data System Status

Parameters

pPrefNetwork	[OUT] • Preferred Network • Values: – 0 - 3GPP – 1 - 3GPP2
pNetworkInfoLen	[IN/OUT] • As input parameter size assigned to next parameter i.e. network information • As output the actual number of network information elements returned by the device
pCurrNetwork-Info	[OUT] • Network information • See CurrNetworkInfo for more details

8.149.2 Field Documentation

8.149.2.1 CurrNetworkInfo* CurrDataSysStat::pCurrNetworkInfo

8.149.2.2 BYTE* CurrDataSysStat::pNetworkInfoLen

8.149.2.3 BYTE* CurrDataSysStat::pPrefNetwork

8.150 currentCatEvent Union Reference

Data Fields

- struct CatEventIDDataTlv CatEvIDData
- struct CatAlPhaIdentifierTlv CatAlphaIdtfr
- struct CatEventListTlv CatEventLst
- struct CatRefreshTlv CatRefresh
- struct CatEndProactiveSessionTlv CatEndPS

8.150.1 Detailed Description

Union used to represent the current CAT Event Data. Choose the structure based on the EventID received.

- Use CatEventIDDataTlv if the Event ID is any of the below.
  - 16
  - 17
  - 18
  - 19
  - 20
  - 23
  - 24
- Use CatAlPhaIdentifierTlv if the Event ID is 21
- Use CatEventListTlv if the Event ID is 22
- Use CatRefreshTlv if the Event ID is 25
- Use CatEndProactiveSessionTlv if the Event ID is 26

8.150.2 Field Documentation

8.150.2.1 struct CatAlPhaIdentifierTlv currentCatEvent::CatAlphaIdtfr

8.150.2.2 struct CatEndProactiveSessionTlv currentCatEvent::CatEndPS

8.150.2.3 struct CatEventListTlv currentCatEvent::CatEventLst

8.150.2.4 struct CatEventIDDataTlv currentCatEvent::CatEvIDData

8.150.2.5 struct CatRefreshTlv currentCatEvent::CatRefresh

8.151 CurrentImgList Struct Reference

Data Fields

- BYTE numEntries
- CurrImageInfo * pCurrImgInfo
- CHAR priver [16]
- CHAR pkgver [16]
- CHAR fwvers [16]
- CHAR carrier [16]

8.151.1 Detailed Description

This structure is used to store image list

Parameters

numEntries[IN/-OUT]	• Number of entries in the image list to follow • The size of the list pCurrImgInfo must be specified when calling the API
pCurrImgInfo[O-UT]	• Currently Active Image List
priver[OUT]	• PRI version of the currently running firmware
pkgver[OUT]	• Package version of the currently running firmware
fwvers[OUT]	• firmware version of the currently running firmware
carrier[OUT]	• Carrier string of the currently running firmware

8.151.2 Field Documentation

8.151.2.1 CHAR CurrentImgList::carrier[16]

8.151.2.2 CHAR CurrentImgList::fwvers[16]

8.151.2.3 BYTE CurrentImgList::numEntries

8.151.2.4 CurrImageInfo* CurrentImgList::pCurrImgInfo

8.151.2.5 CHAR CurrentImgList::pkgver[16]

8.151.2.6 CHAR CurrentImgList::priver[16]

8.152 currentPLMN Struct Reference

Data Fields

- WORD MCC

- WORD MNC
- BYTE netDescrLength
- BYTE netDescr [255]

8.152.1 Detailed Description

This structure contains the current PLMN parameters

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

MCC	• mobile country code – A 16 bit representation of MCC – Range 0 to 999
MNC	• mobile network code – A 16 bit representation of MNC – Range 0 to 999
netDescrLength	• Length of Network description field • Defaults to zero
netDescr	• Network Description – optional string containing network name or description

8.152.2 Field Documentation

8.152.2.1 WORD currentPLMN::MCC

8.152.2.2 WORD currentPLMN::MNC

8.152.2.3 BYTE currentPLMN::netDescr[255]

8.152.2.4 BYTE currentPLMN::netDescrLength

8.153 CurrImageInfo Struct Reference

Data Fields

- BYTE imageType
- BYTE uniqueID [16]
- BYTE buildIDLen
- BYTE buildID [255]

8.153.1 Detailed Description

This structure is used to store image information

Parameters

imageType[OUT]	• Image Type • Values: – 0 - FW – 1 - configuration
uniqueID[OUT]	• Image Unique Identifier (ASCII characters)
buildIDLen[OUT]	• Length of build ID string to follow • If set to zero, build ID string will be blank
buildID[OUT]	• String containing image information(ASCII characters) • Maximum length of this string is 255 chars

8.153.2 Field Documentation

8.153.2.1 BYTE CurrImageInfo::buildID[255]

8.153.2.2 BYTE CurrImageInfo::buildIDLen

8.153.2.3 BYTE CurrImageInfo::imageType

8.153.2.4 BYTE CurrImageInfo::uniqueID[16]

8.154 CurrNetworkInfo Struct Reference

Data Fields

- BYTE NetworkType
- ULONG RATMask
- ULONG SOMask

8.154.1 Detailed Description

Network information structure

Parameters

NetworkType	• Values: – 0 - 3GPP – 1 - 3GPP2

RATMask	• Radio Access Technology (RAT) mask to indicate the type of technology. • Values: – 0 - Don't Care – 0x8000 - NULL Bearer • CDMA RAT mask values: – 0x01 - CDMA_1x – 0x02 - EVDO_REV0 – 0x04 - EVDO_REVA – 0x08 - EVDO_REVB – 0x10 - EHRPD – 0x20 - FMC • UMTS RAT mask values: – 0x01 - WCDMA – 0x02 - GPRS – 0x04 - HSDPA – 0x08 - HSUPA – 0x10 - EDGE – 0x20 - LTE – 0x40 - HSDPA+ – 0x80 - DC_HSDPA+ – 0x100 - 64_QAM – 0x200 - TDSCDMA
SOMask	• Service Option (SO) mask to indicate the service option or type of application. • Values: – 0 - Don't Care • CDMA 1x SO mask values: – 0x01 - CDMA_1X_IS95 – 0x02 - CDMA_1X_IS2000 – 0x04 - CDMA_1X_IS2000_REL_A • CDMA EV-DO Rev 0 SO mask values: – 0x01 - DPA • CDMA EV-DO Rev A SO mask values: – 0x01 - DPA – 0x02 - MFPA – 0x04 - EMPA – 0x08 - EMPA_EHRPD • CDMA EV-DO Rev B SO mask values: – 0x01 - DPA – 0x02 - MFPA – 0x04 - EMPA – 0x08 - EMPA_EHRPD – 0x10 - MMPA – 0x20 - MMPA_EHRPD

8.154.2 Field Documentation

8.154.2.1 BYTE CurrNetworkInfo::NetworkType

8.154.2.2 ULONG CurrNetworkInfo::RATMask

8.154.2.3 ULONG CurrNetworkInfo::SOMask

8.155 currNetworkInfo Struct Reference

Data Fields

- uint8_t NetworkType
- uint32_t RATMask
- uint32_t SOMask

8.155.1 Detailed Description

Network information structure

Parameters

NetworkType	• Values: – 0 - 3GPP – 1 - 3GPP2
RATMask	• Radio Access Technology (RAT) mask to indicate the type of technology. • Values: – 0 - Don't Care – 0x8000 - NULL Bearer • CDMA RAT mask values: – 0x01 - CDMA_1x – 0x02 - EVDO_REV0 – 0x04 - EVDO_REVA – 0x08 - EVDO_REVB – 0x10 - EHRPD – 0x20 - FMC • UMTS RAT mask values: – 0x01 - WCDMA – 0x02 - GPRS – 0x04 - HSDPA – 0x08 - HSUPA – 0x10 - EDGE – 0x20 - LTE – 0x40 - HSDPA+ – 0x80 - DC_HSDPA+ – 0x100 - 64_QAM – 0x200 - TDSCDMA

SOMask	• Service Option (SO) mask to indicate the service option or type of application. • Values: – 0 - Don't Care • CDMA 1x SO mask values: – 0x01 - CDMA_1X_IS95 – 0x02 - CDMA_1X_IS2000 – 0x04 - CDMA_1X_IS2000_REL_A • CDMA EV-DO Rev 0 SO mask values: – 0x01 - DPA • CDMA EV-DO Rev A SO mask values: – 0x01 - DPA – 0x02 - MFPA – 0x04 - EMPA – 0x08 - EMPA_EHRPD • CDMA EV-DO Rev B SO mask values: – 0x01 - DPA – 0x02 - MFPA – 0x04 - EMPA – 0x08 - EMPA_EHRPD – 0x10 - MMPA – 0x20 - MMPA_EHRPD

8.155.2 Field Documentation

8.155.2.1 uint8_t currNetworkInfo::NetworkType

8.155.2.2 uint32_t currNetworkInfo::RATMask

8.155.2.3 uint32_t currNetworkInfo::SOMask

8.156 custFeaturesInfo Struct Reference

Data Fields

- ULONG GpsEnable
- BYTE * pDisableIMSI
- WORD * pIPFamSupport
- BYTE * pRMAutoConnect
- BYTE * pGPSSel
- BYTE * pSMSSupport
- BYTE * pIsVoiceEnabled
- BYTE * pDHCPRelayEnabled
- BYTE * pGPSLPM

8.156.1 Detailed Description

This structure contains current settings of custom features

Parameters

GpsEnable[OUT]	• describes if GPS is enabled or disabled • values: – 0x00 - GPS is disabled – 0x01 - GPS is enabled • function SLQSGetCustFeatures() returns a default value FFFFFFFF if no value is returned by the modem
pDisableIMSI[OUT]	• optional 1 byte parameter • describes if IMSI display is enabled or disabled • values: – 0x00 - Allow display of IMSI – 0x01 - Do not display IMSI • function SLQSGetCustFeatures() returns a default value FF if no value is returned by the modem
pIPFamSupport[OUT]	• optional 2 byte BitMask • bitmask representing the IP families supported • values: – 0x01 - IPv4 – 0x02 - IPv6 – 0x04 - IPv4v6 • function SLQSGetCustFeatures() returns a default value FFFF if no value is returned by the modem
pRMAutoConnect[OUT]	• optional 1 byte parameter • QMI Mode RM Net Auto Connect Support • values: – 0x00 - Not Supported – 0x01 - Supported • function SLQSGetCustFeatures() returns a default value FF if no value is returned by the modem
pGPSSel[OUT]	• optional 1 byte parameter • GPS Antenna Select • values: – 0x00 - Dedicated GPS Port – 0x01 - GPS Rx over AUX Port – 0x02 - GPS Rx over dedicated GPS port with no bias voltage applied • function SLQSGetCustFeatures() returns a default value FF if no value is returned by the modem

pSMSSupport[-OUT]	• optional 1 byte parameter • SMS support • values: – 0x00 - Not supported – 0x01 - supported • Used to determine whether or not to hide SMS from user • function SLQSGetCustFeatures() returns a default value FF if no value is returned by the modem. In this case assume, SMS is supported.
pIsVoice-Enabled[OUT]	• optional 1 byte parameter • Voice support • values: – 0x00 - Enable voice on both AT and QMI interface (default) – 0x01 - Reserved – 0x02 - Disable voice on both AT and QMI interface
pDHCPRelay-Enabled[OUT]	• optional 1 byte parameter • DHCP Relay support • values: – 0x00 - Disable DHCP relay – 0x01 - Enable DHCP relay
pGPSLPM[OUT]	• optional 1 byte parameter • GPSLPM support • values: – 0x00 - Enable GPS in Low Power Mode – 0x01 - Disable GPS in Low Power Mode

8.156.2 Field Documentation

8.156.2.1 ULONG custFeaturesInfo::GpsEnable

8.156.2.2 BYTE* custFeaturesInfo::pDHCPRelayEnabled

8.156.2.3 BYTE* custFeaturesInfo::pDisableIMSI

8.156.2.4 BYTE* custFeaturesInfo::pGPSLPM

8.156.2.5 BYTE* custFeaturesInfo::pGPSSel

8.156.2.6 WORD* custFeaturesInfo::pIPFamSupport

8.156.2.7 BYTE* custFeaturesInfo::pIsVoiceEnabled

8.156.2.8 BYTE* custFeaturesInfo::pRMAutoConnect

8.156.2.9 BYTE* custFeaturesInfo::pSMSSupport

8.157 custFeaturesSetting Struct Reference

Data Fields

- BYTE * pGPSSel
- ULONG * pGPSEnable
- BYTE * pIsVoiceEnabled
- BYTE * pDHCPRelayEnabled
- BYTE * pGPSLPM

8.157.1 Detailed Description

This structure contains settings to be used for custom features

Parameters

pGPSSel	• optional 1 byte parameter • GPS Antenna Select • values: – 0x00 - Dedicated GPS Port – 0x01 - GPS Rx over AUX Port – 0x02 - GPS Rx over dedicated GPS port with no bias voltage applied
pGPSEnable	• optional 4 byte parameter • GPS Enable/Disable • values: The value of 7 least significant bits: – 0 - Disabled – 1 - MT & MO enabled – 2 - MO enabled – 3 - MT enabled – 4 - MT & MO enabled if GPS_DISABLE pin is not asserted – 5 - MO GPS enabled if GPS_DISABLE pin is not asserted – 6 - MT GPS enabled if GPS_DISABLE pin is not asserted

Note

Only MC7750 3.5.x firmware supports above 0x04, 0x05 and 0x06 settings. To disable GLONASS, set the most significant bit - 0x80. This setting is only applicable if GPS is not Disabled.

Parameters

pIsVoiceEnabled	• optional 1 byte parameter • voice enabled/disabled • values: – 0 - Enable voice on both AT and QMI interface (default) – 1 - Reserved – 2 - Disable voice on both AT and QMI interface

pDHCPRelay-Enabled	• optional 1 byte parameter • DHCPRELAYENABLE support • values: – 0 - Disable DHCP relay – 1 - Enable DHCP relay
pGPSLPM	• optional 1 byte parameter • GPSLPM support • values: – 0 - Enable GPS in Low Power Mode – 1 - Disable GPS in Low Power Mode

8.157.2 Field Documentation

8.157.2.1 BYTE* custFeaturesSetting::pDHCPRelayEnabled

8.157.2.2 ULONG* custFeaturesSetting::pGPSEnable

8.157.2.3 BYTE* custFeaturesSetting::pGPSLPM

8.157.2.4 BYTE* custFeaturesSetting::pGPSSel

8.157.2.5 BYTE* custFeaturesSetting::pIsVoiceEnabled

8.158 custSettingInfo Struct Reference

Data Fields

- WORD id_length
- CHAR cust_id [64+1]
- WORD value_length
- BYTE cust_value [8+1]
- WORD cust_attr

8.158.1 Detailed Description

This structure contains information about Customization Setting. This TLV is only applicable for 9x30 modules so far

Parameters

id_length	• length of cust_id field
cust_id	• Customization ID (Maximum 64 bytes)
value_length	• length of cust_value field

cust_value	• Customization Setting Value (Maximum 8 bytes)
cust_attr	• Customization Setting attribute through QMI – bit 0: Values: * 0 - read only * 1 - read/write

8.158.2 Field Documentation

8.158.2.1 WORD custSettingInfo::cust_attr

8.158.2.2 CHAR custSettingInfo::cust_id[64+1]

8.158.2.3 BYTE custSettingInfo::cust_value[8+1]

8.158.2.4 WORD custSettingInfo::id_length

8.158.2.5 WORD custSettingInfo::value_length

8.159 custSettingList Struct Reference

Data Fields

- BYTE list_type
- WORD num_instances
- custSettingInfo custSetting [256]

8.159.1 Detailed Description

This structure contains the fields of TLV Customization Setting List. This TLV is only applicable for 9x30 modules so far

Parameters

list_type	• list type requested
num_instances	• number of instances of customization setting
custSetting	• See custSettingInfo for more information

8.159.2 Field Documentation

8.159.2.1 custSettingInfo custSettingList::custSetting[256]

8.159.2.2 BYTE custSettingList::list_type

8.159.2.3 WORD custSettingList::num_instances

8.160 dataBearers Struct Reference

Data Fields

- BYTE dataBearerMask
- QmiWDSDataBearerTechnology * pCurDataBearerTechnology
- QmiWDSDataBearerTechnology * pLastCallDataBearerTechnology

8.160.1 Detailed Description

Structure to hold the data bearer technology values

Parameters

dataBearerMask[OUT]	• This bit mask indicates if data bearer information for the current and/or last call has been received from the device. If a bit is set, then the information is available in the corresponding structure i.e. the one provided by the caller. Refer to qmiDataBearerMasks for bit-mask positions.
pCurDataBearerTechnology[OUT]	• current data bearer technology value. – NULL if the parameter is not required
pLastCallDataBearerTechnology[OUT]	• last call data bearer technology value. – NULL if the parameter is not required

8.160.2 Field Documentation

8.160.2.1 BYTE dataBearers::dataBearerMask

8.160.2.2 QmiWDSDataBearerTechnology* dataBearers::pCurDataBearerTechnology

8.160.2.3 QmiWDSDataBearerTechnology* dataBearers::pLastCallDataBearerTechnology

8.161 DataBearerTech Struct Reference

Data Fields

- ULONG techType
- ULONG ratValue
- ULONGLONG soMask

8.161.1 Detailed Description

Network information structure

Parameters

TechType	• Technology type • Values: – 0 - WDS_BEARER_TECH_NETWORK_3GPP - 3GPP – 1 - WDS_BEARER_TECH_NETWORK_3GPP2 - 3GPP2
ratValue	• Radio Access Technology (RAT) value • Values: – 0x00 - WDS_BEARER_TECH_RAT_EX_NULL_BEARER - NULL bearer – 0x01 - WDS_BEARER_TECH_RAT_EX_3GPP_WCDMA - 3GPP WCDMA – 0x02 - WDS_BEARER_TECH_RAT_EX_3GPP_GERAN - 3GPP GERAN – 0x03 - WDS_BEARER_TECH_RAT_EX_3GPP_LTE - 3GPP LTE – 0x04 - WDS_BEARER_TECH_RAT_EX_3GPP_TDSCDMA - 3GPP TDSCDMA – 0x05 - WDS_BEARER_TECH_RAT_EX_3GPP_WLAN - 3GPP WLAN – 0x64 - WDS_BEARER_TECH_RAT_EX_3GPP_MAX - 3GPP maximum – 0x65 - WDS_BEARER_TECH_RAT_EX_3GPP2_1X - 3GPP2 1X – 0x66 - WDS_BEARER_TECH_RAT_EX_3GPP2_HRPD - 3GPP2 HRPD – 0x67 - WDS_BEARER_TECH_RAT_EX_3GPP2_EHRPD - 3GPP2 EHRPD – 0x68 - WDS_BEARER_TECH_RAT_EX_3GPP2_WLAN - 3GPP2 WLAN – 0xC8 - WDS_BEARER_TECH_RAT_EX_3GPP2_MAX - 3GPP2 maximum

SOMask	• Service Option (SO) mask to indicate the service option or type of application. An SO mask value of zero indicates that this field is ignored. • Values: – 0x00 - SO mask unspecified • 3GPP SO mask: – 0x01 - WCDMA – 0x02 - HSDPA – 0x04 - HSUPA – 0x08 - HSDPAPLUS – 0x10 - DC HSDPAPLUS – 0x20 - 64 QAM – 0x40 - HSPA – 0x80 - GPRS – 0x100 - EDGE – 0x200 - GSM – 0x400 - S2B – 0x800 - LTE limited service – 0x1000 - LTE FDD – 0x2000 - LTE TDD • 3GPP2 SO mask: – 0x01000000 - 1X IS95 – 0x02000000 - 1X IS2000 – 0x04000000 - 1X IS2000 REL A – 0x08000000 - HDR REV0 DPA – 0x10000000 - HDR REVA DPA – 0x20000000 - HDR REVB DPA – 0x40000000 - HDR REVA MPA – 0x80000000 - HDR REVB MPA – 0x100000000 - HDR REVA EMPA – 0x200000000 - HDR REVB EMPA – 0x400000000 - HDR REVB MMPA – 0x800000000 - HDR EVDO FMC

8.161.2 Field Documentation

8.161.2.1 ULONG DataBearerTech::ratValue

8.161.2.2 ULONGLONG DataBearerTech::soMask

8.161.2.3 ULONG DataBearerTech::techType

8.162 DataBearerTechExt Struct Reference

Data Fields

- DataBearerTech * pBearerTech
- DataBearerTech * pLastBearerTech

8.162.1 Detailed Description

Data Bearer Technology Ext

Parameters

pBearerTech	[OUT] • See DataBearerTech for more information
pLastBearerTech	[OUT] • See DataBearerTech for more information

8.162.2 Field Documentation

8.162.2.1 DataBearerTech* DataBearerTechExt::pBearerTech

8.162.2.2 DataBearerTech* DataBearerTechExt::pLastBearerTech

8.163 dataBearerTechnology Struct Reference

Data Fields

- BYTE currentNetwork
- ULONG ratMask
- ULONG soMask

8.163.1 Detailed Description

Structure to hold the current data bearer technology values

Parameters

pCurrent-Network[OUT]	• current selected network – 0 - UNKNOWN – 1 - 3GPP2 – 2 - 3GPP

pRatMask[OUT]	• Radio Access Technology (RAT) mask to indicate the type of technology (RAT mask value of zero indicates that this field is ignored) – 0x8000 - NULL Bearer – 0x0000 - DO_NOT_CARE CDMA RAT mask – 0x01 - CDMA_1X – 0x02 - EVDO_REV0 – 0x04 - EVDO_REVA UMTS RAT mask – 0x01 - WCDMA – 0x02 - GPRS – 0x04 - HSDPA – 0x08 - HSUPA – 0x10 - EDGE – 0x20 - LTE – 0x40 - HSDPA+ – 0x80 - DC_HSDPA+
pSoMask[OUT]	• Service Option (SO) mask to indicate the SO or type of application (SO mask value of zero indicates that this field is ignored) – 0x00 - DO_NOT_CARE CDMA 1X SO mask – 0x01 - CDMA_1X_IS95 – 0x02 - CDMA_1X_IS2000 – 0x04 - CDMA_1X_IS2000_REL_A CDMA EV-DO Rev A SO mask – 0x01 - EVDO_REVA_DPA – 0x02 - EVDO_REVA_MFPA – 0x04 - EVDO_REVA_EMPA – 0x08 - EVDO_REVA_EMPA_EHRPD

8.163.2 Field Documentation

8.163.2.1 BYTE dataBearerTechnology::currentNetwork

8.163.2.2 ULONG dataBearerTechnology::ratMask

8.163.2.3 ULONG dataBearerTechnology::soMask

8.164 dataRate Struct Reference

Data Fields

- ULONG dataRateMax
- ULONG guaranteedRate

8.164.1 Detailed Description

This structure contains the IP flow data rate min max

Parameters

dataRateMax	Maximum required data rate (bits per second)
guaranteedRate	Minimum guaranteed data rate (bits per second)

8.164.2 Field Documentation

8.164.2.1 ULONG dataRate::dataRateMax

8.164.2.2 ULONG dataRate::guaranteedRate

8.165 dataSrvCapabilities Struct Reference

Data Fields

- BYTE dataCapabilitiesLen
- BYTE dataCapabilities [0x20]

8.165.1 Detailed Description

This structure contains the data services capability

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

dataCapabilities-Len	• Length of data capabilities list • Defaults to zero
dataCapabilities	• List of data capabilities • Values: – 0x01 - GPRS – 0x02 - EDGE – 0x03 - HSDPA – 0x04 - HSUPA – 0x05 - WCDMA – 0x06 - CDMA – 0x07 - EV-DO Rev0 – 0x08 - EV-DO RevA – 0x09 - GSM – 0x0A - EV-DO Rev B – 0x0B - LTE – 0x0C - HSDPA+ – 0x0D - DC-HSDPA+

8.165.2 Field Documentation

8.165.2.1 BYTE dataSrvCapabilities::dataCapabilities[0x20]

8.165.2.2 BYTE dataSrvCapabilities::dataCapabilitiesLen

8.166 DataStatusDetail Struct Reference

Data Fields

- ULONG IPAddress
- BYTE LastErrCode

8.166.1 Detailed Description

This structure contains Data Status Details

Parameters

IPAddress	• IP Address • 0xABCDEFGH - AB.CD.EF.GH • Example: – 0x12345678 - 18.52.86.120 0x12=18 0x34=52 0x56=86 0x78=120 • 0xFFFFFFFF - NA

LastErrCode	• MIP Error code – 0x00 - MIP_RRP_CODE_SUCCESS – 0x01 - MIP_RRP_CODE_SUCCESS_NO_SIM_BINDINGS – 0x40 - MIP_RRP_CODE_FAILURE_FA_REASON_UNSPECIFIED – 0x41 - MIP_RRP_CODE_FAILURE_FA_ADMIN_PROHIBITED – 0x42 - MIP_RRP_CODE_FAILURE_FA_INSUFFICIENT_RESOURCES – 0x43 - MIP_RRP_CODE_FAILURE_FA_MOBILE_NODE_FAILED_AUTH – 0x44 - MIP_RRP_CODE_FAILURE_FA_HA_FAILED_AUTH – 0x45 - MIP_RRP_CODE_FAILURE_FA_REQUESTED_LIFETIME_TOO_LONG – 0x46 - MIP_RRP_CODE_FAILURE_FA_MALFORMED_REQUEST – 0x47 - MIP_RRP_CODE_FAILURE_FA_MALFORMED_REPLY – 0x48 - MIP_RRP_CODE_FAILURE_FA_ENCAPSULATION_UNAVAILABLE – 0x49 - MIP_RRP_CODE_FAILURE_FA_VJHC_UNAVAILABLE – 0x4A - MIP_RRP_CODE_FAILURE_FA_CANT_REV_TUN – 0x4B - MIP_RRP_CODE_FAILURE_FA_MUST_REV_TUN – 0x4C - MIP_RRP_CODE_FAILURE_FA_BAD_TTL – 0x4D - MIP_RRP_CODE_FAILURE_INVALID_COA – 0x4F - MIP_RRP_CODE_FAILURE_FA_DELIVERY_STYLE_NOT_SUPPORTED – 0x59 - MIP_RRP_CODE_FAILURE_FA_VS_REASON – 0x61 - MIP_RRP_CODE_FAILURE_MISSING_NAI – 0x62 - MIP_RRP_CODE_FAILURE_MISSING_HA_ADDR – 0x63 - MIP_RRP_CODE_FAILURE_MISSING_HOMEADDR – 0x68 - MIP_RRP_CODE_FAILURE_UNKNOWN_CHALLENGE – 0x69 - MIP_RRP_CODE_FAILURE_MISSING_CHALLENGE – 0x6A - MIP_RRP_CODE_FAILURE_STALE_CHALLENGE – 0x6B - MIP_RRP_CODE_FAILURE_MISSING_MN_FA – 0x80 - MIP_RRP_CODE_FAILURE_HA_REASON_UNSPECIFIED – 0x81 - MIP_RRP_CODE_FAILURE_HA_ADMIN_PROHIBITED – 0x82 - MIP_RRP_CODE_FAILURE_HA_INSUFFICIENT_RESOURCES – 0x83 - MIP_RRP_CODE_FAILURE_HA_MOBILE_NODE_FAILED_AUTH – 0x84 - MIP_RRP_CODE_FAILURE_HA_FA_FAILED_AUTH – 0x85 - MIP_RRP_CODE_FAILURE_HA_REG_ID_MISMATCH – 0x86 - MIP_RRP_CODE_FAILURE_HA_MALFORMED_REQUEST – 0x88 - MIP_RRP_CODE_FAILURE_UNKNOWN_HA – 0x89 - MIP_RRP_CODE_FAILURE_HA_CANT_REV_TUN – 0x8A - MIP_RRP_CODE_FAILURE_HA_MUST_REV_TUN – 0x8B - MIP_RRP_CODE_FAILURE_HA_ENCAPSULATION_UNAVAILABLE – 0x8F - MIP_RRP_CODE_FAILURE_REDIRECTED_HA – 0x90 - MIP_RRP_CODE_FAILURE_HA_BAD_AAA_AUTH – 0xFF - NA

8.166.2 Field Documentation

8.166.2.1 ULONG DataStatusDetail::IPAddress

8.166.2.2 BYTE DataStatusDetail::LastErrCode

8.167 DataULongLongTlv Struct Reference

Data Fields

- BYTE TlvPresent
- ULONGLONG ullData

8.167.1 Field Documentation

8.167.1.1 BYTE DataULongLongTlv::TlvPresent

8.167.1.2 ULONGLONG DataULongLongTlv::ullData

8.168 DataULongTlv Struct Reference

Data Fields

- BYTE TlvPresent
- ULONG ulData

8.168.1 Field Documentation

8.168.1.1 BYTE DataULongTlv::TlvPresent

8.168.1.2 ULONG DataULongTlv::ulData

8.169 DcsUsbPortNames Struct Reference

Data Fields

- CHAR AtCmdPort [32]
- CHAR NmeaPort [32]
- CHAR DmPort [32]

8.169.1 Field Documentation

8.169.1.1 CHAR DcsUsbPortNames::AtCmdPort[32]

8.169.1.2 CHAR DcsUsbPortNames::DmPort[32]

8.169.1.3 CHAR DcsUsbPortNames::NmeaPort[32]

8.170 delAssistDataStatus Struct Reference

Data Fields

- struct qmTlvResult results
- ULONG status

8.170.1 Detailed Description

Contain the parameters passed for SetLocDeleteAssistDataCallback by the device.

Parameters

status	• Status of the Delete Assist Data request • Valid values: – eQMI_LOC_SUCCESS (0) - Request was completed successfully – eQMI_LOC_GENERAL_FAILURE (1) - Request failed because of a general failure – eQMI_LOC_UNSUPPORTED (2) - Request failed because it is not supported – eQMI_LOC_INVALID_PARAMETER (3) - Request failed because it contained invalid parameters – eQMI_LOC_ENGINE_BUSY (4) - Request failed because the engine is busy – eQMI_LOC_PHONE_OFFLINE (5) - Request failed because the phone is offline – eQMI_LOC_TIMEOUT (6) - Request failed because it timed out – eQMI_LOC_CONFIG_NOT_SUPPORTED (7) - Request failed because an undefined configuration was requested – eQMI_LOC_INSUFFICIENT_MEMORY (8) - Request failed because the engine could not allocate sufficient memory for the request – eQMI_LOC_MAX_GEOFENCE_PROGRAMMED (9) - Request failed because the maximum number of Geofences are already programmed – eQMI_LOC_XTRA_VERSION_CHECK_FAILURE (10) - Location service failed because of an XTRA version-based file format check failure

Note

None

8.170.2 Field Documentation

8.170.2.1 struct qmTlvResult delAssistDataStatus::results

8.170.2.2 ULONG delAssistDataStatus::status

8.171 depersonalizationInformation Struct Reference

Data Fields

- BYTE feature
- BYTE operation
- BYTE ckLen
- BYTE ckVal [255]

8.171.1 Detailed Description

This structure contains the Depersonalization Information.

Parameters

feature	• Indicates the personalization feature to de-activate or unblock. – 0 - GW network personalization – 1 - GW network subset personalization – 2 - GW service provider personalization – 3 - GW corporate personalization – 4 - GW UIM personalization – 5 - 1X network type 1 personalization – 6 - 1X network type 2 personalization – 7 - 1X HRPD personalization – 8 - 1X service provider personalization – 9 - 1X corporate personalization – 10 - 1X RUIM personalization
operation	• Indicates the operation to perform. – 0 - Deactivate personalization. – 1 - Unblock personalization.
ckLen	• Length of the following elements i.e. control key value.
ckVal[MAX_DESCRIPTION_LENGTH]	• Control key value. • This value is a sequence of ASCII characters.

8.171.2 Field Documentation

8.171.2.1 BYTE depersonalizationInformation::ckLen

8.171.2.2 BYTE depersonalizationInformation::ckVal[255]

8.171.2.3 BYTE depersonalizationInformation::feature

8.171.2.4 BYTE depersonalizationInformation::operation

8.172 detailSvcInfo Struct Reference

Data Fields

- BYTE srvStatus
- BYTE srvCapability
- BYTE hdrSrvStatus
- BYTE hdrHybrid
- BYTE isSysForbidden

8.172.1 Detailed Description

This structure contains Detailed Service information

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

srvStatus	• Service status • Values: – 0x00 - No service – 0x01 - Limited service – 0x02 - Service available – 0x03 - Limited regional service – 0x04 - MS in power save or deep sleep
srvCapability	• System's service capability • Values: – 0x00 - No Service – 0x01 - Circuit-switched only – 0x02 - Packet-switched only – 0x03 - Circuit-switched and packet-switched – 0x04 - MS found the right system but not yet registered/attached
hdrSrvStatus	• HDR service status • Values: – 0x00 - No service – 0x01 - Limited service – 0x02 - Service available – 0x03 - Limited regional service – 0x04 - MS in power save or deep sleep
hdrHybrid	• HDR hybrid information • Values: – 0x00 - System is not hybrid – 0x01 - System is hybrid
isSysForbidden	• Forbidden system information • Values: – 0x00 - System is not a forbidden system – 0x01 - System is a forbidden system

8.172.2 Field Documentation

8.172.2.1 BYTE detailSvcInfo::hdrHybrid

8.172.2.2 BYTE detailSvcInfo::hdrSrvStatus

8.172.2.3 BYTE detailSvcInfo::isSysForbidden

8.172.2.4 BYTE detailSvcInfo::srvCapability

8.172.2.5 BYTE detailSvcInfo::srvStatus

8.173 DeviceConfigDetail Struct Reference

Data Fields

- BYTE Technology
- BYTE QLIC
- BYTE Chipset
- BYTE HWVersion

8.173.1 Detailed Description

This structure contains Device Configuration Details

Parameters

Technology	• Current technology in use – 0x00 - 1x RTT – 0x01 - EVDO Rev 0 – 0x02 - EVDO Rev A – 0xFF - NA
QLIC	• Quasi Linear Interference Cancellation – 0x00 - Not supported – 0x01 - Supported
Chipset	• Qualcomm platform – 0x4E - MDM6200 – 0x4F - MDM6600 – 0xFF - NA
HWVersion	• Hardware version – 0x00 - BSHWREV0 – 0x01 - BSHWREV1 – 0x02 - BSHWREV2 – 0x03 - BSHWREV3 – 0x04 - BSHWREVMAX – 0xFF - BSHWREVUNKNOWN

8.173.2 Field Documentation

8.173.2.1 BYTE DeviceConfigDetail::Chipset

8.173.2.2 BYTE DeviceConfigDetail::HWVersion

8.173.2.3 BYTE DeviceConfigDetail::QLIC

8.173.2.4 BYTE DeviceConfigDetail::Technology

8.174 DHCPOption Struct Reference

Data Fields

- BYTE optCode
- BYTE optValLen
- BYTE * pOptVal

8.174.1 Detailed Description

This structure contains DHCPv4 lease option values

Parameters

optCode	• Values – Option code
optValLen	• Values – Option value length
pOptValue	• Val – Option value

8.174.2 Field Documentation

8.174.2.1 BYTE DHCPOption::optCode

8.174.2.2 BYTE DHCPOption::optValLen

8.174.2.3 BYTE* DHCPOption::pOptVal

8.175 DHCPOptionList Struct Reference

Data Fields

- BYTE numOpt
- DHCPOption * pOptions

8.175.1 Detailed Description

This structure contains DHCPv4 lease option list

Parameters

optListSize	• Values – Size of Option List
pOptions	• Values – Options

8.175.2 Field Documentation

8.175.2.1 BYTE DHCPOptionList::numOpt

8.175.2.2 DHCPOption* DHCPOptionList::pOptions

8.176 diagInfo Struct Reference

Data Fields

- BYTE diagInfoLen
- BYTE diagnosticInfo [255]

8.176.1 Detailed Description

This structure contains Diagnostic Information

Parameters

diagInfoLen	• Provides the length of information which follow. • If zero(0) then no further information exists.
diagnosticInfo[MAX_DESCRIPTION_LENGTH]	• Diagnostic information.

8.176.2 Field Documentation

8.176.2.1 BYTE diagInfo::diagInfoLen

8.176.2.2 BYTE diagInfo::diagnosticInfo[255]

8.177 dirNum Struct Reference

Data Fields

- BYTE dirNumLen
- BYTE dirNum [255]

8.177.1 Detailed Description

This structure contains the parameters for Directory Number Information

Parameters

dirNumLen	• Number of sets of the following elements: – dir_num • If zero(0), then no information follows.
dirNum	• Directory number in ASCII characters.

8.177.2 Field Documentation

8.177.2.1 BYTE dirNum::dirNum[255]

8.177.2.2 BYTE dirNum::dirNumLen

8.178 dms_ActivationStatusTlv Struct Reference

Data Fields

- uint16_t TlvPresent
- uint32_t activationStatus

8.178.1 Detailed Description

Activation Status Tlv

Parameters

TlvPresent	• Tlv Present
activationStatus	• Service Activation Code – 0 - Service not activated – 1 - Service activated – 2 - Activation connecting – 3 - Activation connected – 4 - OTASP security authenticated – 5 - OTASP NAM downloaded – 6 - OTASP MDN downloaded – 7 - OTASP IMSI downloaded – 8 - OTASP PRL downloaded – 9 - OTASP SPC downloaded – 10 - OTASP settings committed

8.178.2 Field Documentation

8.178.2.1 uint32_t dms_ActivationStatusTlv::activationStatus

8.178.2.2 uint16_t dms_ActivationStatusTlv::TlvPresent

8.179 dms_OperatingModeTlv Struct Reference

Data Fields

- uint16_t TlvPresent
- uint32_t operatingMode

8.179.1 Detailed Description

Operating Mode Tlv

Parameters

TlvPresent	• Tlv Present
operatingMode	• 0 - Online • 1 - Low power • 2 - Factory test mode • 3 - Offline • 4 - Resetting • 5 - Shutting down • 6 - Persistent low power • 7 - Mode-only low power

8.179.2 Field Documentation

8.179.2.1 uint32_t dms_OperatingModeTlv::operatingMode

8.179.2.2 uint16_t dms_OperatingModeTlv::TlvPresent

8.180 dms_PSMActiveTimerIndTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint32_t ActiveTimerInd

8.180.1 Detailed Description

This Structure used to store DMS PSM Active Timer TLV Value.

Parameters

TlvPresent	• Boolean indicating the presence of the TLV in the QMI response
ActiveTimerInd	• Active Timer • PSM active timer value (in seconds).

8.180.2 Field Documentation

8.180.2.1 uint32_t dms_PSMActiveTimerIndTlv::ActiveTimerInd

8.180.2.2 uint8_t dms_PSMActiveTimerIndTlv::TlvPresent

8.181 dms_PSMActiveTimerTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint32_t activeTimer

8.181.1 Detailed Description

This structure contains the parameters for Power Save Mode active timer.

Parameters

TlvPresent	• Tlv Present.
activeTimer	Active Timer • Power Save mode active timer value (in seconds).

8.181.2 Field Documentation

8.181.2.1 uint32_t dms_PSMActiveTimerTlv::activeTimer

8.181.2.2 uint8_t dms_PSMActiveTimerTlv::TlvPresent

8.182 dms_PSMDurationDueToOOSTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint32_t durationDueToOOS

8.182.1 Detailed Description

This structure contains the parameters for Power Save Mode Duration due to an outage.

Parameters

TlvPresent	• Tlv Present.
durationDueTo-OOS	Duration Due to OOS • Power Save mode duration due to an outage (in seconds).

8.182.2 Field Documentation

8.182.2.1 uint32_t dms_PSMDurationDueToOOSTlv::durationDueToOOS

8.182.2.2 uint8_t dms_PSMDurationDueToOOSTlv::TlvPresent

8.183 dms_PSMDurationThresholdTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint32_t durationThreshold

8.183.1 Detailed Description

This structure contains the parameters for Power Save Mode Duration Threshold.

Parameters

TlvPresent	• Tlv Present.
duration-Threshold	Duration Threshold • Minimum duration for the device to benefit by entering PSM (in seconds).

8.183.2 Field Documentation

8.183.2.1 uint32_t dms_PSMDurationThresholdTlv::durationThreshold

8.183.2.2 uint8_t dms_PSMDurationThresholdTlv::TlvPresent

8.184 dms_PSMEarlyWakeupTimeTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint32_t earlyWakeupTime

8.184.1 Detailed Description

This structure contains the parameters for Power Save Mode early wakeup time.

Parameters

TlvPresent	• Tlv Present.
earlyWakeup-Time	• Early Wakeup Time • Power Save mode early wakeup time (in seconds) indicating how early the device should exit PSM to offset for bootup and acquisition delay.

8.184.2 Field Documentation

8.184.2.1 uint32_t dms_PSMEarlyWakeupTimeTlv::earlyWakeupTime

8.184.2.2 uint8_t dms_PSMEarlyWakeupTimeTlv::TlvPresent

8.185 dms_PSMEnableStateIndTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint8_t EnableStateInd

8.185.1 Detailed Description

This Structure used to store DMS PSM Enable state TLV Value.

Parameters

TlvPresent	• Boolean indicating the presence of the TLV in the QMI response

EnableStateInd	• PSM Enable State
	• Values
	  – 0 - PSM is not enabled
	  – 1 - PSM is enabled

8.185.2 Field Documentation

8.185.2.1 uint8_t dms_PSMEnableStateIndTlv::EnableStateInd

8.185.2.2 uint8_t dms_PSMEnableStateIndTlv::TlvPresent

8.186 dms_PSMEnableStateTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint8_t enableState

8.186.1 Detailed Description

This structure contains the parameters for Power Save Mode Enable State.

Parameters

TlvPresent	• Tlv Present.
enableState	Power Save Mode Enable State Values • 0 - PSM is not enabled • 1 - PSM is enabled

8.186.2 Field Documentation

8.186.2.1 uint8_t dms_PSMEnableStateTlv::enableState

8.186.2.2 uint8_t dms_PSMEnableStateTlv::TlvPresent

8.187 dms_PSMPeriodicUpdateTimerIndTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint32_t PeriodicUpdateTimerInd

8.187.1 Detailed Description

This Structure used to store DMS PSM Periodic Update Timer TLV Value.

Parameters

TlvPresent	• Boolean indicating the presence of the TLV in the QMI response
PeriodicUpdate-TimerInd	• Periodic Update Timer • PSM periodic update timer value (in seconds).

8.187.2 Field Documentation

8.187.2.1 uint32_t dms_PSMPeriodicUpdateTimerIndTlv::PeriodicUpdateTimerInd

8.187.2.2 uint8_t dms_PSMPeriodicUpdateTimerIndTlv::TlvPresent

8.188 dms_PSMPeriodicUpdateTimerTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint32_t periodicUpdateTimer

8.188.1 Detailed Description

This structure contains the parameters for Power Save Mode periodic update timer.

Parameters

TlvPresent	• Tlv Present.
periodicUpdateTimer	Periodic Update Timer • Power Save mode periodic update timer value (in seconds).

8.188.2 Field Documentation

8.188.2.1 uint32_t dms_PSMPeriodicUpdateTimerTlv::periodicUpdateTimer

8.188.2.2 uint8_t dms_PSMPeriodicUpdateTimerTlv::TlvPresent

8.189 dms_PSMRandomizationWindowTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint32_t randomizationWindow

8.189.1 Detailed Description

This structure contains the parameters for Power Save Mode wakeup randomization window.

Parameters

TlvPresent	• Tlv Present.
randomizationWindow	Randomization Window • Power Save mode wakeup randomization window (in seconds)

8.189.2 Field Documentation

8.189.2.1 uint32_t dms_PSMRandomizationWindowTlv::randomizationWindow

8.189.2.2 uint8_t dms_PSMRandomizationWindowTlv::TlvPresent

8.190 dms_TemperatureTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint8_t TempStat
- uint16_t Temperature

8.190.1 Detailed Description

This structure stores information about temperature TLV.

Parameters

TlvPresent	• value is 1 if this TLV is present in indication, otherwise 0
TempStat	• Temperature state – 0 – unknown – 1 – normal – 2 – high (warning) – 3 – high (critical) – 4 – low (critical)
Temperature	• temperature in degree celsius

8.190.2 Field Documentation

8.190.2.1 uint16_t dms_TemperatureTlv::Temperature

8.190.2.2 uint8_t dms_TemperatureTlv::TempStat

8.190.2.3 uint8_t dms_TemperatureTlv::TlvPresent

8.191 dms_VoltageTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint8_t VoltStat
- uint16_t Voltage

8.191.1 Detailed Description

This structure stores information about voltage TLV.

Parameters

TlvPresent	• value is 1 if this TLV is present in indication, otherwise 0
VoltStat	• Voltage state – 0 – unknown – 1 – normal – 2 – low (warning) – 3 – low (critical) – 4 – high (critical)

Voltage	• Voltage in mV

8.191.2 Field Documentation

8.191.2.1 uint8_t dms_VoltageTlv::TlvPresent

8.191.2.2 uint16_t dms_VoltageTlv::Voltage

8.191.2.3 uint8_t dms_VoltageTlv::VoltStat

8.192 dmsCurrentPRLInfo Struct Reference

Data Fields

- WORD * pPRLVersion
- BYTE * pPRLPreference

8.192.1 Detailed Description

This structure contains GetCurrentPRLInfo response parameter

Parameters

pPRLVersion[OUT]	- Optional • PRL version of device.
pPRLPreference	[OUT]- Optional • PRL Preference – 0 - Unset – 1 - Set

8.192.2 Field Documentation

8.192.2.1 BYTE* dmsCurrentPRLInfo::pPRLPreference

8.192.2.2 WORD* dmsCurrentPRLInfo::pPRLVersion

8.193 DMScustSettingInfo Struct Reference

Data Fields

- uint16_t id_length
- uint8_t cust_id [64+1]
- uint16_t value_length
- uint8_t cust_value [8+1]
- uint16_t cust_attr

8.193.1 Detailed Description

This structure contains information about Customization Setting. This TLV is only applicable for 9x30 modules so far

Parameters

id_length	• length of cust_id field
cust_id	• Customization ID (Maximum 64 bytes) • NULL terminated ASCII string.
value_length	• length of cust_value field
cust_value	• Customization Setting Value (Maximum 8 bytes)
cust_attr	• Customization Setting attribute through QMI – bit 0: Values: * 0 - read only * 1 - read/write

8.193.2 Field Documentation

8.193.2.1 uint16_t DMScustSettingInfo::cust_attr

8.193.2.2 uint8_t DMScustSettingInfo::cust_id[64+1]

8.193.2.3 uint8_t DMScustSettingInfo::cust_value[8+1]

8.193.2.4 uint16_t DMScustSettingInfo::id_length

8.193.2.5 uint16_t DMScustSettingInfo::value_length

8.194 DMScustSettingList Struct Reference

Data Fields

- uint8_t list_type
- uint16_t num_instances
- DMScustSettingInfo custSetting [255+1]

8.194.1 Detailed Description

This structure contains the fields of TLV Customization Setting List. This TLV is only applicable for 9x30 modules so far

Parameters

list_type	• list type requested
num_instances	• number of instances of customization setting
custSetting	• See DMScustSettingInfo for more information

8.194.2 Field Documentation

8.194.2.1 DMScustSettingInfo DMScustSettingList::custSetting[255+1]

8.194.2.2 uint8_t DMScustSettingList::list_type

8.194.2.3 uint16_t DMScustSettingList::num_instances

8.195 DMSgetCustomFeatureV2 Struct Reference

Data Fields

- DMSgetCustomInput ∗ pGetCustomInput
- DMScustSettingInfo ∗ pCustSettingInfo
- DMScustSettingList ∗ pCustSettingList

8.195.1 Detailed Description

This struture contains the TLV required to get the Customization Info and customization list.

Parameters

pGetCustom-Input[IN]	• See DMSgetCustomInput for more information
pCustSetting-Info[OUT]	• See DMScustSettingInfo for more information
pCustSetting-List[OUT]	• See DMScustSettingList for more information

8.195.2 Field Documentation

8.195.2.1 DMScustSettingInfo∗ DMSgetCustomFeatureV2::pCustSettingInfo

8.195.2.2 DMScustSettingList∗ DMSgetCustomFeatureV2::pCustSettingList

8.195.2.3 DMSgetCustomInput∗ DMSgetCustomFeatureV2::pGetCustomInput

8.196 DMSgetCustomInput Struct Reference

Data Fields

- uint8_t cust_id [64+1]
- uint8_t list_type

8.196.1 Detailed Description

This structure contains which customization id or the list type want to retrieve from modem. This TLV is only applicable for 9x30 modules so far

Parameters

cust_id	• Customization ID (Maximum 64 bytes) • NULL terminated ASCII string.
list_type	• list type requested

8.196.2 Field Documentation

8.196.2.1 uint8_t DMSgetCustomInput::cust_id[64+1]

8.196.2.2 uint8_t DMSgetCustomInput::list_type

8.197 dmsIndicationRegisterReq Struct Reference

Data Fields

- BYTE * pSwiGetResetInd

8.197.1 Detailed Description

This structure contains the SLQSDmsSwiIndicationRegister request parameters.

Parameters

pGetResetInd	[IN,Optional] • Get Reset Info indication registration. The following callbacks would not be invoked if the indication is disabled. – 0x00 - Disable – 0x01 - Enable

Note

'NULL' value confirms that the indication value is not sent.

8.197.2 Field Documentation

8.197.2.1 BYTE∗ dmsIndicationRegisterReq::pSwiGetResetInd

8.198 dmsPsmCfgParamChange Struct Reference

Data Fields

- BYTE ∗ pEnableState
- ULONG ∗ pActiveTimer
- ULONG ∗ pPeriodicUpdateTimer

8.198.1 Detailed Description

Contains the parameters passed for SLQSSetIMSARegStatusCallback by the device.

Parameters

pEnableState	• PSM Enable State • Values – 0 - PSM is not enabled – 1 - PSM is enabled
pActiveTimer	• Active Timer • PSM active timer value (in seconds).
pPeriodic-UpdateTimer	• Periodic Update Timer • PSM periodic update timer value (in seconds).

8.198.2 Field Documentation

8.198.2.1 ULONG∗ dmsPsmCfgParamChange::pActiveTimer

8.198.2.2 BYTE∗ dmsPsmCfgParamChange::pEnableState

8.198.2.3 ULONG∗ dmsPsmCfgParamChange::pPeriodicUpdateTimer

8.199 dmsSwiGetPCInfo Struct Reference

Data Fields

- BYTE opMode
- ULONG ∗ pLpmFlag
- BYTE ∗ pWdisable
- BYTE ∗ pPowerOffMode
- BYTE ∗ pPersistentLpm

8.199.1 Detailed Description

This structure contains the TLV required to Get device power control status information.

Parameters

[OUT]	opMode • Selected operating mode. • Values – 0 - Online – 1 - Low power – 2 - Factory Test mode – 3 - Offline – 4 - Resetting – 5 - Shutting down – 6 - Persistent low power – 8 - Conducting network test for GSM/WCDMA
[OUT]	pLpmFlag[Optional] • LPM Force Flags • Bitmask – bit0 - Tracks the state of W_DISABLE TLV, indicating state of the W_DISABLE switch. – bit1 - Set if LPM is requested by a host request, such as AT command, QMI or MBIM request. Cleared by a host request to return to online mode. Also set when the device is cold or warm booted in persistent LPM. – bit2 - Set when the device temperature is outside the valid operating range. Cleared if the temperature returns to the normal range. – bit3 - Set when the device voltage is outside the valid operating range. Cleared if the voltage returns to the normal range. – bit4 - Set on power up when BIOS locking is enabled. Cleared when the host has disabled the BIOS lock. – bit5 - Set if the current device configuration does not match the GOBI image preference. – bit6-31 - Additional LPM causes may be added to future products.
[OUT]	pWdisable[Optional] • W_DISABLE • Values – 0 - Switch set to ON position – 1 - Switch set to OFF position
[OUT]	pPowerOffMode[Optional] • Power-off Mode • Action taken when W_DISABLE is switched to the OFF position – 0 - LPM – 1 - Shutdown – 2 - Ignore
[OUT]	pPersistentLpm[Optional] • LPM Persistence • Values – 0 - Non-persistent LPM – 1 - Persistent LPM

8.199.2 Field Documentation

8.199.2.1 BYTE dmsSwiGetPCInfo::opMode

8.199.2.2 ULONG* dmsSwiGetPCInfo::pLpmFlag

8.199.2.3 BYTE* dmsSwiGetPCInfo::pPersistentLpm

8.199.2.4 BYTE* dmsSwiGetPCInfo::pPowerOffMode

8.199.2.5 BYTE* dmsSwiGetPCInfo::pWdisable

8.200 dmsSwiGetResetInfo Struct Reference

Data Fields

- BYTE type
- BYTE source

8.200.1 Detailed Description

This structure contains the TLV required to Get Reset Info.

Parameters

OUT]	type[OUT] • type of reset or power down, possible values listed below: – 0 - unknown – 1 - warm – 2 - hard – 3 - crash – 4 - power down
OUT]	source[OUT] • entity which initiated the reset or power down, possible values listed below: – 0 - unknown – 1 - user requested – 2 - hardware switch – 3 - temperature critical – 4 - voltage critical – 5 - configuration update – 6 - LWM2M – 7 - OMA-DM – 8 - FOTA

8.200.2 Field Documentation

8.200.2.1 BYTE dmsSwiGetResetInfo::source

8.200.2.2 BYTE dmsSwiGetResetInfo::type

8.201 Domain Struct Reference

Data Fields

- WORD domainLen
- CHAR domainName [256]

8.201.1 Detailed Description

This structure contains the DomainName Information

Parameters

domainLen	• length of the received Domain name
domainName	• Domain name(Max 256 characters)

8.201.2 Field Documentation

8.201.2.1 WORD Domain::domainLen

8.201.2.2 CHAR Domain::domainName[256]

8.202 DomainNameList Struct Reference

Data Fields

- BYTE numInstances
- struct Domain domain [10]

8.202.1 Detailed Description

This structure contains the DomainNameList Information

Parameters

numInstances	• Number of Domain name received
domain	• Domain name information(Max 10 Domain names)

8.202.2 Field Documentation

8.202.2.1 struct Domain DomainNameList::domain[10]

8.202.2.2 BYTE DomainNameList::numInstances

8.203 DRCParams Struct Reference

Data Fields

- BYTE DRCValue
- BYTE DRCCover

8.203.1 Detailed Description

This structure contains Data Rate Channel parameters

Parameters

DRCValue	• Current Data Rate Channel
DRCCover	• Current Data Rate Channel cover

8.203.2 Field Documentation

8.203.2.1 BYTE DRCParams::DRCCover

8.203.2.2 BYTE DRCParams::DRCValue

8.204 DTMFInfo Struct Reference

Data Fields

- BYTE callID
- BYTE DTMFEvent
- BYTE digitCnt
- BYTE digitBuff [255]

8.204.1 Detailed Description

This structure contains information about the DTMF (Dual Tone Multi-Frequency).

Parameters

callID	• Call identifier for the current call.
DTMFEvent	• DTMF event – 0x00 - DTMF_EVENT_REV_BURST - Sends a CDMA-burst DTMF – 0x01 - DTMF_EVENT_REV_START_CONT - Starts a continuous DTMF tone – 0x03 - DTMF_EVENT_REV_STOP_CONT - Stops a continuous DTMF tone – 0x05 - DTMF_EVENT_FWD_BURST - Received a CDMA-burst DTMF message – 0x06 - DTMF_EVENT_FWD_START_CONT - Received a start-continuous DTMF tone order – 0x07 - DTMF_EVENT_FWD_STOP_CONT - Received a stop-continuous DTMF tone order

digitCnt	• Number of set of following element i.e. digitBuff.
digitBuff[MAX_-DESCRIPTION-_LENGTH]	• DTMF digit buffer in ASCII string which is NULL terminated

8.204.2 Field Documentation

8.204.2.1 BYTE DTMFInfo::callID

8.204.2.2 BYTE DTMFInfo::digitBuff[255]

8.204.2.3 BYTE DTMFInfo::digitCnt

8.204.2.4 BYTE DTMFInfo::DTMFEvent

8.205 DTMFLengths Struct Reference

Data Fields

- BYTE DTMFPulseWidth
- BYTE DTMFInterdigitInterval

8.205.1 Detailed Description

This structure contains Voice Burst DTMF pulse length information

Parameters

DTMFPulse-Width	• DTMF pulse width. Values: – 0x00 - DTMF_ONLENGTH_95MS - 95 ms – 0x01 - DTMF_ONLENGTH_150MS - 150 ms – 0x02 - DTMF_ONLENGTH_200MS - 200 ms – 0x03 - DTMF_ONLENGTH_250MS - 250 ms – 0x04 - DTMF_ONLENGTH_300MS - 300 ms – 0x05 - DTMF_ONLENGTH_350MS - 350 ms – 0x06 - DTMF_ONLENGTH_SMS SMS Tx special pulse width
DTMFInterdigit-Interval	• DTMF interdigit interval Values: – 0x00 - DTMF_OFFLENGTH_60MS - 60 ms – 0x01 - DTMF_OFFLENGTH_100MS - 100 ms – 0x02 - DTMF_OFFLENGTH_150MS - 150 ms – 0x03 - DTMF_OFFLENGTH_200MS - 200 ms

8.205.2 Field Documentation

8.205.2.1 BYTE DTMFLengths::DTMFInterdigitInterval

8.205.2.2 BYTE DTMFLengths::DTMFPulseWidth

8.206 DUNCallInfoInd Struct Reference

Data Fields

- BYTE MdmConnStatus
- WORD CallEndReason
- ULONGLONG TXOKBytesCount
- ULONGLONG RXOKBytesCount
- BYTE DormancyStatus
- BYTE DataBearerTech
- channelRate ChannelRate

8.206.1 Field Documentation

8.206.1.1 WORD DUNCallInfoInd::CallEndReason

8.206.1.2 channelRate DUNCallInfoInd::ChannelRate

8.206.1.3 BYTE DUNCallInfoInd::DataBearerTech

8.206.1.4 BYTE DUNCallInfoInd::DormancyStatus

8.206.1.5 BYTE DUNCallInfoInd::MdmConnStatus

8.206.1.6 ULONGLONG DUNCallInfoInd::RXOKBytesCount

8.206.1.7 ULONGLONG DUNCallInfoInd::TXOKBytesCount

8.207 dunchannelRate Struct Reference

Data Fields

- uint32_t CurrChanTxRate
- uint32_t CurrChanRxRate
- uint32_t MaxChanTxRate
- uint32_t MaxChanRxRate

8.207.1 Detailed Description

This structure contains Channel Rate

Parameters

CurrChanTxRate	• Instantaneous channel Tx rate in bits per second • 0xffffffff - Invalid data.

CurrChanRx-Rate	• Instantaneous channel Rx rate in bits per second • 0xffffffff - Invalid data.
MaxChanTxRate	• maximum Tx rate that can be assigned to the device by the serving system in bits per second • 0xffffffff - Invalid data.
MaxChanRx-Rate	• maximum Rx rate that can be assigned to the device by the serving system in bits per second • 0xffffffff - Invalid data.

8.207.2 Field Documentation

8.207.2.1 uint32_t dunchannelRate::CurrChanRxRate

8.207.2.2 uint32_t dunchannelRate::CurrChanTxRate

8.207.2.3 uint32_t dunchannelRate::MaxChanRxRate

8.207.2.4 uint32_t dunchannelRate::MaxChanTxRate

8.208 ecioListElement Struct Reference

Data Fields

- SHORT ecio
- BYTE radioIf

8.208.1 Detailed Description

This structure contains the ECIO Information

Parameters

ecio	• ECIO value in dBm
radioIf	• Radio interface technology of the signal being measured – 0x00 - RADIO_IF_NO_SVC - None (no service) – 0x01 - RADIO_IF_CDMA_1X - cdma2000Â® 1X – 0x02 - RADIO_IF_CDMA_1XEVDO - cdma2000 HRPD (1xEV-DO) – 0x03 - RADIO_IF_AMPS - AMPS – 0x04 - RADIO_IF_GSM - GSM – 0x05 - RADIO_IF_UMTS - UMTS

8.208.2 Field Documentation

8.208.2.1 SHORT ecioListElement::ecio

8.208.2.2 BYTE ecioListElement::radioIf

8.209 ECIOThresh Struct Reference

Data Fields

- BYTE ECIOThresListLen
- SHORT * pECIOThresList

8.209.1 Detailed Description

This structure contains ECIO threshold related parameters.

Parameters

ECIOThresList-Len	• Length of the ECIO threshold list parameter to follow
pECIOThresList	• Sequence of thresholds delimiting ECIO event reporting bands • Every time a new ECIO value crosses a threshold value, an event report indication message with the new ECIO value is sent to the requesting control point. For this field – Each ECIO threshold value is a signed 2 byte value – Each ECIO threshold value increments in negative 0.5 dB, e.g., an ECIO threshold value of 2 means -1dB – Maximum number of threshold values is 16 – At least one value must be specified – Threshold values specified above are used for all RATs

8.209.2 Field Documentation

8.209.2.1 BYTE ECIOThresh::ECIOThresListLen

8.209.2.2 SHORT* ECIOThresh::pECIOThresList

8.210 ECTNum Struct Reference

Data Fields

- BYTE ECTCallState
- BYTE presentationInd
- BYTE number [81]

8.210.1 Detailed Description

Contains the parameters passed for Explicit Communication Transfer by the device.

Parameters

ECTCallState	• ECT call state: – 0x00 - ECT_CALL_STATE_NONE - None – 0x01 - ECT_CALL_STATE_ALERTING - Alerting – 0x02 - ECT_CALL_STATE_ACTIVE - Active
presentationInd	• Presentation indicator – 0x00 - presentationAllowedAddress – 0x01 - presentationRestricted – 0x02 - numberNotAvailable – 0x04 - presentationRestrictedAddress
number	• Number in ASCII characters terminated by NULL

8.210.2 Field Documentation

8.210.2.1 BYTE ECTNum::ECTCallState

8.210.2.2 BYTE ECTNum::number[81]

8.210.2.3 BYTE ECTNum::presentationInd

8.211 ehrpdMTUSizeTlv Struct Reference

Data Fields

- BYTE TlvPresent
- WORD ehrpdMTUSize

8.211.1 Detailed Description

This structure contains the parameters for EHRPD MTU Size.

Parameters

TlvPresent	• Tlv Present.
ehrpdMTUSize	EHRPD size • Size of EHRPD MTU

8.211.2 Field Documentation

8.211.2.1 WORD ehrpdMTUSizeTlv::ehrpdMTUSize

8.211.2.2 BYTE ehrpdMTUSizeTlv::TlvPresent

8.212 encryptedPIN1 Struct Reference

Data Fields

- BYTE pin1Len
- BYTE pin1Val [255]

8.212.1 Detailed Description

This structure contains the encrypted PIN1 Information.

Parameters

pin1Len	• Number of sets of the following elements ie encrypted PIN1 value. • If zero(0), no information follows.
pin1Val	• Encrypted PIN1 value.

Note

This value is returned only when PIN1 is enabled successfully and the feature is supported.

8.212.2 Field Documentation

8.212.2.1 BYTE encryptedPIN1::pin1Len

8.212.2.2 BYTE encryptedPIN1::pin1Val[255]

8.213 eriDataparams Struct Reference

Data Fields

- uint16_t eriDataLen
- uint8_t eriData [1024]

8.213.1 Detailed Description

This structure contains Extended Roaming Indicator(ERI) file parameters

Parameters

eriDataLen	• Upon input, the maximum number of bytes that file contents array can contain. • Upon successful output, actual number of bytes written to file contents array
eriData	• ERI data read from persistent storage(Max size is 1024)

8.213.2 Field Documentation

8.213.2.1 uint8_t eriDataparams::eriData[1024]

8.213.2.2 uint16_t eriDataparams::eriDataLen

8.214 ERIFileparams Struct Reference

Data Fields

- WORD * pFileSize
- BYTE * pFile

8.214.1 Detailed Description

This structure contains Extended Roaming Indicator(ERI) file parameters

Parameters

pFileSize[IN/OUT]	• Upon input, the maximum number of bytes that file contents array can contain. • Upon successful output, actual number of bytes written to file contents array
pFile[OUT]	• ERI data read from persistent storage(Max size is 1024)

8.214.2 Field Documentation

8.214.2.1 BYTE* ERIFileparams::pFile

8.214.2.2 WORD* ERIFileparams::pFileSize

8.215 errorRateListElement Struct Reference

Data Fields

- USHORT errorRate
- BYTE radioIf

8.215.1 Detailed Description

This structure contains the Error Rate Information

Parameters

errorRate	• Error rate value corresponds to the RAT that is currently registered. – For CDMA, the error rate reported is Frame Error Rate: * Valid error rate values between 1 and 10000 are returned to indicate percentage, e.g., a value of 300 means the error rate is 3% * A value of 0xFFFF indicates that the error rate is unknown or unavailable – For HDR, the error rate reported is Packet Error Rate: * Valid error rate values between 1 and 10000 are returned to indicate percentage, e.g., a value of 300 means the error rate is 3% * A value of 0xFFFF indicates that the error rate is unknown or unavailable – For GSM, the error rate reported is Bit Error Rate: * Valid values are 0, 100, 200, 300, 400, 500, 600, and 700 The reported value divided by 100 gives the error rate as an RxQual value, e.g.,a value of 300 represents an RxQual value of 3. * A value of 25500 indicates No Data – For WCDMA, the error rate reported is Block Error Rate (BLER): * Valid values are 1 to 10000 * The reported value divided by 100 provides the error rate in percentages, e.g., a value of 300 represents a BLER of 3%. * A value of 0 indicates No Data
radioIf	• Radio interface technology of the signal being measured – 0x00 - RADIO_IF_NO_SVC - None (no service) – 0x01 - RADIO_IF_CDMA_1X - cdma2000Â® 1X – 0x02 - RADIO_IF_CDMA_1XEVDO - cdma2000 HRPD (1xEV-DO) – 0x03 - RADIO_IF_AMPS - AMPS – 0x04 - RADIO_IF_GSM - GSM – 0x05 - RADIO_IF_UMTS - UMTS

8.215.2 Field Documentation

8.215.2.1 USHORT errorRateListElement::errorRate

8.215.2.2 BYTE errorRateListElement::radioIf

8.216 eTWSPLMNInfoTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- sMSEtwsPlmnInfo ETWSPLMNInfo

8.216.1 Detailed Description

This structure contains ETWS PLMN TLV information

Parameters

TlvPresent	• Boolean indicating the presence of the TLV in the QMI response
ETWSPLMNInfo	• ETWS PLMN Information • See sMSEtwsPlmnInfo for more information

8.216.2 Field Documentation

8.216.2.1 sMSEtwsPlmnInfo eTWSPLMNInfoTlv::ETWSPLMNInfo

8.216.2.2 uint8_t eTWSPLMNInfoTlv::TlvPresent

8.217 extDispRecInfo Struct Reference

Data Fields

- BYTE dispType
- BYTE extDispInfoLen
- BYTE extDispInfo [255]

8.217.1 Detailed Description

This structure contains Line Control Information

Parameters

dispType	• Values are per [S1, Table 3.7.5.16-1].
extDispInfoLen	• Number of sets of the following elements: – ext_display_info
extDispInfo	• Extended display information buffer containing the display record; refer to [S1, Section 3.7.5.16] for the format information of the buffer contents.

8.217.2 Field Documentation

8.217.2.1 BYTE extDispRecInfo::dispType

8.217.2.2 BYTE extDispRecInfo::extDispInfo[255]

8.217.2.3 BYTE extDispRecInfo::extDispInfoLen

8.218 FactorySequenceNumber Struct Reference

Data Fields

- BYTE FSNumber [255]

8.218.1 Detailed Description

This structure used to store Factory Sequence Number parameter

Parameters

FSNumber[OUT]	• Facorty Sequence Number • Maximum Length is 255 Bytes

8.218.2 Field Documentation

8.218.2.1 BYTE FactorySequenceNumber::FSNumber[255]

8.219 fileAttributes Struct Reference

Data Fields

- WORD fileSize
- WORD fileID
- BYTE fileType
- WORD recordSize
- WORD recordCount
- BYTE secRead
- WORD secReadMask
- BYTE secWrite
- WORD secWriteMask
- BYTE secIncrease
- WORD secIncreaseMask
- BYTE secDeactivate
- WORD secDeactivateMask
- BYTE secActivate
- WORD secActivateMask
- WORD rawLen
- BYTE rawValue [255]

8.219.1 Detailed Description

This structure contains the information about the File Attributes.

Parameters

fileSize	• Indicates the size of the file.
fileID	• Indicates the ID of the file.

fileType	• Indicates the type of the file. – 0 - Transparent – 1 - Cyclic – 2 - Linear fixed – 3 - Dedicated file – 4 - Master file
recordSize	• Indicates the size of the records. • Only for cyclic and linear fixed files
recordCount	• Indicates the total no. of the records. • Only for linear fixed files
secRead	• Read security attributes. – 0 - Always – 1 - Never – 2 - AND condition – 3 - OR condition – 4 - Single condition
secReadMask	• Mask with read security attributes. • This field is valid only when required by security attributes. – Bit 0 - PIN1 – Bit 1 - PIN2 – Bit 2 - UPIN – Bit 3 - ADM
secWrite	• Write security attributes. – 0 - Always – 1 - Never – 2 - AND condition – 3 - OR condition – 4 - Single condition
secWriteMask	• Mask with write security attributes. • This field is valid only when required by security attributes. – Bit 0 - PIN1 – Bit 1 - PIN2 – Bit 2 - UPIN – Bit 3 - ADM

secIncrease	• Increase security attributes. – 0 - Always – 1 - Never – 2 - AND condition – 3 - OR condition – 4 - Single condition
secIncrease-Mask	• Mask with increase security attributes. • This field is valid only when required by security attributes. – Bit 0 - PIN1 – Bit 1 - PIN2 – Bit 2 - UPIN – Bit 3 - ADM
secDeactivate	• Deactivate security attributes. – 0 - Always – 1 - Never – 2 - AND condition – 3 - OR condition – 4 - Single condition
secDeactivate-Mask	• Mask with deactivate security attributes. • This field is valid only when required by security attributes. – Bit 0 - PIN1 – Bit 1 - PIN2 – Bit 2 - UPIN – Bit 3 - ADM
secActivate	• Activate security attributes. – 0 - Always – 1 - Never – 2 - AND condition – 3 - OR condition – 4 - Single condition
secActivateMask	• Mask with activate security attributes. • This field is valid only when required by security attributes. – Bit 0 - PIN1 – Bit 1 - PIN2 – Bit 2 - UPIN – Bit 3 - ADM
rawLen	• Length of the following elements i.e. raw value.

rawValue[MAX_-DESCRIPTION-_LENGTH]	• Raw value of file attributes.

8.219.2 Field Documentation

8.219.2.1 WORD fileAttributes::fileID

8.219.2.2 WORD fileAttributes::fileSize

8.219.2.3 BYTE fileAttributes::fileType

8.219.2.4 WORD fileAttributes::rawLen

8.219.2.5 BYTE fileAttributes::rawValue[255]

8.219.2.6 WORD fileAttributes::recordCount

8.219.2.7 WORD fileAttributes::recordSize

8.219.2.8 BYTE fileAttributes::secActivate

8.219.2.9 WORD fileAttributes::secActivateMask

8.219.2.10 BYTE fileAttributes::secDeactivate

8.219.2.11 WORD fileAttributes::secDeactivateMask

8.219.2.12 BYTE fileAttributes::secIncrease

8.219.2.13 WORD fileAttributes::secIncreaseMask

8.219.2.14 BYTE fileAttributes::secRead

8.219.2.15 WORD fileAttributes::secReadMask

8.219.2.16 BYTE fileAttributes::secWrite

8.219.2.17 WORD fileAttributes::secWriteMask

8.220 fileInfo Struct Reference

Data Fields

- WORD fileID
- BYTE pathLen
- WORD path [255]

8.220.1 Detailed Description

This structure contains paramaters for file Information

Parameters

fileID	• This is Identifier to SIM files; e.g. in UIM "6F07" is Identifier of IMSI File
pathLen	• Length of file Path
path	• Path value. This value must be the complete path of the file, which is a sequence block of 2 bytes (e.g., 0x3F00 0x7FFF)is for LTE and (0x3F00 ,0x7F20) is for GSM.

8.220.2 Field Documentation

8.220.2.1 WORD fileInfo::fileID

8.220.2.2 WORD fileInfo::path[255]

8.220.2.3 BYTE fileInfo::pathLen

8.221 FirmwareUpdatStat Struct Reference

Data Fields

- ULONG ResCode
- BYTE * pImgType
- ULONG * pRefData
- BYTE * pRefStringLen
- BYTE * pRefString
- BYTE * pLogStringLen
- BYTE * pLogString

8.221.1 Detailed Description

This structure is used to store Firmware Update Status

Parameters

ResCode[OUT]	• FW Update Result Code • Values: – 0x00000001 - Successful – 0xFFFFFFFF - Unknown (due to power off reset after firmware update) – 0x100000nn - File update errors while nn will be the exact error number: * 00 - General error – 0x200000nn - NVUP update errors while nn will be the exact error number: * 00 - General error – 0x40000nnn - FOTA update agent errors while nnn will be the exact error number: * 000 ∼ 0FF - Insignia defined error code * 100 ∼ 1FF - Sierra defined error code * See qaGobiApiTableFwDldErrorCodes.h for more detailed information – 0x800000nn - FDT/SSDP reported errors while nn will be the exact error number * See qaGobiApiTableFwDldErrorCodes.h for more detailed information
pImgType[OUT]	• Optional parameter • Firmware image type that failed the update
pRefData[OUT]	• Optional parameter • Failed image reference data • This is normally the offset of the image that caused the failure
pRefStringLen[IN/OUT]	• Length of Reference String parameter to follow • As input parameter specifies length assigned to pRefString parameter • As output parameter specifies length of actual value retrieved from the device
pRefString[OUT]	• Optional parameter • Failed image reference string. This is normally the partition name of the image that caused the failure if applicable.
pLogStringLen[IN/OUT]	• Length of Reference String parameter to follow • As input parameter specifies length assigned to pRefString parameter • As output parameter specifies length of actual value retrieved from the device
pLogString[OUT]	• Optional parameter • Failed image reference string. This is normally the partition name of the image that caused the failure if applicable.

8.221.2 Field Documentation

8.221.2.1 BYTE* FirmwareUpdatStat::pImgType

8.221.2.2 BYTE* FirmwareUpdatStat::pLogString

8.221.2.3 BYTE* FirmwareUpdatStat::pLogStringLen

8.221.2.4 ULONG* FirmwareUpdatStat::pRefData

8.221.2.5 BYTE* FirmwareUpdatStat::pRefString

8.221.2.6 BYTE* FirmwareUpdatStat::pRefStringLen

8.221.2.7 ULONG FirmwareUpdatStat::ResCode

8.222 FMSImageElement Struct Reference

Data Fields

- uint8_t imageType
- uint8_t imageId [16]
- uint8_t buildIdLength
- uint8_t buildId [100]

8.222.1 Detailed Description

This structure contains the Image Element information

Parameters

imageType	• Type of image 0 - Modem 1 - PRI
imageId	• Unique image identifier
buildIdLength	• Length of the build ID string (may be zero)
pBuildId	• Build ID ANSI string with length provided by the previous field

8.222.2 Field Documentation

8.222.2.1 uint8_t FMSImageElement::buildId[100]

8.222.2.2 uint8_t FMSImageElement::buildIdLength

8.222.2.3 uint8_t FMSImageElement::imageId[16]

8.222.2.4 uint8_t FMSImageElement::imageType

8.223 FMSImageIdElement Struct Reference

Data Fields

- uint8_t storageIndex
- uint8_t failureCount
- uint8_t imageID [16]
- uint8_t buildIDLength
- uint8_t buildID [100]

8.223.1 Detailed Description

This structure contains the Image ID list element Information

Parameters

storageIndex	• Index in storage where the image is located(a value of 0xFF indicates that the storage for this type of image is not relevant)
failureCount	• Number of consecutive write attempts to this storage index that have failed(a value of 0xFF indicates unspecified)
imageID	• Image unique identifier(max 16 chars.)
buildIDLength	• Length of the build ID string. If there is no build ID, this field will be 0 and no data will follow.
buildID	• String containing image build information(Max 100 characters)

8.223.2 Field Documentation

8.223.2.1 uint8_t FMSImageIdElement::buildID[100]

8.223.2.2 uint8_t FMSImageIdElement::buildIDLength

8.223.2.3 uint8_t FMSImageIdElement::failureCount

8.223.2.4 uint8_t FMSImageIdElement::imageID[16]

8.223.2.5 uint8_t FMSImageIdElement::storageIndex

8.224 FMSImageIDEntries Struct Reference

Data Fields

- uint8_t imageType
- uint8_t maxImages
- uint8_t executingImage
- uint8_t imageIDSize
- FMSImageIdElement imageIDElement [50]

8.224.1 Detailed Description

This structure contains the list entry Information

Parameters

imageType	• Type of image – 0 - Modem – 1 - PRI
maxImages	• Maximum number of images of this type that may be stored concurrently on the device
executingImage	• Index (into the next array) of image that is currently executing
imageIDSize	• The number of elements in the image ID list
imageIDElement	• Array of ImageIDElement Structure (Max 50 elements) • See FMSImageIdElement

8.224.2 Field Documentation

8.224.2.1 uint8_t FMSImageIDEntries::executingImage

8.224.2.2 FMSImageIdElement FMSImageIDEntries::imageIDElement[50]

8.224.2.3 uint8_t FMSImageIDEntries::imageIDSize

8.224.2.4 uint8_t FMSImageIDEntries::imageType

8.224.2.5 uint8_t FMSImageIDEntries::maxImages

8.225 FMSImageList Struct Reference

Data Fields

- uint8_t listSize
- FMSImageIDEntries imageIDEntries [2]

8.225.1 Detailed Description

This structure contains the Get Stored Images List

Parameters

listSize	• The number of elements in the image list

imageIDEntries	• Array of ImageIDEntries Structure (Max 2 entries)

8.225.2 Field Documentation

8.225.2.1 FMSImageIDEntries FMSImageList::imageIDEntries[2]

8.225.2.2 uint8_t FMSImageList::listSize

8.226 FMSPrefImageList Struct Reference

Data Fields

- uint8_t listSize
- FMSImageElement listEntries [2]

8.226.1 Detailed Description

This structure contains the Preference Image List information

Parameters

listSize	• The number of elements in the image list
pListEntries	• Array of Image entries with size provided by previous field • See FMSImageElement

8.226.2 Field Documentation

8.226.2.1 FMSImageElement FMSPrefImageList::listEntries[2]

8.226.2.2 uint8_t FMSPrefImageList::listSize

8.227 fwinfo_s Struct Reference

Data Fields

- ULONG FirmwareID
- ULONG Technology
- ULONG Carrier
- ULONG Region
- ULONG GPSCapability

8.227.1 Detailed Description

Gobi firmware image info structure

Parameters

FirmwareID	• Firmware ID obtained from the firmware image
Technology	• Technology (0xFFFFFFFF if unknown)
Carrier	• Carrier (0xFFFFFFFF if unknown)
Region	• Region (0xFFFFFFFF if unknown)
GPSCapability	• GPS capability (0xFFFFFFFF if unknown)

8.227.2 Field Documentation

8.227.2.1 ULONG fwinfo_s::Carrier

8.227.2.2 ULONG fwinfo_s::FirmwareID

8.227.2.3 ULONG fwinfo_s::GPSCapability

8.227.2.4 ULONG fwinfo_s::Region

8.227.2.5 ULONG fwinfo_s::Technology

8.228 GERANInfo Struct Reference

Data Fields

- ULONG cellID
- BYTE plmn [3]
- WORD lac
- WORD arfcn
- BYTE bsic
- ULONG timingAdvance
- WORD rxLev
- BYTE nmrInst
- nmrCellInfo insNmrCellInfo [255]

8.228.1 Detailed Description

This structure contains information about the GERAN Network.

Parameters

cellID	• Cell ID. • 0xFFFFFFFF indicates cell ID information is not present.

plmn[PLMN_LENGTH]	• MCC/MNC information coded as octet 3, 4, and 5. • This field is ignored when nmrCellID is not present.
lac	• Location area code. • This field is ignored when nmrCellID is not present. – 0xFFFF - Not Available
arfcn	• Absolute RF channel number. – 0xFFFF - Not Available
bsic	• Base station identity code. – 0xFF - Not Available
timingAdvance	• Measured delay (in bit periods; 1 bit period = 48/13 microsecond) of access burst transmission on RACH or PRACH to the expected signal from an MS at zero distance under static channel conditions. – 0xFFFFFFFF - Not Available
rxLev	• Serving Cell Rx measurement. • Values range between 0 and 63. • Mapped to a measured signal level: – Rxlev 0 is a signal strength less than -110 dBm – Rxlev 1 is -110 dBm to -109 dBm – Rxlev 2 is -109 dBm to -108 dBm – ... – Rxlev 62 is -49 dBm to -48 dBm – Rxlev 63 is greater than -48 dBm – 0xFFFF - Not Available
nmrInst	• Provides the number of set of instances which follow. • If 0(zero), then no information follows it.
insNmrCellInfo[MAX_DESCRIPTION_LENGTH]	• See nmrCellInfo for more information.

8.228.2 Field Documentation

8.228.2.1 WORD GERANInfo::arfcn

8.228.2.2 BYTE GERANInfo::bsic

8.228.2.3 ULONG GERANInfo::cellID

8.228.2.4 nmrCellInfo GERANInfo::insNmrCellInfo[255]

8.228.2.5 WORD GERANInfo::lac

8.228.2.6 BYTE GERANInfo::nmrInst

8.228.2.7 BYTE GERANInfo::plmn[3]

8.228.2.8 WORD GERANInfo::rxLev

8.228.2.9 ULONG GERANInfo::timingAdvance

8.229 geranInstInfo Struct Reference

Data Fields

- WORD geranArfcn
- BYTE geranBsicNcc
- BYTE geranBsicBcc
- SHORT geranRssi

8.229.1 Detailed Description

This structure contains information about the GERAN Instances in UMTS Network.

Parameters

geranArfcn	• Absolute RF channel number.
geranBsicNcc	• Base station identity code network color code. • 0xFF indicates information is not present.
geranBsicBcc	• Base station identity code base station color code. • 0xFF indicates information is not present.
geranRssi	• Received signal strength indicator.

8.229.2 Field Documentation

8.229.2.1 WORD geranInstInfo::geranArfcn

8.229.2.2 BYTE geranInstInfo::geranBsicBcc

8.229.2.3 BYTE geranInstInfo::geranBsicNcc

8.229.2.4 SHORT geranInstInfo::geranRssi

8.230 getAllCallInformation Struct Reference

Data Fields

- callInfo Callinfo
- BYTE isEmpty
- BYTE ALS

8.230.1 Detailed Description

This structure contains information related to call state change.

Parameters

Callinfo	• See callInfo for more information.
isEmpty	• Multiparty indicator. – 0x00 - False – 0x01 - True
ALS	• Alternate Line Service line indicator. • Feature for supporting two different phone numbers on the same mobile device. – 0x00 - ALS_LINE1 - Line 1 (default) – 0x01 - ALS_LINE2 - Line 2

8.230.2 Field Documentation

8.230.2.1 BYTE getAllCallInformation::ALS

8.230.2.2 callInfo getAllCallInformation::Callinfo

8.230.2.3 BYTE getAllCallInformation::isEmpty

8.231 getAllCallRmtPtyName Struct Reference

Data Fields

- BYTE callID
- remotePartyName RemotePartyName

8.231.1 Detailed Description

This structure contains information for All Call Remote Party Names

Parameters

callID	• Unique call identifier for the call.

RemoteParty-Name	• See remotePartyName for more information.

8.231.2 Field Documentation

8.231.2.1 BYTE getAllCallRmtPtyName::callID

8.231.2.2 remotePartyName getAllCallRmtPtyName::RemotePartyName

8.232 getAllCallRmtPtyNum Struct Reference

Data Fields

- BYTE callID
- remotePartyNum RemotePartyNum

8.232.1 Detailed Description

This structure contains information for All Call Remote Party Numbers

Parameters

callID	• Unique call identifier for the call.
RemoteParty-Num	• See remotePartyNum for more information.

8.232.2 Field Documentation

8.232.2.1 BYTE getAllCallRmtPtyNum::callID

8.232.2.2 remotePartyNum getAllCallRmtPtyNum::RemotePartyNum

8.233 GetAudioPathConfigReq Struct Reference

Data Fields

- BYTE Profile
- BYTE Item

8.233.1 Detailed Description

This structure contains the SLQSGetAudioPathConfig request parameters

Parameters

Profile	• Audio Profile – 0-9
Item	• Item – 0 - AV_EC – 1 - AV_NS – 2 - AV_TXVOL – 3 - AV_DTMFTXG – 4 - AV_CODECSTG – 5 - AV_TXPCMIIRFLTR – 6 - AV_RXPCMIIRFLTR – 7 - AV_MICGAIN – 8 - AV_RXAGC – 9 - AV_TXAGC – 10 - AV_RXAGCLIST – 11 - AV_RXAVCLIST – 12 - AV_TXAGCLIST

8.233.2 Field Documentation

8.233.2.1 BYTE GetAudioPathConfigReq::Item

8.233.2.2 BYTE GetAudioPathConfigReq::Profile

8.234 GetAudioPathConfigResp Struct Reference

Data Fields

- BYTE * pECMode
- BYTE * pNSEnable
- WORD * pTXGain
- WORD * pDTMFTXGain
- WORD * pCodecSTGain
- TXPCMIIRFltr * pTXPCMIIRFltr
- RXPCMIIRFltr * pRXPCMIIRFltr
- BYTE * pMICGainSelect
- BYTE * pRXAVCAGCSwitch
- BYTE * pTXAVCSwitch
- RXAGCList * pRXAGCList
- RXAVCList * pRXAVCList
- TXAGCList * pTXAGCList

8.234.1 Detailed Description

This structure contains the SLQSGetAudioPathConfig response parameters.

Parameters

pECMode	[Optional] • AV_EC – 0 - Echo cancellation off – 1 - Handset mode – 2 - Headset mode – 3 - Car kit mode – 4 - Speaker Mode
pNSEnable	[Optional] • AV_NS – 0 - Noise suppression off – 1 - Noise suppression on
pTXGain	[Optional] • AV_TXVOL – 0x0000 - 0xffff
pDTMFTXGain	[Optional] • AV_DTMFTXG – 0x0000 - 0xffff
pCodecSTGain	[Optional] • AV_CODECSTG – 0x0000 - 0xffff
pTXPCMIIRFltr	[Optional] • See TXPCMIIRFltr for more information
pRXPCMIIRFltr	[Optional] • See RXPCMIIRFltr for more information
pMICGainSelect	[Optional] • AV_MICGAIN
pRXAVCAGC-Switch	[Optional] • RX AVC/AGC Switch
pTXAVCSwitch	[Optional] • TX AVC Switch
pRXAGCList	[Optional] • See RXAGCList for more information
pRXAVCList	[Optional] • See RXAVCList for more information
pTXAGCList	[Optional] • See TXAGCList for more information

8.234.2 Field Documentation

8.234.2.1 WORD* GetAudioPathConfigResp::pCodecSTGain

8.234.2.2 WORD* GetAudioPathConfigResp::pDTMFTXGain

8.234.2.3 BYTE* GetAudioPathConfigResp::pECMode

8.234.2.4 BYTE* GetAudioPathConfigResp::pMICGainSelect

8.234.2.5 BYTE* GetAudioPathConfigResp::pNSEnable

8.234.2.6 RXAGCList* GetAudioPathConfigResp::pRXAGCList

8.234.2.7 BYTE* GetAudioPathConfigResp::pRXAVCAGCSwitch

8.234.2.8 RXAVCList* GetAudioPathConfigResp::pRXAVCList

8.234.2.9 RXPCMIIRFltr* GetAudioPathConfigResp::pRXPCMIIRFltr

8.234.2.10 TXAGCList* GetAudioPathConfigResp::pTXAGCList

8.234.2.11 BYTE* GetAudioPathConfigResp::pTXAVCSwitch

8.234.2.12 WORD* GetAudioPathConfigResp::pTXGain

8.234.2.13 TXPCMIIRFltr* GetAudioPathConfigResp::pTXPCMIIRFltr

8.235 GetAudioProfileReq Struct Reference

Data Fields

- BYTE Generator

8.235.1 Detailed Description

This structure contains the SLQSGetAudioProfile request parameters

Parameters

Generator	• Audio Generator – 0 - Voice – 1 - Key Beep – 2 - MIDI

8.235.2 Field Documentation

8.235.2.1 BYTE GetAudioProfileReq::Generator

8.236 GetAudioProfileResp Struct Reference

Data Fields

- BYTE Profile
- BYTE EarMute
- BYTE MicMute
- BYTE Volume

8.236.1 Detailed Description

This structure contains the SLQSGetAudioProfile response parameters.

Parameters

Profile	• Audio Profile – 0 - Handset – 1 - Headset – 2 - Car Kit – 3 - Speaker phone – 4 - Auxiliary – 5 - TTY – 6 - Auxiliary external PCM – 7 - Primary external PCM – 8 - External slave PCM – 9 - I2S
EarMute	• Ear Mute Setting – 0 - unmuted – 1 - muted
MicMute	• MIC Mute Setting – 0 - unmuted – 1 - muted
Volume	• Audio Volume Level – 0 to 7

8.236.2 Field Documentation

8.236.2.1 BYTE GetAudioProfileResp::EarMute

8.236.2.2 BYTE GetAudioProfileResp::MicMute

8.236.2.3 BYTE GetAudioProfileResp::Profile

8.236.2.4 BYTE GetAudioProfileResp::Volume

8.237 GetAudioVolTLBConfigReq Struct Reference

Data Fields

- BYTE Profile
- BYTE Generator
- BYTE Volume
- BYTE Item

8.237.1 Detailed Description

This structure contains the SLQSGetAudioVolTLBConfig request parameters

Parameters

Profile	• Audio Profile – 0-9
Generator	• Audio Generator – 0-2
Volume	• Audio Volume Level – 0-7
Item	• Item – 13 - AV_RXVOLDB – 14 - AV_DTMFVOLDB – 15 - AV_PAD

8.237.2 Field Documentation

8.237.2.1 BYTE GetAudioVolTLBConfigReq::Generator

8.237.2.2 BYTE GetAudioVolTLBConfigReq::Item

8.237.2.3 BYTE GetAudioVolTLBConfigReq::Profile

8.237.2.4 BYTE GetAudioVolTLBConfigReq::Volume

8.238 GetAudioVolTLBConfigResp Struct Reference

Data Fields

- WORD ResCode

8.238.1 Detailed Description

This structure contains the SLQSGetAudioVolTLBConfig response parameters.

Parameters

ResCode	• Result of requested item

8.238.2 Field Documentation

8.238.2.1 WORD GetAudioVolTLBConfigResp::ResCode

8.239 getCallFWExtInfo Struct Reference

Data Fields

- BYTE numInstances
- callFWExtInfo CallFWExtInfo [20]

8.239.1 Detailed Description

This structure contains an array of Call Forwarded Extended Information.

Parameters

numInstances	• Number of callFWExtInfo that follow. • If zero(0) then no further information exists.
CallFWExtInfo[-MAX_NO_OF_-CALLS]	• Array of CallFWExtInfo. – See CallFWExtInfo for more information.

8.239.2 Field Documentation

8.239.2.1 callFWExtInfo getCallFWExtInfo::CallFWExtInfo[20]

8.239.2.2 BYTE getCallFWExtInfo::numInstances

8.240 getCallFWInfo Struct Reference

Data Fields

- BYTE numInstances
- callFWInfo CallFWInfo [20]

8.240.1 Detailed Description

This structure contains an array of Call Forwarded Information.

Parameters

numInstances	• Number of callFWInfo that follow. • If zero(0) then no further information exists.
CallFWInfo[MAX_NO_OF_CALLS]	• Array of callFWInfo. – See callFWInfo for more information.

8.240.2 Field Documentation

8.240.2.1 callFWInfo getCallFWInfo::CallFWInfo[20]

8.240.2.2 BYTE getCallFWInfo::numInstances

8.241 getCustomFeatureV2 Struct Reference

Data Fields

- getCustomInput ∗ pGetCustomInput
- custSettingInfo ∗ pCustSettingInfo
- custSettingList ∗ pCustSettingList

8.241.1 Detailed Description

This struture contains the TLV required to get the Customization Info and customization list.

Parameters

pGetCustomInput[IN]	• Optional parameter • See getCustomInput for more information
pCustSettingInfo[OUT]	• Optional parameter • See custSettingInfo for more information
pCustSettingList[OUT]	• Optional parameter • See custSettingList for more information

8.241.2 Field Documentation

8.241.2.1 custSettingInfo∗ getCustomFeatureV2::pCustSettingInfo

8.241.2.2 custSettingList∗ getCustomFeatureV2::pCustSettingList

8.241.2.3 getCustomInput∗ getCustomFeatureV2::pGetCustomInput

8.242 getCustomInput Struct Reference

Data Fields

- CHAR cust_id [64+1]
- BYTE list_type

8.242.1 Detailed Description

This structure contains which customization id or the list type want to retrieve from modem. This TLV is only applicable for 9x30 modules so far

Parameters

cust_id	• Customization ID (Maximum 64 bytes)
list_type	• list type requested

8.242.2 Field Documentation

8.242.2.1 CHAR getCustomInput::cust_id[64+1]

8.242.2.2 BYTE getCustomInput::list_type

8.243 getDUNCallInfoReq Struct Reference

Data Fields

- ULONG Mask
- BYTE * pReportConnStatus
- TransferStatInd * pTransferStatInd
- BYTE * pReportDormStatus
- BYTE * pReportDataBearerTech
- BYTE * pReportChannelRate

8.243.1 Detailed Description

This structure contains the DUN Call Info Request parameters.

Parameters

Mask	• Mandatory parameter • Set the bits corresponding to the information requested to 1 • All other bits must be set to 0. • If any values are not available or applicable, the corresponding TLVs are not returned in the response. – Bit 0 - Connection Status – Bit 1 - Last call end reason – Bit 2 - Tx/Rx bytes OK – Bit 3 - Dormancy status – Bit 4 - Data bearer – Bit 5 - Channel rate – Bit 6 - Call active duration
pReportConnStatus	• Connect Status Indicator – 0 - Do not report – 1 - Report connection status and call end reason
pTransferStatInd	• See TransferStatInd for more information
pReportDormStatus	• Dormancy Status Indicator – 0 - Do not report – 1 - Report traffic channel state of interface used for data connection
pReportDataBearerTech	• Current Data Bearer Technology Indicator – 0 - Do not report – 1 - Report radio interface used for data transfer when it changes
pReportChannelRate	• Channel Rate Indicator – 0 - Do not report – 1 - Report channel rate

8.243.2 Field Documentation

8.243.2.1 ULONG getDUNCallInfoReq::Mask

8.243.2.2 BYTE* getDUNCallInfoReq::pReportChannelRate

8.243.2.3 BYTE* getDUNCallInfoReq::pReportConnStatus

8.243.2.4 BYTE* getDUNCallInfoReq::pReportDataBearerTech

8.243.2.5 BYTE* getDUNCallInfoReq::pReportDormStatus

8.243.2.6 TransferStatInd* getDUNCallInfoReq::pTransferStatInd

8.244 getDUNCallInfoResp Struct Reference

Data Fields

- ConnectionStatus * pConnectionStatus
- WORD * pCallEndReason
- ULONGLONG * pTXOKBytesCount
- ULONGLONG * pRXOKBytesCount
- BYTE * pDormancyStatus
- BYTE * pDataBearerTech
- ChannelRate * pChannelRate
- ULONGLONG * pLastCallTXOKBytesCnt
- ULONGLONG * pLastCallRXOKBytesCnt
- ULONGLONG * pMdmCallDurationActive
- BYTE * pLastCallDataBearerTech

8.244.1 Detailed Description

This structure contains the DUN Call Info response parameters

Parameters

pConnection-Status	• See ConnectionStatus for more information
pCallEndReason	• Last modem call end reason • See qaGobiApiTableCallEndReasons.h for Call End Reason • Only valid if the last call made was DUN, else zero is returned
pTXOKBytes-Count	• Number of bytes transmitted without error • Returned only if a data call is up
pRXOKBytes-Count	• Number of bytes received without error • Returned only if a data call is up
pDormancy-Status	• Current traffic channel status • Returned if a data call is up – 0x01 - Traffic channel dormant – 0x02 - Traffic channel active

pDataBearer-Tech	• Current data bearer technology • Returned only if a data call is up – 0x01 - cdma2000 1X – 0x02 - cdma2000 HRPD (1xEV-DO) – 0x03 - GSM – 0x04 - UMTS – 0x05 - cdma200 HRPD (1xEV-DO RevA) – 0x06 - EDGE – 0x07 - HSDPA and WCDMA – 0x08 - WCDMA and HSUPA – 0x09 - HSDPA and HSUPA – 0x0A - LTE – 0x0B - cdma2000 EHRPD – 0x0C - HSDPA+ and WCDMA – 0x0D - HSDPA+ and HSUPA – 0x0E - DC_HSDPA+ and WCDMA – 0x0F - DC_HSDPA+ and HSUPA – 0x10 - HSDPA+ and 64QAM – 0x11 - HSDPA+, 64QAM and HSUPA – 0x12 - TDSCDMA – 0x13 - TDSCDMA and HSDPA – 0xFF - Unknown
pChannelRate	• See ChannelRate for more information
pLastCallTXOK-BytesCnt	• Number of bytes transmitted without error during the last data call (0 if no call was made). • Return only if not in a call and the previous call was made using DUN.
pLastCallRXOK-BytesCnt	• Number of bytes transmitted without error during the last data call (0 if no call was made). • Return only if not in a call and the previous call was made using DUN.
pMdmCall-DurationActive	• Duration that the call is active in milliseconds • If the modem connection status is connected, this represents the active duration of the current DUN call • If the modem connection status is disconnected, this represents the duration of the last DUN call since the device was powered up (0 if no call has been made or if the last call was not DUN)

pLastCallData-BearerTech	• Last Call Data Bearer Technology • Returned only if not in a call and when the previous call was made using DUN – 0x01 - cdma2000 1X – 0x02 - cdma2000 HRPD (1xEV-DO) – 0x03 - GSM – 0x04 - UMTS – 0x05 - cdma200 HRPD (1xEV-DO Rev A) – 0x06 - EDGE – 0x07 - HSDPA and WCDMA – 0x08 - WCDMA and HSUPA – 0x09 - HSDPA and HSUPA – 0x0A - LTE – 0x0B - cdma2000 EHRPD – 0x0C - HSDPA+ and WCDMA – 0x0D - HSDPA+ and HSUPA – 0x0E - DC_HSDPA+ and WCDMA – 0x0F - DC_HSDPA+ and HSUPA – 0x10 - HSDPA+ and 64QAM – 0x11 - HSDPA+, 64QAM and HSUPA – 0x12 - TDSCDMA – 0x13 - TDSCDMA and HSDPA – 0xFF - Unknown

8.244.2 Field Documentation

8.244.2.1 WORD* getDUNCallInfoResp::pCallEndReason

8.244.2.2 ChannelRate* getDUNCallInfoResp::pChannelRate

8.244.2.3 ConnectionStatus* getDUNCallInfoResp::pConnectionStatus

8.244.2.4 BYTE* getDUNCallInfoResp::pDataBearerTech

8.244.2.5 BYTE* getDUNCallInfoResp::pDormancyStatus

8.244.2.6 BYTE* getDUNCallInfoResp::pLastCallDataBearerTech

8.244.2.7 ULONGLONG* getDUNCallInfoResp::pLastCallRXOKBytesCnt

8.244.2.8 ULONGLONG* getDUNCallInfoResp::pLastCallTXOKBytesCnt

8.244.2.9 ULONGLONG* getDUNCallInfoResp::pMdmCallDurationActive

8.244.2.10 ULONGLONG* getDUNCallInfoResp::pRXOKBytesCount

8.244.2.11 ULONGLONG* getDUNCallInfoResp::pTXOKBytesCount

8.245 getDyingGaspCfg Struct Reference

Data Fields

- BYTE * pDestSMSNum
- BYTE * pDestSMSContent

8.245.1 Detailed Description

This struture contains the TLV required to get the Dysing GASP Config.

Parameters

pDestSMSNum[-OUT]	• SMS Destination Number as string of 8 bit ASCII Characters Max 20 chars. • Optional parameter.
pDestSMS-Content[OUT]	• SMS COntent as a string of 8 bit ASCII text characters Max 160 chars. • Optional parameter.

8.245.2 Field Documentation

8.245.2.1 BYTE* getDyingGaspCfg::pDestSMSContent

8.245.2.2 BYTE* getDyingGaspCfg::pDestSMSNum

8.246 getDyingGaspStatistics Struct Reference

Data Fields

- ULONG * pTimeStamp
- BYTE * pSMSAttemptedFlag

8.246.1 Detailed Description

This struture contains the TLV required to get the Dysing GASP Statistics.

Parameters

pTimeStamp[O-UT]	• Timestamp of the last time power loss was detected and Dying Gasp feature was triggered. • UTC time in seconds since Jan 06, 1980 (GPS Epoch).
pSMS-AttemptedFlag[-OUT]	• Indicates whether device attempted to send SMS in the last power loss event. • 0 - SMS not attempted • 1 - SMS attempted • This only indicates device sent the SMS but does not guarantee network delivery.

8.246.2 Field Documentation

8.246.2.1 BYTE∗ getDyingGaspStatistics::pSMSAttemptedFlag

8.246.2.2 ULONG∗ getDyingGaspStatistics::pTimeStamp

8.247 GetErrRateResp Struct Reference

Data Fields

- WORD ∗ pCDMAFrameErrRate
- WORD ∗ pHDRPackErrRate
- BYTE ∗ pGSMBER
- BYTE ∗ pWCDMABER

8.247.1 Detailed Description

This structure contains information about the SLQSGetErrorRate response parameters.

Parameters

pCDMAFrame-ErrRate[Out]	• CDMA Frame Error Rate • Valid error rate values between 1 and 10000 are returned to indicate the percentage, e.g., a value of 300 means the error rate is 3%. • A value of 0xFFFF indicates that the error rate is unknown/unavailable.
pHDRPackErr-Rate[Out]	• HDR Packet Error Rate • Valid error rate values between 1 and 10000 are returned to indicate the percentage, e.g., a value of 300 means the error rate is 3%. • A value of 0xFFFF indicates that the error rate is unknown/unavailable.
pGSMBER[Out]	• GSM Bit Error Rate • Valid error rate values between 1 and 100 are returned to indicate the percentage value. • A 0% block error rate (BLER) indicates No Data.
pWCDMABER[-Out]	• WCDMA Block Error Rate • Valid error rate values between 1 and 100 are returned to indicate the percentage value. • A value of 0xFF indicates that the error rate is unknown/unavailable.

8.247.2 Field Documentation

8.247.2.1 WORD∗ GetErrRateResp::pCDMAFrameErrRate

8.247.2.2 BYTE∗ GetErrRateResp::pGSMBER

8.247.2.3 WORD∗ GetErrRateResp::pHDRPackErrRate

8.247.2.4 BYTE∗ GetErrRateResp::pWCDMABER

8.248 GetHRPDStatsResp Struct Reference

Data Fields

- DRCParams * pDRCParams
- BYTE * pUATI
- PilotSetData * pPilotSetData

8.248.1 Detailed Description

This structure contains information about the SLQSSwiGetHRPDStats response parameters.

Parameters

pDRCParams[-Out]	• See DRCParams for more information.
pUATI[Out]	• A 128-bit address that includes the access terminal identifier and subnet ID • Size must be 16 bytes
pPilotSetData[-Out]	• See PilotSetData for more information.

8.248.2 Field Documentation

8.248.2.1 DRCParams* GetHRPDStatsResp::pDRCParams

8.248.2.2 PilotSetData* GetHRPDStatsResp::pPilotSetData

8.248.2.3 BYTE* GetHRPDStatsResp::pUATI

8.249 GetIMSSMSConfigParams Struct Reference

Data Fields

- BYTE * pSettingResp
- BYTE * pSMSFormat
- BYTE * pSMSOverIPNwInd
- BYTE * pPhoneCtxtURILen
- BYTE * pPhoneCtxtURI

8.249.1 Detailed Description

This structure contains the SLQSGetIMSSMSConfig response parameters.

Parameters

pSettingResp	• Settings Response

pSMSFormat	• SMS format – 0 - 3GPP – 1 - 3GPP2
pSMSOverIPNw-Ind	• SMS over IP Network Indication Flag – TRUE - Turn on mobile-originated SMS – FALSE - Turn off mobile-originated SMS
pPhoneCtxtURI-Len[IN/OUT]	• Size in bytes assigned to the Phone context Universal Resource Identifier to follow
pPhoneCtxtURI	• Phone context universal resource identifier • Length of this string must be specified in pPhoneCtxtURILen parameter

8.249.2 Field Documentation

8.249.2.1 BYTE∗ GetIMSSMSConfigParams::pPhoneCtxtURI

8.249.2.2 BYTE∗ GetIMSSMSConfigParams::pPhoneCtxtURILen

8.249.2.3 BYTE∗ GetIMSSMSConfigParams::pSettingResp

8.249.2.4 BYTE∗ GetIMSSMSConfigParams::pSMSFormat

8.249.2.5 BYTE∗ GetIMSSMSConfigParams::pSMSOverIPNwInd

8.250 GetIMSUserConfigParams Struct Reference

Data Fields

- BYTE ∗ pSettingResp
- BYTE ∗ pIMSDomainLen
- BYTE ∗ pIMSDomain

8.250.1 Detailed Description

This structure contains the SLQSGetIMSUserConfig response parameters.

Parameters

pSettingResp	• Settings Response
pIMSDomain-Len[IN/OUT]	• Length of IMS Domain Name to follow

pIMSDomain	• IMS domain name • Length of this string must be specified in pIMSDomainLen parameter

8.250.2 Field Documentation

8.250.2.1 BYTE* GetIMSUserConfigParams::pIMSDomain

8.250.2.2 BYTE* GetIMSUserConfigParams::pIMSDomainLen

8.250.2.3 BYTE* GetIMSUserConfigParams::pSettingResp

8.251 GetIMSVoIPConfigResp Struct Reference

Data Fields

- BYTE * pSettingResp
- WORD * pSessionExpiryTimer
- WORD * pMinSessionExpiryTimer
- BYTE * pAmrWbEnable
- BYTE * pScrAmrEnable
- BYTE * pScrAmrWbEnable
- BYTE * pAmrMode
- WORD * pAmrWBMode
- BYTE * pAmrOctetAligned
- BYTE * pAmrWBOctetAligned
- WORD * pRingingTimer
- WORD * pRingBackTimer
- WORD * pRTPRTCPInactTimer

8.251.1 Detailed Description

This structure contains the SLQSGetIMSVoIPConfig request parameters.

Parameters

pSettingResp	• Settings Response. A settings specific error code is returned when the standard response error type is QMI_ERR_CAUSE_CODE
pSessionExpiry-Timer	• Session duration, in seconds
pMinSession-ExpiryTimer	• Minimum allowed value for session expiry timer, in seconds
pAmrWbEnable	• Flag to enable/disable Adaptive Multirate Codec(AMR) WideBand(WB) audio • Values: – True - Enable – False - Disable

pScrAmrEnable	• Flag to enable/disable Source Control Rate(SCR) for AMR NarrowBand (NB) • Values: – True - Enable – False - Disable
pScrAmrWb-Enable	• Flag to enable/disable SCR for AMR WB Audio • Values: – True - Enable – False - Disable
pAmrMode	• BitMask for AMR NB modes allowed • Values: – 0x1 - 4.75 kbps – 0x2 - 5.15 kbps – 0x4 - 5.9 kbps – 0x8 - 6.17 kbps – 0x10 - 7.4 kbps – 0x20 - 7.95 kbps – 0x40 - 10.2 kbps – 0x80 - 12.2 kbps
pAmrWBMode	• BitMask for AMR WB modes allowed • Values: – 0x1 - 6.60 kbps – 0x2 - 8.85 kbps – 0x4 - 12.65 kbps – 0x8 - 14.25 kbps – 0x10 - 15.85 kbps – 0x20 - 18.25 kbps – 0x40 - 19.85 kbps – 0x80 - 23.05 kbps – 0x100 - 23.85 kbps
pAmrOctet-Aligned	• Flag to indicate if the octet is aligned for AMR NB Audio • Values: – True - Aligned – False - Not aligned, Bandwidth Efficient mode
pAmrWBOctet-Aligned	• Flag to indicate if the octet is aligned for AMR WB Audio • Values: – True - Aligned – False - Not aligned, Bandwidth Efficient mode

pRingingTimer	• Duration of ringing timer, in seconds. The ringing timer starts on the ringing event. If the call is not answered within the duration of this timer, the call is disconnected.
pRingBackTimer	• Duration of ringback timer, in seconds. The ringback timer starts on the ringback event. If the call is not answered within the duration of this timer, the call is disconnected.
pRTPRTCP-InactTimer	• Duration of RTP/RTCP inactivity timer, in seconds. If no RTP/RTCP packet is received prior to the expiry of this timer, the call is disconnected.

8.251.2 Field Documentation

8.251.2.1 BYTE* GetIMSVoIPConfigResp::pAmrMode

8.251.2.2 BYTE* GetIMSVoIPConfigResp::pAmrOctetAligned

8.251.2.3 BYTE* GetIMSVoIPConfigResp::pAmrWbEnable

8.251.2.4 WORD* GetIMSVoIPConfigResp::pAmrWBMode

8.251.2.5 BYTE* GetIMSVoIPConfigResp::pAmrWBOctetAligned

8.251.2.6 WORD* GetIMSVoIPConfigResp::pMinSessionExpiryTimer

8.251.2.7 WORD* GetIMSVoIPConfigResp::pRingBackTimer

8.251.2.8 WORD* GetIMSVoIPConfigResp::pRingingTimer

8.251.2.9 WORD* GetIMSVoIPConfigResp::pRTPRTCPInactTimer

8.251.2.10 BYTE* GetIMSVoIPConfigResp::pScrAmrEnable

8.251.2.11 BYTE* GetIMSVoIPConfigResp::pScrAmrWbEnable

8.251.2.12 WORD* GetIMSVoIPConfigResp::pSessionExpiryTimer

8.251.2.13 BYTE* GetIMSVoIPConfigResp::pSettingResp

8.252 GetInstIDResp Struct Reference

Data Fields

- BYTE * pInstanceID
- BYTE * pIPFamily

8.252.1 Field Documentation

8.252.1.1 BYTE* GetInstIDResp::pInstanceID

8.252.1.2 BYTE* GetInstIDResp::pIPFamily

8.253 GetM2MAudioProfileReq Struct Reference

Data Fields

- BYTE * pGenerator

8.253.1 Detailed Description

This structure contains the SLQSGetM2MAudioProfile request parameters.

Parameters

pGenerator[optional]	• Generator – 0 - Voice

8.253.2 Field Documentation

8.253.2.1 BYTE* GetM2MAudioProfileReq::pGenerator

8.254 GetM2MAudioProfileResp Struct Reference

Data Fields

- BYTE Profile
- BYTE EarMute
- BYTE MicMute
- BYTE Generator
- BYTE Volume
- BYTE CwtMute

8.254.1 Detailed Description

This structure contains the SLQSGetM2MAudioProfile response parameters.

Parameters

Profile	• Audio Profile – 0-5
EarMute	• Ear Mute – 0 - Mute – 1 - Unmute

MicMute	• MIC Mute – 0 - Mute – 1 - Unmute
Generator	• Generator – 0 - Voice
Volume	• RX volume level – 0-5
CwtMute	• Call waiting tone Mute – 0 - Mute – 1 - Unmute

8.254.2 Field Documentation

8.254.2.1 BYTE GetM2MAudioProfileResp::CwtMute

8.254.2.2 BYTE GetM2MAudioProfileResp::EarMute

8.254.2.3 BYTE GetM2MAudioProfileResp::Generator

8.254.2.4 BYTE GetM2MAudioProfileResp::MicMute

8.254.2.5 BYTE GetM2MAudioProfileResp::Profile

8.254.2.6 BYTE GetM2MAudioProfileResp::Volume

8.255 GetM2MAudioVolumeReq Struct Reference

Data Fields

- BYTE Profile
- BYTE Generator

8.255.1 Detailed Description

This structure contains the SLQSGetM2MAudioVolume request parameters.

Parameters

Profile	• Audio Profile – 0-5

Generator	• Generator – 0 - Voice

8.255.2 Field Documentation

8.255.2.1 BYTE GetM2MAudioVolumeReq::Generator

8.255.2.2 BYTE GetM2MAudioVolumeReq::Profile

8.256 GetM2MAudioVolumeResp Struct Reference

Data Fields

- BYTE Level

8.256.1 Detailed Description

This structure contains the SLQSGetM2MAudioVolume response parameters.

Parameters

Level	• The RX Volume Level – 0-5

8.256.2 Field Documentation

8.256.2.1 BYTE GetM2MAudioVolumeResp::Level

8.257 GetM2MAVMuteReq Struct Reference

Data Fields

- BYTE Profile

8.257.1 Detailed Description

This structure contains the SLQSGetM2MAVMute request parameters.

Parameters

Profile	• Audio Profile Number – 0-5

8.257.2 Field Documentation

8.257.2.1 BYTE GetM2MAVMuteReq::Profile

8.258 GetM2MAVMuteResp Struct Reference

Data Fields

- BYTE EarMute
- BYTE MicMute
- BYTE CwtMute

8.258.1 Detailed Description

This structure contains the SLQSGetM2MAVMute response parameters.

Parameters

pEarMute	• Ear Mute – 0-Mute – 1-UnMute
pMicMute	• Mic Mute – 0-Mute – 1-unmute
CwtMute	• Waiting tone Mute – 0-5

8.258.2 Field Documentation

8.258.2.1 BYTE GetM2MAVMuteResp::CwtMute

8.258.2.2 BYTE GetM2MAVMuteResp::EarMute

8.258.2.3 BYTE GetM2MAVMuteResp::MicMute

8.259 GetM2MSpkrGainReq Struct Reference

Data Fields

- BYTE Profile

8.259.1 Detailed Description

This structure contains the SLQSGetM2MSpkrGain request parameters.

Parameters

pProfile	• Audio Profile Number – 0-5

8.259.2 Field Documentation

8.259.2.1 BYTE GetM2MSpkrGainReq::Profile

8.260 GetM2MSpkrGainResp Struct Reference

Data Fields

- WORD Value

8.260.1 Detailed Description

This structure contains the SLQSGetM2MSpkrGain response parameters.

Parameters

Value	• RX speakerphone gain – 0x0 - 0x7fff

8.260.2 Field Documentation

8.260.2.1 WORD GetM2MSpkrGainResp::Value

8.261 getMsgWaitingInfo Struct Reference

Data Fields

- BYTE numInstances
- messageWaitingInfoContent msgWaitInfo [0xFF]

8.261.1 Detailed Description

This structure contains Get Message Waiting Info Response parameters

Parameters

numInstances	• Number of sets of the elements in structure messageWaitingInfoContent
pMsgWaitInfo	• Pointer to structure of messageWaitingInfoContent. – See messageWaitingInfoContent for more information.

8.261.2 Field Documentation

8.261.2.1 messageWaitingInfoContent getMsgWaitingInfo::msgWaitInfo[0xFF]

8.261.2.2 BYTE getMsgWaitingInfo::numInstances

8.262 GetNetworkTimeResp Struct Reference

Data Fields

- timeInfo ∗ p3GPP2TimeInfo
- timeInfo ∗ p3GPPTimeInfo

8.262.1 Detailed Description

This structure contains information about the GetNetworkTime response parameters.

Parameters

p3GPP2TimeInfo	[Optional] • See timeInfo for more information
p3GPPTimeInfo	[Optional] • See timeInfo for more information

8.262.2 Field Documentation

8.262.2.1 timeInfo∗ GetNetworkTimeResp::p3GPP2TimeInfo

8.262.2.2 timeInfo∗ GetNetworkTimeResp::p3GPPTimeInfo

8.263 GetRegMgrConfigParams Struct Reference

Data Fields

- BYTE ∗ pSettingResp
- WORD ∗ pPCSCFPort
- BYTE ∗ pPriCSCFPortNameLen
- BYTE ∗ pPriCSCFPortName
- BYTE ∗ pIMSTestMode

8.263.1 Detailed Description

This structure contains the SLQSGetRegMgrConfig response parameters.

Parameters

pSettingResp	• Settings Response
pPCSCFPort	• Proxy call session control function port

pPriCSCFPort-NameLen(IN/O-UT)	• Size in bytes assigned to the primary CSCF Port name parameter to follow
pPriCSCFPort-Name	• Call Session control port, fully qualified domain name • Length of this string must be specified in pPriCSCFPortNameLen parameter
pIMSTestMode	• IMS Test mode Enabled. – TRUE - Enabled – FALSE - Disabled

Note

pPriCSCFPortNameLen must be set to a valid value during API call to retrieve pPriCSCFPortName.

8.263.2 Field Documentation

8.263.2.1 BYTE* GetRegMgrConfigParams::pIMSTestMode

8.263.2.2 WORD* GetRegMgrConfigParams::pPCSCFPort

8.263.2.3 BYTE* GetRegMgrConfigParams::pPriCSCFPortName

8.263.2.4 BYTE* GetRegMgrConfigParams::pPriCSCFPortNameLen

8.263.2.5 BYTE* GetRegMgrConfigParams::pSettingResp

8.264 GetSessionIDResp Struct Reference

Data Fields

- ULONG * pSessionIDv4
- ULONG * pSessionIDv6

8.264.1 Field Documentation

8.264.1.1 ULONG* GetSessionIDResp::pSessionIDv4

8.264.1.2 ULONG* GetSessionIDResp::pSessionIDv6

8.265 GetSIPConfigResp Struct Reference

Data Fields

- BYTE * pSettingResp
- WORD * pSIPLocalPort
- ULONG * pTimerSIPReg
- ULONG * pSubscribeTimer
- ULONG * pTimerT1

- ULONG * pTimerT2
- ULONG * pTimerTf
- BYTE * pSigCompEnabled

8.265.1 Detailed Description

This structure contains the SLQSGetSIPConfig response parameters.

Parameters

pSettingResp	• Settings Response
pSIPLocalPort	• Primary call session control function SIP port number
pTimerSIPReg	• Initial SIP registration duration from the User equipment, in seconds
pSubscribeTimer	• Duration of the subscription by the UE for IMS registration notifications, in seconds
pTimerT1	• RTT estimate, in milliseconds
pTimerT2	• The maximum retransmit interval for non-invite requests and invite responses, in milliseconds
pTimerTf	• Non-invite transaction timeout timer, in milliseconds
pSigComp-Enabled	• Sig Comp Status – TRUE - Sig Comp Enabled – FALSE - Sig Comp Disabled

8.265.2 Field Documentation

8.265.2.1 BYTE* GetSIPConfigResp::pSettingResp

8.265.2.2 BYTE* GetSIPConfigResp::pSigCompEnabled

8.265.2.3 WORD* GetSIPConfigResp::pSIPLocalPort

8.265.2.4 ULONG* GetSIPConfigResp::pSubscribeTimer

8.265.2.5 ULONG* GetSIPConfigResp::pTimerSIPReg

8.265.2.6 ULONG* GetSIPConfigResp::pTimerT1

8.265.2.7 ULONG* GetSIPConfigResp::pTimerT2

8.265.2.8 ULONG* GetSIPConfigResp::pTimerTf

8.266 GnssData Struct Reference

Data Fields

- ULONGLONG mask

8.266.1 Detailed Description

This structure contains the GNSS data

Parameters

mask	• Mask for the GNSS data that is to be deleted • Valid values: – QMI_LOC_MASK_DELETE_GPS_SVDIR (0x00000001) - Mask to delete GPS SVDIR – QMI_LOC_MASK_DELETE_GPS_SVSTEER (0x00000002) - Mask to delete GPS SVSTEER – QMI_LOC_MASK_DELETE_GPS_TIME (0x00000004) - Mask to delete GPS time – QMI_LOC_MASK_DELETE_GPS_ALM_CORR (0x00000008) - Mask to delete almanac correlation – QMI_LOC_MASK_DELETE_GLO_SVDIR (0x00000010) - Mask to delete GLONASS SVDIR – QMI_LOC_MASK_DELETE_GLO_SVSTEER (0x00000020) - Mask to delete GLONASS SVSTEER – QMI_LOC_MASK_DELETE_GLO_TIME (0x00000040) - Mask to delete GLONASS time – QMI_LOC_MASK_DELETE_GLO_ALM_CORR (0x00000080) - Mask to delete GLONASS almanac correlation – QMI_LOC_MASK_DELETE_SBAS_SVDIR (0x00000100) - Mask to delete SBAS SVDIR – QMI_LOC_MASK_DELETE_SBAS_SVSTEER (0x00000200) - Mask to delete SBAS SVSTEER – QMI_LOC_MASK_DELETE_POSITION (0x00000400) - Mask to delete position estimate – QMI_LOC_MASK_DELETE_TIME (0x00000800) - Mask to delete time estimate – QMI_LOC_MASK_DELETE_IONO (0x00001000) - Mask to delete IONO – QMI_LOC_MASK_DELETE_UTC (0x00002000) - Mask to delete UTC estimate – QMI_LOC_MASK_DELETE_HEALTH (0x00004000) - Mask to delete SV health record – QMI_LOC_MASK_DELETE_SADATA (0x00008000) - Mask to delete SADATA – QMI_LOC_MASK_DELETE_RTI (0x00010000) - Mask to delete RTI – QMI_LOC_MASK_DELETE_SV_NO_EXIST (0x00020000) - Mask to delete SV_NO_EXIST – QMI_LOC_MASK_DELETE_FREQ_BIAS_EST (0x00040000) - Mask to delete frequency bias estimate – QMI_LOC_MASK_DELETE_BDS_SVDIR (0x00080000) - Mask to delete BDS SVDIR – QMI_LOC_MASK_DELETE_BDS_SVSTEER (0x00100000) - Mask to delete BDS SVSTEER – QMI_LOC_MASK_DELETE_BDS_TIME (0x00200000) - Mask to delete BDS time – QMI_LOC_MASK_DELETE_BDS_ALM_CORR (0x00400000) - Mask to delete BDS almanac correlation – QMI_LOC_MASK_DELETE_GNSS_SV_BLACKLIST_GPS (0x00800000) - Mask to delete GNSS SV blacklist GPS – QMI_LOC_MASK_DELETE_GNSS_SV_BLACKLIST_GLO (0x01000000) - Mask to delete GNSS SV blacklist GLO – QMI_LOC_MASK_DELETE_GNSS_SV_BLACKLIST_BDS (0x02000000) - Mask to delete GNSS SV blacklist BDS

8.266.2 Field Documentation

8.266.2.1 ULONGLONG GnssData::mask

8.267 gnssSvInfoNotification Struct Reference

Data Fields

- struct qmTlvResult results
- BYTE bAltitudeAssumed
- satelliteInfo * pSatelliteInfo

8.267.1 Detailed Description

Contain the parameters passed for SetLocGnssSvInfoCallback by the device.

Parameters

bAltitude-Assumed	• Indicates whether altitude is assumed or calculated – 0x00 (FALSE) - Valid altitude is calculated – 0x01 (TRUE) - Valid altitude is assumed; there may not be enough satellites to determine precise altitude
pSatelliteInfo	• See satelliteInfo for more information.

Note

None

8.267.2 Field Documentation

8.267.2.1 BYTE gnssSvInfoNotification::bAltitudeAssumed

8.267.2.2 satelliteInfo* gnssSvInfoNotification::pSatelliteInfo

8.267.2.3 struct qmTlvResult gnssSvInfoNotification::results

8.268 GPRSQoS Struct Reference

Data Fields

- ULONG precedenceClass
- ULONG delayClass
- ULONG reliabilityClass
- ULONG peakThroughputClass
- ULONG meanThroughputClass

8.268.1 Detailed Description

This structure contains the GPRS Quality Of Service Information

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

precedence-Class	• Precedence class
delayClass	• Delay class
reliabilityClass	• Reliability class
peak-Throughput-Class	• Peak throughput class
mean-Throughput-Class	• Mean throughput class

8.268.2 Field Documentation

8.268.2.1 ULONG GPRSQoS::delayClass

8.268.2.2 ULONG GPRSQoS::meanThroughputClass

8.268.2.3 ULONG GPRSQoS::peakThroughputClass

8.268.2.4 ULONG GPRSQoS::precedenceClass

8.268.2.5 ULONG GPRSQoS::reliabilityClass

8.269 GPRSRequestedQoS Struct Reference

Data Fields

- ULONG precedenceClass
- ULONG delayClass
- ULONG reliabilityClass
- ULONG peakThroughputClass
- ULONG meanThroughputClass

8.269.1 Detailed Description

This structure contains the GPRS Quality Of Service Information

Parameters

precedence-Class	• Precedence class
delayClass	• Delay class
reliabilityClass	• Reliability class

peakThroughputClass	• Peak throughput class
meanThroughputClass	• Mean throughput class

8.269.2 Field Documentation

8.269.2.1 ULONG GPRSRequestedQoS::delayClass

8.269.2.2 ULONG GPRSRequestedQoS::meanThroughputClass

8.269.2.3 ULONG GPRSRequestedQoS::peakThroughputClass

8.269.2.4 ULONG GPRSRequestedQoS::precedenceClass

8.269.2.5 ULONG GPRSRequestedQoS::reliabilityClass

8.270 GPSStateInfo Struct Reference

Data Fields

- BYTE EngineState
- ULONG ValidMask
- ULONGLONG Latitude
- ULONGLONG Longitude
- ULONG HorizontalUncertainty
- ULONG Altitude
- ULONG VerticalUncertainty
- ULONG TimeStmp_tow_ms
- WORD TimeStmp_gps_week
- ULONG Time_uncert_ms
- BYTE Iono_valid
- ULONG gps_ephemeris_sv_msk
- ULONG gps_almanac_sv_msk
- ULONG gps_health_sv_msk
- ULONG gps_visible_sv_msk
- ULONG glo_ephemeris_sv_msk
- ULONG glo_almanac_sv_msk
- ULONG glo_health_sv_msk
- ULONG glo_visible_sv_msk
- ULONG sbas_ephemeris_sv_msk
- ULONG sbas_almanac_sv_msk
- ULONG sbas_health_sv_msk
- ULONG sbas_visible_sv_msk
- WORD xtra_start_gps_week
- WORD xtra_start_gps_minutes
- WORD xtra_valid_duration_hours

8.270.1 Detailed Description

GPS state Info.

Parameters

EngineState	• Values: – 0 - OFF – 1 - ON • This field is always valid
ValidMask	• Mask of valid state information data. • Values: – 0x00000001 - Position(latitude/longitude/horizontal uncertainty) – 0x00000002 - Altitude and vertical uncertainty – 0x00000004 - Time ms – 0x00000008 - Time week number – 0x00000010 - Time uncertainty – 0x00000020 - Iono validity – 0x00000040 - GPS ephemeris – 0x00000080 - GPS almanac – 0x00000100 - GPS health – 0x00000200 - GPS visible SVs – 0x00000400 - GLONASS ephemeris – 0x00000800 - GLONASS almanac – 0x00001000 - GLONASS health – 0x00002000 - GLONASS visible SVs – 0x00004000 - SBAS ephemeris – 0x00008000 - SBAS almanac – 0x00010000 - SBAS health – 0x00020000 - SBAS visible SVs – 0x00040000 - XTRA information
Latitude	• Latitude position referenced to the WGS-84 reference ellipsoid, counting positive angles north of the equator and negative angles south of the equator. • Units: Decimal degrees • Range: -90 to +90 degrees. • Value is in double float format (refer to IEEE Std 754-1985)
Longitude	• Longitude position referenced to the WGS-84 reference ellipsoid, counting positive angles east of the Greenwich Meridian and negative angles west of Greenwich meridian. • Units: Decimal degrees • Range: -180 to +180 degrees • Value is in double float format (refer to IEEE Std 754-1985)
Horizontal-Uncertainty	• Circular horizontal uncertainty (in meters). The uncertainty is provided at 63 percent confidence. • Value is in single float format (refer to IEEE Std 754-1985)

Altitude	• Height above the WGS-84 reference ellipsoid. Value conveys height (in meters) plus 500 m • Range -500 to 15883 • Value in single float format (refer to IEEE Std 754-1985)
Vertical-Uncertainty	• Vertical uncertainty (in meters). The uncertainty is provided at 68 percent confidence. • Value in single float format (refer to IEEE Std 754-1985)
TimeStmp_tow_-ms	• Time stamp in GPS time of week(in milliseconds)
TimeStmp_gps-_week	• GPS week number
Time_uncert_ms	• Time uncertainty (in milliseconds). The uncertainty is provided at 99 percent confidence.
Iono_valid	• Iono validity. • Values: – 0 - Invalid – 1 - Valid
gps_ephemeris-_sv_msk	• GPS SV mask for ephemeris; if the bit is set, ephemeris for that SV is available.
gps_almanac_-sv_msk	• GPS SV mask for almanac; if the bit is set, almanac for that SV is available.
gps_health_sv_-msk	• GPS SV mask for health; if the bit is set, health for that SV is available.
gps_visible_sv_-msk	• GPS SV mask for visible Svs; if the bit is set, the SV is available.
glo_ephemeris_-sv_msk	• GLONASS SV mask for ephemeris; if the bit is set, ephemeris for that SV is available.
glo_almanac_sv-_msk	• GLONASS SV mask for almanac; if the bit is set, almanac for that SV is available.
glo_health_sv_-msk	• GLONASS SV mask for health; if the bit is set, health for that SV is available.
glo_visible_sv_-msk	• GLONASS SV mask for visible SVs; if the bit is set, the SV is available.
sbas_-ephemeris_sv_-msk	• SBAS SV mask for ephemeris; if the bit is set, ephemeris for that SV is available.

sbas_almanac_-sv_msk	• SBAS SV mask for almanac; if the bit is set, almanac for that SV is available.
sbas_health_sv-_msk	• SBAS SV mask for health; if the bit is set, health for that SV is available.
sbas_visible_sv-_msk	• SBAS SV mask for visible SVs; if the bit is set, the SV is available.
xtra_start_gps_-week	• Current XTRA information is valid starting from this GPS week number
xtra_start_gps_-minutes	• Current XTRA information is valid starting from the GPS minutes with the GPS week
xtra_valid_-duration_hours	• XTRA information is valid for this many hours starting from the specified GPS week/minutes

8.270.2 Field Documentation

8.270.2.1 ULONG GPSStateInfo::Altitude

8.270.2.2 BYTE GPSStateInfo::EngineState

8.270.2.3 ULONG GPSStateInfo::glo_almanac_sv_msk

8.270.2.4 ULONG GPSStateInfo::glo_ephemeris_sv_msk

8.270.2.5 ULONG GPSStateInfo::glo_health_sv_msk

8.270.2.6 ULONG GPSStateInfo::glo_visible_sv_msk

8.270.2.7 ULONG GPSStateInfo::gps_almanac_sv_msk

8.270.2.8 ULONG GPSStateInfo::gps_ephemeris_sv_msk

8.270.2.9 ULONG GPSStateInfo::gps_health_sv_msk

8.270.2.10 ULONG GPSStateInfo::gps_visible_sv_msk

8.270.2.11 ULONG GPSStateInfo::HorizontalUncertainty

8.270.2.12 BYTE GPSStateInfo::Iono_valid

8.270.2.13 ULONGLONG GPSStateInfo::Latitude

8.270.2.14 ULONGLONG GPSStateInfo::Longitude

8.270.2.15 ULONG GPSStateInfo::sbas_almanac_sv_msk

8.270.2.16 ULONG GPSStateInfo::sbas_ephemeris_sv_msk

8.270.2.17 ULONG GPSStateInfo::sbas_health_sv_msk

8.270.2.18 ULONG GPSStateInfo::sbas_visible_sv_msk

8.270.2.19 ULONG GPSStateInfo::Time_uncert_ms

8.270.2.20 WORD GPSStateInfo::TimeStmp_gps_week

8.270.2.21 ULONG GPSStateInfo::TimeStmp_tow_ms

8.270.2.22 ULONG GPSStateInfo::ValidMask

8.270.2.23 ULONG GPSStateInfo::VerticalUncertainty

8.270.2.24 WORD GPSStateInfo::xtra_start_gps_minutes

8.270.2.25 WORD GPSStateInfo::xtra_start_gps_week

8.270.2.26 WORD GPSStateInfo::xtra_valid_duration_hours

8.271 gpsTime_s Struct Reference

Data Fields

- WORD gpsWeek
- ULONG gpsTimeOfWeekMs

8.271.1 Detailed Description

This structure contains GPS Time info.

Parameters

gpsWeek	• Current GPS week as calculated from midnight, Jan. 6, 1980. • Units - Weeks
gpsTimeOf-WeekMs	• Amount of time into the current GPS week. • Units - Milliseconds

8.271.2 Field Documentation

8.271.2.1 ULONG gpsTime_s::gpsTimeOfWeekMs

8.271.2.2 WORD gpsTime_s::gpsWeek

8.272 gsmCellInfo Struct Reference

Data Fields

- WORD arfcn
- BYTE band1900

- BYTE cellIdValid
- BYTE bsicId
- SHORT rssi
- SHORT srxlev

8.272.1 Detailed Description

This structure contains information about the GSM Cell.

Parameters

arfcn	• GSM frequency being reported. • Range: 0 to 1023.
band1900	• Band indicator for the GSM ARFCN • This field is only valid if arfcn is in the overlapping region. • If TRUE and the cell is in the overlapping region, the ARFCN is on the 1900 band. • If FALSE, it is on the 1800 band.
cellIdValid	• Flag indicating whether the base station identity code ID is valid.
bsicId	• Base station identity code ID, including base station color code and network color code. • The lower 6 bits can be set to any value.
rssi	• Measured RSSI value in 1/10 dB. • Range: -200.0 dB to 0
srxlev	• Cell selection Rx level (Srxlev) value. • Range: -128 to 128. • This field is only valid when ue_in_idle is TRUE.

8.272.2 Field Documentation

8.272.2.1 WORD gsmCellInfo::arfcn

8.272.2.2 BYTE gsmCellInfo::band1900

8.272.2.3 BYTE gsmCellInfo::bsicId

8.272.2.4 BYTE gsmCellInfo::cellIdValid

8.272.2.5 SHORT gsmCellInfo::rssi

8.272.2.6 SHORT gsmCellInfo::srxlev

8.273 GSMRSSIThresh Struct Reference

Data Fields

- BYTE GSMRSSIThreshListLen
- WORD * pGSMRSSIThreshList

8.273.1 Detailed Description

This structure contains GSM RSSI threshold related parameters.

Parameters

GSMRSSI-ThreshListLen	• Length of the GSM RSSI threshold list parameter to follow
pGSMRSSI-ThreshList	• Array of RSSI thresholds (in units of 0.1 dBm) • Maximum of 32 values • Range for RSSI values: -111 to -48 (in dBm)

8.273.2 Field Documentation

8.273.2.1 BYTE GSMRSSIThresh::GSMRSSIThreshListLen

8.273.2.2 WORD* GSMRSSIThresh::pGSMRSSIThreshList

8.274 GSMSrvStatusInfo Struct Reference

Data Fields

- BYTE srvStatus
- BYTE trueSrvStatus
- BYTE isPrefDataPath

8.274.1 Detailed Description

Structure for storing the service status information for GSM, WCDMA and LTE networks.

Parameters

srvStatus	• Service status of the system. – 0x00 - No service – 0x01 - Limited service – 0x02 - Service – 0x03 - Limited regional service – 0x04 - Power save – 0xFF - Not Available

trueSrvStatus	• True service status of the system. • Not applicable to CDMA/HDR. – 0x00 - No service – 0x01 - Limited service – 0x02 - Service – 0x03 - Limited regional service – 0x04 - Power save – 0xFF - Not Available
isPrefDataPath	• Whether the RAT is the preferred data path. – 0x00 - Not preferred – 0x01 - Preferred – 0xFF - Not Available

8.274.2 Field Documentation

8.274.2.1 BYTE GSMSrvStatusInfo::isPrefDataPath

8.274.2.2 BYTE GSMSrvStatusInfo::srvStatus

8.274.2.3 BYTE GSMSrvStatusInfo::trueSrvStatus

8.275 GSMSysInfo Struct Reference

Data Fields

- sysInfoCommon sysInfoGSM
- BYTE lacValid
- WORD lac
- BYTE cellIdValid
- ULONG cellId
- BYTE regRejectInfoValid
- BYTE rejectSrvDomain
- BYTE rejCause
- BYTE networkIdValid
- BYTE MCC [3]
- BYTE MNC [3]
- BYTE egprsSuppValid
- BYTE egprsSupp
- BYTE dtmSuppValid
- BYTE dtmSupp

8.275.1 Detailed Description

Structure for storing the GSM System Information.

Parameters

sysInfoGSM	• See sysInfoCommon for more information.
lacValid	• Indicates whether the location area code is valid.. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
lac	• Location area code. • Only applies to 3GPP. – 0xFFFF - Not Available
cellIdValid	• Indicates whether the cell ID is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
cellId	• Cell ID. – 0xFFFFFFFF - Not Available
regRejectInfo-Valid	• Indicates whether the registration reject information is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
rejectSrvDomain	• Type of service domain in which the registration is rejected. – 0x00 - SYS_SRV_DOMAIN_NO_SRV - No service – 0x01 - Circuit-switched only – 0x02 - Packet-switched only – 0x03 - Circuit-switched and packet-switched – 0x04 - Camped – 0xFF - Not Available
rejCause	• Reject cause values sent are specified in [3GPP TS 24.008, Section 10.5.3.6]. – 0xFF - Not Available
networkIdValid	• Indicates whether the network ID is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available

MCC[PLMN_LENGTH]	• Mobile Country Code. • MCC digits in ASCII characters
MNC[PLMN_LENGTH]	• Mobile Network Code. • MNC digits in ASCII characters • An unused byte is set to 0xFF. • In case of two-digit MNC values, the third (unused) digit is set to 0xFF. For example, 15 (a two-digit MNC) is reported using the byte stream 0x31 0x35 0xFF.
egprsSuppValid	• Indicates whether the EGPRS support is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
egprsSupp	• EGPRS support indication. • Only applicable for GSM. – 0x00 - Not available – 0x01 - Available – 0xFF - Not Available
dtmSuppValid	• Indicates whether Dual Transfer mode support is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
dtmSupp	• Dual Transfer mode support indication. • Only applicable for GSM. – 0x00 - Not available – 0x01 - Available – 0xFF - Not Available

8.275.2 Field Documentation

8.275.2.1 ULONG GSMSysInfo::cellId

8.275.2.2 BYTE GSMSysInfo::cellIdValid

8.275.2.3 BYTE GSMSysInfo::dtmSupp

8.275.2.4 BYTE GSMSysInfo::dtmSuppValid

8.275.2.5 BYTE GSMSysInfo::egprsSupp

8.275.2.6 BYTE GSMSysInfo::egprsSuppValid

8.275.2.7 WORD GSMSysInfo::lac

8.275.2.8 BYTE GSMSysInfo::lacValid

8.275.2.9 BYTE GSMSysInfo::MCC[3]

8.275.2.10 BYTE GSMSysInfo::MNC[3]

8.275.2.11 BYTE GSMSysInfo::networkIdValid

8.275.2.12 BYTE GSMSysInfo::regRejectInfoValid

8.275.2.13 BYTE GSMSysInfo::rejCause

8.275.2.14 BYTE GSMSysInfo::rejectSrvDomain

8.275.2.15 sysInfoCommon GSMSysInfo::sysInfoGSM

8.276 gyroAcceptReady_s Struct Reference

Data Fields

- BYTE injectEnable
- WORD samplesPerBatch
- WORD batchPerSec

8.276.1 Detailed Description

This structure contains Gyroscope Accept Ready Info

Parameters

injectEnable	• GNSS location engine is ready to accept data from sensor. • Values • 0x01 - Ready to accept sensor data • 0x00 - Not ready to accept sensor data
samplesPerBatch	• number of samples per batch the GNSS location engine is to receive. • samplingFrequency = samplesPerBatch ∗ batchesPerSecond • samplesPerBatch must be a nonzero positive value.
batchPerSec	• LTE NAS version minor • Number of sensor-data batches the GNSS location engine is to receive per second. • BatchesPerSecond must be a nonzero positive value.

8.276.2 Field Documentation

8.276.2.1 WORD gyroAcceptReady_s::batchPerSec

8.276.2.2 BYTE gyroAcceptReady_s::injectEnable

8.276.2.3 WORD gyroAcceptReady_s::samplesPerBatch

8.277 gyroTempAcceptReady_s Struct Reference

Data Fields

- BYTE injectEnable
- WORD samplesPerBatch
- WORD batchPerSec

8.277.1 Detailed Description

This structure contains Gyroscope Temperature Accept Ready Info

Parameters

injectEnable	• GNSS location engine is ready to accept data from sensor. • Values • 0x01 - Ready to accept sensor data • 0x00 - Not ready to accept sensor data
samplesPer-Batch	• number of samples per batch the GNSS location engine is to receive. • samplingFrequency = samplesPerBatch ∗ batchesPerSecond • samplesPerBatch must be a nonzero positive value.
batchPerSec	• LTE NAS version minor • Number of sensor-data batches the GNSS location engine is to receive per second. • BatchesPerSecond must be a nonzero positive value.

8.277.2 Field Documentation

8.277.2.1 WORD gyroTempAcceptReady_s::batchPerSec

8.277.2.2 BYTE gyroTempAcceptReady_s::injectEnable

8.277.2.3 WORD gyroTempAcceptReady_s::samplesPerBatch

8.278 HDRECIOThresh Struct Reference

Data Fields

- BYTE HDRECIOThreshListLen
- WORD ∗ pHDRECIOThreshList

8.278.1 Detailed Description

This structure contains HDR ECIO threshold related parameters.

Parameters

HDRECIO-ThreshListLen	• Length of the HDR ECIO threshold list parameter to follow
pHDRECIO-ThreshList	• Array of ECIO thresholds (in units of 0.1 dB) • Maximum of 32 values • Range for ECIO values: -31.5 to 0 (in dB).

8.278.2 Field Documentation

8.278.2.1 BYTE HDRECIOThresh::HDRECIOThreshListLen

8.278.2.2 WORD* HDRECIOThresh::pHDRECIOThreshList

8.279 HDRIOThresh Struct Reference

Data Fields

- BYTE HDRIOThreshListLen
- WORD * pHDRIOThreshList

8.279.1 Detailed Description

This structure contains HDR IO threshold related parameters.

Parameters

HDRIOThresh-ListLen	• Length of the HDR IO threshold list parameter to follow
pHDRIOThresh-List	• Array of IO thresholds (in units of 0.1 dBm) • Maximum of 32 values • Range for IO values: -128 to -13 (in dBm).

8.279.2 Field Documentation

8.279.2.1 BYTE HDRIOThresh::HDRIOThreshListLen

8.279.2.2 WORD* HDRIOThresh::pHDRIOThreshList

8.280 HDRPersonalityInd Struct Reference

Data Fields

- WORD * pCurrentPersonality
- BYTE * pPersonalityListLength
- protocolSubtypeElement * pProtocolSubtypeElement

8.280.1 Field Documentation

8.280.1.1 WORD* HDRPersonalityInd::pCurrentPersonality

8.280.1.2 BYTE* HDRPersonalityInd::pPersonalityListLength

8.280.1.3 protocolSubtypeElement* HDRPersonalityInd::pProtocolSubtypeElement

8.281 HDRPersonalityResp Struct Reference

Data Fields

- WORD * pCurrentPersonality
- BYTE * pPersonalityListLength
- protocolSubtypeElement * pProtocolSubtypeElement

8.281.1 Detailed Description

This structure contains information about the SLQSSwiGetHDRPersonality response parameters.

Parameters

pCurrent-Personality[Out]	• Current active personality index.
pPersonalityList-Length[In/Out]	• Number of Personality Protocol Subtype contains in this response. • maximum input value is 3
pProtocol-Subtype-Element[Out]	• See protocolSubtypeElement for more information.

8.281.2 Field Documentation

8.281.2.1 WORD* HDRPersonalityResp::pCurrentPersonality

8.281.2.2 BYTE* HDRPersonalityResp::pPersonalityListLength

8.281.2.3 protocolSubtypeElement* HDRPersonalityResp::pProtocolSubtypeElement

8.282 HDRProtSubtypResp Struct Reference

Data Fields

- WORD * pCurrentPrsnlty
- BYTE * pPersonalityListLength

- protocolSubtypeElement * pProtoSubTypElmnt
- ULONGLONG * pAppSubType

8.282.1 Detailed Description

This structure contains information about the SLQSSwiGetHDRProtSubtype response parameters.

Parameters

pCurrent-Personality[Out]	• Current active personality index.
pPersonalityList-Length[In/Out]	• Number of Personality Protocol Subtype contains in this response. • maximum input value is 4
pProtocol-Subtype-Element[Out]	• See protocolSubtypeElement for more information.
pAppSubType[-Out]	• Stream application subtype • Application subtype for each stream,

8.282.2 Field Documentation

8.282.2.1 ULONGLONG* HDRProtSubtypResp::pAppSubType

8.282.2.2 WORD* HDRProtSubtypResp::pCurrentPrsnlty

8.282.2.3 BYTE* HDRProtSubtypResp::pPersonalityListLength

8.282.2.4 protocolSubtypeElement* HDRProtSubtypResp::pProtoSubTypElmnt

8.283 HDRRSSIThresh Struct Reference

Data Fields

- BYTE HDRRSSIThreshListLen
- WORD * pHDRRSSIThreshList

8.283.1 Detailed Description

This structure contains HDR RSSI threshold related parameters.

Parameters

HDRRSSI-ThreshListLen	• Length of the HDR RSSI threshold list parameter to follow
pHDRRSSI-ThreshList	• Array of RSSI thresholds (in units of 0.1 dBm) • Maximum of 32 values. • Range for RSSI values: -118 to -13 (in dBm).

8.283.2 Field Documentation

8.283.2.1 BYTE HDRRSSIThresh::HDRRSSIThreshListLen

8.283.2.2 WORD* HDRRSSIThresh::pHDRRSSIThreshList

8.284 HDRSINRThresh Struct Reference

Data Fields

- BYTE HDRSINRThresListLen
- BYTE * pHDRSINRThresList

8.284.1 Detailed Description

This structure contains HDR SINR threshold related parameters.

Parameters

HDRSINRThres-ListLen	• Length of the HDR SINR threshold list parameter to follow
pHDRSINR-ThresList	• Sequence of thresholds delimiting SINR event reporting bands • Every time a new SINR value crosses a threshold value, an event report indication message with the new SINR value is sent to the requesting control point. For this field – SINR is reported only for HDR – Each SINR threshold value is an unsigned 1 byte value – Maximum number of threshold values is 16 – At least one value must be specified

8.284.2 Field Documentation

8.284.2.1 BYTE HDRSINRThresh::HDRSINRThresListLen

8.284.2.2 BYTE* HDRSINRThresh::pHDRSINRThresList

8.285 HDRSINRThreshold Struct Reference

Data Fields

- BYTE HDRSINRThreshListLen
- WORD * pHDRSINRThreshList

8.285.1 Detailed Description

This structure contains HDR SINR threshold related parameters.

Parameters

HDRSINR-ThreshListLen	• Length of the HDR ECIO threshold list parameter to follow
pHDRSINR-ThreshList	• Array of SINR level thresholds (in units of 1) • maximum of 32 values. • Valid levels are 0 to 8 – 0x00 - SINR_LEVEL_0 is -9 dB – 0x01 - SINR_LEVEL_1 is -6 dB – 0x02 - SINR_LEVEL_2 is -4.5 dB – 0x03 - SINR_LEVEL_3 is -3 dB – 0x04 - SINR_LEVEL_4 is -2 dB – 0x05 - SINR_LEVEL_5 is +1 dB – 0x06 - SINR_LEVEL_6 is +3 dB – 0x07 - SINR_LEVEL_7 is +6 dB – 0x08 - SINR_LEVEL_8 is +9 dB

8.285.2 Field Documentation

8.285.2.1 BYTE HDRSINRThreshold::HDRSINRThreshListLen

8.285.2.2 WORD* HDRSINRThreshold::pHDRSINRThreshList

8.286 HDRSSInfo Struct Reference

Data Fields

- INT8 rssi
- SHORT ecio
- BYTE sinr
- INT32 io

8.286.1 Detailed Description

This structure contains the parameters for HDR Signal Strength Information

Parameters

rssi	• RSSI in dBm (signed value). • A value of -125 dBm or lower is used to indicate No Signal.
ecio	• ECIO value representing negative 0.5 dBm increments, i.e., 2 means -1 dBm (14 means -7 dBm, 63 means -31.5 dBm).
sinr	• SINR level. • SINR is only applicable for 1xEV-DO. • Valid levels are 0 to 8, where the maximum value for: – 0 - SINR_LEVEL_0 is -9 dB – 1 - SINR_LEVEL_1 is -6 dB – 2 - SINR_LEVEL_2 is -4.5 dB – 3 - SINR_LEVEL_3 is -3 dB – 4 - SINR_LEVEL_4 is -2 dB – 5 - SINR_LEVEL_5 is +1 dB – 6 - SINR_LEVEL_6 is +3 dB – 7 - SINR_LEVEL_7 is +6 dB – 8 - SINR_LEVEL_8 is +9 dB – 0xFF - Not Available
io	• Received IO in dBm. • IO is only applicable for 1xEV-DO.

8.286.2 Field Documentation

8.286.2.1 SHORT HDRSSInfo::ecio

8.286.2.2 INT32 HDRSSInfo::io

8.286.2.3 INT8 HDRSSInfo::rssi

8.286.2.4 BYTE HDRSSInfo::sinr

8.287 hdrSSInfo Struct Reference

Data Fields

- int8_t rssi
- int16_t ecio
- uint8_t sinr
- int32_t io

8.287.1 Detailed Description

This structure contains the parameters for HDR Signal Strength Information

Parameters

rssi	• RSSI in dBm (signed value). • A value of -125 dBm or lower is used to indicate No Signal.
ecio	• ECIO value representing negative 0.5 dBm increments, i.e., 2 means -1 dBm (14 means -7 dBm, 63 means -31.5 dBm).
sinr	• SINR level. • SINR is only applicable for 1xEV-DO. • Valid levels are 0 to 8, where the maximum value for: – 0 - SINR_LEVEL_0 is -9 dB – 1 - SINR_LEVEL_1 is -6 dB – 2 - SINR_LEVEL_2 is -4.5 dB – 3 - SINR_LEVEL_3 is -3 dB – 4 - SINR_LEVEL_4 is -2 dB – 5 - SINR_LEVEL_5 is +1 dB – 6 - SINR_LEVEL_6 is +3 dB – 7 - SINR_LEVEL_7 is +6 dB – 8 - SINR_LEVEL_8 is +9 dB – 0xFF - Not Available
io	• Received IO in dBm. • IO is only applicable for 1xEV-DO.

8.287.2 Field Documentation

8.287.2.1 int16_t hdrSSInfo::ecio

8.287.2.2 int32_t hdrSSInfo::io

8.287.2.3 int8_t hdrSSInfo::rssi

8.287.2.4 uint8_t hdrSSInfo::sinr

8.288 HDRSysInfo Struct Reference

Data Fields

- sysInfoCommon sysInfoHDR
- BYTE isSysPrlMatchValid
- BYTE isSysPrlMatch
- BYTE hdrPersonalityValid
- BYTE hdrPersonality
- BYTE hdrActiveProtValid
- BYTE hdrActiveProt
- BYTE is856SysIdValid
- BYTE is856SysId [16]

8.288.1 Detailed Description

Structure for storing the HDR System Information.

Parameters

sysInfoHDR	• See sysInfoCommon for more information.
isSysPrlMatch-Valid	• Indicates whether the system PRL match is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
isSysPrlMatch	• Indicates whether the system is in a PRL. • Only applies to CDMA/HDR. – 0x00 - System is not in a PRL – 0x01 - System is in a PRL – 0xFF - Not Available • If the system is not in a PRL, roam_status carries the value from the default roaming indicator in the PRL. • If the system is in a PRL, roam_status is set to the value based on the standard specification.
hdrPersonality-Valid	• Indicates whether the HDR personality is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
hdrPersonality	• HDR personality information. • Only applicable for HDR. – 0x00 - None – 0x02 - HRPD – 0x03 - eHRPD – 0xFF - Not Available
hdrActiveProt-Valid	• Indicates whether the HDR active protocol revision information is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
hdrActiveProt	• HDR active protocol revision information . • Only applicable for HDR. – 0x00 - None – 0x02 - HDR Rel 0 – 0x03 - HDR Rel A – 0x04 - HDR Rel B – 0xFF - Not Available

is856SysIdValid	• Indicates whether the IS-856 system ID is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
is856SysId[SLQS_SYSTEM_IDSIZE]	• IS-856 system ID. • Only applicable for HDR.

8.288.2 Field Documentation

8.288.2.1 BYTE HDRSysInfo::hdrActiveProt

8.288.2.2 BYTE HDRSysInfo::hdrActiveProtValid

8.288.2.3 BYTE HDRSysInfo::hdrPersonality

8.288.2.4 BYTE HDRSysInfo::hdrPersonalityValid

8.288.2.5 BYTE HDRSysInfo::is856SysId[16]

8.288.2.6 BYTE HDRSysInfo::is856SysIdValid

8.288.2.7 BYTE HDRSysInfo::isSysPrlMatch

8.288.2.8 BYTE HDRSysInfo::isSysPrlMatchValid

8.288.2.9 sysInfoCommon HDRSysInfo::sysInfoHDR

8.289 homeSIDNID Struct Reference

Data Fields

- BYTE numInstances
- sidNid SidNid [255]

8.289.1 Detailed Description

This structure contains the parameters for Home SID/NID Information

Parameters

numInstances	• Number of sets of the following elements: – sid – nid • If zero(0), then no information follows.
SidNid	• See sidNid for more information

8.289.2 Field Documentation

8.289.2.1 BYTE homeSIDNID::numInstances

8.289.2.2 sidNid homeSIDNID::SidNid[255]

8.290 hotSwapStatus Struct Reference

Data Fields

- BYTE hotSwapLength
- BYTE hotSwap [255]

8.290.1 Detailed Description

This structure contains Hot Swap Status Information.

Parameters

hotSwapLength	• Number of sets of the following elements. i.e. hot_swap
hotSwap[MAX_-DESCRIPTION-_LENGTH]	• Indicates the status of the hot-swap switch. – 0 - Hot-swap is not supported – 1 - Hot-swap is supported, but the status of the switch is not supported – 2 - Switch indicates that the card is present – 3 - Switch indicates that the card is not present

8.290.2 Field Documentation

8.290.2.1 BYTE hotSwapStatus::hotSwap[255]

8.290.2.2 BYTE hotSwapStatus::hotSwapLength

8.291 hrpdMTUSizeTlv Struct Reference

Data Fields

- BYTE TlvPresent
- WORD hrpdMTUSize

8.291.1 Detailed Description

This structure contains the parameters for HRPD MTU Size.

Parameters

TlvPresent	• Tlv Present.

hrpdMTUSize	HRPD size • Size of HRPD MTU

8.291.2 Field Documentation

8.291.2.1 WORD hrpdMTUSizeTlv::hrpdMTUSize

8.291.2.2 BYTE hrpdMTUSizeTlv::TlvPresent

8.292 image_info_t Struct Reference

Data Fields

- uint8_t imageType
- uint8_t uniqueID [16]
- uint8_t buildIDLen
- uint8_t buildID [255]

8.292.1 Detailed Description

This structure is used to store image information

Parameters

imageType	• Image Type
	• Values:
	  – 0 - FW
	  – 1 - configuration

uniqueID	• Image Unique Identifier (ASCII characters)
buildIDLen	• Length of build ID string to follow • If set to zero, build ID string will be blank
buildID	• String containing image information(ASCII characters) • Maximum length of this string is 255 chars

8.292.2 Field Documentation

8.292.2.1 uint8_t image_info_t::buildID[255]

8.292.2.2 uint8_t image_info_t::buildIDLen

8.292.2.3 uint8_t image_info_t::imageType

8.292.2.4 uint8_t image_info_t::uniqueID[16]

8.293 ImageElement Struct Reference

Data Fields

- BYTE imageType
- BYTE imageId [16]
- BYTE buildIdLength
- CHAR buildId [100]

8.293.1 Detailed Description

push current alignment to stack set alignment to 1 byte boundary This structure contains the Image Element information

Parameters

imageType	• Type of image 0 - Modem 1 - PRI
imageId	• Unique image identifier
buildIdLength	• Length of the build ID string (may be zero)
buildId	• Build ID ANSI string(Max 100 characters)

8.293.2 Field Documentation

8.293.2.1 CHAR ImageElement::buildId[100]

8.293.2.2 BYTE ImageElement::buildIdLength

8.293.2.3 BYTE ImageElement::imageId[16]

8.293.2.4 BYTE ImageElement::imageType

8.294 ImageIdElement Struct Reference

Data Fields

- BYTE storageIndex
- BYTE failureCount
- BYTE imageID [16]
- BYTE buildIDLength
- CHAR buildID [100]

8.294.1 Detailed Description

push current alignment to stack set alignment to 1 byte boundary This structure contains the Image ID list element Information

Parameters

storageIndex	• Index in storage where the image is located(a value of 0xFF indicates that the storage for this type of image is not relevant)
failureCount	• Number of consecutive write attempts to this storage index that have failed(a value of 0xFF indicates unspecified)
imageID	• Image unique identifier(max 16 chars.)
buildIDLength	• Length of the build ID string. If there is no build ID, this field will be 0 and no data will follow.
buildID	• String containing image build information(Max 100 characters)

8.294.2 Field Documentation

8.294.2.1 CHAR ImageIdElement::buildID[100]

8.294.2.2 BYTE ImageIdElement::buildIDLength

8.294.2.3 BYTE ImageIdElement::failureCount

8.294.2.4 BYTE ImageIdElement::imageID[16]

8.294.2.5 BYTE ImageIdElement::storageIndex

8.295 ImageIDEntries Struct Reference

Data Fields

- BYTE imageType
- BYTE maxImages
- BYTE executingImage
- BYTE imageIDSize
- struct ImageIdElement imageIDElement [50]

8.295.1 Detailed Description

This structure contains the list entry Information

Parameters

imageType	• Type of image – 0 - Modem – 1 - PRI
maxImages	• Maximum number of images of this type that may be stored concurrently on the device
executingImage	• Index (into the next array) of image that is currently executing
imageIDSize	• The number of elements in the image ID list
imageIDElement	• Array of ImageIDElement Structure (Max 50 elements)

8.295.2 Field Documentation

8.295.2.1 BYTE ImageIDEntries::executingImage

8.295.2.2 struct ImageIdElement ImageIDEntries::imageIDElement[50]

8.295.2.3 BYTE ImageIDEntries::imageIDSize

8.295.2.4 BYTE ImageIDEntries::imageType

8.295.2.5 BYTE ImageIDEntries::maxImages

8.296 ImageList Struct Reference

Data Fields

- BYTE listSize
- struct ImageIDEntries imageIDEntries [2]

8.296.1 Detailed Description

This structure contains the Get Stored Images List

Parameters

listSize	• The number of elements in the image list
imageIDEntries	• Array of ImageIDEntries Structure (Max 2 entries)

8.296.2 Field Documentation

8.296.2.1 struct ImageIDEntries ImageList::imageIDEntries[2]

8.296.2.2 BYTE ImageList::listSize

8.297 IMSAIndRegisterInfo Struct Reference

Data Fields

- BYTE * pRegStatusConfig
- BYTE * pServiceStatusConfig
- BYTE * pRatHandoverStatusConfig
- BYTE * pPdpStatusConfig

8.297.1 Detailed Description

This structure contains parameters of IMSA Config Indication Register

Parameters

pRegStatus-Config(optional)	• Register Indication For Registration status. • When this registration is enabled, the device learns of Registration status via the QMI_IMSA_-REGISTRATION_STATUS_IND indication. – 0x00 - Disable – 0x01 - Enable
pServiceStatus-Config(optional)	• Register Indication For Service status Events. • When this registration is enabled, the device learns of Service status via the QMI_IMSA_SER-VICE_STATUS_IND indication. – 0x00 - Disable – 0x01 - Enable
pRatHandover-Status-Config(optional)	• Registration Indication For RAT handover status. • When this registration is enabled, the device learns of RAT handover status via the QMI_IMSA-_RAT_HANDOVER_STATUS_IND indication. – 0x00 - Disable – 0x01 - Enable
pPdpStatus-Config(optional)	• PDP Status Configuration. – 0x00 - Disable – 0x01 - Enable

Note

One of the optional parameter is mandatory to be present in the request.

8.297.2 Field Documentation

8.297.2.1 BYTE* IMSAIndRegisterInfo::pPdpStatusConfig

8.297.2.2 BYTE* IMSAIndRegisterInfo::pRatHandoverStatusConfig

8.297.2.3 BYTE* IMSAIndRegisterInfo::pRegStatusConfig

8.297.2.4 BYTE* IMSAIndRegisterInfo::pServiceStatusConfig

8.298 imsaPdpStatusInfo Struct Reference

Data Fields

- BYTE connetionState
- ULONG * pFailErrorCode

8.298.1 Detailed Description

Contains the parameters passed for SLQSSetIMSAPdpStatusCallback by the device.

Parameters

connetionState	• IMS PDP connection state information. • Values – TRUE – IMS PDP is connected – FALSE – IMS PDP is not connected
pFailErrorCode	• IMS PDP connection failure error reason code when the IMS PDP Connection State TLV is FALSE. • Values – 0 - Generic failure reason for other than specified – 1 - Option is unsubscribed. – 2 - PDP status was unknown.

8.298.2 Field Documentation

8.298.2.1 BYTE imsaPdpStatusInfo::connetionState

8.298.2.2 ULONG* imsaPdpStatusInfo::pFailErrorCode

8.299 imsaRatStatusInfo Struct Reference

Data Fields

- ULONG * pRATStatus
- ULONG * pSrcRAT
- ULONG * pTgtRAT
- BYTE * pErrorCodeStr

8.299.1 Detailed Description

Contains the parameters passed for SLQSSetIMSARatStatusCallback by the device.

Parameters

pRATStatus	• RAT handover Status
pSrcRAT	• Source RAT
pTgtRAT	• Target RAT
pErrorCodeStr	• Error Code String

8.299.2 Field Documentation

8.299.2.1 BYTE∗ imsaRatStatusInfo::pErrorCodeStr

8.299.2.2 ULONG∗ imsaRatStatusInfo::pRATStatus

8.299.2.3 ULONG∗ imsaRatStatusInfo::pSrcRAT

8.299.2.4 ULONG∗ imsaRatStatusInfo::pTgtRAT

8.300 IMSARegistrationStatus Struct Reference

Data Fields

- BYTE ∗ pImsRegStatus
- WORD ∗ pImsRegErrCode
- ULONG ∗ pNewImsRegStatus

8.300.1 Detailed Description

This structure contains response parameters of registration status.

Parameters

pImsRegStatus	• IMS Registration Status (Deprecated). • Values – TRUE - UE is registered on the IMS network – FALSE - UE is not registered on the IMS network
pImsRegErr-Code	• IMS Registration Error Code. • An error code is returned when the IMS registration status is IMSA_STATUS_NOT_REGISTE-RED. -Values – 3xx – Redirection responses – 4xx – Client failure responses – 5xx – Server failure responses – 6xx – Global failure responses

pNewImsRegStatus	• New IMS Registration Status • Values – 0 - Not registered for IMS – 1 - Registering for IMS – 2 - Registered for IMS

8.300.2 Field Documentation

8.300.2.1 WORD∗ IMSARegistrationStatus::pImsRegErrCode

8.300.2.2 BYTE∗ IMSARegistrationStatus::pImsRegStatus

8.300.2.3 ULONG∗ IMSARegistrationStatus::pNewImsRegStatus

8.301 imsaRegStatusInfo Struct Reference

Data Fields

- BYTE ∗ pbIMSRegistered
- WORD ∗ pRegStatusErrorCode
- ULONG ∗ pImsRegStatus

8.301.1 Detailed Description

Contains the parameters passed for SLQSSetIMSARegStatusCallback by the device.

Parameters

pbIMSRegistered	• TRUE/FALSE
pRegStatusErrorCode	• if IMSA_STATUS_NOT_REGISTERED. Values: 3xx – Redirection responses 4xx – Client failure responses 5xx – Server failure responses 6xx – Global failure responses
pImsRegStatus	IMS registration status. Values: IMSA_STATUS_NOT_REGISTERED - 0 IMSA_STATUS_REGISTERING - 1 IMSA_STATUS_REGISTERED -2

8.301.2 Field Documentation

8.301.2.1 BYTE∗ imsaRegStatusInfo::pbIMSRegistered

8.301.2.2 ULONG∗ imsaRegStatusInfo::pImsRegStatus

8.301.2.3 WORD∗ imsaRegStatusInfo::pRegStatusErrorCode

8.302 IMSAServiceStatus Struct Reference

Data Fields

- ULONG * pSmsServiceStatus
- ULONG * pVoipServiceStatus
- ULONG * pVtServiceStatus
- ULONG * pSmsServiceRat
- ULONG * pVoipServiceRat
- ULONG * pVtServiceRat
- ULONG * pUtServiceStatus
- ULONG * pUtServiceRat
- ULONG * pVsServiceStatus
- ULONG * pVsServiceRat

8.302.1 Detailed Description

This structure contains response parameters of service status for various IMS services.

Parameters

pSmsService-Status	• SMS Service Status. • Values – 0 - IMS SMS service is not available – 1 - IMS SMS is in limited service – 2 - IMS SMS is in full service
pVoipSerive-Status	• VoIP Service Status. -Values – 0 - IMS VoIP service is not available – 2 - IMS VoIP is in full service
pVtService-Status	• VT Service Status • Values – 0 - IMS VT service is not available – 2 - IMS VT is in full service
pSmsServiceRat	• SMS service RAT • Values – 0 - IMS service is registered on WLAN – 1 - IMS service is registered on WWAN – 2 - IMS service is registered on interworking WLAN
pVoipServiceRat	• VoIP service RAT. • Values – 0 - IMS service is registered on WLAN – 1 - IMS service is registered on WWAN – 2 - IMS service is registered on interworking WLAN

pVtServiceRat	• VT service RAT. • Values – 0 - IMS service is registered on WLAN – 1 - IMS service is registered on WWAN – 2 - IMS service is registered on interworking WLAN
pUtService-Status	• UT service Status. • Values – 0 - IMS UT service is not available – 2 - IMS UT is in full service
pUtServiceRat	• UT service RAT. • Values – 0 - IMS service is registered on WLAN – 1 - IMS service is registered on WWAN – 2 - IMS service is registered on interworking WLAN
pVsService-Status	• VS service Status. • Values – 0 - IMS UT service is not available – 2 - IMS UT is in full service
pVsServiceRat	• VS service RAT. • Values – 0 - IMS service is registered on WLAN – 1 - IMS service is registered on WWAN – 2 - IMS service is registered on interworking WLAN

8.302.2 Field Documentation

8.302.2.1 ULONG* IMSAServiceStatus::pSmsServiceRat

8.302.2.2 ULONG* IMSAServiceStatus::pSmsServiceStatus

8.302.2.3 ULONG* IMSAServiceStatus::pUtServiceRat

8.302.2.4 ULONG* IMSAServiceStatus::pUtServiceStatus

8.302.2.5 ULONG* IMSAServiceStatus::pVoipServiceRat

8.302.2.6 ULONG* IMSAServiceStatus::pVoipServiceStatus

8.302.2.7 ULONG* IMSAServiceStatus::pVsServiceRat

8.302.2.8 ULONG* IMSAServiceStatus::pVsServiceStatus

8.302.2.9 ULONG* IMSAServiceStatus::pVtServiceRat

8.302.2.10 ULONG* IMSAServiceStatus::pVtServiceStatus

8.303 IMSASupportedFieldsResp Struct Reference

Data Fields

- struct ReqFieldsList * pReqFieldsList
- struct RespFieldsList * pRespFieldsList
- struct IndFieldsList * pIndFieldsList

8.303.1 Detailed Description

This structure contains response of supported fields by the currently running software.

Parameters

pReqFieldsList	• List of Supported Request Fields. • See ReqFieldsList for more information
pRespFieldsList	• List of Supported Request Fields. • See RespFieldsList for more information
pIndFieldsList	• List of Supported Request Fields. • See IndFieldsList for more information

8.303.2 Field Documentation

8.303.2.1 struct IndFieldsList* IMSASupportedFieldsResp::pIndFieldsList

8.303.2.2 struct ReqFieldsList* IMSASupportedFieldsResp::pReqFieldsList

8.303.2.3 struct RespFieldsList* IMSASupportedFieldsResp::pRespFieldsList

8.304 IMSASupportedMsgInfo Struct Reference

Data Fields

- struct SupportedMsgList * pSupportedMsgList

8.304.1 Detailed Description

This structure contains Queries the set of messages implemented by the currently running software.

Parameters

pSupportedMsg-List	• List of Supported Messages. • See SupportedMsgList for more information

8.304.2 Field Documentation

8.304.2.1 struct SupportedMsgList* IMSASupportedMsgInfo::pSupportedMsgList

8.305 imsaSvcStatusInfo Struct Reference

Data Fields

- ULONG * pSMSSvcStatus
- ULONG * pVOIPSvcStatus
- ULONG * pVTSvcStatus
- ULONG * pSMSSvcRAT
- ULONG * pVOIPSvcRAT
- ULONG * pVTSvcRAT
- ULONG * pUTSvcStatus
- ULONG * pUTSvcRAT

8.305.1 Detailed Description

Contains the parameters passed for SLQSSetIMSASvcStatusCallback by the device.

Parameters

pSMSSvcStatus	IMS SMS NOT AVAILABLE - 0 IMS SMS LIMITED SERVICE - 1 IMS SMS FULL SERVICE - 2
pVOIPSvcStatus	IMS VOIP NOT AVAILABLE - 0 IMS SMS FULL SERVICE -2
pVTSvcStatus	IMS VT NOT AVAILABLE - 0 IMS VT FULL SERVICE - 2
pSMSSvcRAT	IMS service is registered on WLAN - 0 IMS service is registered on WWAN - 1 IMS service is registered on interworking WLAN -2
pVOIPSvcRAT	IMS service is registered on WLAN - 0 IMS service is registered on WWAN - 1 IMS service is registered on interworking WLAN -2 *
pVTSvcRAT	IMS service is registered on WLAN - 0 IMS service is registered on WWAN - 1 IMS service is registered on interworking WLAN -2
pUTSvcStatus	IMS VOIP NOT AVAILABLE - 0 IMS SMS FULL SERVICE -2
pUTSvcRAT	IMS service is registered on WLAN - 0 IMS service is registered on WWAN - 1 IMS service is registered on interworking WLAN -2

8.305.2 Field Documentation

8.305.2.1 ULONG* imsaSvcStatusInfo::pSMSSvcRAT

8.305.2.2 ULONG* imsaSvcStatusInfo::pSMSSvcStatus

8.305.2.3 ULONG* imsaSvcStatusInfo::pUTSvcRAT

8.305.2.4 ULONG* imsaSvcStatusInfo::pUTSvcStatus

8.305.2.5 ULONG* imsaSvcStatusInfo::pVOIPSvcRAT

8.305.2.6 ULONG* imsaSvcStatusInfo::pVOIPSvcStatus

8.305.2.7 ULONG* imsaSvcStatusInfo::pVTSvcRAT

8.305.2.8 ULONG* imsaSvcStatusInfo::pVTSvcStatus

8.306 imsCfgIndRegisterInfo Struct Reference

Data Fields

- BYTE * pSIPConfigEvents
- BYTE * pRegMgrConfigEvents
- BYTE * pSMSConfigEvents
- BYTE * pUserConfigEvents
- BYTE * pVoIPConfigEvents

8.306.1 Detailed Description

This structure contains parameters of IMS Config Indication Register

Parameters

pSIPConfig-Events(optional)	• Registration Indication For SIP Configuration Events. • When this registration is enabled, the device learns of SIP config events via the QMI_IMS_SIP-_CONFIG_IND indication. – 0x00 - Disable – 0x01 - Enable
pRegMgrConfig-Events(optional)	• Registration Indication For Registration Manager Configuration Events. • When this registration is enabled, the device learns of Reg Mgr config events via the QMI_IMS-_REG_MGR_CONFIG_IND indication. – 0x00 - Disable – 0x01 - Enable
pSMSConfig-Events(optional)	• Registration Indication For SMS Configuration Events. • When this registration is enabled, the device learns of SMS config events via the QMI_IMS_S-MS_CONFIG_IND indication. – 0x00 - Disable – 0x01 - Enable
pUserConfig-Events(optional)	• Registration Indication For User Configuration Events. • When this registration is enabled, the device learns of user config events via the QMI_IMS_US-ER_CONFIG_IND indication. – 0x00 - Disable – 0x01 - Enable

pVoIPConfig-Events(optional)	• Registration Indication For VoIP Configuration Events. • When this registration is enabled, the device learns of VOIP config events via the QMI_IMS_VOIP_CONFIG_IND indication. – 0x00 - Disable – 0x01 - Enable

Note

One of the optional parameter is mandatory to be present in the request.

8.306.2 Field Documentation

8.306.2.1 BYTE∗ imsCfgIndRegisterInfo::pRegMgrConfigEvents

8.306.2.2 BYTE∗ imsCfgIndRegisterInfo::pSIPConfigEvents

8.306.2.3 BYTE∗ imsCfgIndRegisterInfo::pSMSConfigEvents

8.306.2.4 BYTE∗ imsCfgIndRegisterInfo::pUserConfigEvents

8.306.2.5 BYTE∗ imsCfgIndRegisterInfo::pVoIPConfigEvents

8.307 imsRegMgrConfigInfo Struct Reference

Data Fields

- WORD ∗ pPriCSCFPort
- BYTE ∗ pCSCFPortName
- BYTE ∗ pIMSTestMode

8.307.1 Detailed Description

Contains the parameters passed for SLQSSetRegMgrConfigCallback by the device.

Parameters

pPriCSCFPort	• Primary call session control function port
pCSCFPort-Name	• Call Session control port, fully qualified domain name • Length of this string can be of maximum 255 bytes
pIMSTestMode	• IMS Test mode Enabled. – TRUE - Enable, no IMS registration – FALSE - Disable, IMS registration is initiated

8.307.2 Field Documentation

8.307.2.1 BYTE∗ imsRegMgrConfigInfo::pCSCFPortName

8.307.2.2 BYTE∗ imsRegMgrConfigInfo::pIMSTestMode

8.307.2.3 WORD∗ imsRegMgrConfigInfo::pPriCSCFPort

8.308 imsSIPConfigInfo Struct Reference

Data Fields

- WORD ∗ pSIPLocalPort
- ULONG ∗ pTimerSIPReg
- ULONG ∗ pSubscribeTimer
- ULONG ∗ pTimerT1
- ULONG ∗ pTimerT2
- ULONG ∗ pTimerTf
- BYTE ∗ pSigCompEnabled

8.308.1 Detailed Description

Contains the parameters passed for SLQSSetSIPConfigCallback by the device.

Parameters

pSIPLocalPort	• Primary call session control function SIP port number
pTimerSIPReg	• Initial SIP registration duration from the User equipment, in seconds
pSubscribeTimer	• Duration of the subscription by the UE for IMS registration notifications, in seconds
pTimerT1	• RTT estimate, in milliseconds
pTimerT2	• The maximum retransmit interval for non-invite requests and invite responses, in milliseconds
pTimerTf	• Non-invite transaction timeout timer, in milliseconds
pSigComp-Enabled	• Sig Comp Status – TRUE - Enable – FALSE - Disable

Note

None

8.308.2 Field Documentation

8.308.2.1 BYTE* imsSIPConfigInfo::pSigCompEnabled

8.308.2.2 WORD* imsSIPConfigInfo::pSIPLocalPort

8.308.2.3 ULONG* imsSIPConfigInfo::pSubscribeTimer

8.308.2.4 ULONG* imsSIPConfigInfo::pTimerSIPReg

8.308.2.5 ULONG* imsSIPConfigInfo::pTimerT1

8.308.2.6 ULONG* imsSIPConfigInfo::pTimerT2

8.308.2.7 ULONG* imsSIPConfigInfo::pTimerTf

8.309 imsSMSConfigInfo Struct Reference

Data Fields

- BYTE * pSMSFormat
- BYTE * pSMSOverIPNwInd
- BYTE * pPhoneCtxtURI

8.309.1 Detailed Description

Contains the parameters passed for SLQSSetIMSSMSConfigCallback by the device.

Parameters

pSMSFormat	• SMS format – 0 - 3GPP – 1 - 3GPP2
pSMSOverIPNw-Ind	• SMS over IP Network Indication Flag – TRUE - Mobile-Originated(MO) SMS turned on – FALSE - MO SMS turned off
pPhoneCtxtURI	• Phone context universal resource identifier • Length of this string can be of maximum 255 bytes

8.309.2 Field Documentation

8.309.2.1 BYTE* imsSMSConfigInfo::pPhoneCtxtURI

8.309.2.2 BYTE* imsSMSConfigInfo::pSMSFormat

8.309.2.3 BYTE* imsSMSConfigInfo::pSMSOverIPNwInd

8.310 imsUserConfigInfo Struct Reference

Data Fields

- BYTE * pIMSDomain

8.310.1 Detailed Description

Contains the parameters passed for SLQSSetIMSUserConfigCallback by the device.

Parameters

pIMSDomain	• IMS domain name • Length of this string can be of maximum 255 bytes

8.310.2 Field Documentation

8.310.2.1 BYTE* imsUserConfigInfo::pIMSDomain

8.311 imsVoIPConfigInfo Struct Reference

Data Fields

- WORD * pSessionExpiryTimer
- WORD * pMinSessionExpiryTimer
- BYTE * pAmrWbEnable
- BYTE * pScrAmrEnable
- BYTE * pScrAmrWbEnable
- BYTE * pAmrMode
- WORD * pAmrWBMode
- BYTE * pAmrOctetAligned
- BYTE * pAmrWBOctetAligned
- WORD * pRingingTimer
- WORD * pRingBackTimer
- WORD * pRTPRTCPInactTimer

8.311.1 Detailed Description

Contains the parameters passed for SLQSSetIMSVoIPConfigCallback by the device.

Parameters

pSessionExpiry-Timer	• Session duration, in seconds
pMinSession-ExpiryTimer	• Minimum allowed value for session expiry timer, in seconds

pAmrWbEnable	• Flag to enable/disable Adaptive Multirate Codec(AMR) WideBand(WB) audio • Values: – True - Enabled – False - Disabled
pScrAmrEnable	• Flag to enable/disable Source Control Rate(SCR) for AMR NarrowBand (NB) • Values: – True - Enabled – False - Disabled
pScrAmrWb-Enable	• Flag to enable/disable SCR for AMR WB Audio • Values: – True - Enabled – False - Disabled
pAmrMode	• BitMask for AMR NB modes allowed • Values: – 0x1 - 4.75 kbps – 0x2 - 5.15 kbps – 0x4 - 5.9 kbps – 0x8 - 6.17 kbps – 0x10 - 7.4 kbps – 0x20 - 7.95 kbps – 0x40 - 10.2 kbps – 0x80 - 12.2 kbps
pAmrWBMode	• BitMask for AMR WB modes allowed • Values: – 0x1 - 6.60 kbps – 0x2 - 8.85 kbps – 0x4 - 12.65 kbps – 0x8 - 14.25 kbps – 0x10 - 15.85 kbps – 0x20 - 18.25 kbps – 0x40 - 19.85 kbps – 0x80 - 23.05 kbps – 0x100 - 23.85 kbps
pAmrOctet-Aligned	• Flag to indicate if the octet is aligned for AMR NB Audio • Values: – True - Aligned – False - Not aligned, Bandwidth Efficient mode

pAmrWBOctet-Aligned	• Flag to indicate if the octet is aligned for AMR WB Audio • Values: – True - Aligned – False - Not aligned, Bandwidth Efficient mode
pRingingTimer	• Duration of ringing timer, in seconds. The ringing timer starts on the ringing event. If the call is not answered within the duration of this timer, the call is disconnected.
pRingBackTimer	• Duration of ringback timer, in seconds. The ringback timer starts on the ringback event. If the call is not answered within the duration of this timer, the call is disconnected.
pRTPRTCP-InactTimer	• Duration of RTP/RTCP inactivity timer, in seconds. If no RTP/RTCP packet is received prior to the expiry of this timer, the call is disconnected.

8.311.2 Field Documentation

8.311.2.1 BYTE* imsVoIPConfigInfo::pAmrMode

8.311.2.2 BYTE* imsVoIPConfigInfo::pAmrOctetAligned

8.311.2.3 BYTE* imsVoIPConfigInfo::pAmrWbEnable

8.311.2.4 WORD* imsVoIPConfigInfo::pAmrWBMode

8.311.2.5 BYTE* imsVoIPConfigInfo::pAmrWBOctetAligned

8.311.2.6 WORD* imsVoIPConfigInfo::pMinSessionExpiryTimer

8.311.2.7 WORD* imsVoIPConfigInfo::pRingBackTimer

8.311.2.8 WORD* imsVoIPConfigInfo::pRingingTimer

8.311.2.9 WORD* imsVoIPConfigInfo::pRTPRTCPInactTimer

8.311.2.10 BYTE* imsVoIPConfigInfo::pScrAmrEnable

8.311.2.11 BYTE* imsVoIPConfigInfo::pScrAmrWbEnable

8.311.2.12 WORD* imsVoIPConfigInfo::pSessionExpiryTimer

8.312 IndFieldsList Struct Reference

Data Fields

- BYTE indicationFieldsLen
- BYTE indicationFields [256]

8.312.1 Detailed Description

This structure contains the Supported Indication Fields List Information

Parameters

indicationFields-Len	• Number of sets of the indication fields.
indicationFields	• Describes which optional field IDs are supported in QMI indication. • Format is same as request field.

8.312.2 Field Documentation

8.312.2.1 BYTE IndFieldsList::indicationFields[256]

8.312.2.2 BYTE IndFieldsList::indicationFieldsLen

8.313 infoInterFreq Struct Reference

Data Fields

- WORD earfcn
- BYTE threshXLow
- BYTE threshXHigh
- BYTE cell_resel_priority
- BYTE cells_len
- cellParams cellInterFreqParams [255]

8.313.1 Detailed Description

This structure contains information about the inter-frequency.

Parameters

earfcn	• E-UTRA absolute radio frequency channel number of the serving cell. • Range: 0 to 65535.
threshXLow	• Cell Srxlev low threshold. • Range: 0 to 31. • When the serving cell does not exceed thresh_serving_low, the value of an evaluated cell must be smaller than this value to be considered for re-selection.
threshXHigh	• Cell Srxlev high threshold. • Range: 0 to 31. • When the serving cell exceeds thresh_serving_low, the value of an evaluated cell must be greater than this value to be considered for re-selection.

cell_resel_-priority	• Cell re-selection priority • Range: 0 to 7. • This field is only valid when ue_in_idle is TRUE.
cells_len	• Provides the number of set of cell params.
cellInterFreq-Params[MAX_D-ESCRIPTION_L-ENGTH]	• See cellParams for more information.

8.313.2 Field Documentation

8.313.2.1 BYTE infoInterFreq::cell_resel_priority

8.313.2.2 cellParams infoInterFreq::cellInterFreqParams[255]

8.313.2.3 BYTE infoInterFreq::cells_len

8.313.2.4 WORD infoInterFreq::earfcn

8.313.2.5 BYTE infoInterFreq::threshXHigh

8.313.2.6 BYTE infoInterFreq::threshXLow

8.314 IOThresh Struct Reference

Data Fields

- BYTE IOThresListLen
- INT32 * pIOThresList

8.314.1 Detailed Description

This structure contains IO threshold related parameters.

Parameters

IOThresListLen	• Length of the LTE SNR threshold list parameter to follow
pIOThresList	• Sequence of thresholds delimiting IO event reporting bands • Every time a new IO value crosses a threshold value, an event report indication message with the new IO value is sent to the requesting control point. For this field – IO is applicable only for HDR – Each IO threshold value is a signed 4 byte value – Maximum number of threshold values is 16 – At least one value must be specified

8.314.2 Field Documentation

8.314.2.1 BYTE IOThresh::IOThresListLen

8.314.2.2 INT32* IOThresh::pIOThresList

8.315 IPv4Addr Struct Reference

Data Fields

- ULONG addr
- ULONG subnetMask

8.315.1 Detailed Description

This structure contains the IPv4 filter address

Parameters

addr	IPv4 address
subnetMask	A packet matches if: • (addr and subnetMask) == (IP pkt addr & subnetMask) Callers to set up a filter with a range of source addresses, if needed; subnet mask of all 1s (255.255.255.255) specifies a single address value

8.315.2 Field Documentation

8.315.2.1 ULONG IPv4Addr::addr

8.315.2.2 ULONG IPv4Addr::subnetMask

8.316 IPv4Config Struct Reference

Data Fields

- ULONG IPv4Addr
- WORD IPv4Port

8.316.1 Detailed Description

This structure specifies information regarding the IPv4 address and port.

Parameters

IPv4Addr	• IPv4 address.
IPv4Port	• IPv4 port.

8.316.2 Field Documentation

8.316.2.1 ULONG IPv4Config::IPv4Addr

8.316.2.2 WORD IPv4Config::IPv4Port

8.317 IPv4Info Struct Reference

Data Fields

- ULONG address
- WORD port
- BYTE TlvPresent

8.317.1 Detailed Description

This structure contains LOC Server IPV4 info field.

Parameters

address	• IPv4 address.
port	• IPv4 port.
TlvPresent	• Tlv Present or not

8.317.2 Field Documentation

8.317.2.1 ULONG IPv4Info::address

8.317.2.2 WORD IPv4Info::port

8.317.2.3 BYTE IPv4Info::TlvPresent

8.318 IPv6Addr Struct Reference

Data Fields

- BYTE addr [16]
- BYTE prefixLen

8.318.1 Detailed Description

This structure contains the IPv6 filter address

Parameters

addr	IPv6 address (in network byte order); this is a 16-byte byte array (in Big-endian format)
prefixLen	IPv6 filter prefix length; can take a value between 0 and 128 Note: A packet matches if the IPv6 source address bytes until the prefix lengths are equal. Therefore prefix length can be used to set a filter with a range of source addresses. A prefix length of 128 specifies a single address value.

8.318.2 Field Documentation

8.318.2.1 BYTE IPv6Addr::addr[16]

8.318.2.2 BYTE IPv6Addr::prefixLen

8.319 IPV6AddressInfo Struct Reference

Data Fields

- BYTE IPV6PrefixLen
- USHORT IPAddressV6 [8]

8.319.1 Detailed Description

This structure contains the IPV6 Address Information

Parameters

IPV6PrefixLen	• Length of the received IPv6 address in no. of bits; can take value between 0 and 128 – 0xFF - Not Available
IPAddressV6	• IPv6 address(in network byte order); This is an 8-element array of 16 bit numbers, each of which is in big endian format.

8.319.2 Field Documentation

8.319.2.1 USHORT IPV6AddressInfo::IPAddressV6[8]

8.319.2.2 BYTE IPV6AddressInfo::IPV6PrefixLen

8.320 ipv6AddressInfo Struct Reference

Data Fields

- uint8_t IPV6PrefixLen
- uint16_t IPAddressV6 [8]

8.320.1 Detailed Description

This structure contains the IPv6 address information

Parameters

IPV6PrefixLen	Length of the received IPv6 address • 0xff - Invalid IPv6 address information.
IPAddressV6	IPv6 address(in network byte order)

8.320.2 Field Documentation

8.320.2.1 uint16_t ipv6AddressInfo::IPAddressV6[8]

8.320.2.2 uint8_t ipv6AddressInfo::IPV6PrefixLen

8.321 IPv6Config Struct Reference

Data Fields

- WORD IPv6Addr [8]
- ULONG IPv6Port

8.321.1 Detailed Description

This structure specifies information regarding the IPv6 address and port.

Parameters

IPv6Addr	• IPv6 address. • Type - Array of unsigned integers • Maximum length of the array: 8
IPv6Port	• IPv6 port.

8.321.2 Field Documentation

8.321.2.1 WORD IPv6Config::IPv6Addr[8]

8.321.2.2 ULONG IPv6Config::IPv6Port

8.322 IPV6GWAddressInfo Struct Reference

Data Fields

- BYTE gwV6PrefixLen
- USHORT gwAddressV6 [8]

8.322.1 Detailed Description

This structure contains the IPV6 Gateway Address Information

Parameters

gwV6PrefixLen	• Length of the received IPv6 Gateway address in no. of bits; can take value between 0 and 128
IPAddressV6	• IPv6 Gateway address(in network byte order); This is an 8-element array of 16 bit numbers, each of which is in big endian format.

8.322.2 Field Documentation

8.322.2.1 USHORT IPV6GWAddressInfo::gwAddressV6[8]

8.322.2.2 BYTE IPV6GWAddressInfo::gwV6PrefixLen

8.323 IPv6Info Struct Reference

Data Fields

- WORD address [8]
- ULONG port
- BYTE TlvPresent

8.323.1 Detailed Description

This structure contains LOC Get Server IPV6 info field.

Parameters

address	• IPv6 address. • Type - Array of unsigned integers • Maximum length of the array - 8
port	• IPv6 port.
TlvPresent	• Tlv Present or not

8.323.2 Field Documentation

8.323.2.1 WORD IPv6Info::address[8]

8.323.2.2 ULONG IPv6Info::port

8.323.2.3 BYTE IPv6Info::TlvPresent

8.324 IPv6TrafCls Struct Reference

Data Fields

- BYTE val
- BYTE mask

8.324.1 Detailed Description

This structure contains the IPv6 filter traffic class

Parameters

val	The traffic class value
mask	The packet matches the traffic class filter if: (IPv6_filter_traffic_class_val and IPv6_filter_traffic_class_mask) == (Traffic class value in the IP packet & IPv6_filter_traffic_class_mask) Example: • IPv6_filter_tc_val = 00101000 • IPv6_filter_tc_mask = 11111100 Filter will compare only the first 6 bits in IPv6_filter_traffic_class with the first 6 bits in the traffic class field of the IP packet; first 6 bits in the traffic class field of the IP packet must be 001010 to match filter; last 2 bits can be anything, since they are ignored by filtering

8.324.2 Field Documentation

8.324.2.1 BYTE IPv6TrafCls::mask

8.324.2.2 BYTE IPv6TrafCls::val

8.325 LibPackGPRSRequestedQoS Struct Reference

Data Fields

- uint32_t precedenceClass
- uint32_t delayClass
- uint32_t reliabilityClass
- uint32_t peakThroughputClass
- uint32_t meanThroughputClass

8.325.1 Detailed Description

This structure contains the GPRS Quality Of Service Information

Parameters

precedenceClass	• Precedence class
delayClass	• Delay class
reliabilityClass	• Reliability class
peakThroughputClass	• Peak throughput class

meanThroughputClass	• Mean throughput class

8.325.2 Field Documentation

8.325.2.1 uint32_t LibPackGPRSRequestedQoS::delayClass

8.325.2.2 uint32_t LibPackGPRSRequestedQoS::meanThroughputClass

8.325.2.3 uint32_t LibPackGPRSRequestedQoS::peakThroughputClass

8.325.2.4 uint32_t LibPackGPRSRequestedQoS::precedenceClass

8.325.2.5 uint32_t LibPackGPRSRequestedQoS::reliabilityClass

8.326 LibpackProfile3GPP Struct Reference

Data Fields

- uint8_t * pProfilename
- uint16_t * pProfilenameSize
- uint8_t * pPDPtype
- uint8_t * pPdpHdrCompType
- uint8_t * pPdpDataCompType
- uint8_t * pAPNName
- uint16_t * pAPNnameSize
- uint32_t * pPriDNSIPv4AddPref
- uint32_t * pSecDNSIPv4AddPref
- LibPackUMTSQoS * pUMTSReqQoS
- LibPackUMTSQoS * pUMTSMinQoS
- LibPackGPRSRequestedQoS * pGPRSRequestedQos
- LibPackGPRSRequestedQoS * pGPRSMinimumQoS
- uint8_t * pUsername
- uint16_t * pUsernameSize
- uint8_t * pPassword
- uint16_t * pPasswordSize
- uint8_t * pAuthenticationPref
- uint32_t * pIPv4AddrPref
- uint8_t * pPcscfAddrUsingPCO
- uint8_t * pPdpAccessConFlag
- uint8_t * pPcscfAddrUsingDhcp
- uint8_t * pImCnFlag
- LibPackTFTIDParams * pTFTID1Params
- LibPackTFTIDParams * pTFTID2Params
- uint8_t * pPdpContext
- uint8_t * pSecondaryFlag
- uint8_t * pPrimaryID
- uint16_t * pIPv6AddPref
- LibPackUMTSReqQoSSigInd * pUMTSReqQoSSigInd
- LibPackUMTSReqQoSSigInd * pUMTSMinQosSigInd
- uint16_t * pPriDNSIPv6addpref
- uint16_t * pSecDNSIPv6addpref

- uint8_t * pAddrAllocPref
- LibPackQosClassID * pQosClassID
- uint8_t * pAPNDisabledFlag
- uint32_t * pPDNInactivTimeout
- uint8_t * pAPNClass
- uint8_t * pSupportEmergencyCalls

8.326.1 Detailed Description

This structure contains Input parameters of unpack_wds_SLQSGetProfileSettings_t Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

pProfileName	• One or more uint8_ts describing the profile • NULL pointer - Invalid data.
pProfilenameSize;	• This parameter is an input parameter and should be initialised to the size of pProfileName field. Size of this parameter is 2 uint8_ts. • NULL pointer - Invalid data.
pPDPType	• Packet Data Protocol (PDP) type specifies the type of data payload exchanged over the air link when the packet data session is established with this profile – 0x00 - PDP-IP (IPv4) – 0x01 - PDP-PPP – 0x02 - PDP-IPV6 – 0x03 - PDP-IPV4V6 • NULL pointer - Invalid data.
pPdpHdrCompType	• PDP header compression type – 0 - PDP header compression is OFF – 1 - Manufacturer preferred compression – 2 - PDP header compression based on RFC 1144 – 3 - PDP header compression based on RFC 25074 PDP header compression based on RFC 3095 • NULL pointer - Invalid data.
pPdpDataCompType	• PDP data compression type – 0 - PDP data compression is OFF – 1 - Manufacturer preferred compression – 2 - V.42BIS data compression – 3 - V.44 data compression • NULL pointer - Invalid data.
pAPNName	• Access point name • NULL pointer - Invalid data.

pAPNnameSize;	• This parameter is an input parameter and should be initialised to the size of pAPNName field. Size of this parameter is 2 uint8_ts. • NULL pointer - Invalid data.
pPriDNSIPv4-AddPref	• Primary DNS IPv4 Address Preference • NULL pointer - Invalid data.
pSecDNSIPv4-AddPref	• Secondary DNS IPv4 Address Preference • NULL pointer - Invalid data.
pUMTSReqQoS	• UMTS Requested QoS • NULL pointer - Invalid data.
pUMTSMinQoS	• UMTS Minimum QoS • NULL pointer - Invalid data.
pGPRS-RequestedQoS	• GPRS Requested QoS • NULL pointer - Invalid data.
pGPRS-MinimumQoS	• GPRS Minimum QoS • NULL pointer - Invalid data.
pUsername	• User name • NULL pointer - Invalid data.
pUsernameSize;	• This parameter is an input parameter and should be initialised to the size of pUsername field. Size of this parameter is 2 uint8_ts. • NULL pointer - Invalid data.
pPassword	• Password • NULL pointer - Invalid data.
pPasswordSize;	• This parameter is an input parameter and should be initialised to the size of pPassword field. Size of this parameter is 2 uint8_ts. • NULL pointer - Invalid data.

pAuthentication-Pref	• Authentication Preference – Bit map that indicates the authentication algorithm preference * Bit 0 - PAP preference · 0 - PAP is never performed · 1 - PAP may be performed * Bit 1 - CHAP preference · 0 - CHAP is never performed · 1 - CHAP may be performed * If more than one bit is set, then the device decides which authentication procedure is performed while setting up the data session. For example, the device may have a policy to select the most secure authentication mechanism. • NULL pointer - Invalid data.
pIPv4AddrPref	• IPv4 Address Preference • NULL pointer - Invalid data.
pPcscfAddr-UsingPCO	• P-CSCF Address using PCO Flag – 1 - (TRUE) implies request PCSCF address using PCO – 0 - (FALSE) implies do not request By default, this value is 0 • NULL pointer - Invalid data.
pPdpAccess-ConFlag	• PDP access control flag – 0 - PDP access control none – 1 - PDP access control reject – 2 - PDP access control permission • NULL pointer - Invalid data.
pPcscfAddr-UsingDhcp	• P-CSCF address using DHCP – 1 - (TRUE) implies Request PCSCF address using DHCP – 0 - (FALSE) implies do not request By default, value is 0 • NULL pointer - Invalid data.
pImCnFlag	• IM CN flag – 1 - (TRUE) implies request IM CN flag for this profile – 0 - (FALSE) implies do not request IM CN flag for this profile • NULL pointer - Invalid data.
pTFTID1Params	• Traffic Flow Template • NULL pointer - Invalid data.
pTFTID2Params	• Traffic Flow Template • NULL pointer - Invalid data.

pPdpContext	• PDP context number • NULL pointer - Invalid data.
pSecondaryFlag	• PDP context secondary flag – 1 - (TRUE) implies this is secondary profile – 0 - (FALSE) implies this is not secondary profile • NULL pointer - Invalid data.
pPrimaryID	• PDP context primary ID • function SLQSGetProfileSettings() returns a default value 0xFF if this parameter is not returned by the device • NULL pointer - Invalid data.
pIPv6AddPref	• IPv6 address preference Preferred IPv6 address to be assigned to the TE; actual assigned address is negotiated with the network and may differ from this value; if not specified, the IPv6 address is obtained automatically from the network • NULL pointer - Invalid data.
pUMTSReqQoS-SigInd	• UMTS requested QoS with Signalling Indication flag • NULL pointer - Invalid data.
pUMTSMinQoS-SigInd	• UMTS minimum QoS with Signalling Indication flag • NULL pointer - Invalid data.
pPrimaryDNSI-Pv6addpref	• Primary DNS IPv6 address preference – The value may be used as a preference during negotiation with the network; if not specified, the wireless device will attempt to obtain the DNS address automatically from the network; the negotiated value is provided to the host via DHCP • NULL pointer - Invalid data.
pSecondaryDN-SIPv6addpref	• Secondary DNS IPv6 address preference • NULL pointer - Invalid data.
paddrAllocation-Pref	• DHCP/NAS preference – This enumerated value may be used to indicate the address allocation preference * 0 - NAS signaling is used for address allocation * 1 - DHCP is used for address allocation • NULL pointer - Invalid data.
pQosClassID	• 3GPP LTE QoS parameters • NULL pointer - Invalid data.

pAPNDisabled-Flag	• Optional 1 uint8_t Flag indicating if the APN is disabled/enabled • If set, the profile can not be used for making data calls • Any data call is failed locally • Values: – 0 - FALSE(default) – 1 - True • This parameter is currently read only and can be read by using the function SLQSGetProfile-Settings(). • NULL pointer - Invalid data.
pPDNInactiv-Timeout	• Optional 4 uint8_ts indicating the duration of inactivity timer in seconds • If the PDP context/PDN connection is inactive for this duration i.e. No data Tx/Rx occurs, the PDP context/PDN connection is disconnected • Default value of zero indicates infinite value • This parameter is currently read only and can be read by using the function SLQSGetProfile-Settings(). • NULL pointer - Invalid data.
pAPNClass	• Optional 1 uint8_t numeric identifier representing the APN in profile • Can be set and queried but is not used by the modem • This parameter is currently read only and can be read by using the function SLQSGetProfile-Settings(). • NULL pointer - Invalid data.
pSupport-EmergencyCalls	• Optional 1 Byte Flag indicating if the emergency call support is disabled/enabled • Can be queried to get current status • Values: – 0 - FALSE(default) – 1 - TRUE • NULL pointer - Invalid data.

8.326.2 Field Documentation

8.326.2.1 uint8_t* LibpackProfile3GPP::pAddrAllocPref

8.326.2.2 uint8_t* LibpackProfile3GPP::pAPNClass

8.326.2.3 uint8_t* LibpackProfile3GPP::pAPNDisabledFlag

8.326.2.4 uint8_t* LibpackProfile3GPP::pAPNName

8.326.2.5 uint16_t* LibpackProfile3GPP::pAPNnameSize

8.326.2.6 uint8_t* LibpackProfile3GPP::pAuthenticationPref

8.326.2.7 LibPackGPRSRequestedQoS* LibpackProfile3GPP::pGPRSMinimumQoS

8.326.2.8 **LibPackGPRSRequestedQoS*** LibpackProfile3GPP::pGPRSRequestedQos

8.326.2.9 uint8_t* LibpackProfile3GPP::pImCnFlag

8.326.2.10 uint32_t* LibpackProfile3GPP::pIPv4AddrPref

8.326.2.11 uint16_t* LibpackProfile3GPP::pIPv6AddPref

8.326.2.12 uint8_t* LibpackProfile3GPP::pPassword

8.326.2.13 uint16_t* LibpackProfile3GPP::pPasswordSize

8.326.2.14 uint8_t* LibpackProfile3GPP::pPcscfAddrUsingDhcp

8.326.2.15 uint8_t* LibpackProfile3GPP::pPcscfAddrUsingPCO

8.326.2.16 uint32_t* LibpackProfile3GPP::pPDNInactivTimeout

8.326.2.17 uint8_t* LibpackProfile3GPP::pPdpAccessConFlag

8.326.2.18 uint8_t* LibpackProfile3GPP::pPdpContext

8.326.2.19 uint8_t* LibpackProfile3GPP::pPdpDataCompType

8.326.2.20 uint8_t* LibpackProfile3GPP::pPdpHdrCompType

8.326.2.21 uint8_t* LibpackProfile3GPP::pPDPtype

8.326.2.22 uint32_t* LibpackProfile3GPP::pPriDNSIPv4AddPref

8.326.2.23 uint16_t* LibpackProfile3GPP::pPriDNSIPv6addpref

8.326.2.24 uint8_t* LibpackProfile3GPP::pPrimaryID

8.326.2.25 uint8_t* LibpackProfile3GPP::pProfilename

8.326.2.26 uint16_t* LibpackProfile3GPP::pProfilenameSize

8.326.2.27 **LibPackQosClassID*** LibpackProfile3GPP::pQosClassID

8.326.2.28 uint32_t* LibpackProfile3GPP::pSecDNSIPv4AddPref

8.326.2.29 uint16_t* LibpackProfile3GPP::pSecDNSIPv6addpref

8.326.2.30 uint8_t* LibpackProfile3GPP::pSecondaryFlag

8.326.2.31 uint8_t* LibpackProfile3GPP::pSupportEmergencyCalls

8.326.2.32 **LibPackTFTIDParams*** LibpackProfile3GPP::pTFTID1Params

8.326.2.33 **LibPackTFTIDParams*** LibpackProfile3GPP::pTFTID2Params

8.326.2.34 **LibPackUMTSQoS*** LibpackProfile3GPP::pUMTSMinQoS

8.326.2.35 **LibPackUMTSReqQoSSigInd*** LibpackProfile3GPP::pUMTSMinQosSigInd

8.326.2.36 LibPackUMTSQoS* LibpackProfile3GPP::pUMTSReqQoS

8.326.2.37 LibPackUMTSReqQoSSigInd* LibpackProfile3GPP::pUMTSReqQoSSigInd

8.326.2.38 uint8_t* LibpackProfile3GPP::pUsername

8.326.2.39 uint16_t* LibpackProfile3GPP::pUsernameSize

8.327 LibpackProfile3GPP2 Struct Reference

Data Fields

- uint8_t * pNegoDnsSrvrPref
- uint32_t * pPppSessCloseTimerDO
- uint32_t * pPppSessCloseTimer1x
- uint8_t * pAllowLinger
- uint16_t * pLcpAckTimeout
- uint16_t * pIpcpAckTimeout
- uint16_t * pAuthTimeout
- uint8_t * pLcpCreqRetryCount
- uint8_t * pIpcpCreqRetryCount
- uint8_t * pAuthRetryCount
- uint8_t * pAuthProtocol
- uint8_t * pUserId
- uint16_t * pUserIdSize
- uint8_t * pAuthPassword
- uint16_t * pAuthPasswordSize
- uint8_t * pDataRate
- uint32_t * pAppType
- uint8_t * pDataMode
- uint8_t * pAppPriority
- uint8_t * pApnString
- uint16_t * pApnStringSize
- uint8_t * pPdnType
- uint8_t * pIsPcscfAddressNedded
- uint32_t * pPrimaryV4DnsAddress
- uint32_t * pSecondaryV4DnsAddress
- uint16_t * pPriV6DnsAddress
- uint16_t * pSecV6DnsAddress
- uint8_t * pRATType
- uint8_t * pAPNEnabled3GPP2
- uint32_t * pPDNInactivTimeout3GPP2
- uint8_t * pAPNClass3GPP2

8.327.1 Detailed Description

This structure contains the 3GPP2 profile parameters

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

pNegoDnsSrvr-Pref	• Negotiate DNS Server Preference – 1 - (TRUE)implies request DNS addresses from the PDSN – 0 - (FALSE)implies do not request DNS addresses from the PDSN – Default value is 1 (TRUE)
pPppSessClose-TimerDO	• PPP Session Close Timer for DO – Timer value (in seconds) on DO indicating how long the PPP Session should linger before closing down
pPppSessClose-Timer1x	• PPP Session Close Timer for 1X – Timer value (in seconds) on 1X indicating how long the PPP session should linger before closing down
pAllowLinger	• Allow/disallow lingering of interface – 1 -(TRUE) implies allow lingering – 0 -(FALSE) implies do not allow lingering
pLcpAckTimeout	• LCP ACK Timeout – Value of LCP ACK Timeout in milliseconds
pIpcpAck-Timeout	• IPCP ACK Timeout – Value of IPCP ACK Timeout in milliseconds
pAuthTimeout	• AUTH Timeout – Value of Authentication Timeout in milliseconds
pLcpCreqRetry-Count	• LCP Configuration Request Retry Count
pIpcpCreqRetry-Count	• IPCP Configuration Request Retry Count
pAuthRetry-Count	• Authentication Retry Count value
pAuthProtocol	• Authentication Protocol – 1 - PAP – 2 - CHAP – 3 - PAP or CHAP

pUserId	• User ID to be used during data network authentication • maximum length allowed is 127 uint8_ts; • QMI_ERR_ARG_TOO_LONG will be returned if the storage on the wireless device is insufficient in size to hold the value.
pUserIdSize;	• This parameter is an input parameter and should be initialised to the size of pUserId field. Size of this parameter is 2 uint8_ts.
pAuthPassword	• Password to be used during data network authentication; • maximum length allowed is 127 uint8_ts • QMI_ERR_ARG_TOO_LONG will be returned if the storage on the wireless device is insufficient in size to hold the value.
pAuthPassword-Size;	• This parameter is an input parameter and should be initialised to the size of pAuthPassword field. Size of this parameter is 2 uint8_ts.
pDataRate	• Data Rate Requested – 0 - Low (Low speed Service Options (SO15) only) – 1 - Medium (SO33 + low R-SCH) – 2 - High (SO33 + high R-SCH) – Default is 2
pAppType	• Application Type: – 0x00000001 - Default Application Type – 0x00000020 - LBS Application Type – 0x00000040 - Tethered Application Type – This parameter is not used while creating/modifying a profile
pDataMode	• Data Mode to use: – 0 - CDMA or HDR (Hybrid 1X/1xEV-DO) – 1 - CDMA Only (1X only) – 2 - HDR Only (1xEV-DO only) – Default is 0
pAppPriority	• Application Priority – Numerical 1 uint8_t value defining the application priority; higher value implies higher priority – This parameter is not used while creating/modifying a profile
pApnString	• String representing the Access Point Name • maximum length allowed is 100 uint8_ts • QMI_ERR_ARG_TOO_LONG will be returned if the APN name is too long.

pApnStringSize;	• This parameter is an input parameter and should be initialised to the size of pApnString field. Size of this parameter is 2 uint8_ts.
pPdnType	• Packed Data Network Type Requested: – 0 - IPv4 PDN Type – 1 - IPv6 PDN Type – 2 - IPv4 or IPv6 PDN Type – 3 - Unspecified PDN Type (implying no preference)
pIsPcscf-AddressNedded	• This boolean value is used to control if PCSCF address is requested from PDSN – 1 -(TRUE) implies request for PCSCF value from the PDSN – 0 -(FALSE) implies do not request for PCSCF value from the PDSN
pPrimaryV4Dns-Address	• IPv4 Primary DNS address – The Primary IPv4 DNS address that can be statically assigned to the UE
pSecondaryV4-DnsAddress	• IPv4 Secondary DNS address – The Secondary IPv4 DNS address that can be statically assigned to the UE
pPriV6Dns-Address	• Primary IPv6 DNS address – The Primary IPv6 DNS address that can be statically assigned to the UE
pSecV6Dns-Address	• Secondary IPv6 DNS address – The Secondary IPv6 DNS address that can be statically assigned to the UE
pRATType	• Optional 1 uint8_t Flag indicating RAT Type • Values: – 1 - HRPD – 2 - EHRPD – 3 - HRPD_EHRPD • This parameter is currently read only and can be read by using the function SLQSGetProfile-Settings().
pAPNEnabled3-GPP2	• Optional 1 uint8_t Flag indicating if the APN is disabled/enabled • If disabled, the profile can not be used for making data calls • Values: – 0 - Disabled – 1 - Enabled(default value) • This parameter is currently read only and can be read by using the function SLQSGetProfile-Settings().

pPDNInactiv-Timeout3GPP2	• Optional 4 uint8_ts indicating the duration of inactivity timer in seconds • If the PDP context/PDN connection is inactive for this duration i.e. No data Tx/Rx occurs, the PDP context/PDN connection is disconnected • Default value of zero indicates infinite value • This parameter is currently read only and can be read by using the function SLQSGetProfile-Settings().
pAPNClass3GP-P2	• Optional 1 uint8_t numeric identifier representing the APN in profile • Can be set and queried but is not used by the modem • This parameter is currently read only and can be read by using the function SLQSGetProfile-Settings().

8.327.2 Field Documentation

8.327.2.1 uint8_t* LibpackProfile3GPP2::pAllowLinger

8.327.2.2 uint8_t* LibpackProfile3GPP2::pAPNClass3GPP2

8.327.2.3 uint8_t* LibpackProfile3GPP2::pAPNEnabled3GPP2

8.327.2.4 uint8_t* LibpackProfile3GPP2::pApnString

8.327.2.5 uint16_t* LibpackProfile3GPP2::pApnStringSize

8.327.2.6 uint8_t* LibpackProfile3GPP2::pAppPriority

8.327.2.7 uint32_t* LibpackProfile3GPP2::pAppType

8.327.2.8 uint8_t* LibpackProfile3GPP2::pAuthPassword

8.327.2.9 uint16_t* LibpackProfile3GPP2::pAuthPasswordSize

8.327.2.10 uint8_t* LibpackProfile3GPP2::pAuthProtocol

8.327.2.11 uint8_t* LibpackProfile3GPP2::pAuthRetryCount

8.327.2.12 uint16_t* LibpackProfile3GPP2::pAuthTimeout

8.327.2.13 uint8_t* LibpackProfile3GPP2::pDataMode

8.327.2.14 uint8_t* LibpackProfile3GPP2::pDataRate

8.327.2.15 uint16_t* LibpackProfile3GPP2::pIpcpAckTimeout

8.327.2.16 uint8_t* LibpackProfile3GPP2::pIpcpCreqRetryCount

8.327.2.17 uint8_t* LibpackProfile3GPP2::pIsPcscfAddressNedded

8.327.2.18 uint16_t* LibpackProfile3GPP2::pLcpAckTimeout

8.327.2.19 uint8_t* LibpackProfile3GPP2::pLcpCreqRetryCount

8.327.2.20 uint8_t* LibpackProfile3GPP2::pNegoDnsSrvrPref

8.327.2.21 uint32_t* LibpackProfile3GPP2::pPDNInactivTimeout3GPP2

8.327.2.22 uint8_t* LibpackProfile3GPP2::pPdnType

8.327.2.23 uint32_t* LibpackProfile3GPP2::pPppSessCloseTimer1x

8.327.2.24 uint32_t* LibpackProfile3GPP2::pPppSessCloseTimerDO

8.327.2.25 uint32_t* LibpackProfile3GPP2::pPrimaryV4DnsAddress

8.327.2.26 uint16_t* LibpackProfile3GPP2::pPriV6DnsAddress

8.327.2.27 uint8_t* LibpackProfile3GPP2::pRATType

8.327.2.28 uint32_t* LibpackProfile3GPP2::pSecondaryV4DnsAddress

8.327.2.29 uint16_t* LibpackProfile3GPP2::pSecV6DnsAddress

8.327.2.30 uint8_t* LibpackProfile3GPP2::pUserId

8.327.2.31 uint16_t* LibpackProfile3GPP2::pUserIdSize

8.328 LibPackprofile_3GPP Struct Reference

Data Fields

- uint8_t * pProfilename
- uint16_t * pProfilenameSize
- uint8_t * pPDPtype
- uint8_t * pPdpHdrCompType
- uint8_t * pPdpDataCompType
- uint8_t * pAPNName
- uint16_t * pAPNnameSize
- uint32_t * pPriDNSIPv4AddPref
- uint32_t * pSecDNSIPv4AddPref
- LibPackUMTSQoS * pUMTSReqQoS
- LibPackUMTSQoS * pUMTSMinQoS
- LibPackGPRSRequestedQoS * pGPRSRequestedQos
- LibPackGPRSRequestedQoS * pGPRSMinimumQoS
- uint8_t * pUsername
- uint16_t * pUsernameSize
- uint8_t * pPassword
- uint16_t * pPasswordSize
- uint8_t * pAuthenticationPref
- uint32_t * pIPv4AddrPref
- uint8_t * pPcscfAddrUsingPCO
- uint8_t * pPdpAccessConFlag
- uint8_t * pPcscfAddrUsingDhcp
- uint8_t * pImCnFlag
- LibPackTFTIDParams * pTFTID1Params
- LibPackTFTIDParams * pTFTID2Params

- uint8_t * pPdpContext
- uint8_t * pSecondaryFlag
- uint8_t * pPrimaryID
- uint16_t * pIPv6AddPref
- LibPackUMTSReqQoSSigInd * pUMTSReqQoSSigInd
- LibPackUMTSReqQoSSigInd * pUMTSMinQosSigInd
- uint16_t * pPriDNSIPv6addpref
- uint16_t * pSecDNSIPv6addpref
- uint8_t * pAddrAllocPref
- LibPackQosClassID * pQosClassID
- uint8_t * pAPNDisabledFlag
- uint32_t * pPDNInactivTimeout
- uint8_t * pAPNClass
- uint8_t * pSupportEmergencyCalls

8.328.1 Detailed Description

This structure contains Input/Output parameters of pack_wds_SLQSCreateProfile

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

pProfileName	• One or more bytes describing the profile
pProfilename-Size;	• This parameter is an input parameter and should be initialised to the size of pProfileName field. Size of this parameter is 2 bytes.
pPDPType	• Packet Data Protocol (PDP) type specifies the type of data payload exchanged over the air link when the packet data session is established with this profile – 0x00 - PDP-IP (IPv4) – 0x01 - PDP-PPP – 0x02 - PDP-IPV6 – 0x03 - PDP-IPV4V6
pPdpHdrComp-Type	• PDP header compression type – 0 - PDP header compression is OFF – 1 - Manufacturer preferred compression – 2 - PDP header compression based on RFC 1144 – 3 - PDP header compression based on RFC 25074 PDP header compression based on RFC 3095
pPdpDataComp-Type	• PDP data compression type – 0 - PDP data compression is OFF – 1 - Manufacturer preferred compression – 2 - V.42BIS data compression – 3 - V.44 data compression

pAPNName	• Access point name
pAPNnameSize;	• This parameter is an input parameter and should be initialised to the size of pAPNName field. Size of this parameter is 2 bytes.
pPriDNSIPv4-AddPref	• Primary DNS IPv4 Address Preference
pSecDNSIPv4-AddPref	• Secondary DNS IPv4 Address Preference
pUMTSReqQoS	• UMTS Requested QoS
pUMTSMinQoS	• UMTS Minimum QoS
pGPRS-RequestedQoS	• GPRS Minimum QoS
pUsername	• User name
pUsernameSize;	• This parameter is an input parameter and should be initialised to the size of pUsername field. Size of this parameter is 2 bytes.
pPassword	• Password
pPasswordSize;	• This parameter is an input parameter and should be initialised to the size of pPassword field. Size of this parameter is 2 bytes.
pAuthentication-Pref	• Authentication Preference – Bit map that indicates the authentication algorithm preference * Bit 0 - PAP preference · 0 - PAP is never performed · 1 - PAP may be performed * Bit 1 - CHAP preference · 0 - CHAP is never performed · 1 - CHAP may be performed * If more than one bit is set, then the device decides which authentication procedure is performed while setting up the data session. For example, the device may have a policy to select the most secure authentication mechanism.
pIPv4AddrPref	• IPv4 Address Preference

pPcscfAddr-UsingPCO	• P-CSCF Address using PCO Flag – 1 - (TRUE) implies request PCSCF address using PCO – 0 - (FALSE) implies do not request By default, this value is 0
pPdpAccess-ConFlag	• PDP access control flag – 0 - PDP access control none – 1 - PDP access control reject – 2 - PDP access control permission
pPcscfAddr-UsingDhcp	• P-CSCF address using DHCP – 1 - (TRUE) implies Request PCSCF address using DHCP – 0 - (FALSE) implies do not request By default, value is 0
pImCnFlag	• IM CN flag – 1 - (TRUE) implies request IM CN flag for this profile – 0 - (FALSE) implies do not request IM CN flag for this profile
pTFTID1Params	• Traffic Flow Template
pTFTID2Params	• Traffic Flow Template
pPdpContext	• PDP context number
pSecondaryFlag	• PDP context secondary flag – 1 - (TRUE) implies this is secondary profile – 0 - (FALSE) implies this is not secondary profile
pPrimaryID	• PDP context primary ID • function SLQSGetProfileSettings() returns a default value 0xFF if this parameter is not returned by the device
pIPv6AddPref	• IPv6 address preference Preferred IPv6 address to be assigned to the TE; actual assigned address is negotiated with the network and may differ from this value; if not specified, the IPv6 address is obtained automatically from the network
pUMTSReqQoS-SigInd	• UMTS requested QoS with Signalling Indication flag
pUMTSMinQoS-SigInd	• UMTS minimum QoS with Signalling Indication flag

pPrimaryDNSIPv6addpref	• Primary DNS IPv6 address preference – The value may be used as a preference during negotiation with the network; if not specified, the wireless device will attempt to obtain the DNS address automatically from the network; the negotiated value is provided to the host via DHCP
pSecondaryDNSIPv6addpref	• Secondary DNS IPv6 address preference
paddrAllocationPref	• DHCP/NAS preference – This enumerated value may be used to indicate the address allocation preference * 0 - NAS signaling is used for address allocation * 1 - DHCP is used for address allocation
pQosClassID	• 3GPP LTE QoS parameters
pAPNDisabledFlag	• Optional 1 uint8_t Flag indicating if the APN is disabled/enabled • If set, the profile can not be used for making data calls • Any data call is failed locally • Values: – 0 - FALSE(default) – 1 - True • This parameter is currently read only and can be read by using the function SLQSGetProfileSettings().
pPDNInactivTimeout	• Optional 4 Bytes indicating the duration of inactivity timer in seconds • If the PDP context/PDN connection is inactive for this duration i.e. No data Tx/Rx occurs, the PDP context/PDN connection is disconnected • Default value of zero indicates infinite value • This parameter is currently read only and can be read by using the function SLQSGetProfileSettings().
pAPNClass	• Optional 1 uint8_t numeric identifier representing the APN in profile • Can be set and queried but is not used by the modem • This parameter is currently read only and can be read by using the function SLQSGetProfileSettings().
pSupportEmergencyCalls	• Optional 1 Byte Flag indicating if the emergency call support is disabled/enabled • If set, the profile can be used for making emergency calls • Values: – 0 - FALSE(default) – 1 - TRUE

8.328.2 Field Documentation

8.328.2.1 uint8_t* LibPackprofile_3GPP::pAddrAllocPref

8.328.2.2 uint8_t* LibPackprofile_3GPP::pAPNClass

8.328.2.3 uint8_t* LibPackprofile_3GPP::pAPNDisabledFlag

8.328.2.4 uint8_t* LibPackprofile_3GPP::pAPNName

8.328.2.5 uint16_t* LibPackprofile_3GPP::pAPNnameSize

8.328.2.6 uint8_t* LibPackprofile_3GPP::pAuthenticationPref

8.328.2.7 LibPackGPRSRequestedQoS* LibPackprofile_3GPP::pGPRSMinimumQoS

8.328.2.8 LibPackGPRSRequestedQoS* LibPackprofile_3GPP::pGPRSRequestedQos

8.328.2.9 uint8_t* LibPackprofile_3GPP::pImCnFlag

8.328.2.10 uint32_t* LibPackprofile_3GPP::pIPv4AddrPref

8.328.2.11 uint16_t* LibPackprofile_3GPP::pIPv6AddPref

8.328.2.12 uint8_t* LibPackprofile_3GPP::pPassword

8.328.2.13 uint16_t* LibPackprofile_3GPP::pPasswordSize

8.328.2.14 uint8_t* LibPackprofile_3GPP::pPcscfAddrUsingDhcp

8.328.2.15 uint8_t* LibPackprofile_3GPP::pPcscfAddrUsingPCO

8.328.2.16 uint32_t* LibPackprofile_3GPP::pPDNInactivTimeout

8.328.2.17 uint8_t* LibPackprofile_3GPP::pPdpAccessConFlag

8.328.2.18 uint8_t* LibPackprofile_3GPP::pPdpContext

8.328.2.19 uint8_t* LibPackprofile_3GPP::pPdpDataCompType

8.328.2.20 uint8_t* LibPackprofile_3GPP::pPdpHdrCompType

8.328.2.21 uint8_t* LibPackprofile_3GPP::pPDPtype

8.328.2.22 uint32_t* LibPackprofile_3GPP::pPriDNSIPv4AddPref

8.328.2.23 uint16_t* LibPackprofile_3GPP::pPriDNSIPv6addpref

8.328.2.24 uint8_t* LibPackprofile_3GPP::pPrimaryID

8.328.2.25 uint8_t* LibPackprofile_3GPP::pProfilename

8.328.2.26 uint16_t* LibPackprofile_3GPP::pProfilenameSize

8.328.2.27 LibPackQosClassID* LibPackprofile_3GPP::pQosClassID

8.328.2.28 uint32_t* LibPackprofile_3GPP::pSecDNSIPv4AddPref

8.328.2.29 uint16_t* LibPackprofile_3GPP::pSecDNSIPv6addpref

8.328.2.30 uint8_t* LibPackprofile_3GPP::pSecondaryFlag

8.328.2.31 uint8_t* LibPackprofile_3GPP::pSupportEmergencyCalls

8.328.2.32 LibPackTFTIDParams* LibPackprofile_3GPP::pTFTID1Params

8.328.2.33 LibPackTFTIDParams* LibPackprofile_3GPP::pTFTID2Params

8.328.2.34 LibPackUMTSQoS* LibPackprofile_3GPP::pUMTSMinQoS

8.328.2.35 LibPackUMTSReqQoSSigInd* LibPackprofile_3GPP::pUMTSMinQosSigInd

8.328.2.36 LibPackUMTSQoS* LibPackprofile_3GPP::pUMTSReqQoS

8.328.2.37 LibPackUMTSReqQoSSigInd* LibPackprofile_3GPP::pUMTSReqQoSSigInd

8.328.2.38 uint8_t* LibPackprofile_3GPP::pUsername

8.328.2.39 uint16_t* LibPackprofile_3GPP::pUsernameSize

8.329 LibPackprofile_3GPP2 Struct Reference

Data Fields

- uint8_t * pNegoDnsSrvrPref
- uint32_t * pPppSessCloseTimerDO
- uint32_t * pPppSessCloseTimer1x
- uint8_t * pAllowLinger
- uint16_t * pLcpAckTimeout
- uint16_t * pIpcpAckTimeout
- uint16_t * pAuthTimeout
- uint8_t * pLcpCreqRetryCount
- uint8_t * pIpcpCreqRetryCount
- uint8_t * pAuthRetryCount
- uint8_t * pAuthProtocol
- uint8_t * pUserId
- uint16_t * pUserIdSize
- uint8_t * pAuthPassword
- uint16_t * pAuthPassword_tSize
- uint8_t * pDataRate
- uint32_t * pAppType
- uint8_t * pDataMode
- uint8_t * pAppPriority
- uint8_t * pApnString
- uint16_t * pApnStringSize
- uint8_t * pPdnType
- uint8_t * pIsPcscfAddressNedded
- uint32_t * pPrimaryV4DnsAddress
- uint32_t * pSecondaryV4DnsAddress
- uint16_t * pPriV6DnsAddress
- uint16_t * pSecV6DnsAddress
- uint8_t * pRATType
- uint8_t * pAPNEnabled3GPP2
- uint32_t * pPDNInactivTimeout3GPP2
- uint8_t * pAPNClass3GPP2

8.329.1 Detailed Description

This structure contains the 3GPP2 profile parameters

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

pNegoDnsSrvr-Pref	• Negotiate DNS Server Preference – 1 - (TRUE)implies request DNS addresses from the PDSN – 0 - (FALSE)implies do not request DNS addresses from the PDSN – Default value is 1 (TRUE)
pPppSessClose-TimerDO	• PPP Session Close Timer for DO – Timer value (in seconds) on DO indicating how long the PPP Session should linger before closing down
pPppSessClose-Timer1x	• PPP Session Close Timer for 1X – Timer value (in seconds) on 1X indicating how long the PPP session should linger before closing down
pAllowLinger	• Allow/disallow lingering of interface – 1 -(TRUE) implies allow lingering – 0 -(FALSE) implies do not allow lingering
pLcpAckTimeout	• LCP ACK Timeout – Value of LCP ACK Timeout in milliseconds
pIpcpAck-Timeout	• IPCP ACK Timeout – Value of IPCP ACK Timeout in milliseconds
pAuthTimeout	• AUTH Timeout – Value of Authentication Timeout in milliseconds
pLcpCreqRetry-Count	• LCP Configuration Request Retry Count
pIpcpCreqRetry-Count	• IPCP Configuration Request Retry Count
pAuthRetry-Count	• Authentication Retry Count value

pAuthProtocol	• Authentication Protocol – 1 - PAP – 2 - CHAP – 3 - PAP or CHAP
pUserId	• User ID to be used during data network authentication • maximum length allowed is 127 bytes; • QMI_ERR_ARG_TOO_LONG will be returned if the storage on the wireless device is insufficient in size to hold the value.
pUserIdSize;	• This parameter is an input parameter and should be initialised to the size of pUserId field. Size of this parameter is 2 bytes.
pAuthPassword	• Password to be used during data network authentication; • maximum length allowed is 127 bytes • QMI_ERR_ARG_TOO_LONG will be returned if the storage on the wireless device is insufficient in size to hold the value.
pAuthPassword-Size;	• This parameter is an input parameter and should be initialised to the size of pAuthPassword field. Size of this parameter is 2 bytes.
pDataRate	• Data Rate Requested – 0 - Low (Low speed Service Options (SO15) only) – 1 - Medium (SO33 + low R-SCH) – 2 - High (SO33 + high R-SCH) – Default is 2
pAppType	• Application Type: – 0x00000001 - Default Application Type – 0x00000020 - LBS Application Type – 0x00000040 - Tethered Application Type – This parameter is not used while creating/modifying a profile
pDataMode	• Data Mode to use: – 0 - CDMA or HDR (Hybrid 1X/1xEV-DO) – 1 - CDMA Only (1X only) – 2 - HDR Only (1xEV-DO only) – Default is 0

pAppPriority	• Application Priority – Numerical 1 uint8_t value defining the application priority; higher value implies higher priority – This parameter is not used while creating/modifying a profile
pApnString	• String representing the Access Point Name • maximum length allowed is 100 bytes • QMI_ERR_ARG_TOO_LONG will be returned if the APN name is too long.
pApnStringSize;	• This parameter is an input parameter and should be initialised to the size of pApnString field. Size of this parameter is 2 bytes.
pPdnType	• Packed Data Network Type Requested: – 0 - IPv4 PDN Type – 1 - IPv6 PDN Type – 2 - IPv4 or IPv6 PDN Type – 3 - Unspecified PDN Type (implying no preference)
pIsPcscf-AddressNedded	• This boolean value is used to control if PCSCF address is requested from PDSN – 1 -(TRUE) implies request for PCSCF value from the PDSN – 0 -(FALSE) implies do not request for PCSCF value from the PDSN
pPrimaryV4Dns-Address	• IPv4 Primary DNS address – The Primary IPv4 DNS address that can be statically assigned to the UE
pSecondaryV4-DnsAddress	• IPv4 Secondary DNS address – The Secondary IPv4 DNS address that can be statically assigned to the UE
pPriV6Dns-Address	• Primary IPv6 DNS address – The Primary IPv6 DNS address that can be statically assigned to the UE
pSecV6Dns-Address	• Secondary IPv6 DNS address – The Secondary IPv6 DNS address that can be statically assigned to the UE
pRATType	• Optional 1 uint8_t Flag indicating RAT Type • Values: – 1 - HRPD – 2 - EHRPD – 3 - HRPD_EHRPD • This parameter is currently read only and can be read by using the function SLQSGetProfile-Settings().

pAPNEnabled3-GPP2	• Optional 1 uint8_t Flag indicating if the APN is disabled/enabled • If disabled, the profile can not be used for making data calls • Values: – 0 - Disabled – 1 - Enabled(default value) • This parameter is currently read only and can be read by using the function SLQSGetProfile-Settings().
pPDNInactiv-Timeout3GPP2	• Optional 4 Bytes indicating the duration of inactivity timer in seconds • If the PDP context/PDN connection is inactive for this duration i.e. No data Tx/Rx occurs, the PDP context/PDN connection is disconnected • Default value of zero indicates infinite value • This parameter is currently read only and can be read by using the function SLQSGetProfile-Settings().
pAPNClass3GP-P2	• Optional 1 uint8_t numeric identifier representing the APN in profile • Can be set and queried but is not used by the modem • This parameter is currently read only and can be read by using the function SLQSGetProfile-Settings().

8.329.2 Field Documentation

8.329.2.1 uint8_t* LibPackprofile_3GPP2::pAllowLinger

8.329.2.2 uint8_t* LibPackprofile_3GPP2::pAPNClass3GPP2

8.329.2.3 uint8_t* LibPackprofile_3GPP2::pAPNEnabled3GPP2

8.329.2.4 uint8_t* LibPackprofile_3GPP2::pApnString

8.329.2.5 uint16_t* LibPackprofile_3GPP2::pApnStringSize

8.329.2.6 uint8_t* LibPackprofile_3GPP2::pAppPriority

8.329.2.7 uint32_t* LibPackprofile_3GPP2::pAppType

8.329.2.8 uint8_t* LibPackprofile_3GPP2::pAuthPassword

8.329.2.9 uint16_t* LibPackprofile_3GPP2::pAuthPassword_tSize

8.329.2.10 uint8_t* LibPackprofile_3GPP2::pAuthProtocol

8.329.2.11 uint8_t* LibPackprofile_3GPP2::pAuthRetryCount

8.329.2.12 uint16_t* LibPackprofile_3GPP2::pAuthTimeout

8.329.2.13 uint8_t* LibPackprofile_3GPP2::pDataMode

8.329.2.14 uint8_t* LibPackprofile_3GPP2::pDataRate

8.329.2.15 uint16_t* LibPackprofile_3GPP2::pIpcpAckTimeout

8.329.2.16 uint8_t* LibPackprofile_3GPP2::pIpcpCreqRetryCount

8.329.2.17 uint8_t* LibPackprofile_3GPP2::pIsPcscfAddressNedded

8.329.2.18 uint16_t* LibPackprofile_3GPP2::pLcpAckTimeout

8.329.2.19 uint8_t* LibPackprofile_3GPP2::pLcpCreqRetryCount

8.329.2.20 uint8_t* LibPackprofile_3GPP2::pNegoDnsSrvrPref

8.329.2.21 uint32_t* LibPackprofile_3GPP2::pPDNInactivTimeout3GPP2

8.329.2.22 uint8_t* LibPackprofile_3GPP2::pPdnType

8.329.2.23 uint32_t* LibPackprofile_3GPP2::pPppSessCloseTimer1x

8.329.2.24 uint32_t* LibPackprofile_3GPP2::pPppSessCloseTimerDO

8.329.2.25 uint32_t* LibPackprofile_3GPP2::pPrimaryV4DnsAddress

8.329.2.26 uint16_t* LibPackprofile_3GPP2::pPriV6DnsAddress

8.329.2.27 uint8_t* LibPackprofile_3GPP2::pRATType

8.329.2.28 uint32_t* LibPackprofile_3GPP2::pSecondaryV4DnsAddress

8.329.2.29 uint16_t* LibPackprofile_3GPP2::pSecV6DnsAddress

8.329.2.30 uint8_t* LibPackprofile_3GPP2::pUserId

8.329.2.31 uint16_t* LibPackprofile_3GPP2::pUserIdSize

8.330 LibPackQosClassID Struct Reference

Data Fields

- uint8_t QCI
- uint8_t gDlBitRate
- uint32_t maxDlBitRate
- uint32_t gUlBitRate
- uint32_t maxUlBitRate

8.330.1 Detailed Description

This structure contains 3GPP LTE QoS parameters

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

QCI	• QOS specified using the QOS Class Identifier (QOS) values QCI value 0 - Requests the network to assign the appropriate QCI value QCI values 1-4 - Associated with guaranteed bit rates QCI values 5-9 - Associated with non-guaranteed bit rates
gDlBitRate	• Guaranteed DL bit rate
maxDlBitRate	• Maximum DL bit rate
gUlBitRate	• Guaranteed UL bit rate
maxUlBitRate	• Maximum UL bit rate

8.330.2 Field Documentation

8.330.2.1 uint8_t LibPackQosClassID::gDlBitRate

8.330.2.2 uint32_t LibPackQosClassID::gUlBitRate

8.330.2.3 uint32_t LibPackQosClassID::maxDlBitRate

8.330.2.4 uint32_t LibPackQosClassID::maxUlBitRate

8.330.2.5 uint8_t LibPackQosClassID::QCI

8.331 LibPackTFTIDParams Struct Reference

Data Fields

- uint8_t filterId
- uint8_t eValid
- uint8_t ipVersion
- uint16_t * pSourceIP
- uint8_t sourceIPMask
- uint8_t nextHeader
- uint32_t destPortRangeStart
- uint16_t destPortRangeEnd
- uint16_t srcPortRangeStart
- uint16_t srcPortRangeEnd
- uint32_t IPSECSPI
- uint16_t tosMask
- uint32_t flowLabel

8.331.1 Detailed Description

This structure contains traffic flow template parameters

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

filterId	• Filter identifier
eValid	• Evaluation precedence index
ipVersion	• IP version number – 4 - IPv4 – 6 - IPv6
pSourceIP	• Source IP address – IPv4 - Fill the first 4 uint8_ts – IPv6 - Fill all the 16 uint8_ts
sourceIPMask	• Mask value for the source address
nextHeader	• Next header/protocol value
destPortRange-Start	• Start value of the destination port range
destPortRange-End	• End value of the destination port range
srcPortRange-Start	• Start value of the source port range
srcPortRange-End	• End value of the source port range
IPSECSPI	• IPSEC security parameter index
tosMask	• TOS mask (Traffic class for IPv6)
flowLabel	• Flow label

8.331.2 Field Documentation

8.331.2.1 uint16_t LibPackTFTIDParams::destPortRangeEnd

8.331.2.2 uint32_t LibPackTFTIDParams::destPortRangeStart

8.331.2.3 uint8_t LibPackTFTIDParams::eValid

8.331.2.4 uint8_t LibPackTFTIDParams::filterId

8.331.2.5 uint32_t LibPackTFTIDParams::flowLabel

8.331.2.6 uint32_t LibPackTFTIDParams::IPSECSPI

8.331.2.7 uint8_t LibPackTFTIDParams::ipVersion

8.331.2.8 uint8_t LibPackTFTIDParams::nextHeader

8.331.2.9 uint16_t* LibPackTFTIDParams::pSourceIP

8.331.2.10 uint8_t LibPackTFTIDParams::sourceIPMask

8.331.2.11 uint16_t LibPackTFTIDParams::srcPortRangeEnd

8.331.2.12 uint16_t LibPackTFTIDParams::srcPortRangeStart

8.331.2.13 uint16_t LibPackTFTIDParams::tosMask

8.332 LibPackUMTSQoS Struct Reference

Data Fields

- uint8_t trafficClass
- uint32_t maxUplinkBitrate
- uint32_t maxDownlinkBitrate
- uint32_t grntUplinkBitrate
- uint32_t grntDownlinkBitrate
- uint8_t qosDeliveryOrder
- uint32_t maxSDUSize
- uint8_t sduErrorRatio
- uint8_t resBerRatio
- uint8_t deliveryErrSDU
- uint32_t transferDelay
- uint32_t trafficPriority

8.332.1 Detailed Description

This structure contains the UMTS Quality Of Service Information

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

trafficClass	• 0x00 - Subscribed • 0x01 - Conversational • 0x02 - Streaming • 0x03 - Interactive • 0x04 - Background • 0xff - Invalid UMTS Quality Of Service Information.

maxUplinkBitrate	• Maximum uplink bit rate in bits/sec
maxDownlink-Bitrate	• Maximum downlink bit rate in bits/sec
grntUplinkBitrate	• Guaranteed uplink bit rate in bits/sec
grntDownlink-Bitrate	• Guranteed downlink bit rate in bits/sec
qosDelivery-Order	- Qos delivery order • 0x00 - Subscribe • 0x01 - delivery order on • 0x02 - delivery order off
maxSDUSize	• Maximum SDU size
sduErrorRatio	- SDU error ratio • Target value for fraction of SDUs lost or detected as erroneous. • 0x00 - Subscribe • 0x01 - 1∗10^(-2) • 0x02 - 7∗10^(-3) • 0x03 - 1∗10^(-3) • 0x04 - 1∗10^(-4) • 0x05 - 1∗10^(-5) • 0x06 - 1∗10^(-6) • 0x07 - 1∗10^(-1)
resBerRatio	- Residual bit error ratio • Target value for undetected bit error ratio in in the delivered SDUs. • 0x00 - Subscribe • 0x01 - 5∗10^(-2) • 0x02 - 1∗10^(-2) • 0x03 - 5∗10^(-3) • 0x04 - 4∗10^(-3) • 0x05 - 1∗10^(-3) • 0x06 - 1∗10^(-4) • 0x07 - 1∗10^(-5) • 0x08 - 1∗10^(-6) • 0x09 - 1∗10^(-8)

deliveryErrSDU	- Delivery of erroneous SDUs • Indicates whether SDUs detected as erroneous shall be delivered or not. • 0x00 - Subscribe • 0x01 - 5∗10^(-2) • 0x02 - 1∗10^(-2) • 0x03 - 5∗10^(-3) • 0x04 - 4∗10^(-3) • 0x05 - 1∗10^(-3) • 0x06 - 1∗10^(-4) • 0x07 - 1∗10^(-5) • 0x08 - 1∗10^(-6) • 0x09 - 1∗10^(-8)
transferDelay	- Transfer delay (ms) • Indicates the targeted time between a request to transfer an SDU at one SAP to its delivery at the other SAP in milliseconds.
trafficPriority	- Transfer handling priority • Specifies the relative importance for handling of SDUs that belong to the UMTS bearer, compared to the SDUs of other bearers.

Note

Check trafficClass before use.

8.332.2 Field Documentation

8.332.2.1 uint8_t LibPackUMTSQoS::deliveryErrSDU

8.332.2.2 uint32_t LibPackUMTSQoS::grntDownlinkBitrate

8.332.2.3 uint32_t LibPackUMTSQoS::grntUplinkBitrate

8.332.2.4 uint32_t LibPackUMTSQoS::maxDownlinkBitrate

8.332.2.5 uint32_t LibPackUMTSQoS::maxSDUSize

8.332.2.6 uint32_t LibPackUMTSQoS::maxUplinkBitrate

8.332.2.7 uint8_t LibPackUMTSQoS::qosDeliveryOrder

8.332.2.8 uint8_t LibPackUMTSQoS::resBerRatio

8.332.2.9 uint8_t LibPackUMTSQoS::sduErrorRatio

8.332.2.10 uint8_t LibPackUMTSQoS::trafficClass

8.332.2.11 uint32_t LibPackUMTSQoS::trafficPriority

8.332.2.12 uint32_t LibPackUMTSQoS::transferDelay

8.333 LibPackUMTSReqQoSSigInd Struct Reference

Data Fields

- LibPackUMTSQoS UMTSReqQoS
- uint8_t SigInd

8.333.1 Detailed Description

This structure contains UMTS requested QoS with Signaling Indication flag

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

UMTSReqQoS	• Contains the UMTS Quality Of Service Information • See LibPackUMTSQoS
SigInd	- Signaling Indication flag • TRUE - Signaling indication ON • FALSE - Signaling indication OFF

8.333.2 Field Documentation

8.333.2.1 uint8_t LibPackUMTSReqQoSSigInd::SigInd

8.333.2.2 LibPackUMTSQoS LibPackUMTSReqQoSSigInd::UMTSReqQoS

8.334 lineCtrlInfo Struct Reference

Data Fields

- BYTE polarityIncluded
- BYTE toggleMode
- BYTE revPolarity
- BYTE pwrDenialTime

8.334.1 Detailed Description

This structure contains Line Control Information

Parameters

polarityIncluded	• Included Polarity; Boolean Value
toggleMode	• Toggle mode; Boolean Value

revPolarity	• Reverse Polarity; Boolean Value
pwrDenialTime	• Power denial time; refer to [S1, Section 3.7.5.15 Line Control] for valid values

8.334.2 Field Documentation

8.334.2.1 BYTE lineCtrlInfo::polarityIncluded

8.334.2.2 BYTE lineCtrlInfo::pwrDenialTime

8.334.2.3 BYTE lineCtrlInfo::revPolarity

8.334.2.4 BYTE lineCtrlInfo::toggleMode

8.335 loc_accelAcceptReady Struct Reference

Data Fields

- uint8_t injectEnable
- uint16_t samplesPerBatch
- uint16_t batchPerSec

8.335.1 Detailed Description

This structure contains Accelerometer Accept Ready Info

Parameters

injectEnable	• GNSS location engine is ready to accept data from sensor. • Values • 0x01 - Ready to accept sensor data • 0x00 - Not ready to accept sensor data
samplesPer-Batch	• number of samples per batch the GNSS location engine is to receive. • samplingFrequency = samplesPerBatch ∗ batchesPerSecond • samplesPerBatch must be a nonzero positive value.
batchPerSec	• LTE NAS version minor • Number of sensor-data batches the GNSS location engine is to receive per second. • BatchesPerSecond must be a nonzero positive value.

8.335.2 Field Documentation

8.335.2.1 uint16_t loc_accelAcceptReady::batchPerSec

8.335.2.2 uint8_t loc_accelAcceptReady::injectEnable

8.335.2.3 uint16_t loc_accelAcceptReady::samplesPerBatch

8.336 loc_accelTempAcceptReady Struct Reference

Data Fields

- uint8_t injectEnable
- uint16_t samplesPerBatch
- uint16_t batchPerSec

8.336.1 Detailed Description

This structure contains Accelerometer Temperature Accept Ready Info

Parameters

injectEnable	• GNSS location engine is ready to accept data from sensor. • Values • 0x01 - Ready to accept sensor data • 0x00 - Not ready to accept sensor data
samplesPer-Batch	• number of samples per batch the GNSS location engine is to receive. • samplingFrequency = samplesPerBatch ∗ batchesPerSecond • samplesPerBatch must be a nonzero positive value.
batchPerSec	• LTE NAS version minor • Number of sensor-data batches the GNSS location engine is to receive per second. • BatchesPerSecond must be a nonzero positive value.

8.336.2 Field Documentation

8.336.2.1 uint16_t loc_accelTempAcceptReady::batchPerSec

8.336.2.2 uint8_t loc_accelTempAcceptReady::injectEnable

8.336.2.3 uint16_t loc_accelTempAcceptReady::samplesPerBatch

8.337 loc_BdsSV Struct Reference

Data Fields

- uint16_t id
- uint8_t mask

8.337.1 Detailed Description

This structure contains the BDS SV Info

Parameters

id	• SV ID of the satellite whose data is to be deleted. – Range for BDS: 201 to 237
mask	• Indicates if the ephemeris or almanac for a satellite is to be deleted • Valid values: – QMI_LOC_MASK_DELETE_EPHEMERIS (0x01) - Delete ephemeris for the satellite – QMI_LOC_MASK_DELETE_ALMANAC (0x02) - Delete almanac for the satellite

8.337.2 Field Documentation

8.337.2.1 uint16_t loc_BdsSV::id

8.337.2.2 uint8_t loc_BdsSV::mask

8.338 loc_BdsSVInfo Struct Reference

Data Fields

- uint8_t len
- loc_BdsSV * pSV

8.338.1 Detailed Description

This structure contains the number of sets of the BDS SVN Info

Parameters

len	• Number of sets of the following elements: – gnssSvId – deleteSvInfoMask
pSV	• Pointer to struct loc_BdsSV. See loc_BdsSV for more information

8.338.2 Field Documentation

8.338.2.1 uint8_t loc_BdsSVInfo::len

8.338.2.2 loc_BdsSV* loc_BdsSVInfo::pSV

8.339 loc_CellDb Struct Reference

Data Fields

- uint32_t mask

8.339.1 Detailed Description

This structure contains the cell database

Parameters

mask	• Mask for the cell database assistance data that is to be deleted • Valid values: – 0x00000001 - DELETE_CELLDB_POS – 0x00000002 - DELETE_CELLDB_LATEST_GPS_POS – 0x00000004 - DELETE_CELLDB_OTA_POS – 0x00000008 - DELETE_CELLDB_EXT_REF_POS – 0x00000010 - DELETE_CELLDB_TIMETAG – 0x00000020 - DELETE_CELLDB_CELLID – 0x00000040 - DELETE_CELLDB_CACHED_CELLID – 0x00000080 - DELETE_CELLDB_LAST_SRV_CELL – 0x00000100 - DELETE_CELLDB_CUR_SRV_CELL – 0x00000200 - DELETE_CELLDB_NEIGHBOR_INFO

8.339.2 Field Documentation

8.339.2.1 uint32_t loc_CellDb::mask

8.340 loc_ClkInfo Struct Reference

Data Fields

- uint32_t mask

8.340.1 Detailed Description

This structure contains the clock Info

Parameters

mask	• Mask for the clock information assistance data that is to be deleted • Valid bitmasks: – QMI_LOC_MASK_DELETE_CLOCK_INFO_TIME_EST (0x00000001) - Mask to delete time estimate from clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_FREQ_EST (0x00000002) - Mask to delete frequency estimate from clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_WEEK_NUMBER (0x00000004) - Mask to delete week number from clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_RTC_TIME (0x00000008) - Mask to delete RTC time from clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_TIME_TRANSFER (0x00000010) - Mask to delete time transfer from clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_GPSTIME_EST (0x00000020) - Mask to delete GPS time estimate from clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_GLOTIME_EST (0x00000040) - Mask to delete GLONASS time estimate from clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_GLODAY_NUMBER (0x00000080) - Mask to delete GLONASS day number from clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_GLO4YEAR_NUMBER (0x00000100) - Mask to delete GLONASS four year number from clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_GLO_RF_GRP_DELAY (0x00000200) - Mask to delete GLONASS RF GRP delay from clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_DISABLE_TT (0x00000400) - Mask to delete disable TT from clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_GG_LEAPSEC (0x00000800) - Mask to delete a BDS time estimate from the clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_GG_GGTB (0x00001000) - Mask to delete a BDS time estimate from the clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_BDSTIME_EST (0x00002000) - Mask to delete a BDS time estimate from the clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_GB_GBTB (0x00004000) - Mask to delete Glonass-to-BDS time bias-related information from the clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_BG_BGTB (0x00008000) - Mask to delete BDS-to-GLONASS time bias-related information from the clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_BDSWEEK_NUMBER (0x00010000) - Mask to delete the BDS week number from the clock information – QMI_LOC_MASK_DELETE_CLOCK_INFO_BDS_RF_GRP_DELAY (0x00020000) - Mask to delete the BDS RF GRP delay from the clock information

8.340.2 Field Documentation

8.340.2.1 uint32_t loc_ClkInfo::mask

8.341 loc_GnssData Struct Reference

Data Fields

- uint64_t mask

8.341.1 Detailed Description

This structure contains the GNSS data

Parameters

mask	• Mask for the GNSS data that is to be deleted • Valid values: – QMI_LOC_MASK_DELETE_GPS_SVDIR (0x00000001) - Mask to delete GPS SVDIR – QMI_LOC_MASK_DELETE_GPS_SVSTEER (0x00000002) - Mask to delete GPS SVSTEER – QMI_LOC_MASK_DELETE_GPS_TIME (0x00000004) - Mask to delete GPS time – QMI_LOC_MASK_DELETE_GPS_ALM_CORR (0x00000008) - Mask to delete almanac correlation – QMI_LOC_MASK_DELETE_GLO_SVDIR (0x00000010) - Mask to delete GLONASS SVDIR – QMI_LOC_MASK_DELETE_GLO_SVSTEER (0x00000020) - Mask to delete GLONASS SVSTEER – QMI_LOC_MASK_DELETE_GLO_TIME (0x00000040) - Mask to delete GLONASS time – QMI_LOC_MASK_DELETE_GLO_ALM_CORR (0x00000080) - Mask to delete GLONASS almanac correlation – QMI_LOC_MASK_DELETE_SBAS_SVDIR (0x00000100) - Mask to delete SBAS SVDIR – QMI_LOC_MASK_DELETE_SBAS_SVSTEER (0x00000200) - Mask to delete SBAS SVSTEER – QMI_LOC_MASK_DELETE_POSITION (0x00000400) - Mask to delete position estimate – QMI_LOC_MASK_DELETE_TIME (0x00000800) - Mask to delete time estimate – QMI_LOC_MASK_DELETE_IONO (0x00001000) - Mask to delete IONO – QMI_LOC_MASK_DELETE_UTC (0x00002000) - Mask to delete UTC estimate – QMI_LOC_MASK_DELETE_HEALTH (0x00004000) - Mask to delete SV health record – QMI_LOC_MASK_DELETE_SADATA (0x00008000) - Mask to delete SADATA – QMI_LOC_MASK_DELETE_RTI (0x00010000) - Mask to delete RTI – QMI_LOC_MASK_DELETE_SV_NO_EXIST (0x00020000) - Mask to delete SV_NO_EXIST – QMI_LOC_MASK_DELETE_FREQ_BIAS_EST (0x00040000) - Mask to delete frequency bias estimate – QMI_LOC_MASK_DELETE_BDS_SVDIR (0x00080000) - Mask to delete BDS SVDIR – QMI_LOC_MASK_DELETE_BDS_SVSTEER (0x00100000) - Mask to delete BDS SVSTEER – QMI_LOC_MASK_DELETE_BDS_TIME (0x00200000) - Mask to delete BDS time – QMI_LOC_MASK_DELETE_BDS_ALM_CORR (0x00400000) - Mask to delete BDS almanac correlation – QMI_LOC_MASK_DELETE_GNSS_SV_BLACKLIST_GPS (0x00800000) - Mask to delete GNSS SV blacklist GPS – QMI_LOC_MASK_DELETE_GNSS_SV_BLACKLIST_GLO (0x01000000) - Mask to delete GNSS SV blacklist GLO – QMI_LOC_MASK_DELETE_GNSS_SV_BLACKLIST_BDS (0x02000000) - Mask to delete GNSS SV blacklist BDS

8.341.2 Field Documentation

8.341.2.1 uint64_t loc_GnssData::mask

8.342 loc_gpsTime Struct Reference

Data Fields

- uint16_t gpsWeek
- uint32_t gpsTimeOfWeekMs

8.342.1 Detailed Description

This structure contains GPS Time info.

Parameters

gpsWeek	• Current GPS week as calculated from midnight, Jan. 6, 1980. • Units - Weeks
gpsTimeOf-WeekMs	• Amount of time into the current GPS week. • Units - Milliseconds

8.342.2 Field Documentation

8.342.2.1 uint32_t loc_gpsTime::gpsTimeOfWeekMs

8.342.2.2 uint16_t loc_gpsTime::gpsWeek

8.343 loc_gyroAcceptReady Struct Reference

Data Fields

- uint8_t injectEnable
- uint16_t samplesPerBatch
- uint16_t batchPerSec

8.343.1 Detailed Description

This structure contains Gyroscope Accept Ready Info

Parameters

injectEnable	• GNSS location engine is ready to accept data from sensor. • Values • 0x01 - Ready to accept sensor data • 0x00 - Not ready to accept sensor data

samplesPer-Batch	• number of samples per batch the GNSS location engine is to receive. • samplingFrequency = samplesPerBatch ∗ batchesPerSecond • samplesPerBatch must be a nonzero positive value.
batchPerSec	• LTE NAS version minor • Number of sensor-data batches the GNSS location engine is to receive per second. • BatchesPerSecond must be a nonzero positive value.

8.343.2 Field Documentation

8.343.2.1 uint16_t loc_gyroAcceptReady::batchPerSec

8.343.2.2 uint8_t loc_gyroAcceptReady::injectEnable

8.343.2.3 uint16_t loc_gyroAcceptReady::samplesPerBatch

8.344 loc_gyroTempAcceptReady Struct Reference

Data Fields

- uint8_t injectEnable
- uint16_t samplesPerBatch
- uint16_t batchPerSec

8.344.1 Detailed Description

This structure contains Gyroscope Temperature Accept Ready Info

Parameters

injectEnable	• GNSS location engine is ready to accept data from sensor. • Values • 0x01 - Ready to accept sensor data • 0x00 - Not ready to accept sensor data
samplesPer-Batch	• number of samples per batch the GNSS location engine is to receive. • samplingFrequency = samplesPerBatch ∗ batchesPerSecond • samplesPerBatch must be a nonzero positive value.
batchPerSec	• LTE NAS version minor • Number of sensor-data batches the GNSS location engine is to receive per second. • BatchesPerSecond must be a nonzero positive value.

8.344.2 Field Documentation

8.344.2.1 uint16_t loc_gyroTempAcceptReady::batchPerSec

8.344.2.2 uint8_t loc_gyroTempAcceptReady::injectEnable

8.344.2.3 uint16_t loc_gyroTempAcceptReady::samplesPerBatch

8.345 loc_IPv4Config Struct Reference

Data Fields

- uint32_t IPv4Addr
- uint16_t IPv4Port

8.345.1 Detailed Description

This structure specifies information regarding the IPv4 address and port.

Parameters

IPv4Addr	• IPv4 address.
IPv4Port	• IPv4 port.

8.345.2 Field Documentation

8.345.2.1 uint32_t loc_IPv4Config::IPv4Addr

8.345.2.2 uint16_t loc_IPv4Config::IPv4Port

8.346 loc_IPv4Info Struct Reference

Data Fields

- uint32_t address
- uint16_t port
- uint8_t TlvPresent

8.346.1 Detailed Description

This structure contains LOC Server IPV4 info field.

Parameters

address	• IPv4 address.
port	• IPv4 port.

TlvPresent	• Tlv Present or not

8.346.2 Field Documentation

8.346.2.1 uint32_t loc_IPv4Info::address

8.346.2.2 uint16_t loc_IPv4Info::port

8.346.2.3 uint8_t loc_IPv4Info::TlvPresent

8.347 loc_IPv6Config Struct Reference

Data Fields

- uint16_t IPv6Addr [8]
- uint32_t IPv6Port

8.347.1 Detailed Description

This structure specifies information regarding the IPv6 address and port.

Parameters

IPv6Addr	• IPv6 address. • Type - Array of unsigned integers • Maximum length of the array: 8
IPv6Port	• IPv6 port.

8.347.2 Field Documentation

8.347.2.1 uint16_t loc_IPv6Config::IPv6Addr[8]

8.347.2.2 uint32_t loc_IPv6Config::IPv6Port

8.348 loc_IPv6Info Struct Reference

Data Fields

- uint16_t address [8]
- uint32_t port
- uint8_t TlvPresent

8.348.1 Detailed Description

This structure contains LOC Get Server IPV6 info field.

Parameters

address	• IPv6 address. • Type - Array of unsigned integers • Maximum length of the array - 8
port	• IPv6 port.
TlvPresent	• Tlv Present or not

8.348.2 Field Documentation

8.348.2.1 uint16_t loc_IPv6Info::address[8]

8.348.2.2 uint32_t loc_IPv6Info::port

8.348.2.3 uint8_t loc_IPv6Info::TlvPresent

8.349 loc_LocApplicationInfo Struct Reference

Data Fields

- uint8_t appProviderLength
- uint8_t * pAppProvider
- uint8_t appNameLength
- uint8_t * pAppName
- uint8_t appVersionValid
- uint8_t appVersionLength
- uint8_t * pAppVersion

8.349.1 Detailed Description

This structure contains the Application Information

Parameters

appProvider-Length	• Length of the Application Provider
pAppProvider	• Application Provider • Depends upon the Length of application Provider
appNameLength	• Length of Application Name
pAppName	• Application Name • Depends upon the Length of application Name

appVersionValid	• Specifies whether the application version string contains a valid value • 0x00 (FALSE) Application version string is invalid • 0x01 (TRUE) Application version string is valid
appVersion-Length	• Length of Application Version
pAppVersion	• Application Version • Depends upon the Length of application Version

8.349.2 Field Documentation

8.349.2.1 uint8_t loc_LocApplicationInfo::appNameLength

8.349.2.2 uint8_t loc_LocApplicationInfo::appProviderLength

8.349.2.3 uint8_t loc_LocApplicationInfo::appVersionLength

8.349.2.4 uint8_t loc_LocApplicationInfo::appVersionValid

8.349.2.5 uint8_t* loc_LocApplicationInfo::pAppName

8.349.2.6 uint8_t* loc_LocApplicationInfo::pAppProvider

8.349.2.7 uint8_t* loc_LocApplicationInfo::pAppVersion

8.350 loc_precisionDilution Struct Reference

Data Fields

- uint32_t PDOP
- uint32_t HDOP
- uint32_t VDOP

8.350.1 Detailed Description

This structure contains Dilution of precision associated with this position.

Parameters

PDOP	• Position dilution of precision. • Range - 1 (highest accuracy) to 50 (lowest accuracy) • PDOP = square root of (Square of HDOP + Square of VDOP2)
HDOP	• Horizontal dilution of precision. • Range - 1 (highest accuracy) to 50 (lowest accuracy)

VDOP	• Vertical dilution of precision. • Range- 1 (highest accuracy) to 50 (lowest accuracy)

8.350.2 Field Documentation

8.350.2.1 uint32_t loc_precisionDilution::HDOP

8.350.2.2 uint32_t loc_precisionDilution::PDOP

8.350.2.3 uint32_t loc_precisionDilution::VDOP

8.351 loc_satelliteInfo Struct Reference

Data Fields

- uint8_t svListLen
- uint32_t validMask
- uint32_t system
- uint16_t gnssSvId
- uint8_t healthStatus
- uint32_t svStatus
- uint8_t svInfoMask
- float elevation
- float azimuth
- float snr

8.351.1 Detailed Description

Contain fields in struct loc_satelliteInfo

Parameters

svListLen	• number of sets of the following elements: – validMask – system – gnssSvid – healthStatus – svStatus – svInfoMask – elevation – azimuth – snr

validMask	• Bitmask indicating which of the fields in this TLV are valid. Valid bitmasks: – 0x00000001 - VALID_SYSTEM – 0x00000002 - VALID_GNSS_SVID – 0x00000004 - VALID_HEALTH_STATUS – 0x00000008 - VALID_PROCESS_STATUS – 0x00000010 - VALID_SVINFO_MASK – 0x00000020 - VALID_ELEVATION – 0x00000040 - VALID_AZIMUTH – 0x00000080 - VALID_SNR
system	• Indicates to which constellation this SV belongs. Valid values: – eQMI_LOC_SV_SYSTEM_GPS (1) - GPS satellite – eQMI_LOC_SV_SYSTEM_GALILEO (2) - GALILEO satellite – eQMI_LOC_SV_SYSTEM_SBAS (3) - SBAS satellite – eQMI_LOC_SV_SYSTEM_COMPASS (4) - COMPASS satellite – eQMI_LOC_SV_SYSTEM_GLONASS (5) - GLONASS satellite – eQMI_LOC_SV_SYSTEM_BDS (6) - BDS satellite
gnssSvId	• GNSS SV ID. The GPS and GLONASS SVs can be disambiguated using the system field. Range: – FOR GPS: 1 to 32 – FOR GLONASS: 1 to 32 – FOR SBAS: 120 to 151 – for BDS: 201 to 237
healthStatus	• health status. Range: 0 - 1 – 0 - unhealthy – 1 - healthy
svStatus	• SV process status. Valid values: – eQMI_LOC_SV_STATUS_IDLE (1) - SV is not being actively processed – eQMI_LOC_SV_STATUS_SEARCH (2) - The system is searching for this SV – eQMI_LOC_SV_STATUS_TRACK (3) - SV is being tracked
svInfoMask	• Indicates whether almanac and ephemeris information is available. Valid bitmasks: – 0x01 - SVINFO_HAS_EPHEMERIS – 0x02 - SVINFO_HAS_ALMANAC
elevation	• SV elevation angle. – Units: Degrees – Range: 0 to 90

azimuth	• SV azimuth angle. – Units: Degrees – Range: 0 to 360
snr	• SV signal-to-noise ratio – Units: dB-Hz

8.351.2 Field Documentation

8.351.2.1 float loc_satelliteInfo::azimuth

8.351.2.2 float loc_satelliteInfo::elevation

8.351.2.3 uint16_t loc_satelliteInfo::gnssSvId

8.351.2.4 uint8_t loc_satelliteInfo::healthStatus

8.351.2.5 float loc_satelliteInfo::snr

8.351.2.6 uint8_t loc_satelliteInfo::svInfoMask

8.351.2.7 uint8_t loc_satelliteInfo::svListLen

8.351.2.8 uint32_t loc_satelliteInfo::svStatus

8.351.2.9 uint32_t loc_satelliteInfo::system

8.351.2.10 uint32_t loc_satelliteInfo::validMask

8.352 loc_sensorDataUsage Struct Reference

Data Fields

- uint32_t usageMask
- uint32_t aidingIndicatorMask

8.352.1 Detailed Description

This structure contains Sensor Data Usage info.

Parameters

usageMask	• Specifies which sensors were used in calculating the position in the position report. – Value * 0x00000001 - Accelerometer used * 0x00000002 - Gyroscope used

aidingIndicator-Mask	• Specifies which results were aided by sensors. – Value * 0x00000001 - AIDED_HEADING * 0x00000002 - AIDED_SPEED * 0x00000004 - AIDED_POSITION * 0x00000008 - AIDED_VELOCITY

8.352.2 Field Documentation

8.352.2.1 uint32_t loc_sensorDataUsage::aidingIndicatorMask

8.352.2.2 uint32_t loc_sensorDataUsage::usageMask

8.353 loc_SV Struct Reference

Data Fields

- uint16_t id
- uint32_t system
- uint8_t mask

8.353.1 Detailed Description

This structure contains the Delete LOC SV Info

Parameters

id	• LOC SV ID of the satellite whose data is to be deleted • Range: – For GPS: 1 to 32 – For SBAS: 33 to 64 – For GLONASS: 65 to 96
system	• Indicates to which constellation this loc_SV belongs • Valid values: – eQMI_LOC_SV_SYSTEM_GPS (1) - GPS satellite – eQMI_LOC_SV_SYSTEM_GALILEO (2) - GALILEO satellite – eQMI_LOC_SV_SYSTEM_SBAS (3) - SBAS satellite – eQMI_LOC_SV_SYSTEM_COMPASS (4) - COMPASS satellite – eQMI_LOC_SV_SYSTEM_GLONASS (5) - GLONASS satellite – eQMI_LOC_SV_SYSTEM_BDS (6) - BDS satellite
mask	• Indicates if the ephemeris or almanac for a satellite is to be deleted • Valid values: – 0x01 - DELETE_EPHEMERIS – 0x02 - DELETE_ALMANAC

8.353.2 Field Documentation

8.353.2.1 uint16_t loc_SV::id

8.353.2.2 uint8_t loc_SV::mask

8.353.2.3 uint32_t loc_SV::system

8.354 loc_SVInfo Struct Reference

Data Fields

- uint8_t len
- loc_SV * pSV

8.354.1 Detailed Description

This structure contains the elements of Delete LOC SV Info

Parameters

len	• Number of sets of the following elements in struct loc_SV: – gnssSvId – system – deleteSvInfoMask
pSV	• Pointer to struct loc_SV. See loc_SV for more information

8.354.2 Field Documentation

8.354.2.1 uint8_t loc_SVInfo::len

8.354.2.2 loc_SV* loc_SVInfo::pSV

8.355 loc_svUsedforFix Struct Reference

Data Fields

- uint8_t gnssSvUsedList_len
- uint16_t gnssSvUsedList [255]

8.355.1 Detailed Description

This structure contains SVs Used to Calculate the Fix.

Parameters

gnssSvUsedList-_len	• Number of sets of gnssSvUsedList

pGnssSvUsed-List	• Entry in the list contains the SV ID of a satellite used for calculating this position report. • Following information is associated with each SV ID: – GPS - 1 to 32 – SBAS - 33 to 64 – GLONASS - 65 to 96 – QZSS - 193 to 197 – BDS - 201 to 237

8.355.2 Field Documentation

8.355.2.1 uint16_t loc_svUsedforFix::gnssSvUsedList[255]

8.355.2.2 uint8_t loc_svUsedforFix::gnssSvUsedList_len

8.356 loc_urlAddr Struct Reference

Data Fields

- char address [256]
- uint8_t TlvPresent

8.356.1 Detailed Description

This structure contains LOC Get Server URL address field.

Parameters

address	• Uniform Resource Locator • Type - NULL terminated string • Maximum string length (including NULL terminator) 256
TlvPresent	• Tlv Present or not

8.356.2 Field Documentation

8.356.2.1 char loc_urlAddr::address[256]

8.356.2.2 uint8_t loc_urlAddr::TlvPresent

8.357 loc_URLAddrInfo Struct Reference

Data Fields

- char urlAddr [256]

8.357.1 Detailed Description

This structure specifies information regarding the URL.

Parameters

urlAddr	• URL address. • Type - NULL-terminated string • Maximum string length (including NULL terminator) - 256

8.357.2 Field Documentation

8.357.2.1 char loc_URLAddrInfo::urlAddr[256]

8.358 LocApplicationInfo Struct Reference

Data Fields

- BYTE appProviderLength
- CHAR * pAppProvider
- BYTE appNameLength
- CHAR * pAppName
- BYTE appVersionValid
- CHAR appVersionLength
- CHAR * pAppVersion

8.358.1 Detailed Description

This structure contains the Application Information

Parameters

appProvider-Length	• Length of the Application Provider
pAppProvider	• Application Provider • Depends upon the Length of application Provider
appNameLength	• Length of Application Name
pAppName	• Application Name • Depends upon the Length of application Name
appVersionValid	• Specifies whether the application version string contains a valid value • 0x00 (FALSE) – Application version string is invalid • 0x01 (TRUE) – Application version string is valid

appVersion-Length	• Length of Application Version
pAppVersion	• Application Version • Depends upon the Length of application Version

8.358.2 Field Documentation

8.358.2.1 BYTE LocApplicationInfo::appNameLength

8.358.2.2 BYTE LocApplicationInfo::appProviderLength

8.358.2.3 CHAR LocApplicationInfo::appVersionLength

8.358.2.4 BYTE LocApplicationInfo::appVersionValid

8.358.2.5 CHAR* LocApplicationInfo::pAppName

8.358.2.6 CHAR* LocApplicationInfo::pAppProvider

8.358.2.7 CHAR* LocApplicationInfo::pAppVersion

8.359 LocDelAssDataReq Struct Reference

Data Fields

- SVInfo * pSVInfo
- GnssData * pGnssData
- CellDb * pCellDb
- ClkInfo * pClkInfo
- BdsSVInfo * pBdsSVInfo

8.359.1 Detailed Description

This structure contains LOC delete assist data request

Parameters

pSVInfo[IN]	• Optional parameter • Pointer to struct SVInfo. See SVInfo for more information
pGnssData[IN]	• Optional parameter • Pointer to struct GnssData. See GnssData for more information
pCellDb[IN]	• Optional parameter • Pointer to struct CellDb. See CellDb for more information

pClkInfo[IN]	• Optional parameter • Pointer to struct ClkInfo. See ClkInfo for more information
pBdsSVInfo[IN]	• Optional parameter • Pointer to struct BdsSVInfo. See BdsSVInfo for more information

8.359.2 Field Documentation

8.359.2.1 BdsSVInfo* LocDelAssDataReq::pBdsSVInfo

8.359.2.2 CellDb* LocDelAssDataReq::pCellDb

8.359.2.3 ClkInfo* LocDelAssDataReq::pClkInfo

8.359.2.4 GnssData* LocDelAssDataReq::pGnssData

8.359.2.5 SVInfo* LocDelAssDataReq::pSVInfo

8.360 LOCEventRegisterReqResp Struct Reference

Data Fields

- ULONGLONG eventRegister

8.360.1 Detailed Description

This structure contains the Parameter for RegisterEvents

Parameters

pEventRegMask	• Specifies the events that the control point is interested in receiving. -Values – 0x00000001 - to receive position report event indications – 0x00000002 - to receive satellite report event indications.These reports are sent at a 1 Hz rate. – 0x00000004 - to receive NMEA reports for position and satellites in view.The report is at a 1 Hz rate. – 0x00000008 - to receive NI Notify/Verify request event indications – 0x00000010 - to receive time injection request event indications. – 0x00000020 - to receive predicted orbits request event indications. – 0x00000040 - to receive position injection request event indications. – 0x00000080 - to receive engine state report event indications. – 0x00000100 - to receive fix session status report event indications. – 0x00000200 - to receive Wi-Fi position request event indications. – 0x00000400 - to receive notifications from the location engine indicating its readiness to accept data from the sensors(accelerometer, gyroscope, etc.). – 0x00000800 - to receive time sync requests from the GPS engine. Time sync enables the GPS engine to synchronize its clock with the sensor processor's clock. – 0x00001000 - to receive Stationary Position Indicator (SPI) streaming report indications. – 0x00002000 - to receive location server requests. These requests are generated when the service wishes to establish a connection with a location server. – 0x00004000 - to receive notifications related to network-initiated Geofences. These events notify the client when a network-initiated Geofence is added, deleted, or edited. – 0x00008000 - to receive Geofence alerts. These alerts are generated to inform the client of the changes that may affect a Geofence, e.g., if GPS is turned off or if the network is unavailable. – 0x00010000 - to receive notifications when a Geofence is breached. These events are generated when a UE enters or leaves the perimeter of a Geofence. This breach report is for a single Geofence. – 0x00020000 - to register for pedometer control requests from the location engine. The location engine sends this event to control the injection of pedometer reports. – 0x00040000 - to register for motion data control requests from the location engine. The location engine sends this event to control the injection of motion data. – 0x00080000 - to receive notification when a batch is full. The location engine sends this event to notify of Batch Full for ongoing batching session. – 0x00100000 - to receive position report indications along with an ongoing batching session. The location engine sends this event to notify the batched position report while a batching session is ongoing. – 0x00200000 - to receive Wi-Fi Access Point (AP) data inject request event indications. – 0x00400000 - to receive notifications when a Geofence is breached. These events are generated when a UE enters or leaves the perimeter of a Geofence. This breach notification is for multiple Geofences. Breaches from multiple Geofences are all batched and sent in the same notification. – 0x00800000 - to receive notifications from the location engine indicating its readiness to accept vehicle data (vehicle accelerometer, vehicle angular rate, vehicle odometry, etc.). – 0x01000000 - to receive system clock and satellite measurement report events (system clock, SV time, Doppler, etc.). – 0x02000000 - to receive satellite position reports as polynomials.Reports are generated only for the GNSS satellite constellations that are enabled using QMI_LOC_SET_GNSS_-CONSTELL_REPORT_CONFIG.

Note

Multiple events can be registered by OR the individual masks and sending them in this TLV. All unused bits in this mask must be set to 0.

8.360.2 Field Documentation

8.360.2.1 ULONGLONG LOCEventRegisterReqResp::eventRegister

8.361 LOCExtPowerStateReqResp Struct Reference

Data Fields

- ULONG extPowerState

8.361.1 Detailed Description

This structure contains the Parameter External Power Source State.

Parameters

pLOCEvent-RegisterReq-Resp	• Specifies the Power state; injected by the control point. • Values – 0 - Device is not connected to an external power source – 1 - Device is connected to an external power source – 2 - Unknown external power state

8.361.2 Field Documentation

8.361.2.1 ULONG LOCExtPowerStateReqResp::extPowerState

8.362 LocGetServerReq Struct Reference

Data Fields

- ULONG serverType
- BYTE * pServerAddrTypeMask

8.362.1 Detailed Description

This structure contains parameters to gets the location server from the location engine.

Parameters

serverType	• Type of server. • Valid values – eQMI_LOC_SERVER_TYPE_CDMA_PDE (1) - Server type is CDMA PDE – eQMI_LOC_SERVER_TYPE_CDMA_MPC (2) - Server type is CDMA MPC – eQMI_LOC_SERVER_TYPE_UMTS_SLP (3) - Server type is UMTS SLP – eQMI_LOC_SERVER_TYPE_CUSTOM_PDE (4)- Server type is custom PDE
pServerAddr-TypeMask	• Optional parameter • Type of address the client wants. If unspecified, the indication will contain all the types of addresses it has for the specified server type. • Valid bitmasks – 0x01 – IPv4 – 0x02 – IPv6 – 0x04 – URL

8.362.2 Field Documentation

8.362.2.1 BYTE∗ LocGetServerReq::pServerAddrTypeMask

8.362.2.2 ULONG LocGetServerReq::serverType

8.363 LocInjectPositionReq Struct Reference

Data Fields

- ULONGLONG ∗ pLatitude
- ULONGLONG ∗ pLongitude
- ULONG ∗ pHorUncCircular
- BYTE ∗ pHorConfidence
- ULONG ∗ pHorReliability
- ULONG ∗ pAltitudeWrtEllipsoid
- ULONG ∗ pAltitudeWrtMeanSeaLevel
- ULONG ∗ pVertUnc
- BYTE ∗ pVertConfidence
- ULONG ∗ pVertReliability
- altitudeSrcInfo ∗ pAltitudeSrcInfo
- ULONGLONG ∗ pTimestampUtc
- ULONG ∗ pTimestampAge
- ULONG ∗ pPositionSrc
- ULONG ∗ pRawHorUncCircular
- BYTE ∗ pRawHorConfidence

8.363.1 Detailed Description

This structure contains LOC Inject Position parameters

Parameters

pLatitude	• Optional parameter • Type - Floating point • Units - Degrees • Range - -90.0 to 90.0 • Positive values indicate northern latitude • Negative values indicate southern latitude • Note - This field must be specified together with pLongitude and pHorUncCircular.
pLongitude	• Optional parameter • Type - Floating point • Units - Degrees • Range - -180.0 to 180.0 • Positive values indicate eastern latitude • Negative values indicate western latitude • Note - This field must be specified together with pLatitude and pHorUncCircular.
pHorUncCircular	• Optional parameter • Horizontal position uncertainty. • Units - Meters • Note - This field must be specified together with pLatitude and pLongitude.
pHorConfidence	• Optional parameter • Horizontal confidence. • Units - Percent • Values – Valid Values - 1 to 99 – Invalid Values - 0, 101 to 255 – If 100 is received, reinterpret to 99 • Note - This field must be specified together with horizontal uncertainty. If not specified when pHorUncCircular is set, the default value is 50.
pHorReliability	• Optional parameter

- Values
  - 0 - Location reliability is not set.
  - 1 - Location reliability is very low; use it at your own risk
  - 2 - Location reliability is low; little or no cross-checking is possible.
  - 3 - Location reliability is medium; limited cross-check passed
  - 4 - Location reliability is high; strong cross-check passed

Parameters

pAltitudeWrt-Ellipsoid	• Optional parameter • Altitude With Respect to Ellipsoid. • Units - Meters • Values – Positive - height – Negative = depth
pAltitudeWrt-MeanSeaLevel	• Optional parameter • Altitude With Respect to Sea Level. • Units - Meters
pVertUnc	• Optional parameter • Vertical uncertainty. • Units - Meters • Note - This is mandatory if either pAltitudeWrtEllipsoid or pAltitudeWrtMeanSeaLevel is specified.
pVertConfidence	• Optional parameter • Vertical confidence. • Units - Percentage • Values – Valid Values - 0 to 99 – Invalid Values - 0, 100-256 – If 100 is received, reinterpret to 99 • Note - This field must be specified together with the vertical uncertainty. If not specified, the default value will be 50.
pVertReliability	• Optional parameter

- Values
  - 0 - Location reliability is not set.
  - 1 - Location reliability is very low; use it at your own risk.
  - 2 - Location reliability is low; little or no cross-checking is possible
  - 3 - Location reliability is medium; limited cross-check passed
  - 4 - Location reliability is high; strong cross-check passed

Parameters

pAltitudeSrcInfo	• Optional parameter

- Pointer to struct altitudeSrcInfo. See altitudeSrcInfo for more information

Parameters

pTimestampUtc	• Optional parameter • UTC timestamp • Units - Milliseconds since Jan. 1, 1970
pTimestampAge	• Optional parameter • Position age, which is an estimate of how long ago this fix was made. • Units - Milliseconds
pPositionSrc	• Optional parameter • Source from which this position was obtained • Valid values – 0 - Position source is GNSS – 1 - Position source is Cell ID – 2 - Position source is Enhanced Cell ID – 3 - Position source is Wi-Fi – 4 - Position source is Terrestrial – 5 - Position source is GNSS Terrestrial Hybrid – 6 - Other sources • Note - If altitude is specified and the altitude source is not specified, the engine assumes that the altitude was obtained using the specified position source. – If both altitude and altitude source are specified, the engine assumes that only latitude and longitude were obtained using the specified position source.
pRawHorUnc-Circular	• Optional parameter • Horizontal position uncertainty (circular) without any optimization. • Units - Meters
pRawHor-Confidence	• Optional parameter • Horizontal confidence associated with raw horizontal uncertainty • Units: Percent • Values – Valid values - 1 to 99 – Invalid values - 0, 101 to 255 – If 100 is received, reinterpret to 99 • Note - This field must be specified together with raw horizontal uncertainty. If not specified when rawHorUncCircular is set, the default value is 50.

8.363.2 Field Documentation

8.363.2.1 altitudeSrcInfo* LocInjectPositionReq::pAltitudeSrcInfo

8.363.2.2 ULONG* LocInjectPositionReq::pAltitudeWrtEllipsoid

8.363.2.3 ULONG* LocInjectPositionReq::pAltitudeWrtMeanSeaLevel

8.363.2.4 BYTE* LocInjectPositionReq::pHorConfidence

8.363.2.5 ULONG* LocInjectPositionReq::pHorReliability

8.363.2.6 ULONG* LocInjectPositionReq::pHorUncCircular

8.363.2.7 ULONGLONG* LocInjectPositionReq::pLatitude

8.363.2.8 ULONGLONG* LocInjectPositionReq::pLongitude

8.363.2.9 ULONG* LocInjectPositionReq::pPositionSrc

8.363.2.10 BYTE* LocInjectPositionReq::pRawHorConfidence

8.363.2.11 ULONG* LocInjectPositionReq::pRawHorUncCircular

8.363.2.12 ULONG* LocInjectPositionReq::pTimestampAge

8.363.2.13 ULONGLONG* LocInjectPositionReq::pTimestampUtc

8.363.2.14 BYTE* LocInjectPositionReq::pVertConfidence

8.363.2.15 ULONG* LocInjectPositionReq::pVertReliability

8.363.2.16 ULONG* LocInjectPositionReq::pVertUnc

8.364 LocInjectSensorDataReq Struct Reference

Data Fields

- ULONG * pOpaqueIdentifier
- sensorData * pAcceleroData
- sensorData * pGyroData
- ULONG * pAcceleroTimeSrc
- ULONG * pGyroTimeSrc
- tempratureData * pAcceleroTempData
- tempratureData * pGyroTempData

8.364.1 Detailed Description

This structure contains parameters to inject sensor data into the GNSS location engine

Parameters

pOpaque-Identifier	• Opaque Identifier (Optional parameter) • An opaque identifier that is sent in by the client that will be echoed in the indication so the client can relate the indication to the request.
pAcceleroData	• Optional parameter • Pointer to struct sensorData. See sensorData for more information

pGyroData	• Optional parameter • Pointer to struct sensorData. See sensorData for more information
pAcceleroTime-Src	• 3-Axis Accelerometer Data Time Source (Optional parameter) • The location service uses this field to identify the time reference used in the accelerometer data time stamps. • If not specified, the location service assumes that the time source for the accelerometer data is unknown. • Valid values – 0 - Sensor time source is unspecified – 1 - Time source is common between the sensors and the location engine
pGyroTimeSrc	• 3-Axis Gyroscope Data Time Source (Optional) • The location service uses this field to identify the time reference used in the gyroscope data time stamps. • If not specified, the location service assumes that the time source for the gyroscope data is unknown. • Valid values – 0 - Sensor time source is unspecified – 1 - Time source is common between the sensors and the location engine
pAcceleroTemp-Data	• Optional parameter • Pointer to struct temprature Data. See temprature Data for more information
pGyroTempData	• Optional parameter • Pointer to struct temprature Data. See temprature Data for more information

8.364.2 Field Documentation

8.364.2.1 sensorData* LocInjectSensorDataReq::pAcceleroData

8.364.2.2 temprature Data* LocInjectSensorDataReq::pAcceleroTempData

8.364.2.3 ULONG* LocInjectSensorDataReq::pAcceleroTimeSrc

8.364.2.4 sensorData* LocInjectSensorDataReq::pGyroData

8.364.2.5 temprature Data* LocInjectSensorDataReq::pGyroTempData

8.364.2.6 ULONG* LocInjectSensorDataReq::pGyroTimeSrc

8.364.2.7 ULONG* LocInjectSensorDataReq::pOpaqueIdentifier

8.365 LocSetCradleMountReq Struct Reference

Data Fields

- ULONG state
- BYTE * pConfidence

8.365.1 Detailed Description

This structure contains parameters to set current cradle mount configuration

Parameters

state	• Cradle Mount State • Valid values: – 0 - Device is mounted on the cradle – 1 - Device is not mounted on the cradle – 2 - Unknown cradle mount state
pConfidence	• Cradle Mount Confidence (Optional) • Confidence in the Cradle Mount state expressed as a percentage. • Range - 0 to 100

8.365.2 Field Documentation

8.365.2.1 BYTE* LocSetCradleMountReq::pConfidence

8.365.2.2 ULONG LocSetCradleMountReq::state

8.366 LocSetServerReq Struct Reference

Data Fields

- ULONG serverType
- IPv4Config * pIPv4Config
- IPv6Config * pIPv6Config
- URLAddrInfo * pURLAddr

8.366.1 Detailed Description

This structure contains parameters to set A-GPS Server

Parameters

serverType	• Type of server • Valid values: – 1 - Server type is CDMA PDE – 2 - Server type is CDMA MPC – 3 - Server type is UMTS SLP – 4 - Server type is custom PDE

pIPv4Config	• IPv4 address and port (Optional) • See IPv4Config for more information
pIPv6Config	• IPv6 address and port (Optional) • See IPv6Config for more information
pURLAddr	• Uniform Resource Locator (Optional) • See URLAddrInfo for more information

8.366.2 Field Documentation

8.366.2.1 IPv4Config∗ LocSetServerReq::pIPv4Config

8.366.2.2 IPv6Config∗ LocSetServerReq::pIPv6Config

8.366.2.3 URLAddrInfo∗ LocSetServerReq::pURLAddr

8.366.2.4 ULONG LocSetServerReq::serverType

8.367 LOCStartReq Struct Reference

Data Fields

- BYTE SessionId
- ULONG ∗ pRecurrenceType
- ULONG ∗ pHorizontalAccuracyLvl
- ULONG ∗ pIntermediateReportState
- ULONG ∗ pMinIntervalTime
- struct LocApplicationInfo ∗ pApplicationInfo
- ULONG ∗ pConfigAltitudeAssumed

8.367.1 Detailed Description

This structure contains the LOC Start Request

Parameters

SessionId[IN]	• ID of the session as identified by the control point. • Range: 0 to 255
pRecurrence-Type[IN]	• Optional Parameter • Specifies the type of session in which the control point is interested. • Defaults to SINGLE. -Values – 1 - Request periodic position fixes – 2 - Request a single position fix

pHorizontal-AccuracyLvl[IN]	• Optional Parameter • Specifies the horizontal accuracy level required by the control point. • Defaults to LOW • Values – 1 - Low accuracy – 2 - Medium accuracy – 3 - High accuracy
pIntermediate-ReportState[IN]	• Optional Parameter • Specifies if the control point is interested in receiving intermediate reports. • ON by default. • Values – 1 - Intermediate reports are turned on – 2 - Intermediate reports are turned off
pMinInterval-Time[IN]	• Optional Parameter • Minimum time interval, specified by the control point, that must elapse between position reports. • Units - Milliseconds • Default - 1000 ms
LocApplication-Info[IN]	• Optional Parameter • LOC Application Parameters • See LocApplicationInfo for more information
pConfigAltitude-Assumed[IN]	• Optional Parameter • Configuration for Altitude Assumed Info in GNSS SV Info Event • Defaults to ENABLED. • Values – 1 - Enable Altitude Assumed information in GNSS SV Info Event – 2 - Disable Altitude Assumed information in GNSS SV Info Event

8.367.2 Field Documentation

8.367.2.1 struct LocApplicationInfo* LOCStartReq::pApplicationInfo

8.367.2.2 ULONG* LOCStartReq::pConfigAltitudeAssumed

8.367.2.3 ULONG* LOCStartReq::pHorizontalAccuracyLvl

8.367.2.4 ULONG* LOCStartReq::pIntermediateReportState

8.367.2.5 ULONG* LOCStartReq::pMinIntervalTime

8.367.2.6 ULONG* LOCStartReq::pRecurrenceType

8.367.2.7 BYTE LOCStartReq::SessionId

8.368 LOCStopReq Struct Reference

Data Fields

- BYTE sessionId

8.368.1 Detailed Description

This structure contains the LOC Stop Request

Parameters

sessionId	• ID of the session as identified by the control point. • Range: 0 to 255

8.368.2 Field Documentation

8.368.2.1 BYTE LOCStopReq::sessionId

8.369 LteCQIParm Struct Reference

Data Fields

- BYTE ValidityCW0
- BYTE CQIValueCW0
- BYTE ValidityCW1
- BYTE CQIValueCW1

8.369.1 Detailed Description

This structure contains information about the SLQSSwiGetLteCQI response parameters.

Parameters

pValidityCW0[OUT]	• Values – 0- Invalid. – 1- Valid.
pCQIValueCW0[OUT]	• Values – Range 0∼15
pValidityCW1[OUT]	• Values – 0- Invalid. – 1- Valid.

pCQIValueC-W1[OUT]	• Values – Range 0∼15

8.369.2 Field Documentation

8.369.2.1 BYTE LteCQIParm::CQIValueCW0

8.369.2.2 BYTE LteCQIParm::CQIValueCW1

8.369.2.3 BYTE LteCQIParm::ValidityCW0

8.369.2.4 BYTE LteCQIParm::ValidityCW1

8.370 lteEARFCN Struct Reference

Data Fields

- BYTE status
- ULONG earfcn0
- ULONG earfcn1

8.370.1 Detailed Description

This structure contains the parameters for WCDMA UARCFN.

Parameters

status	• 0 - Disable • 1 - Enable
earfcn0	• Primary DL EARFCN to which the UE is locked
earfcn1	• Secondary DL EARFCN to which the UE is locked • Note : Make earfcn1 value equal to earfcn0 if only one EARFCN is desired.

8.370.2 Field Documentation

8.370.2.1 ULONG lteEARFCN::earfcn0

8.370.2.2 ULONG lteEARFCN::earfcn1

8.370.2.3 BYTE lteEARFCN::status

8.371 lteGsmCellInfo Struct Reference

Data Fields

- BYTE cellReselPriority
- BYTE threshGsmHigh
- BYTE threshGsmLow
- BYTE nccPermitted
- BYTE cells_len
- gsmCellInfo GsmCellInfo [255]

8.371.1 Detailed Description

This structure contains information about the LTE GSM Cell.

Parameters

cellReselPriority	• Priority of this frequency group. • Range: 0 to 7. • This field is only valid when ue_in_idle is TRUE.
threshGsmHigh	• Reselection threshold for high priority layers. • Range: 0 to 31. • This field is only valid when ue_in_idle is TRUE.
threshGsmLow	• Reselection threshold for low priority layers. • Range: 0 to 31. • This field is only valid when ue_in_idle is TRUE.
nccPermitted	• Bitmask specifying whether a neighbor with a specific network color code is to be reported. • Range: 0 to 255. • Bit n set to 1 means a neighbor with NCC n must be included in the report. This flag is synonymous with a blacklist in other RATs. • This field is only valid when ue_in_idle is TRUE.
cells_len	• Provides the number of set of gsm cells.
GsmCellInfo[MAX_DESCRIPTION_LENGTH]	• See gsmCellInfo for more information.

8.371.2 Field Documentation

8.371.2.1 BYTE lteGsmCellInfo::cellReselPriority

8.371.2.2 BYTE lteGsmCellInfo::cells_len

8.371.2.3 gsmCellInfo lteGsmCellInfo::GsmCellInfo[255]

8.371.2.4 BYTE lteGsmCellInfo::nccPermitted

8.371.2.5 BYTE lteGsmCellInfo::threshGsmHigh

8.371.2.6 BYTE lteGsmCellInfo::threshGsmLow

8.372 LTEInfo Struct Reference

Data Fields

- BYTE band
- BYTE bandwidth
- WORD RXChan
- WORD TXChan
- BYTE emmState
- BYTE emmSubState
- BYTE emmConnState

8.372.1 Detailed Description

Structure for storing the LTE information for the device.

Parameters

band	• LTE Band – 1 ∼ 41 (Band in decimal) – 0xFF - Invalid
bandwidth	• BandWidth. – 0x00 - 1.4 MHz – 0x01 - 3 MHz – 0x02 - 5 MHz – 0x03 - 10 MHz – 0x04 - 15 MHz – 0x05 - 20 MHz – 0x06 - Invalid – 0xFF - Unknown
RXChan	• RX channel number in decimal – 0xFFFF - Not Available
TXChan	• TX channel number in decimal – 0xFFFF - Not Available

emmState	• EMM State. – 0x00 - Deregistered – 0x01 - Reg Initiated – 0x02 - Registered – 0x03 - TAU Initiated – 0x04 - SR Initiated – 0x05 - Dereg Initiated – 0x06 - Invalid – 0xFF - Unknown
emmSubState	• EMM Sub State. – 0xFF - NOT Applicable • When EMM_state is 0x00: – 0x00 - No IMSI – 0x01 - PLMN Search – 0x02 - Attach Needed – 0x03 - No Cell – 0x04 - Attaching – 0x05 - Normal Service – 0x06 - Limited Service – 0x07 - Waiting for PDN • When EMM_state is 0x01: – 0x00 - Waiting for NW – 0x01 - Waiting for ESM • When EMM_state is 0x02: – 0x00 - Normal Service – 0x01 - Update Needed – 0x02 - Attempt Update – 0x03 - No Cell – 0x04 - PLMN Search – 0x05 - Limited Service – 0x06 - MM Update – 0x07 - IMSI Detach – 0x08 - Waiting for ESM
emmConnState	• EMM Connected Mode State. – 0x00 - RRC Idle – 0x01 - Waiting RRC Cfm – 0x02 - RRC Connected – 0x03 - RRC Releasing – 0xFF - Unknown

8.372.2 Field Documentation

8.372.2.1 BYTE LTEInfo::band

8.372.2.2 BYTE LTEInfo::bandwidth

8.372.2.3 BYTE LTEInfo::emmConnState

8.372.2.4 BYTE LTEInfo::emmState

8.372.2.5 BYTE LTEInfo::emmSubState

8.372.2.6 WORD LTEInfo::RXChan

8.372.2.7 WORD LTEInfo::TXChan

8.373 LTEInfoInterfreq Struct Reference

Data Fields

- BYTE ueInIdle
- BYTE freqsLen
- infoInterFreq InfoInterfreq [255]

8.373.1 Detailed Description

This structure contains information about the LTE Inter-Frequency Network.

Parameters

ueInIdle	• TRUE if the UE is in Idle mode, otherwise FALSE. – 0xFF - Not Available
freqsLen	• Provides the number of set of inter frequency information. • If 0(zero), then no information follows it.
InfoInterfreq[MAX_DESCRIPTION_LENGTH]	• See infoInterFreq for more information.

8.373.2 Field Documentation

8.373.2.1 BYTE LTEInfoInterfreq::freqsLen

8.373.2.2 infoInterFreq LTEInfoInterfreq::InfoInterfreq[255]

8.373.2.3 BYTE LTEInfoInterfreq::ueInIdle

8.374 LTEInfoIntrafreq Struct Reference

Data Fields

- BYTE ueInIdle
- BYTE plmn [3]
- WORD tac

- ULONG globalCellId
- WORD earfcn
- WORD servingCellId
- BYTE cellReselPriority
- BYTE sNonIntraSearch
- BYTE threshServingLow
- BYTE sIntraSearch
- BYTE cellsLen
- cellParams CellParams [255]

8.374.1 Detailed Description

This structure contains information about the LTE Intra-Frequency Network.

Parameters

ueInIdle	• TRUE if the UE is in Idle mode, otherwise FALSE. – 0xFF - Not Available
plmn[PLMN_LENGTH]	• PLMN ID coded as octet 3, 4, and 5.
tac	• Tracking area code. – 0xFFFF - Not Available
globalCellId	• Global cell ID in the system information block. – 0xFFFFFFFF - Not Available
earfcn	• E-UTRA absolute radio frequency channel number of the serving cell. • Range: 0 to 65535. – 0xFFFF - Not Available
servingCellId	• LTE serving cell ID. • Range: 0 to 503. • This is the cell ID of the serving cell and can be found in the cell list. – 0xFFFF - Not Available
cellReselPriority	• Priority for serving frequency. • Range: 0 to 7. • This field is only valid when ue_in_idle is TRUE. – 0xFF - Not Available
sNonIntraSearch	• S non-intra search threshold to control non-intrafrequency searches. • Range: 0 to 31. • This field is only valid when ue_in_idle is TRUE. – 0xFF - Not Available

threshServing-Low	• Serving cell low threshold. • Range: 0 to 31. • This field is only valid when ue_in_idle is TRUE. – 0xFF - Not Available
sIntraSearch	• S Intra search threshold. • Range: 0 to 31. • The current cell measurement must fall below this threshold to consider intrafrequency for reselection. • This field is only valid when ue_in_idle is TRUE. – 0xFF - Not Available
cellsLen	• Provides the number of set of cell params. • If 0(zero), then no information follows it.
CellParams[MAX_DESCRIPTION_LENGTH]	• See cellParams for more information.

8.374.2 Field Documentation

8.374.2.1 cellParams LTEInfoIntrafreq::CellParams[255]

8.374.2.2 BYTE LTEInfoIntrafreq::cellReselPriority

8.374.2.3 BYTE LTEInfoIntrafreq::cellsLen

8.374.2.4 WORD LTEInfoIntrafreq::earfcn

8.374.2.5 ULONG LTEInfoIntrafreq::globalCellId

8.374.2.6 BYTE LTEInfoIntrafreq::plmn[3]

8.374.2.7 WORD LTEInfoIntrafreq::servingCellId

8.374.2.8 BYTE LTEInfoIntrafreq::sIntraSearch

8.374.2.9 BYTE LTEInfoIntrafreq::sNonIntraSearch

8.374.2.10 WORD LTEInfoIntrafreq::tac

8.374.2.11 BYTE LTEInfoIntrafreq::threshServingLow

8.374.2.12 BYTE LTEInfoIntrafreq::ueInIdle

8.375 LTEInfoNeighboringGSM Struct Reference

Data Fields

- BYTE ueInIdle

- BYTE freqsLen
- lteGsmCellInfo LteGsmCellInfo [255]

8.375.1 Detailed Description

This structure contains information about the LTE Neighboring GSM Network.

Parameters

ueInIdle	• TRUE if the UE is in Idle mode, otherwise FALSE. – 0xFF - Not Available
freqsLen	• Provides the number of set of LTE GSM cell information. • If 0(zero), then no information follows it.
LteGsmCellInfo[-MAX_DESCRIP-TION_LENGTH]	• See lteGsmCellInfo for more information.

8.375.2 Field Documentation

8.375.2.1 BYTE LTEInfoNeighboringGSM::freqsLen

8.375.2.2 lteGsmCellInfo LTEInfoNeighboringGSM::LteGsmCellInfo[255]

8.375.2.3 BYTE LTEInfoNeighboringGSM::ueInIdle

8.376 LTEInfoNeighboringWCDMA Struct Reference

Data Fields

- BYTE ueInIdle
- BYTE freqsLen
- lteWcdmaCellInfo LTEWCDMACellInfo [255]

8.376.1 Detailed Description

This structure contains information about the LTE Neighboring WCDMA Network.

Parameters

ueInIdle	• TRUE if the UE is in Idle mode, otherwise FALSE. – 0xFF - Not Available
freqsLen	• Provides the number of set of LTE WCDMA cell information. • If 0(zero), then no information follows it.

LTEWCDMA-CellInfo[MAX_D-ESCRIPTION_L-ENGTH]	• See lteWcdmaCellInfo for more information.

8.376.2 Field Documentation

8.376.2.1 BYTE LTEInfoNeighboringWCDMA::freqsLen

8.376.2.2 lteWcdmaCellInfo LTEInfoNeighboringWCDMA::LTEWCDMACellInfo[255]

8.376.2.3 BYTE LTEInfoNeighboringWCDMA::ueInIdle

8.377 LteM1BandPrefTlv Struct Reference

Data Fields

- ULONGLONG lteM1BandPref
- BYTE TlvPresent

8.377.1 Detailed Description

Contain the LTE M1 band Preference.

Parameters

lteM1BandPref	• Bitmask representing the LTE M1 band preference • Bit Values – Bit 0 - E-UTRA Operating Band 1 – Bit 1 - E-UTRA Operating Band 2 – Bit 2 - E-UTRA Operating Band 3 – Bit 3 - E-UTRA Operating Band 4 – Bit 4 - E-UTRA Operating Band 5 – Bit 5 - E-UTRA Operating Band 6 – Bit 6 - E-UTRA Operating Band 7 – Bit 7 - E-UTRA Operating Band 8 – Bit 8 - E-UTRA Operating Band 9 – Bit 9 - E-UTRA Operating Band 10 – Bit 10 - E-UTRA Operating Band 11 – Bit 11 - E-UTRA Operating Band 12 – Bit 12 - E-UTRA Operating Band 13 – Bit 13 - E-UTRA Operating Band 14 – Bit 16 - E-UTRA Operating Band 17 – Bit 17 - E-UTRA Operating Band 18 – Bit 18 - E-UTRA Operating Band 19 – Bit 19 - E-UTRA Operating Band 20 – Bit 20 - E-UTRA Operating Band 21 – Bit 22 - E-UTRA Operating Band 23 – Bit 23 - E-UTRA Operating Band 24 – Bit 24 - E-UTRA Operating Band 25 – Bit 25 - E-UTRA Operating Band 26 – Bit 27 - E-UTRA Operating Band 28 – Bit 28 - E-UTRA Operating Band 29 – Bit 29 - E-UTRA Operating Band 32 – Bit 32 - E-UTRA Operating Band 33 – Bit 33 - E-UTRA Operating Band 34 – Bit 34 - E-UTRA Operating Band 35 – Bit 35 - E-UTRA Operating Band 36 – Bit 36 - E-UTRA Operating Band 37 – Bit 37 - E-UTRA Operating Band 38 – Bit 38 - E-UTRA Operating Band 39 – Bit 39 - E-UTRA Operating Band 40 – Bit 40 - E-UTRA Operating Band 41 – Bit 41 - E-UTRA Operating Band 42 – Bit 42 - E-UTRA Operating Band 43 – Bit 60 - E-UTRA Operating Band 125 – Bit 61 - E-UTRA Operating Band 126 – Bit 62 - E-UTRA Operating Band 127
TlvPresent	• Tlv Present

8.377.2 Field Documentation

8.377.2.1 ULONGLONG LteM1BandPrefTlv::lteM1BandPref

8.377.2.2 BYTE LteM1BandPrefTlv::TlvPresent

8.378 LteNasReleaseInfo_s Struct Reference

Data Fields

- BYTE nas_release
- BYTE nas_major
- BYTE nas_minor

8.378.1 Detailed Description

This structure contains LTE Nas Release Infomation

Parameters

nas_release	• LTE NAS release
nas_major	• LTE NAS version major
nas_minor	• LTE NAS version minor

8.378.2 Field Documentation

8.378.2.1 BYTE LteNasReleaseInfo_s::nas_major

8.378.2.2 BYTE LteNasReleaseInfo_s::nas_minor

8.378.2.3 BYTE LteNasReleaseInfo_s::nas_release

8.379 LteNb1BandPrefTlv Struct Reference

Data Fields

- ULONGLONG lteNb1BandPref
- BYTE TlvPresent

8.379.1 Detailed Description

Contain the LTE NB1 band Preference.

Parameters

lteNb1BandPref	• Bitmask representing the LTE NB1 band preference. • Bit Values – Bit 0 - E-UTRA Operating Band 1 – Bit 1 - E-UTRA Operating Band 2 – Bit 2 - E-UTRA Operating Band 3 – Bit 3 - E-UTRA Operating Band 4 – Bit 4 - E-UTRA Operating Band 5 – Bit 5 - E-UTRA Operating Band 6 – Bit 6 - E-UTRA Operating Band 7 – Bit 7 - E-UTRA Operating Band 8 – Bit 8 - E-UTRA Operating Band 9 – Bit 9 - E-UTRA Operating Band 10 – Bit 10 - E-UTRA Operating Band 11 – Bit 11 - E-UTRA Operating Band 12 – Bit 12 - E-UTRA Operating Band 13 – Bit 13 - E-UTRA Operating Band 14 – Bit 16 - E-UTRA Operating Band 17 – Bit 17 - E-UTRA Operating Band 18 – Bit 18 - E-UTRA Operating Band 19 – Bit 19 - E-UTRA Operating Band 20 – Bit 20 - E-UTRA Operating Band 21 – Bit 22 - E-UTRA Operating Band 23 – Bit 23 - E-UTRA Operating Band 24 – Bit 24 - E-UTRA Operating Band 25 – Bit 25 - E-UTRA Operating Band 26 – Bit 27 - E-UTRA Operating Band 28 – Bit 28 - E-UTRA Operating Band 29 – Bit 29 - E-UTRA Operating Band 32 – Bit 32 - E-UTRA Operating Band 33 – Bit 33 - E-UTRA Operating Band 34 – Bit 34 - E-UTRA Operating Band 35 – Bit 35 - E-UTRA Operating Band 36 – Bit 36 - E-UTRA Operating Band 37 – Bit 37 - E-UTRA Operating Band 38 – Bit 38 - E-UTRA Operating Band 39 – Bit 39 - E-UTRA Operating Band 40 – Bit 40 - E-UTRA Operating Band 41 – Bit 41 - E-UTRA Operating Band 42 – Bit 42 - E-UTRA Operating Band 43 – Bit 60 - E-UTRA Operating Band 125 – Bit 61 - E-UTRA Operating Band 126 – Bit 62 - E-UTRA Operating Band 127
TlvPresent	• Tlv Present

8.379.2 Field Documentation

8.379.2.1 ULONGLONG LteNb1BandPrefTlv::lteNb1BandPref

8.379.2.2 BYTE LteNb1BandPrefTlv::TlvPresent

8.380 LTEOperationMode Struct Reference

Data Fields

- BYTE TlvPresent
- ULONG * pLTEOperationMode

8.380.1 Detailed Description

This structure contains the LTEOperationMode response parameters.

Parameters

TlvPresent	• Tlv Present
pLTEOperation-Mode	• LTE Operational Mode

8.380.2 Field Documentation

8.380.2.1 ULONG* LTEOperationMode::pLTEOperationMode

8.380.2.2 BYTE LTEOperationMode::TlvPresent

8.381 ItePCI Struct Reference

Data Fields

- BYTE status
- ULONG earfcn
- ULONG pci

8.381.1 Detailed Description

This structure contains the parameters for WCDMA UARCFN.

Parameters

status	• 0 - Disable • 1 - Enable
earfcn	• UARFCN to which UE is locked

pci	• PCI to which the UE is locked

8.381.2 Field Documentation

8.381.2.1 ULONG ItePCI::earfcn

8.381.2.2 ULONG ItePCI::pci

8.381.2.3 BYTE ItePCI::status

8.382 IteRsrpinformation Struct Reference

Data Fields

- SHORT rsrplevel

8.382.1 Detailed Description

This structure contains the LTE RSRP Information

Parameters

rsrplevel	• LTE RSRP in dBm as a mesaured by L1. Range: -44 to -140(-44 means -44dBm, -140 means -140dBm).

8.382.2 Field Documentation

8.382.2.1 SHORT IteRsrpinformation::rsrplevel

8.383 LTERSRPThresh Struct Reference

Data Fields

- BYTE LTERSRPThreshListLen
- WORD * pLTERSRPThreshList

8.383.1 Detailed Description

This structure contains LTE RSRP threshold related parameters.

Parameters

LTERSRP-ThreshListLen	• Length of the LTE RSRP threshold list parameter to follow

pLTERSRP-ThreshList	• Array of RSRP thresholds (in units of 0.1 dBm) • Maximum of 32 values • Range for RSRP values: -140 to -44 (in dBm).

8.383.2 Field Documentation

8.383.2.1 BYTE LTERSRPThresh::LTERSRPThreshListLen

8.383.2.2 WORD* LTERSRPThresh::pLTERSRPThreshList

8.384 LTERSRQThresh Struct Reference

Data Fields

- BYTE LTERSRQThreshListLen
- WORD * pLTERSRQThreshList

8.384.1 Detailed Description

This structure contains LTE RSRQ threshold related parameters.

Parameters

LTERSRQ-ThreshListLen	• Length of the LTE RSRQ threshold list parameter to follow
pLTERSRQ-ThreshList	• Array of RSRQ thresholds (in units of 0.1 dBm) • Maximum of 32 values. • Range for RSRQ values: -20 to -3 (in dBm)

8.384.2 Field Documentation

8.384.2.1 BYTE LTERSRQThresh::LTERSRQThreshListLen

8.384.2.2 WORD* LTERSRQThresh::pLTERSRQThreshList

8.385 LTERSSIThresh Struct Reference

Data Fields

- BYTE LTERSSIThreshListLen
- WORD * pLTERSSIThreshList

8.385.1 Detailed Description

This structure contains LTE RSSI threshold related parameters.

Parameters

LTERSSI-ThreshListLen	• Length of the LTE RSSI threshold list parameter to follow
pLTERSSI-ThreshList	• Array of RSSI thresholds (in units of 0.1 dBm) • Maximum of 32 values. • Range for RSSI values: -120 to 0 (in dBm)

8.385.2 Field Documentation

8.385.2.1 BYTE LTERSSIThresh::LTERSSIThreshListLen

8.385.2.2 WORD* LTERSSIThresh::pLTERSSIThreshList

8.386 LteSccRxInfoResp Struct Reference

Data Fields

- SccRxInfo * pSccRxInfo

8.386.1 Detailed Description

This structure contains information about the SLQSSwiGetLteSccRxInfo response parameters.

Parameters

pSccRxInfo	[Optional] • See SccRxInfo for more information

8.386.2 Field Documentation

8.386.2.1 SccRxInfo* LteSccRxInfoResp::pSccRxInfo

8.387 LTESigRptCfg Struct Reference

Data Fields

- BYTE rptRate
- BYTE avgPeriod

8.387.1 Detailed Description

This structure contains LTE Signal Report Config parameters.

Parameters

rptRate	• Rate on how often the LTE signal must be checked for reporting • Values: – 0 - Report using the default configuration – 1 - Report every 1 sec – 2 - Report every 2 sec – 3 - Report every 3 sec – 4 - Report every 4 sec – 5 - Report every 5 sec
avgPeriod	• Averaging period to be used for the LTE signal • Values: – 0 - Average using the default configuration – 1 - Average over 1 sec – 2 - Average over 2 sec – 3 - Average over 3 sec – 4 - Average over 4 sec – 5 - Average over 5 sec – 6 - Average over 6 sec – 7 - Average over 7 sec – 8 - Average over 8 sec – 9 - Average over 9 sec – 10 - Average over 10 sec

8.387.2 Field Documentation

8.387.2.1 BYTE LTESigRptCfg::avgPeriod

8.387.2.2 BYTE LTESigRptCfg::rptRate

8.388 LTESigRptConfig Struct Reference

Data Fields

- BYTE rptRate
- BYTE avgPeriod

8.388.1 Detailed Description

This structure contains LTE RSRP threshold related parameters.

Parameters

rptRate	• Rate on how often the LTE signal must be checked for reporting Values • 0 - Report using the default configuration • 1 - Report every 1 sec • 2 - Report every 2 sec • 3 - Report every 3 sec • 4 - Report every 4 sec • 5 - Report every 5 sec
avgPeriod	• Averaging period to be used for the LTE signal. • Values – 0 - Average using the default configuration – 1 - Average over 1 sec – 2 - Average over 2 sec – 3 - Average over 3 sec – 4 - Average over 4 sec – 5 - Average over 5 sec – 6 - Average over 6 sec – 7 - Average over 7 sec – 8 - Average over 8 sec – 9 - Average over 9 sec – 10 - Average over 10 sec

8.388.2 Field Documentation

8.388.2.1 BYTE LTESigRptConfig::avgPeriod

8.388.2.2 BYTE LTESigRptConfig::rptRate

8.389 lteSnrinformation Struct Reference

Data Fields

- SHORT snrlevel

8.389.1 Detailed Description

This structure contains the LTE SNR Information

Parameters

snrlevel	• LTE SNR level as a scaled integer in units of 0.1dB e.g. -16dB has a value of -160 and 24.6dB has value of 246.

8.389.2 Field Documentation

8.389.2.1 SHORT lteSnrinformation::snrlevel

8.390 LTESNRThresh Struct Reference

Data Fields

- BYTE LTESNRThresListLen
- SHORT * pLTESNRThresList

8.390.1 Detailed Description

This structure contains LTE SNR threshold related parameters.

Parameters

LTESNRThres-ListLen	• Length of the LTE SNR threshold list parameter to follow
pLTESNRThres-List	• Sequence of thresholds delimiting SNR event reporting bands • Every time a SNR value crosses a threshold value, an event report indication message with the new SNR value is sent to the requesting control point. For this field – For LTE, each SNR threshold value is a signed 2 Byte value – Maximum number of threshold values is 16 – At least one value must be specified – SNR level as a scaled integer in units of 0.1 dB; e.g., -16 dB has a value of -160 and 24.6 dB has a value of 246

8.390.2 Field Documentation

8.390.2.1 BYTE LTESNRThresh::LTESNRThresListLen

8.390.2.2 SHORT* LTESNRThresh::pLTESNRThresList

8.391 LTESNRThreshold Struct Reference

Data Fields

- BYTE LTESNRThreshListLen
- WORD * pLTESNRThreshList

8.391.1 Detailed Description

This structure contains LTE SNR threshold related parameters.

Parameters

LTESNRThresh-ListLen	• Length of the LTE SNR threshold list parameter to follow

pLTESNR-ThreshList	• Array of SNR thresholds (in units of 0.1 dB) • Maximum of 32 values • Range for SNR values: -20 to 30 (in dB).

8.391.2 Field Documentation

8.391.2.1 BYTE LTESNRThreshold::LTESNRThreshListLen

8.391.2.2 WORD* LTESNRThreshold::pLTESNRThreshList

8.392 LTESSInfo Struct Reference

Data Fields

- INT8 rssi
- INT8 rsrq
- SHORT rsrp
- SHORT snr

8.392.1 Detailed Description

This structure contains the parameters for LTE Signal Strength Information

Parameters

rssi	• RSSI in dBm (signed value).
	• A value of -125 dBm or lower is used to indicate No Signal.
	  – For CDMA and UMTS, this indicates forward link pilot Ec
	  – For GSM, this indicates received signal strength

rsrq	• RSRQ value in dB (signed integer value) as measured by L1. • Range: -3 to -20 (-3 means -3 dB, -20 means -20 dB).
rsrp	• Current RSRP in dBm as measured by L1. • Range: -44 to -140 (-44 means -44 dBm, -140 means -140 dBm).
snr	• SNR level as a scaled integer in units of 0.1 dB. e.g., -16 dB has a value of -160 and 24.6 dB has a value of 246,

8.392.2 Field Documentation

8.392.2.1 SHORT LTESSInfo::rsrp

8.392.2.2 INT8 LTESSInfo::rsrq

8.392.2.3 INT8 LTESSInfo::rssi

8.392.2.4 SHORT LTESSInfo::snr

8.393 lteSSInfo Struct Reference

Data Fields

- int8_t rssi
- int8_t rsrq
- int16_t rsrp
- int16_t snr

8.393.1 Detailed Description

This structure contains the parameters for LTE Signal Strength Information

Parameters

rssi	• RSSI in dBm (signed value). • A value of -125 dBm or lower is used to indicate No Signal. – For CDMA and UMTS, this indicates forward link pilot Ec – For GSM, this indicates received signal strength
rsrq	• RSRQ value in dB (signed integer value) as measured by L1. • Range: -3 to -20 (-3 means -3 dB, -20 means -20 dB).
rsrp	• Current RSRP in dBm as measured by L1. • Range: -44 to -140 (-44 means -44 dBm, -140 means -140 dBm).
snr	• SNR level as a scaled integer in units of 0.1 dB. e.g., -16 dB has a value of -160 and 24.6 dB has a value of 246,

8.393.2 Field Documentation

8.393.2.1 int16_t lteSSInfo::rsrp

8.393.2.2 int8_t lteSSInfo::rsrq

8.393.2.3 int8_t lteSSInfo::rssi

8.393.2.4 int16_t lteSSInfo::snr

8.394 LTESysInfo Struct Reference

Data Fields

- sysInfoCommon sysInfoLTE

- BYTE lacValid
- WORD lac
- BYTE cellIdValid
- ULONG cellId
- BYTE regRejectInfoValid
- BYTE rejectSrvDomain
- BYTE rejCause
- BYTE networkIdValid
- BYTE MCC [3]
- BYTE MNC [3]
- BYTE tacValid
- WORD tac

8.394.1 Detailed Description

Structure for storing the LTE System Information.

Parameters

sysInfoLTE	• See sysInfoCommon for more information.
lacValid	• Indicates whether the location area code is valid.. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
lac	• Location area code. • Only applies to 3GPP. – 0xFFFF - Not Available
cellIdValid	• Indicates whether the cell ID is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
cellId	• Cell ID. – 0xFFFFFFFF - Not Available
regRejectInfo-Valid	• Indicates whether the registration reject information is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available

rejectSrvDomain	• Type of service domain in which the registration is rejected. – 0x00 - SYS_SRV_DOMAIN_NO_SRV - No service – 0x01 - Circuit-switched only – 0x02 - Packet-switched only – 0x03 - Circuit-switched and packet-switched – 0x04 - Camped – 0xFF - Not Available
rejCause	• Reject cause values sent are specified in [3GPP TS 24.008, Section 10.5.3.6]. – 0xFF - Not Available
networkIdValid	• Indicates whether the network ID is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
MCC[PLMN_LENGTH]	• Mobile Country Code. • MCC digits in ASCII characters
MNC[PLMN_LENGTH]	• Mobile Network Code. • MNC digits in ASCII characters • An unused byte is set to 0xFF. • In case of two-digit MNC values, the third (unused) digit is set to 0xFF. For example, 15 (a two-digit MNC) is reported using the byte stream 0x31 0x35 0xFF.
tacValid	• Indicates whether tracking area code is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
tac	• Tracking area code. • Only applicable for LTE. – 0xFFFF - Not Available

8.394.2 Field Documentation

8.394.2.1 ULONG LTESysInfo::cellId

8.394.2.2 BYTE LTESysInfo::cellIdValid

8.394.2.3 WORD LTESysInfo::lac

8.394.2.4 BYTE LTESysInfo::lacValid

8.394.2.5 BYTE LTESysInfo::MCC[3]

8.394.2.6 BYTE LTESysInfo::MNC[3]

8.394.2.7 BYTE LTESysInfo::networkIdValid

8.394.2.8 BYTE LTESysInfo::regRejectInfoValid

8.394.2.9 BYTE LTESysInfo::rejCause

8.394.2.10 BYTE LTESysInfo::rejectSrvDomain

8.394.2.11 sysInfoCommon LTESysInfo::sysInfoLTE

8.394.2.12 WORD LTESysInfo::tac

8.394.2.13 BYTE LTESysInfo::tacValid

8.395 IteWcdmaCellInfo Struct Reference

Data Fields

- WORD uarfcn
- BYTE cellReselPriority
- WORD threshXhigh
- WORD threshXlow
- BYTE cellsLen
- wcdmaCellInfo WCDMACellInfo [255]

8.395.1 Detailed Description

This structure contains information about the LTE WCDMA Cell.

Parameters

uarfcn	• WCDMA layer frequency. • Range: 0 to 16383.
cellReselPriority	• Cell re-selection priority. • Range: 0 to 7. • This field is only valid when ue_in_idle is TRUE.
threshXhigh	• Re-selection low threshold. • Range: 0 to 31. • This field is only valid when ue_in_idle is TRUE.
threshXlow	• Re-selection high threshold. • Range: 0 to 31. • This field is only valid when ue_in_idle is TRUE.

cellsLen	• Provides the number of set of WCDMA cells.
WCDMACell-Info[MAX_DES-CRIPTION_LE-NGTH]	• See wcdmaCellInfo for more information.

8.395.2 Field Documentation

8.395.2.1 BYTE lteWcdmaCellInfo::cellReselPriority

8.395.2.2 BYTE lteWcdmaCellInfo::cellsLen

8.395.2.3 WORD lteWcdmaCellInfo::threshXhigh

8.395.2.4 WORD lteWcdmaCellInfo::threshXlow

8.395.2.5 WORD lteWcdmaCellInfo::uarfcn

8.395.2.6 wcdmaCellInfo lteWcdmaCellInfo::WCDMACellInfo[255]

8.396 messageModeTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- sMSMessageModeInfo MessageModeInfo

8.396.1 Detailed Description

This structure contains message mode TLV information.

Parameters

TlvPresent	• Boolean indicating the presence of the TLV in the QMI response
MessageMode-Info	• Message Mode • See sMSMessageModeInfo for more information

8.396.2 Field Documentation

8.396.2.1 sMSMessageModeInfo messageModeTlv::MessageModeInfo

8.396.2.2 uint8_t messageModeTlv::TlvPresent

8.397 messageWaitingInfoContent Struct Reference

Data Fields

- BYTE msgType
- BYTE activeInd
- BYTE msgCount

8.397.1 Detailed Description

This structure contains message waiting information per instance

Parameters

msgType	• Message type – 0x00 - MWI_MESSAGE_TYPE_VOICMAIL - Voicemail – 0x01 - MWI_MESSAGE_TYPE_FAX - Fax – 0X02 - MWI_MESSAGE_TYPE_EMAIL - Email – 0x03 - MWI_MESSAGE_TYPE_OTHER - Other – 0x04 - MWI_MESSAGE_TYPE_VIDEOMAIL - Videomail
activeInd	• Indicates whether the indication is active – 0x00 - Inactive – 0x01 - Active
msgCount	• Number of messages

8.397.2 Field Documentation

8.397.2.1 BYTE messageWaitingInfoContent::activeInd

8.397.2.2 BYTE messageWaitingInfoContent::msgCount

8.397.2.3 BYTE messageWaitingInfoContent::msgType

8.398 minBasedIMSI Struct Reference

Data Fields

- BYTE mccM [3]
- WORD imsiM1112
- BYTE imsiMS1 [7]
- BYTE imsiMS2 [3]

8.398.1 Detailed Description

This structure contains the parameters for Min based IMSI Information

Parameters

mccM	• ASCII character representation of MCC_M
imsiM1112	• ASCII character representation of IMSI_M_11_12 value – 0xFFFF - Not Available
imsiMS1	• ASCII character representation of IMSI_M_S1 value
imsiMS2	• ASCII character representation of IMSI_M_S2 value

8.398.2 Field Documentation

8.398.2.1 WORD minBasedIMSI::imsiM1112

8.398.2.2 BYTE minBasedIMSI::imsiMS1[7]

8.398.2.3 BYTE minBasedIMSI::imsiMS2[3]

8.398.2.4 BYTE minBasedIMSI::mccM[3]

8.399 mitigationDevList Struct Reference

Data Fields

- BYTE mitigationDevIdLen
- CHAR mitigationDevId [255]
- BYTE maxMitigationLevel

8.399.1 Detailed Description

This structure contains mitigation devices list

Parameters

mitigationDevId-Len	• Number of sets of the following elements – mitigation_dev_id
mitigationDevId	• Mitigation device ID.
maxMitigation-Level	• Maximum valid mitigation level. • Valid range - 0 to max_mitigation_level.

8.399.2 Field Documentation

8.399.2.1 BYTE mitigationDevList::maxMitigationLevel

8.399.2.2 CHAR mitigationDevList::mitigationDevId[255]

8.399.2.3 BYTE mitigationDevList::mitigationDevIdLen

8.400 MNRInfo Struct Reference

Data Fields

- WORD mcc
- WORD mnc
- ULONG rat

8.400.1 Detailed Description

Structure contains Manual Network Register Information parameters

Parameters

mcc	• A 16-bit integer representation of Mobile Country Code. Range - 0 to 999.
mnc	• A 16-bit integer representation of Mobile Network Code. Range - 0 to 999.
rat	• Radio access technology for which to register. – 0x04 - RADIO_IF_GSM – 0x05 - RADIO_IF_UMTS – 0x08 - RADIO_IF_LTE

8.400.2 Field Documentation

8.400.2.1 WORD MNRInfo::mcc

8.400.2.2 WORD MNRInfo::mnc

8.400.2.3 ULONG MNRInfo::rat

8.401 ModifyProfileIn Struct Reference

Data Fields

- BYTE * pProfileID
- BYTE * pProfileType
- QmiProfileInfo curProfile

8.401.1 Detailed Description

This structure contains input parameters for SLQSModifyProfile

Parameters

ProfileID	• 1 to 16 for 3GPP profile (EM/MC73xx or earlier) • 1 to 24 for 3GPP profile (EM/MC74xx onwards) • 101 to 106 for 3GPP2 profile
ProfileType	• Identifies the technology type of the profile – 0x00 - 3GPP – 0x01 - 3GPP2 – NULL is not allowed
curProfile	• Contains Union of profile(3GPP/3GPP2) structures

8.401.2 Field Documentation

8.401.2.1 QmiProfileInfo ModifyProfileIn::curProfile

8.401.2.2 BYTE* ModifyProfileIn::pProfileID

8.401.2.3 BYTE* ModifyProfileIn::pProfileType

8.402 ModifyProfileOut Struct Reference

Data Fields

- USHORT * pExtErrorCode

8.402.1 Detailed Description

This structure contains out parameters for SLQSModifyProfile

Parameters

pExtErrorCode	• The extended error code received from DS Profile subsystem of type eWDS_ERR_PROFILE_-REG_xxx. • Error code will only will be present if error code eQCWWAN_ERR_QMI_EXTENDED_INTERN-AL is returned by device. • See qm_wds_ds_profile_extended_err_codes enum in qmerrno.h for received error description.

8.402.2 Field Documentation

8.402.2.1 USHORT* ModifyProfileOut::pExtErrorCode

8.403 msgWaitingInfo Struct Reference

Data Fields

- BYTE numInstances
- messageWaitingInfoContent msgWaitInfo [0xFF]

8.403.1 Detailed Description

This structure holds information related to message waiting information

Parameters

numInstances	• Number of sets of the elements in structure messageWaitingInfoContent
msgWaitInfo	• Pointer to structure of messageWaitingInfoContent. – See messageWaitingInfoContent for more information.

8.403.2 Field Documentation

8.403.2.1 messageWaitingInfoContent msgWaitingInfo::msgWaitInfo[0xFF]

8.403.2.2 BYTE msgWaitingInfo::numInstances

8.404 mtuSize3gppTlv Struct Reference

Data Fields

- BYTE TlvPresent
- WORD MTUSize3gpp

8.404.1 Detailed Description

This structure contains the parameters for 3GPP MTU Size.

Parameters

TlvPresent	• Tlv Present.
MTUSize3gpp	3GPP MTU size • Size of 3GPP MTU

8.404.2 Field Documentation

8.404.2.1 WORD mtuSize3gppTlv::MTUSize3gpp

8.404.2.2 BYTE mtuSize3gppTlv::TlvPresent

8.405 MTUSizeReq Struct Reference

Data Fields

- WORD MTUSize

8.405.1 Detailed Description

This structure contains the Set MTU request parameter.

Parameters

MTUSize	• Set MTU size • MTU Values – 0 - use default value – 576 to 2000 - other values required by carrier. – Set the same MTU for all RAT/interfaces.

8.405.2 Field Documentation

8.405.2.1 WORD MTUSizeReq::MTUSize

8.406 namName Struct Reference

Data Fields

- BYTE namNameLen
- BYTE namName [12]

8.406.1 Detailed Description

This structure contains the parameters for NAM Name Information

Parameters

namNameLen	• Number of sets of the following elements: – nam_name • If zero(0), then no information follows.
namName	• Name information in ASCII. The maximum length of nam_name is 12.

8.406.2 Field Documentation

8.406.2.1 BYTE namName::namName[12]

8.406.2.2 BYTE namName::namNameLen

8.407 nas_acqOrderPref Struct Reference

Data Fields

- uint8_t acqOrdeLen
- uint8_t * pAcqOrder

8.407.1 Detailed Description

Contain the Acquisition Order Preference.

Parameters

acqOrdeLen	• Number of sets of the following elements.
pAcqOrder	• Acquisition order preference to be set. Values: – 0x01 - NAS_RADIO_IF_CDMA_1X - cdma2000 1X – 0x02 - NAS_RADIO_IF_CDMA_1XEVDO - cdma2000 HRPD (1xEV-DO) – 0x04 - NAS_RADIO_IF_GSM - GSM – 0x05 - NAS_RADIO_IF_UMTS - UMTS – 0x08 - NAS_RADIO_IF_LTE - LTE – 0x09 - NAS_RADIO_IF_TDSCDMA - TD-SCDMA

8.407.2 Field Documentation

8.407.2.1 uint8_t nas_acqOrderPref::acqOrdeLen

8.407.2.2 uint8_t* nas_acqOrderPref::pAcqOrder

8.408 nas_AcqOrderPrefTlv Struct Reference

Data Fields

- uint8_t acqOrdeLen
- uint8_t * pAcqOrder
- uint8_t TlvPresent

8.408.1 Detailed Description

Contain the Acquisition Order Preference.

Parameters

acqOrdeLen	• Number of sets of the following elements.
pAcqOrder	• Acquisition order preference to be set. Values: – 0x01 - NAS_RADIO_IF_CDMA_1X - cdma2000 1X – 0x02 - NAS_RADIO_IF_CDMA_1XEVDO - cdma2000 HRPD (1xEV-DO) – 0x04 - NAS_RADIO_IF_GSM - GSM – 0x05 - NAS_RADIO_IF_UMTS - UMTS – 0x08 - NAS_RADIO_IF_LTE - LTE – 0x09 - NAS_RADIO_IF_TDSCDMA - TD-SCDMA – 0x0C - NAS_RADIO_IF_NR5G - NR5G
TlvPresent	• Tlv Present

8.408.2 Field Documentation

8.408.2.1 uint8_t nas_AcqOrderPrefTlv::acqOrdeLen

8.408.2.2 uint8_t* nas_AcqOrderPrefTlv::pAcqOrder

8.408.2.3 uint8_t nas_AcqOrderPrefTlv::TlvPresent

8.409 nas_ActPilotPNElement Struct Reference

Data Fields

- uint16_t ActSetPilotPN
- uint8_t ActSetPilotPNStrength

8.409.1 Detailed Description

This structure contains pilot PN Element.

Parameters

ActSetPilotPN	• Active Pilot PN
ActSetPilotPN-Strength	• Active Pilot PN strength

8.409.2 Field Documentation

8.409.2.1 uint16_t nas_ActPilotPNElement::ActSetPilotPN

8.409.2.2 uint8_t nas_ActPilotPNElement::ActSetPilotPNStrength

8.410 nas_AddCDMASysInfo Struct Reference

Data Fields

- uint16_t geoSysIdx
- uint16_t regPrd

8.410.1 Detailed Description

Structure for storing the Additional CDMA System Information.

Parameters

geoSysIdx	• System table index referencing the beginning of the geo in which the current serving system is present. • When the system index is not known, 0xFFFF is used.
regPrd	• Registration period after the CDMA system is acquired. • When the CDMA registration period is not valid, 0xFFFF is used.

8.410.2 Field Documentation

8.410.2.1 uint16_t nas_AddCDMASysInfo::geoSysIdx

8.410.2.2 uint16_t nas_AddCDMASysInfo::regPrd

8.411 nas_AddSysInfo Struct Reference

Data Fields

- uint16_t geoSysIdx
- uint32_t cellBroadcastCap

8.411.1 Detailed Description

Structure for storing the Additional GSM and WCDMA System Information.

Parameters

geoSysIdx	• System table index referencing the beginning of the geo in which the current serving system is present. • When the system index is not known, 0xFFFF is used.
cellBroadcast-Cap	• Cell broadcast capability of the serving system. • When the CDMA registration period is not valid, 0xFFFF is used. – NAS_CELL_BROADCAST_CAP_UNKNOWN - Cell broadcast support is unknown – NAS_CELL_BROADCAST_CAP_OFF - Cell broadcast is not supported – NAS_CELL_BROADCAST_CAP_ON - Cell broadcast is supported

8.411.2 Field Documentation

8.411.2.1 uint32_t nas_AddSysInfo::cellBroadcastCap

8.411.2.2 uint16_t nas_AddSysInfo::geoSysIdx

8.412 nas_BandPrefTlv Struct Reference

Data Fields

- uint64_t BandPref
- uint8_t TlvPresent

8.412.1 Detailed Description

Contain the band preference for system selection preferences.

Parameters

BandPref	• Bitmask representing the radio technologies that are disabled. • Bit values: • Bit mask representing the band preference • Bit values: – Bit 0 - Band Class 0, A-System – Bit 1 - Band Class 0, B-System, Band Class 0 AB, GSM 850 Band – Bit 2 - Band Class 1, all blocks – Bit 3 - Band Class 2 place holder – Bit 4 - Band Class 3, A-System – Bit 5 - Band Class 4, all blocks – Bit 6 - Band Class 5, all blocks – Bit 7 - GSM_DCS_1800 band – Bit 8 - GSM Extended GSM (E-GSM) 900 band – Bit 9 - GSM Primary GSM (P-GSM) 900 band – Bit 10 - Band Class 6 – Bit 11 - Band Class 7 – Bit 12 - Band Class 8 – Bit 13 - Band Class 9 – Bit 14 - Band Class 10 – Bit 15 - Band Class 11 – Bit 16 - GSM 450 band – Bit 17 - GSM 480 band – Bit 18 - GSM 750 band – Bit 19 - GSM 850 band – Bit 20 - GSM Railways GSM 900 Band – Bit 21 - GSM PCS 1900 band – Bit 22 - WCDMA Europe, Japan, and China IMT 2100 band – Bit 23 - WCDMA U.S. PCS 1900 band – Bit 24 - WCDMA Europe and China DCS 1800 band – Bit 25 - WCDMA U.S. 1700 band – Bit 26 - WCDMA U.S. 850 band – Bit 27 - WCDMA Japan 800 band – Bit 28 - Band Class 12 – Bit 29 - Band Class 14 – Bit 30 - Reserved – Bit 31 - Band Class 15 – Bit 32 to 47 - Reserved – Bit 48 - WCDMA Europe 2600 band – Bit 49 - WCDMA Europe and Japan 900 band – Bit 50 - WCDMA Japan 1700 band – Bit 51 to 55 - Reserved – Bit 56 - Band Class 16 – Bit 57 - Band Class 17 – Bit 58 - Band Class 18 – Bit 59 - Band Class 19 – Bit 60 to 64 - Reserved

TlvPresent	• Tlv Present

8.412.2 Field Documentation

8.412.2.1 uint64_t nas_BandPrefTlv::BandPref

8.412.2.2 uint8_t nas_BandPrefTlv::TlvPresent

8.413 nas_CallBarringSysInfo Struct Reference

Data Fields

- uint32_t csBarStatus
- uint32_t psBarStatus

8.413.1 Detailed Description

Structure for storing the GSM and WCDMA Call Barring System Information.

Parameters

csBarStatus	• Call barring status for circuit-switched calls. – NAS_CELL_ACCESS_NORMAL_ONLY - Cell access is allowed for normal calls only – NAS_CELL_ACCESS_EMERGENCY_ONLY - Cell access is allowed for emergency calls only – NAS_CELL_ACCESS_NO_CALLS - Cell access is not allowed for any call type – NAS_CELL_ACCESS_ALL_CALLS - Cell access is allowed for all call types – NAS_CELL_ACCESS_UNKNOWN - Cell access type is unknown
psBarStatus	• Call barring status for packet-switched calls. – NAS_CELL_ACCESS_NORMAL_ONLY - Cell access is allowed for normal calls only – NAS_CELL_ACCESS_EMERGENCY_ONLY - Cell access is allowed for emergency calls only – NAS_CELL_ACCESS_NO_CALLS - Cell access is not allowed for any call type – NAS_CELL_ACCESS_ALL_CALLS - Cell access is allowed for all call types – NAS_CELL_ACCESS_UNKNOWN - Cell access type is unknown

8.413.2 Field Documentation

8.413.2.1 uint32_t nas_CallBarringSysInfo::csBarStatus

8.413.2.2 uint32_t nas_CallBarringSysInfo::psBarStatus

8.414 nas_callBarStatus Struct Reference

Data Fields

- uint32_t csBarStatus
- uint32_t psBarStatus

8.414.1 Detailed Description

This structure contains Call Barring Status.

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

csBarStatus	• Call Barring Status for circuit-switched calls. • Values: • NAS_CELL_ACCESS_NORMAL_ONLY - Cell access is allowed for normal calls only • NAS_CELL_ACCESS_EMERGENCY_ONLY - Cell access is allowed for emergency calls only • NAS_CELL_ACCESS_NO_CALLS - Cell access is not allowed for any call type • NAS_CELL_ACCESS_ALL_CALLS - Cell access is allowed for all call types • NAS_CELL_ACCESS_UNKNOWN - Cell access type is unknown
psBarStatus	• Call Barring Status for packet-switched calls. • Values: – NAS_CELL_ACCESS_NORMAL_ONLY - Cell access is allowed for normal calls only – NAS_CELL_ACCESS_EMERGENCY_ONLY - Cell access is allowed for emergency calls only – NAS_CELL_ACCESS_NO_CALLS - Cell access is not allowed for any call type – NAS_CELL_ACCESS_ALL_CALLS - Cell access is allowed for all call types – NAS_CELL_ACCESS_UNKNOWN - Cell access type is unknown

8.414.2 Field Documentation

8.414.2.1 uint32_t nas_callBarStatus::csBarStatus

8.414.2.2 uint32_t nas_callBarStatus::psBarStatus

8.415 nas_CDMAChannel Struct Reference

Data Fields

- uint16_t priChA
- uint16_t priChB
- uint16_t secChA
- uint16_t secChB

8.415.1 Detailed Description

This structure contains CDMA channel.

Parameters

priChA	• A Channel number for the primary carrier. – 0xFFFF - Not Available
priChB	• B Channel number for the primary carrier. – 0xFFFF - Not Available
secChA	• A Channel number for the secondary carrier. – 0xFFFF - Not Available
secChB	• B Channel number for the secondary carrier. – 0xFFFF - Not Available

8.415.2 Field Documentation

8.415.2.1 uint16_t nas_CDMAChannel::priChA

8.415.2.2 uint16_t nas_CDMAChannel::priChB

8.415.2.3 uint16_t nas_CDMAChannel::secChA

8.415.2.4 uint16_t nas_CDMAChannel::secChB

8.416 nas_CDMAECIOThresh Struct Reference

Data Fields

- uint8_t CDMAECIOThreshListLen
- int16_t * pCDMAECIOThreshList

8.416.1 Detailed Description

This structure contains CDMA ECIO threshold related parameters.

Parameters

CDMAECIO-ThreshListLen	• Length of the CDMA ECIO threshold list parameter to follow
pCDMAECIO-ThreshList	• Array of ECIO thresholds (in units of 0.1 dB) • Maximum of 32 values. Range for ECIO values: -31.5 to 0 (in dB)

8.416.2 Field Documentation

8.416.2.1 uint8_t nas_CDMAECIOThresh::CDMAECIOThreshListLen

8.416.2.2 int16_t* nas_CDMAECIOThresh::pCDMAECIOThreshList

8.417 nas_CDMAInfo Struct Reference

Data Fields

- uint16_t sid
- uint16_t nid
- uint16_t baseId
- uint16_t refpn
- uint32_t baseLat
- uint32_t baseLong

8.417.1 Detailed Description

This structure contains information about the CDMA Network.

Parameters

sid	• System ID. – 0xFFFF - Not Available
nid	• Network ID. – 0xFFFF - Not Available
baseId	• Base station ID. – 0xFFFF - Not Available
refpn	• Reference PN. – 0xFFFF - Not Available
baseLat	• Latitude of the current base station in units of 0.25 sec. – 0xFFFFFFFF - Not Available
baseLong	• Longitude of the current base station in units of 0.25 sec. – 0xFFFFFFFF - Not Available

8.417.2 Field Documentation

8.417.2.1 uint16_t nas_CDMAInfo::baseId

8.417.2.2 uint32_t nas_CDMAInfo::baseLat

8.417.2.3 uint32_t nas_CDMAInfo::baseLong

8.417.2.4 uint16_t nas_CDMAInfo::nid

8.417.2.5 uint16_t nas_CDMAInfo::refpn

8.417.2.6 uint16_t nas_CDMAInfo::sid

8.418 nas_CDMARSSIThresh Struct Reference

Data Fields

- uint8_t CDMARSSIThreshListLen
- int16_t * pCDMARSSIThreshList

8.418.1 Detailed Description

This structure contains CDMA RSSI threshold related parameters.

Parameters

CDMARSSI-ThreshListLen	• Length of the CDMARSSI threshold list parameter to follow
pCDMARSSI-ThreshList	• Array of RSSI thresholds (in units of 0.1 dBm) • maximum of 32 values. • Range for RSSI values:-105 to -21 (in dBm).

8.418.2 Field Documentation

8.418.2.1 uint8_t nas_CDMARSSIThresh::CDMARSSIThreshListLen

8.418.2.2 int16_t* nas_CDMARSSIThresh::pCDMARSSIThreshList

8.419 nas_CDMASysInfo Struct Reference

Data Fields

- nas_sysInfoCommon sysInfoCDMA
- uint8_t isSysPrlMatchValid
- uint8_t isSysPrlMatch
- uint8_t pRevInUseValid
- uint8_t pRevInUse
- uint8_t bsPRevValid
- uint8_t bsPRev
- uint8_t ccsSupportedValid
- uint8_t ccsSupported
- uint8_t cdmaSysIdValid
- uint16_t systemID
- uint16_t networkID
- uint8_t bsInfoValid
- uint16_t baseId
- uint32_t baseLat

- uint32_t baseLong
- uint8_t packetZoneValid
- uint16_t packetZone
- uint8_t networkIdValid
- uint8_t MCC [3]
- uint8_t MNC [3]

8.419.1 Detailed Description

Structure for storing the CDMA System Information.

Parameters

sysInfoCDMA	• See nas_sysInfoCommon for more information.
isSysPrlMatch-Valid	• Indicates whether the system PRL match is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
isSysPrlMatch	• Indicates whether the system is in a PRL. • Only applies to CDMA/HDR. – 0x00 - System is not in a PRL – 0x01 - System is in a PRL – 0xFF - Not Available • If the system is not in a PRL, roam_status carries the value from the default roaming indicator in the PRL. • If the system is in a PRL, roam_status is set to the value based on the standard specification.
pRevInUseValid	• Indicates whether the P_Rev in use is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
pRevInUse	• The lesser of the base station P_Rev and mobile P_Rev • Only applicable for CDMA. – 0xFF - Not Available
bsPRevValid	• Indicates whether the base station P_Rev is valid – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
bsPRev	• Base station P_Rev. • Only applicable for CDMA. – 0xFF - Not Available

ccsSupported-Valid	• Indicates whether the supported concurrent service is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
ccsSupported	• Whether concurrent service is supported. • Only applicable for CDMA. – 0x00 - Not supported – 0x01 - Supported – 0xFF - Not Available
cdmaSysIdValid	• Indicates whether the CDMA system ID is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
systemID	• System ID. – 0xFFFF - Not Available
networkID	• Network ID. – 0xFFFF - Not Available
bsInfoValid	• Indicates whether the base station information is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
baseLat	• Base station latitude in units of 0.25 sec. • Expressed as a two's complement signed number with positive numbers signifying North latitudes. – 0xFFFFFFFF - Not Available
baseLong	• Base station longitude in units of 0.25 sec. • Expressed as a two's complement signed number with positive numbers signifying East latitudes. – 0xFFFFFFFF - Not Available
packetZoneValid	• Indicates whether the packet zone is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available

packetZone	• Packet zone (8-bit). – 0xFFFF indicates no packet zone. • Only applicable for CDMA.

networkIdValid	• Indicates whether the network ID is valid.
	  – 0x00 - Invalid
	  – 0x01 - Valid
	  – 0xFF - Not Available

MCC[NAS_PLMN_LENGTH]	• Mobile Country Code. • MCC digits in ASCII characters • MCC wildcard value is returned as {'3', 0xFF, 0xFF}.
MNC[NAS_PLMN_LENGTH]	• Mobile Network Code. • MNC digits in ASCII characters • An unused byte is set to 0xFF. • MNC wildcard value is returned as {'7', 0xFF, 0xFF}.

8.419.2 Field Documentation

8.419.2.1 uint16_t nas_CDMASysInfo::baseId

8.419.2.2 uint32_t nas_CDMASysInfo::baseLat

8.419.2.3 uint32_t nas_CDMASysInfo::baseLong

8.419.2.4 uint8_t nas_CDMASysInfo::bsInfoValid

8.419.2.5 uint8_t nas_CDMASysInfo::bsPRev

8.419.2.6 uint8_t nas_CDMASysInfo::bsPRevValid

8.419.2.7 uint8_t nas_CDMASysInfo::ccsSupported

8.419.2.8 uint8_t nas_CDMASysInfo::ccsSupportedValid

8.419.2.9 uint8_t nas_CDMASysInfo::cdmaSysIdValid

8.419.2.10 uint8_t nas_CDMASysInfo::isSysPrlMatch

8.419.2.11 uint8_t nas_CDMASysInfo::isSysPrlMatchValid

8.419.2.12 uint8_t nas_CDMASysInfo::MCC[3]

8.419.2.13 uint8_t nas_CDMASysInfo::MNC[3]

8.419.2.14 uint16_t nas_CDMASysInfo::networkID

8.419.2.15 uint8_t nas_CDMASysInfo::networkIdValid

8.419.2.16 uint16_t nas_CDMASysInfo::packetZone

8.419.2.17 uint8_t nas_CDMASysInfo::packetZoneValid

8.419.2.18 uint8_t nas_CDMASysInfo::pRevInUse

8.419.2.19 uint8_t nas_CDMASysInfo::pRevInUseValid

8.419.2.20 nas_sysInfoCommon nas_CDMASysInfo::sysInfoCDMA

8.419.2.21 uint16_t nas_CDMASysInfo::systemID

8.420 nas_CDMASysInfoExt Struct Reference

Data Fields

- uint16_t MCC
- uint8_t imsi_11_12

8.420.1 Detailed Description

This structure contains CDMA system information extension

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

MCC	• Mobile Country Code
imsi_11_12	• IMSI_11_12

8.420.2 Field Documentation

8.420.2.1 uint8_t nas_CDMASysInfoExt::imsi_11_12

8.420.2.2 uint16_t nas_CDMASysInfoExt::MCC

8.421 nas_cellParams Struct Reference

Data Fields

- uint16_t pci
- int16_t rsrq
- int16_t rsrp
- int16_t rssi
- int16_t srxlev

8.421.1 Detailed Description

This structure contains information about the Cell parameters.

Parameters

pci	• Physical cell ID. • Range: 0 to 503.
rsrq	• Current RSRQ in 1/10 dB as measured by L1. • Range: -20.0 dB to -3.0 dB.
rsrp	• Current RSRP in 1/10 dBm as measured by L1. • Range: -140.0 dBm to -44.0 dBm.
rssi	• Current RSSI in 1/10 dBm as measured by L1. • Range: -120.0 dBm to 0.
srxlev	• Cell selection Rx level (Srxlev) value. • Range: -128 to 128. • This field is only valid when ue_in_idle is TRUE.

8.421.2 Field Documentation

8.421.2.1 uint16_t nas_cellParams::pci

8.421.2.2 int16_t nas_cellParams::rsrp

8.421.2.3 int16_t nas_cellParams::rsrq

8.421.2.4 int16_t nas_cellParams::rssi

8.421.2.5 int16_t nas_cellParams::srxlev

8.422 nas_ciotAcqOrderPref Struct Reference

Data Fields

- uint8_t ciotAcqOrderLen
- uint32_t * pCiotAcqOrder

8.422.1 Detailed Description

Contain the CIOT Acquisition Order Preference.

Parameters

ciotAcqOrderLen	• Number of sets of the following elements.
pCiotAcqOrder	• CIOT Acquisition order preference to be set. • Values – 0x01 - cdma2000 ®1X – 0x02 - cdma2000 ® HRPD (1xEV-DO) – 0x04 - GSM – 0x05 - UMTS – 0x08 - LTE – 0x09 - TD-SCDMA – 0x0a - LTE_M1 – 0x0b - LTE_NB1

8.422.2 Field Documentation

8.422.2.1 uint8_t nas_ciotAcqOrderPref::ciotAcqOrderLen

8.422.2.2 uint32_t∗ nas_ciotAcqOrderPref::pCiotAcqOrder

8.423 nas_CiotAcqOrderPrefTlv Struct Reference

Data Fields

- uint8_t ciotAcqOrderLen
- uint32_t ∗ pCiotAcqOrder
- uint8_t TlvPresent

8.423.1 Detailed Description

Contain the CIOT Acquisition Order Preference.

Parameters

ciotAcqOrderLen	• Number of sets of the following elements.
pCiotAcqOrder	• CIOT Acquisition order preference to be set. • Values – 0x01 - cdma2000 ®1X – 0x02 - cdma2000 ® HRPD (1xEV-DO) – 0x04 - GSM – 0x05 - UMTS – 0x08 - LTE – 0x09 - TD-SCDMA – 0x0a - LTE_M1 – 0x0b - LTE_NB1

TlvPresent	• Tlv Present

8.423.2 Field Documentation

8.423.2.1 uint8_t nas_CiotAcqOrderPrefTlv::ciotAcqOrderLen

8.423.2.2 uint32_t* nas_CiotAcqOrderPrefTlv::pCiotAcqOrder

8.423.2.3 uint8_t nas_CiotAcqOrderPrefTlv::TlvPresent

8.424 nas_CiotLteOpModePrefTlv Struct Reference

Data Fields

- uint64_t ciotLteOpModePref
- uint8_t TlvPresent

8.424.1 Detailed Description

Contain the CIOT LTE Operational Mode Preference.

Parameters

ciotLteOpMode-Pref	• CIOT LTE Operational Mode Preference • Values: – Bit 0 (0x01) - LTE wideband – Bit 1 (0x02) - LTE M1 – Bit 2 (0x04) - LTE NB1 All unlisted bits are reserved for future use and the service point ignores them if used.
TlvPresent	• Tlv Present

8.424.2 Field Documentation

8.424.2.1 uint64_t nas_CiotLteOpModePrefTlv::ciotLteOpModePref

8.424.2.2 uint8_t nas_CiotLteOpModePrefTlv::TlvPresent

8.425 nas_CommInfo Struct Reference

Data Fields

- int8_t temperature
- uint8_t modemMode
- uint8_t systemMode
- uint8_t imsRegState

- uint8_t psState

8.425.1 Detailed Description

Structure for storing the common information for the device.

Parameters

temperature	• Temperature. – 8-bit signed integer – 0xFF - Not Available.
modemMode	• Modem Operating Mode. – 0x00 - POWERING OFF – 0x01 - FACTORY TEST – 0x02 - OFFLINE – 0x03 - OFFLINE_AMPS – 0x04 - OFFLINE_CDMA – 0x05 - ONLINE – 0x06 - LOW POWER MODE – 0x07 - RESETTING – 0x08 - NETWORK TEST – 0x09 - OFFLINE REQUEST – 0x0A - PSEUDO ONLINE – 0x0B - RESETTING MODEM – 0xFF - Unknown
systemMode	• System Acquisition Mode. – 0x00 - No service – 0x01 - AMPS – 0x02 - CDMA – 0x03 - GSM – 0x04 - HDR – 0x05 - WCDMA – 0x06 - GPS – 0x08 - WLAN – 0x09 - LTE – 0xFF - Unknown
imsRegState	• IMS Registration State. – 0x00 - NO SRV – 0x01 - IN PROG – 0x02 - FAILED – 0x03 - LIMITED – 0x04 - FULL SRV – 0xFF - Unknown

psState	• PS Attach State. – 0x00 - Attached – 0x01 - Detached – 0xFF - Unknown

8.425.2 Field Documentation

8.425.2.1 uint8_t nas_CommInfo::imsRegState

8.425.2.2 uint8_t nas_CommInfo::modemMode

8.425.2.3 uint8_t nas_CommInfo::psState

8.425.2.4 uint8_t nas_CommInfo::systemMode

8.425.2.5 int8_t nas_CommInfo::temperature

8.426 nas_CSGID Struct Reference

Data Fields

- uint16_t mcc
- uint16_t mnc
- uint8_t mncPcsDigits
- uint32_t id
- uint8_t rat

8.426.1 Detailed Description

Contain the CSGID.

Parameters

mcc	• MCC value. Range 0 to 999
mnc	• MNC value. Range 0 to 999
mncPcsDigits	• TRUE - MNC is a three-digit value; e.g., a reported value of 90 corresponds to an MNC value of 090 • FALSE - MNC is a two-digit value; e.g., a reported value of 90 corresponds to an MNC value of 90
id	• Closed subscriber group identifier.

rat	• Radio interface technology of the CSG network. Values: – 0x04 - RADIO_IF_GSM - GSM – 0x05 - RADIO_IF_UMTS - UMTS – 0x08 - RADIO_IF_LTE - LTE – 0x09 - RADIO_IF_TDSCDMA - TDS

8.426.2 Field Documentation

8.426.2.1 uint32_t nas_CSGID::id

8.426.2.2 uint16_t nas_CSGID::mcc

8.426.2.3 uint16_t nas_CSGID::mnc

8.426.2.4 uint8_t nas_CSGID::mncPcsDigits

8.426.2.5 uint8_t nas_CSGID::rat

8.427 nas_currentPLMN Struct Reference

Data Fields

- uint16_t MCC
- uint16_t MNC
- uint8_t netDescrLength
- uint8_t netDescr [255]

8.427.1 Detailed Description

This structure contains the current PLMN parameters

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

MCC	• mobile country code – A 16 bit representation of MCC – Range 0 to 999
MNC	• mobile network code – A 16 bit representation of MNC – Range 0 to 999
netDescrLength	• Length of Network description field • Defaults to zero

netDescr	• Network Description – optional string containing network name or description

8.427.2 Field Documentation

8.427.2.1 uint16_t nas_currentPLMN::MCC

8.427.2.2 uint16_t nas_currentPLMN::MNC

8.427.2.3 uint8_t nas_currentPLMN::netDescr[255]

8.427.2.4 uint8_t nas_currentPLMN::netDescrLength

8.428 nas_dataSrvCapabilities Struct Reference

Data Fields

- uint8_t dataCapabilitiesLen
- uint8_t dataCapabilities [32]

8.428.1 Detailed Description

This structure contains the data services capability

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

dataCapabilities-Len	• Length of data capabilities list • Defaults to zero
dataCapabilities	• List of data capabilities • Values: – 0x01 - GPRS – 0x02 - EDGE – 0x03 - HSDPA – 0x04 - HSUPA – 0x05 - WCDMA – 0x06 - CDMA – 0x07 - EV-DO Rev0 – 0x08 - EV-DO RevA – 0x09 - GSM – 0x0A - EV-DO Rev B – 0x0B - LTE – 0x0C - HSDPA+ – 0x0D - DC-HSDPA+

8.428.2 Field Documentation

8.428.2.1 uint8_t nas_dataSrvCapabilities::dataCapabilities[32]

8.428.2.2 uint8_t nas_dataSrvCapabilities::dataCapabilitiesLen

8.429 nas_DataStatusDetail Struct Reference

Data Fields

- uint32_t IPAddress
- uint8_t LastErrCode

8.429.1 Detailed Description

This structure contains data status detail

Parameters

IPAddress	• IP Address
	• 0xABCDEFGH - AB.CD.EF.GH
	• Example:
	  – 0x12345678 - 18.52.86.120
	  0x12=18 0x34=52 0x56=86 0x78=120
	• 0xFFFFFFFF - NA

LastErrCode	• MIP Error code – 0x00 - MIP_RRP_CODE_SUCCESS – 0x01 - MIP_RRP_CODE_SUCCESS_NO_SIM_BINDINGS – 0x40 - MIP_RRP_CODE_FAILURE_FA_REASON_UNSPECIFIED – 0x41 - MIP_RRP_CODE_FAILURE_FA_ADMIN_PROHIBITED – 0x42 - MIP_RRP_CODE_FAILURE_FA_INSUFFICIENT_RESOURCES – 0x43 - MIP_RRP_CODE_FAILURE_FA_MOBILE_NODE_FAILED_AUTH – 0x44 - MIP_RRP_CODE_FAILURE_FA_HA_FAILED_AUTH – 0x45 - MIP_RRP_CODE_FAILURE_FA_REQUESTED_LIFETIME_TOO_LONG – 0x46 - MIP_RRP_CODE_FAILURE_FA_MALFORMED_REQUEST – 0x47 - MIP_RRP_CODE_FAILURE_FA_MALFORMED_REPLY – 0x48 - MIP_RRP_CODE_FAILURE_FA_ENCAPSULATION_UNAVAILABLE – 0x49 - MIP_RRP_CODE_FAILURE_FA_VJHC_UNAVAILABLE – 0x4A - MIP_RRP_CODE_FAILURE_FA_CANT_REV_TUN – 0x4B - MIP_RRP_CODE_FAILURE_FA_MUST_REV_TUN – 0x4C - MIP_RRP_CODE_FAILURE_FA_BAD_TTL – 0x4D - MIP_RRP_CODE_FAILURE_INVALID_COA – 0x4F - MIP_RRP_CODE_FAILURE_FA_DELIVERY_STYLE_NOT_SUPPORTED – 0x59 - MIP_RRP_CODE_FAILURE_FA_VS_REASON – 0x61 - MIP_RRP_CODE_FAILURE_MISSING_NAI – 0x62 - MIP_RRP_CODE_FAILURE_MISSING_HA_ADDR – 0x63 - MIP_RRP_CODE_FAILURE_MISSING_HOMEADDR – 0x68 - MIP_RRP_CODE_FAILURE_UNKNOWN_CHALLENGE – 0x69 - MIP_RRP_CODE_FAILURE_MISSING_CHALLENGE – 0x6A - MIP_RRP_CODE_FAILURE_STALE_CHALLENGE – 0x6B - MIP_RRP_CODE_FAILURE_MISSING_MN_FA – 0x80 - MIP_RRP_CODE_FAILURE_HA_REASON_UNSPECIFIED – 0x81 - MIP_RRP_CODE_FAILURE_HA_ADMIN_PROHIBITED – 0x82 - MIP_RRP_CODE_FAILURE_HA_INSUFFICIENT_RESOURCES – 0x83 - MIP_RRP_CODE_FAILURE_HA_MOBILE_NODE_FAILED_AUTH – 0x84 - MIP_RRP_CODE_FAILURE_HA_FA_FAILED_AUTH – 0x85 - MIP_RRP_CODE_FAILURE_HA_REG_ID_MISMATCH – 0x86 - MIP_RRP_CODE_FAILURE_HA_MALFORMED_REQUEST – 0x88 - MIP_RRP_CODE_FAILURE_UNKNOWN_HA – 0x89 - MIP_RRP_CODE_FAILURE_HA_CANT_REV_TUN – 0x8A - MIP_RRP_CODE_FAILURE_HA_MUST_REV_TUN – 0x8B - MIP_RRP_CODE_FAILURE_HA_ENCAPSULATION_UNAVAILABLE – 0x8F - MIP_RRP_CODE_FAILURE_REDIRECTED_HA – 0x90 - MIP_RRP_CODE_FAILURE_HA_BAD_AAA_AUTH – 0xFF - NA

8.429.2 Field Documentation

8.429.2.1 uint32_t nas_DataStatusDetail::IPAddress

8.429.2.2 uint8_t nas_DataStatusDetail::LastErrCode

8.430 nas_detailSvcInfo Struct Reference

Data Fields

- uint8_t srvStatus
- uint8_t srvCapability
- uint8_t hdrSrvStatus
- uint8_t hdrHybrid
- uint8_t isSysForbidden

8.430.1 Detailed Description

This structure contains Detailed Service information

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

srvStatus	• Service status • Values: – 0x00 - No service – 0x01 - Limited service – 0x02 - Service available – 0x03 - Limited regional service – 0x04 - MS in power save or deep sleep
srvCapability	• System's service capability • Values: – 0x00 - No Service – 0x01 - Circuit-switched only – 0x02 - Packet-switched only – 0x03 - Circuit-switched and packet-switched – 0x04 - MS found the right system but not yet registered/attached
hdrSrvStatus	• HDR service status • Values: – 0x00 - No service – 0x01 - Limited service – 0x02 - Service available – 0x03 - Limited regional service – 0x04 - MS in power save or deep sleep
hdrHybrid	• HDR hybrid information • Values: – 0x00 - System is not hybrid – 0x01 - System is hybrid

isSysForbidden	• Forbidden system information • Values: – 0x00 - System is not a forbidden system – 0x01 - System is a forbidden system

8.430.2 Field Documentation

8.430.2.1 uint8_t nas_detailSvcInfo::hdrHybrid

8.430.2.2 uint8_t nas_detailSvcInfo::hdrSrvStatus

8.430.2.3 uint8_t nas_detailSvcInfo::isSysForbidden

8.430.2.4 uint8_t nas_detailSvcInfo::srvCapability

8.430.2.5 uint8_t nas_detailSvcInfo::srvStatus

8.431 nas_DeviceConfigDetail Struct Reference

Data Fields

- uint8_t Technology
- uint8_t QLIC
- uint8_t Chipset
- uint8_t HWVersion

8.431.1 Detailed Description

This structure contains device configure detail.

Parameters

Technology	• Current technology in use – 0x00 - 1x RTT – 0x01 - EVDO Rev 0 – 0x02 - EVDO Rev A – 0xFF - NA
QLIC	• Quasi Linear Interference Cancellation – 0x00 - Not supported – 0x01 - Supported
Chipset	• Qualcomm platform – 0x4E - MDM6200 – 0x4F - MDM6600 – 0xFF - NA

HWVersion	• Hardware version – 0x00 - BSHWREV0 – 0x01 - BSHWREV1 – 0x02 - BSHWREV2 – 0x03 - BSHWREV3 – 0x04 - BSHWREVMAX – 0xFF - BSHWREVUNKNOWN

8.431.2 Field Documentation

8.431.2.1 uint8_t nas_DeviceConfigDetail::Chipset

8.431.2.2 uint8_t nas_DeviceConfigDetail::HWVersion

8.431.2.3 uint8_t nas_DeviceConfigDetail::QLIC

8.431.2.4 uint8_t nas_DeviceConfigDetail::Technology

8.432 nas_dirNum Struct Reference

Data Fields

- uint8_t dirNumLen
- uint8_t dirNum [255]

8.432.1 Detailed Description

This structure contains the parameters for Directory Number Information

Parameters

dirNumLen	• Number of sets of the following elements: – dir_num • If zero(0), then no information follows.
dirNum	• Directory number in ASCII characters.

8.432.2 Field Documentation

8.432.2.1 uint8_t nas_dirNum::dirNum[255]

8.432.2.2 uint8_t nas_dirNum::dirNumLen

8.433 nas_DRCParams Struct Reference

Data Fields

- uint8_t DRCValue
- uint8_t DRCCover

8.433.1 Detailed Description

This structure contains DRC information.

Parameters

DRCValue	• Current Data Rate Channel
DRCCover	• Current Data Rate Channel cover

8.433.2 Field Documentation

8.433.2.1 uint8_t nas_DRCParams::DRCCover

8.433.2.2 uint8_t nas_DRCParams::DRCValue

8.434 nas_ecioListElement Struct Reference

Data Fields

- int16_t ecio
- uint8_t radioIf

8.434.1 Detailed Description

This structure contains the ECIO Information

Parameters

ecio	• ECIO value in dBm
radioIf	• Radio interface technology of the signal being measured – 0x00 – RADIO_IF_NO_SVC – None (no service) – 0x01 – RADIO_IF_CDMA_1X – cdma2000® 1X – 0x02 – RADIO_IF_CDMA_1XEVDO – cdma2000 HRPD (1xEV-DO) – 0x03 – RADIO_IF_AMPS – AMPS – 0x04 – RADIO_IF_GSM – GSM – 0x05 – RADIO_IF_UMTS – UMTS

8.434.2 Field Documentation

8.434.2.1 int16_t nas_ecioListElement::ecio

8.434.2.2 uint8_t nas_ecioListElement::radioIf

8.435 nas_ECIOThresh Struct Reference

Data Fields

- uint8_t ECIOThresListLen
- int16_t * pECIOThresList

8.435.1 Detailed Description

This sturcture contain ECIO threshold list.

Parameters

ECIOThresList-Len	• Length of the ECIO threshold list parameter to follow
pECIOThresList	• Sequence of thresholds delimiting ECIO event reporting bands • Every time a new ECIO value crosses a threshold value, an event report indication message with the new ECIO value is sent to the requesting control point. For this field – Each ECIO threshold value is a signed 2 byte value – Each ECIO threshold value increments in negative 0.5 dB, e.g., an ECIO threshold value of 2 means -1dB – Maximum number of threshold values is 16 – At least one value must be specified – Threshold values specified above are used for all RATs

8.435.2 Field Documentation

8.435.2.1 uint8_t nas_ECIOThresh::ECIOThresListLen

8.435.2.2 int16_t* nas_ECIOThresh::pECIOThresList

8.436 nas_EmerModeTlv Struct Reference

Data Fields

- uint8_t EmerMode
- uint8_t TlvPresent

8.436.1 Detailed Description

Contain the emergency Mode parameters for system selection preferences.

Parameters

EmerMode	• Emergency Mode • Values: – 0 - OFF (normal) – 1 - ON (Emergency)
TlvPresent	• Tlv Present

8.436.2 Field Documentation

8.436.2.1 uint8_t nas_EmerModeTlv::EmerMode

8.436.2.2 uint8_t nas_EmerModeTlv::TlvPresent

8.437 nas_errorRateListElement Struct Reference

Data Fields

- uint16_t errorRate
- uint8_t radioIf

8.437.1 Detailed Description

This structure contains the Error Rate Information

Parameters

errorRate	• Error rate value corresponds to the RAT that is currently registered. – For CDMA, the error rate reported is Frame Error Rate: * Valid error rate values between 1 and 10000 are returned to indicate percentage, e.g., a value of 300 means the error rate is 3% * A value of 0xFFFF indicates that the error rate is unknown or unavailable – For HDR, the error rate reported is Packet Error Rate: * Valid error rate values between 1 and 10000 are returned to indicate percentage, e.g., a value of 300 means the error rate is 3% * A value of 0xFFFF indicates that the error rate is unknown or unavailable – For GSM, the error rate reported is Bit Error Rate: * Valid values are 0, 100, 200, 300, 400, 500, 600, and 700 The reported value divided by 100 gives the error rate as an RxQual value, e.g.,a value of 300 represents an RxQual value of 3. * A value of 25500 indicates No Data – For WCDMA, the error rate reported is Block Error Rate (BLER): * Valid values are 1 to 10000 * The reported value divided by 100 provides the error rate in percentages, e.g., a value of 300 represents a BLER of 3%. * A value of 0 indicates No Data

radioIf	• Radio interface technology of the signal being measured – 0x00 – RADIO_IF_NO_SVC – None (no service) – 0x01 – RADIO_IF_CDMA_1X – cdma2000® 1X – 0x02 – RADIO_IF_CDMA_1XEVDO – cdma2000 HRPD (1xEV-DO) – 0x03 – RADIO_IF_AMPS – AMPS – 0x04 – RADIO_IF_GSM – GSM – 0x05 – RADIO_IF_UMTS – UMTS

8.437.2 Field Documentation

8.437.2.1 uint16_t nas_errorRateListElement::errorRate

8.437.2.2 uint8_t nas_errorRateListElement::radioIf

8.438 nas_GERANInfo Struct Reference

Data Fields

- uint32_t cellID
- uint8_t plmn [3]
- uint16_t lac
- uint16_t arfcn
- uint8_t bsic
- uint32_t timingAdvance
- uint16_t rxLev
- uint8_t nmrInst
- nas_nmrCellInfo insNmrCellInfo [255]

8.438.1 Detailed Description

This structure contains information about the GERAN Network.

Parameters

cellID	• Cell ID. • 0xFFFFFFFF indicates cell ID information is not present.
plmn[NAS_PLMN_LENGTH]	• MCC/MNC information coded as octet 3, 4, and 5. • This field is ignored when nmrCellID is not present.
lac	• Location area code. • This field is ignored when nmrCellID is not present. – 0xFFFF - Not Available
arfcn	• Absolute RF channel number. – 0xFFFF - Not Available

bsic	• Base station identity code. – 0xFF - Not Available
timingAdvance	• Measured delay (in bit periods; 1 bit period = 48/13 microsecond) of access burst transmission on RACH or PRACH to the expected signal from an MS at zero distance under static channel conditions. – 0xFFFFFFFF - Not Available
rxLev	• Serving Cell Rx measurement. • Values range between 0 and 63. • Mapped to a measured signal level: – Rxlev 0 is a signal strength less than -110 dBm – Rxlev 1 is -110 dBm to -109 dBm – Rxlev 2 is -109 dBm to -108 dBm – ... – Rxlev 62 is -49 dBm to -48 dBm – Rxlev 63 is greater than -48 dBm – 0xFFFF - Not Available
nmrInst	• Provides the number of set of instances which follow. • If 0(zero), then no information follows it.
insNmrCellInfo[NAS_MAX_DESCRIPTION_LENGTH]	• See nas_nmrCellInfo for more information.

8.438.2 Field Documentation

8.438.2.1 uint16_t nas_GERANInfo::arfcn

8.438.2.2 uint8_t nas_GERANInfo::bsic

8.438.2.3 uint32_t nas_GERANInfo::cellID

8.438.2.4 nas_nmrCellInfo nas_GERANInfo::insNmrCellInfo[255]

8.438.2.5 uint16_t nas_GERANInfo::lac

8.438.2.6 uint8_t nas_GERANInfo::nmrInst

8.438.2.7 uint8_t nas_GERANInfo::plmn[3]

8.438.2.8 uint16_t nas_GERANInfo::rxLev

8.438.2.9 uint32_t nas_GERANInfo::timingAdvance

8.439 nas_geranInstInfo Struct Reference

Data Fields

- uint16_t geranArfcn
- uint8_t geranBsicNcc
- uint8_t geranBsicBcc
- int16_t geranRssi

8.439.1 Detailed Description

This structure contains information about the GERAN Instances in UMTS Network.

Parameters

geranArfcn	• Absolute RF channel number.
geranBsicNcc	• Base station identity code network color code. • 0xFF indicates information is not present.
geranBsicBcc	• Base station identity code base station color code. • 0xFF indicates information is not present.
geranRssi	• Received signal strength indicator.

8.439.2 Field Documentation

8.439.2.1 uint16_t nas_geranInstInfo::geranArfcn

8.439.2.2 uint8_t nas_geranInstInfo::geranBsicBcc

8.439.2.3 uint8_t nas_geranInstInfo::geranBsicNcc

8.439.2.4 int16_t nas_geranInstInfo::geranRssi

8.440 nas_gsmCellInfo Struct Reference

Data Fields

- uint16_t arfcn
- uint8_t band1900
- uint8_t cellIdValid
- uint8_t bsicId
- int16_t rssi
- int16_t srxlev

8.440.1 Detailed Description

This structure contains information about the GSM Cell.

Parameters

arfcn	• GSM frequency being reported. • Range: 0 to 1023.
band1900	• Band indicator for the GSM ARFCN • This field is only valid if arfcn is in the overlapping region. • If TRUE and the cell is in the overlapping region, the ARFCN is on the 1900 band. • If FALSE, it is on the 1800 band.
cellIdValid	• Flag indicating whether the base station identity code ID is valid.
bsicId	• Base station identity code ID, including base station color code and network color code. • The lower 6 bits can be set to any value.
rssi	• Measured RSSI value in 1/10 dB. • Range: -200.0 dB to 0
srxlev	• Cell selection Rx level (Srxlev) value. • Range: -128 to 128. • This field is only valid when ue_in_idle is TRUE.

8.440.2 Field Documentation

8.440.2.1 uint16_t nas_gsmCellInfo::arfcn

8.440.2.2 uint8_t nas_gsmCellInfo::band1900

8.440.2.3 uint8_t nas_gsmCellInfo::bsicId

8.440.2.4 uint8_t nas_gsmCellInfo::cellIdValid

8.440.2.5 int16_t nas_gsmCellInfo::rssi

8.440.2.6 int16_t nas_gsmCellInfo::srxlev

8.441 nas_GSMRSSIThresh Struct Reference

Data Fields

- uint8_t GSMRSSIThreshListLen
- int16_t * pGSMRSSIThreshList

8.441.1 Detailed Description

This structure contains GSM RSSI threshold related parameters.

Parameters

GSMRSSI-ThreshListLen	• Length of the GSM RSSI threshold list parameter to follow
pGSMRSSI-ThreshList	• Array of RSSI thresholds (in units of 0.1 dBm) • Maximum of 32 values • Range for RSSI values: -111 to -48 (in dBm)

8.441.2 Field Documentation

8.441.2.1 uint8_t nas_GSMRSSIThresh::GSMRSSIThreshListLen

8.441.2.2 int16_t* nas_GSMRSSIThresh::pGSMRSSIThreshList

8.442 nas_GSMSrvStatusInfo Struct Reference

Data Fields

- uint8_t srvStatus
- uint8_t trueSrvStatus
- uint8_t isPrefDataPath

8.442.1 Detailed Description

Structure for storing the service status information for GSM, WCDMA and LTE networks.

Parameters

srvStatus	• Service status of the system. – 0x00 - No service – 0x01 - Limited service – 0x02 - Service – 0x03 - Limited regional service – 0x04 - Power save – 0xFF - Not Available
trueSrvStatus	• True service status of the system. • Not applicable to CDMA/HDR. – 0x00 - No service – 0x01 - Limited service – 0x02 - Service – 0x03 - Limited regional service – 0x04 - Power save – 0xFF - Not Available

isPrefDataPath	• Whether the RAT is the preferred data path. – 0x00 - Not preferred – 0x01 - Preferred – 0xFF - Not Available

8.442.2 Field Documentation

8.442.2.1 uint8_t nas_GSMSrvStatusInfo::isPrefDataPath

8.442.2.2 uint8_t nas_GSMSrvStatusInfo::srvStatus

8.442.2.3 uint8_t nas_GSMSrvStatusInfo::trueSrvStatus

8.443 nas_GSMSysInfo Struct Reference

Data Fields

- nas_sysInfoCommon sysInfoGSM
- uint8_t lacValid
- uint16_t lac
- uint8_t cellIdValid
- uint32_t cellId
- uint8_t regRejectInfoValid
- uint8_t rejectSrvDomain
- uint8_t rejCause
- uint8_t networkIdValid
- uint8_t MCC [3]
- uint8_t MNC [3]
- uint8_t egprsSuppValid
- uint8_t egprsSupp
- uint8_t dtmSuppValid
- uint8_t dtmSupp

8.443.1 Detailed Description

Structure for storing the GSM System Information.

Parameters

sysInfoGSM	• See nas_sysInfoCommon for more information.
lacValid	• Indicates whether the location area code is valid.. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available

lac	• Location area code. • Only applies to 3GPP. – 0xFFFF - Not Available
cellIdValid	• Indicates whether the cell ID is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
cellId	• Cell ID. – 0xFFFFFFFF - Not Available
regRejectInfo-Valid	• Indicates whether the registration reject information is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
rejectSrvDomain	• Type of service domain in which the registration is rejected. – 0x00 - SYS_SRV_DOMAIN_NO_SRV - No service – 0x01 - Circuit-switched only – 0x02 - Packet-switched only – 0x03 - Circuit-switched and packet-switched – 0x04 - Camped – 0xFF - Not Available
rejCause	• Reject cause values sent are specified in [3GPP TS 24.008, Section 10.5.3.6 and 10.5.5.14] – 0xFF - Not Available
networkIdValid	• Indicates whether the network ID is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
MCC[NAS_PLM-N_LENGTH]	• Mobile Country Code. • MCC digits in ASCII characters
MNC[NAS_PLM-N_LENGTH]	• Mobile Network Code. • MNC digits in ASCII characters • An unused byte is set to 0xFF. • In case of two-digit MNC values, the third (unused) digit is set to 0xFF. For example, 15 (a two-digit MNC) is reported using the byte stream 0x31 0x35 0xFF.

egprsSuppValid	• Indicates whether the EGPRS support is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
egprsSupp	• EGPRS support indication. • Only applicable for GSM. – 0x00 - Not available – 0x01 - Available – 0xFF - Not Available
dtmSuppValid	• Indicates whether Dual Transfer mode support is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
dtmSupp	• Dual Transfer mode support indication. • Only applicable for GSM. – 0x00 - Not available – 0x01 - Available – 0xFF - Not Available

8.443.2 Field Documentation

8.443.2.1 uint32_t nas_GSMSysInfo::cellId

8.443.2.2 uint8_t nas_GSMSysInfo::cellIdValid

8.443.2.3 uint8_t nas_GSMSysInfo::dtmSupp

8.443.2.4 uint8_t nas_GSMSysInfo::dtmSuppValid

8.443.2.5 uint8_t nas_GSMSysInfo::egprsSupp

8.443.2.6 uint8_t nas_GSMSysInfo::egprsSuppValid

8.443.2.7 uint16_t nas_GSMSysInfo::lac

8.443.2.8 uint8_t nas_GSMSysInfo::lacValid

8.443.2.9 uint8_t nas_GSMSysInfo::MCC[3]

8.443.2.10 uint8_t nas_GSMSysInfo::MNC[3]

8.443.2.11 uint8_t nas_GSMSysInfo::networkIdValid

8.443.2.12 uint8_t nas_GSMSysInfo::regRejectInfoValid

8.443.2.13 uint8_t nas_GSMSysInfo::rejCause

8.443.2.14 uint8_t nas_GSMSysInfo::rejectSrvDomain

8.443.2.15 nas_sysInfoCommon nas_GSMSysInfo::sysInfoGSM

8.444 nas_GWAcqOrderPrefTlv Struct Reference

Data Fields

- uint32_t GWAcqOrderPref
- uint8_t TlvPresent

8.444.1 Detailed Description

Contain the GSM/WCDMA Acquisition order preference for system selection preferences.

Parameters

GWAcqOrder-Pref	• Parameter indicating GSM/WCDMA Acquisition order Preference • Values: – 0x00 - Automatic – 0x01 - GSM then WCDMA – 0x02 - WCDMA then GSM
TlvPresent	• Tlv Present

8.444.2 Field Documentation

8.444.2.1 uint32_t nas_GWAcqOrderPrefTlv::GWAcqOrderPref

8.444.2.2 uint8_t nas_GWAcqOrderPrefTlv::TlvPresent

8.445 nas_HDRECIOThresh Struct Reference

Data Fields

- uint8_t HDRECIOThreshListLen
- int16_t * pHDRECIOThreshList

8.445.1 Detailed Description

This structure contains HDR ECIO threshold related parameters.

Parameters

HDRECIO-ThreshListLen	• Length of the HDR ECIO threshold list parameter to follow

pHDRECIO-ThreshList	• Array of ECIO thresholds (in units of 0.1 dB) • Maximum of 32 values • Range for ECIO values: -31.5 to 0 (in dB).

8.445.2 Field Documentation

8.445.2.1 uint8_t nas_HDRECIOThresh::HDRECIOThreshListLen

8.445.2.2 int16_t* nas_HDRECIOThresh::pHDRECIOThreshList

8.446 nas_HDRIOThresh Struct Reference

Data Fields

- uint8_t HDRIOThreshListLen
- int16_t * pHDRIOThreshList

8.446.1 Detailed Description

This structure contains HDR IO threshold related parameters.

Parameters

HDRIOThresh-ListLen	• Length of the HDR IO threshold list parameter to follow
pHDRIOThresh-List	• Array of IO thresholds (in units of 0.1 dBm) • Maximum of 32 values • Range for IO values: -128 to -13 (in dBm).

8.446.2 Field Documentation

8.446.2.1 uint8_t nas_HDRIOThresh::HDRIOThreshListLen

8.446.2.2 int16_t* nas_HDRIOThresh::pHDRIOThreshList

8.447 nas_HDRPersonality_Ind_Data Struct Reference

Data Fields

- uint16_t * pCurrentPersonality
- uint8_t * pPersonalityListLength
- nas_protocolSubtypeElement * pProtocolSubtypeElement

8.447.1 Detailed Description

Elements for HDR Personality indication.

Parameters

pCurrent-Personality	• Current active personality index.
pPersonalityList-Length	• Number of Personality Protocol Subtype contains in this response.
pProtocol-SubtypeElement	• See nas_protocolSubtypeElement for more information.

8.447.2 Field Documentation

8.447.2.1 uint16_t∗ nas_HDRPersonality_Ind_Data::pCurrentPersonality

8.447.2.2 uint8_t∗ nas_HDRPersonality_Ind_Data::pPersonalityListLength

8.447.2.3 nas_protocolSubtypeElement∗ nas_HDRPersonality_Ind_Data::pProtocolSubtypeElement

8.448 nas_HDRRSSIThresh Struct Reference

Data Fields

- uint8_t HDRRSSIThreshListLen
- int16_t ∗ pHDRRSSIThreshList

8.448.1 Detailed Description

This structure contains HDR RSSI threshold related parameters.

Parameters

HDRRSSI-ThreshListLen	• Length of the HDR RSSI threshold list parameter to follow
pHDRRSSI-ThreshList	• Array of RSSI thresholds (in units of 0.1 dBm) • Maximum of 32 values. • Range for RSSI values: -118 to -13 (in dBm).

8.448.2 Field Documentation

8.448.2.1 uint8_t nas_HDRRSSIThresh::HDRRSSIThreshListLen

8.448.2.2 int16_t∗ nas_HDRRSSIThresh::pHDRRSSIThreshList

8.449 nas_HDRSINRThresh Struct Reference

Data Fields

- uint8_t HDRSINRThresListLen
- uint8_t * pHDRSINRThresList

8.449.1 Detailed Description

This structure contains HDR SINR threshold list.

Parameters

HDRSINRThres-ListLen	• Length of the HDR SINR threshold list parameter to follow
pHDRSINR-ThresList	• Sequence of thresholds delimiting SINR event reporting bands • Every time a new SINR value crosses a threshold value, an event report indication message with the new SINR value is sent to the requesting control point. For this field – SINR is reported only for HDR – Each SINR threshold value is an unsigned 1 byte value – Maximum number of threshold values is 16 – At least one value must be specified

8.449.2 Field Documentation

8.449.2.1 uint8_t nas_HDRSINRThresh::HDRSINRThresListLen

8.449.2.2 uint8_t* nas_HDRSINRThresh::pHDRSINRThresList

8.450 nas_HDRSINRThreshold Struct Reference

Data Fields

- uint8_t HDRSINRThreshListLen
- uint16_t * pHDRSINRThreshList

8.450.1 Detailed Description

This structure contains HDR SINR threshold related parameters.

Parameters

HDRSINR-ThreshListLen	• Length of the HDR ECIO threshold list parameter to follow
pHDRSINR-ThreshList	• Array of SINR level thresholds (in units of 1) • maximum of 32 values. • Valid levels are 0 to 8 – 0x00 - SINR_LEVEL_0 is -9 dB – 0x01 - SINR_LEVEL_1 is -6 dB – 0x02 - SINR_LEVEL_2 is -4.5 dB – 0x03 - SINR_LEVEL_3 is -3 dB – 0x04 - SINR_LEVEL_4 is -2 dB – 0x05 - SINR_LEVEL_5 is +1 dB – 0x06 - SINR_LEVEL_6 is +3 dB – 0x07 - SINR_LEVEL_7 is +6 dB – 0x08 - SINR_LEVEL_8 is +9 dB

8.450.2 Field Documentation

8.450.2.1 uint8_t nas_HDRSINRThreshold::HDRSINRThreshListLen

8.450.2.2 uint16_t* nas_HDRSINRThreshold::pHDRSINRThreshList

8.451 nas_HDRSysInfo Struct Reference

Data Fields

- nas_sysInfoCommon sysInfoHDR
- uint8_t isSysPrlMatchValid
- uint8_t isSysPrlMatch
- uint8_t hdrPersonalityValid
- uint8_t hdrPersonality
- uint8_t hdrActiveProtValid
- uint8_t hdrActiveProt
- uint8_t is856SysIdValid
- uint8_t is856SysId [16]

8.451.1 Detailed Description

Structure for storing the HDR System Information.

Parameters

sysInfoHDR	• See nas_sysInfoCommon for more information.

isSysPrlMatch-Valid	• Indicates whether the system PRL match is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
isSysPrlMatch	• Indicates whether the system is in a PRL. • Only applies to CDMA/HDR. – 0x00 - System is not in a PRL – 0x01 - System is in a PRL – 0xFF - Not Available • If the system is not in a PRL, roam_status carries the value from the default roaming indicator in the PRL. • If the system is in a PRL, roam_status is set to the value based on the standard specification.
hdrPersonality-Valid	• Indicates whether the HDR personality is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
hdrPersonality	• HDR personality information. • Only applicable for HDR. – 0x00 - None – 0x02 - HRPD – 0x03 - eHRPD – 0xFF - Not Available
hdrActiveProt-Valid	• Indicates whether the HDR active protocol revision information is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
hdrActiveProt	• HDR active protocol revision information . • Only applicable for HDR. – 0x00 - None – 0x02 - HDR Rel 0 – 0x03 - HDR Rel A – 0x04 - HDR Rel B – 0xFF - Not Available
is856SysIdValid	• Indicates whether the IS-856 system ID is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available

is856SysId[SLQS_SYSTEM_ID_SIZE]	• IS-856 system ID. • Only applicable for HDR.

8.451.2 Field Documentation

8.451.2.1 uint8_t nas_HDRSysInfo::hdrActiveProt

8.451.2.2 uint8_t nas_HDRSysInfo::hdrActiveProtValid

8.451.2.3 uint8_t nas_HDRSysInfo::hdrPersonality

8.451.2.4 uint8_t nas_HDRSysInfo::hdrPersonalityValid

8.451.2.5 uint8_t nas_HDRSysInfo::is856SysId[16]

8.451.2.6 uint8_t nas_HDRSysInfo::is856SysIdValid

8.451.2.7 uint8_t nas_HDRSysInfo::isSysPrlMatch

8.451.2.8 uint8_t nas_HDRSysInfo::isSysPrlMatchValid

8.451.2.9 nas_sysInfoCommon nas_HDRSysInfo::sysInfoHDR

8.452 nas_homeSIDNID Struct Reference

Data Fields

- uint8_t numInstances
- nas_sidNid SidNid [255]

8.452.1 Detailed Description

This structure contains Home SID/NID

Parameters

numInstances	• Number of sets of the following elements:
	  – sid
	  – nid
	• If zero(0), then no information follows.

SidNid	• See nas_sidNid for more information

8.452.2 Field Documentation

8.452.2.1 uint8_t nas_homeSIDNID::numInstances

8.452.2.2 nas_sidNid nas_homeSIDNID::SidNid[255]

8.453 nas_infoInterFreq Struct Reference

Data Fields

- uint16_t earfcn
- uint8_t threshXLow
- uint8_t threshXHigh
- uint8_t cell_resel_priority
- uint8_t cells_len
- nas_cellParams cellInterFreqParams [255]

8.453.1 Detailed Description

This structure contains information about the inter-frequency.

Parameters

earfcn	• E-UTRA absolute radio frequency channel number of the serving cell. • Range: 0 to 65535.
threshXLow	• Cell Srxlev low threshold. • Range: 0 to 31. • When the serving cell does not exceed thresh_serving_low, the value of an evaluated cell must be smaller than this value to be considered for re-selection.
threshXHigh	• Cell Srxlev high threshold. • Range: 0 to 31. • When the serving cell exceeds thresh_serving_low, the value of an evaluated cell must be greater than this value to be considered for re-selection.
cell_resel_priority	• Cell re-selection priority • Range: 0 to 7. • This field is only valid when ue_in_idle is TRUE.
cells_len	• Provides the number of set of cell params.
cellInterFreqParams[NAS_MAX_DESCRIPTION_LENGTH]	• See nas_cellParams for more information.

8.453.2 Field Documentation

8.453.2.1 uint8_t nas_infoInterFreq::cell_resel_priority

8.453.2.2 nas_cellParams nas_infoInterFreq::cellInterFreqParams[255]

8.453.2.3 uint8_t nas_infoInterFreq::cells_len

8.453.2.4 uint16_t nas_infoInterFreq::earfcn

8.453.2.5 uint8_t nas_infoInterFreq::threshXHigh

8.453.2.6 uint8_t nas_infoInterFreq::threshXLow

8.454 nas_IOThresh Struct Reference

Data Fields

- uint8_t IOThresListLen
- int32_t * pIOThresList

8.454.1 Detailed Description

This structure contains IO threshold list.

Parameters

IOThresListLen	• Length of the IO threshold list parameter to follow
pIOThresList	• Sequence of thresholds delimiting IO event reporting bands • Every time a new IO value crosses a threshold value, an event report indication message with the new IO value is sent to the requesting control point. For this field – IO is applicable only for HDR – Each IO threshold value is a signed 4 byte value – Maximum number of threshold values is 16 – At least one value must be specified

8.454.2 Field Documentation

8.454.2.1 uint8_t nas_IOThresh::IOThresListLen

8.454.2.2 int32_t* nas_IOThresh::pIOThresList

8.455 nas_LTEBandPrefTlv Struct Reference

Data Fields

- uint64_t LTEBandPref
- uint8_t TlvPresent

8.455.1 Detailed Description

Contain the LTE Band Preference for system selection preferences.

Parameters

LTEBandPref	• Bit mask representing the LTE band preference • Bit Values – Bit 0 - E-UTRA Operating Band 1 – Bit 1 - E-UTRA Operating Band 2 – Bit 2 - E-UTRA Operating Band 3 – Bit 3 - E-UTRA Operating Band 4 – Bit 4 - E-UTRA Operating Band 5 – Bit 5 - E-UTRA Operating Band 6 – Bit 6 - E-UTRA Operating Band 7 – Bit 7 - E-UTRA Operating Band 8 – Bit 8 - E-UTRA Operating Band 9 – Bit 9 - E-UTRA Operating Band 10 – Bit 10 - E-UTRA Operating Band 11 – Bit 11 - E-UTRA Operating Band 12 – Bit 12 - E-UTRA Operating Band 13 – Bit 13 - E-UTRA Operating Band 14 – Bit 16 - E-UTRA Operating Band 17 – Bit 17 - E-UTRA Operating Band 18 – Bit 18 - E-UTRA Operating Band 19 – Bit 19 - E-UTRA Operating Band 20 – Bit 20 - E-UTRA Operating Band 21 – Bit 22 - E-UTRA Operating Band 23 – Bit 23 - E-UTRA Operating Band 24 – Bit 24 - E-UTRA Operating Band 25 – Bit 25 - E-UTRA Operating Band 26 – Bit 27 - E-UTRA Operating Band 28 – Bit 28 - E-UTRA Operating Band 29 – Bit 29 - E-UTRA Operating Band 32 – Bit 32 - E-UTRA Operating Band 33 – Bit 33 - E-UTRA Operating Band 34 – Bit 34 - E-UTRA Operating Band 35 – Bit 35 - E-UTRA Operating Band 36 – Bit 36 - E-UTRA Operating Band 37 – Bit 37 - E-UTRA Operating Band 38 – Bit 38 - E-UTRA Operating Band 39 – Bit 39 - E-UTRA Operating Band 40 – Bit 40 - E-UTRA Operating Band 41 – Bit 41 - E-UTRA Operating Band 42 – Bit 42 - E-UTRA Operating Band 43 – Bit 60 - E-UTRA Operating Band 125 – All other bits are reserved
TlvPresent	• Tlv Present

8.455.2 Field Documentation

8.455.2.1 uint64_t nas_LTEBandPrefTlv::LTEBandPref

8.455.2.2 uint8_t nas_LTEBandPrefTlv::TlvPresent

8.456 nas_lteEARFCN Struct Reference

Data Fields

- uint8_t status
- uint32_t earfcn0
- uint32_t earfcn1

8.456.1 Detailed Description

This structure contains LTE EARFCN infromation.

Parameters

status	• 0 - Disable • 1 - Enable
earfcn0	• Primary DL EARFCN to which the UE is locked
earfcn1	• Secondary DL EARFCN to which the UE is locked • Note : Make earfcn1 value equal to earfcn0 if only one EARFCN is desired.

8.456.2 Field Documentation

8.456.2.1 uint32_t nas_lteEARFCN::earfcn0

8.456.2.2 uint32_t nas_lteEARFCN::earfcn1

8.456.2.3 uint8_t nas_lteEARFCN::status

8.457 nas_lteGsmCellInfo Struct Reference

Data Fields

- uint8_t cellReselPriority
- uint8_t threshGsmHigh
- uint8_t threshGsmLow
- uint8_t nccPermitted
- uint8_t cells_len
- nas_gsmCellInfo GsmCellInfo [255]

8.457.1 Detailed Description

This structure contains information about the LTE GSM Cell.

Parameters

cellReselPriority	• Priority of this frequency group. • Range: 0 to 7. • This field is only valid when ue_in_idle is TRUE.
threshGsmHigh	• Reselection threshold for high priority layers. • Range: 0 to 31. • This field is only valid when ue_in_idle is TRUE.
threshGsmLow	• Reselection threshold for low priority layers. • Range: 0 to 31. • This field is only valid when ue_in_idle is TRUE.
nccPermitted	• Bitmask specifying whether a neighbor with a specific network color code is to be reported. • Range: 0 to 255. • Bit n set to 1 means a neighbor with NCC n must be included in the report. This flag is synonymous with a blacklist in other RATs. • This field is only valid when ue_in_idle is TRUE.
cells_len	• Provides the number of set of gsm cells.
GsmCellInfo[NAS_MAX_DESCRIPTION_LENGTH]	• See nas_gsmCellInfo for more information.

8.457.2 Field Documentation

8.457.2.1 uint8_t nas_lteGsmCellInfo::cellReselPriority

8.457.2.2 uint8_t nas_lteGsmCellInfo::cells_len

8.457.2.3 nas_gsmCellInfo nas_lteGsmCellInfo::GsmCellInfo[255]

8.457.2.4 uint8_t nas_lteGsmCellInfo::nccPermitted

8.457.2.5 uint8_t nas_lteGsmCellInfo::threshGsmHigh

8.457.2.6 uint8_t nas_lteGsmCellInfo::threshGsmLow

8.458 nas_LTEInfo Struct Reference

Data Fields

- uint8_t band
- uint8_t bandwidth
- uint16_t RXChan
- uint16_t TXChan

- uint8_t emmState
- uint8_t emmSubState
- uint8_t emmConnState

8.458.1 Detailed Description

Structure for storing the LTE information for the device.

Parameters

band	• LTE Band – 1 ∼ 40 (Band in decimal) – 0xFF - Invalid
bandwidth	• BandWidth. – 0x00 - 1.4 MHz – 0x01 - 3 MHz – 0x02 - 5 MHz – 0x03 - 10 MHz – 0x04 - 15 MHz – 0x05 - 20 MHz – 0x06 - Invalid – 0xFF - Unknown
RXChan	• RX channel number in decimal – 0xFFFF - Not Available
TXChan	• TX channel number in decimal – 0xFFFF - Not Available
emmState	• EMM State. – 0x00 - Deregistered – 0x01 - Reg Initiated – 0x02 - Registered – 0x03 - TAU Initiated – 0x04 - SR Initiated – 0x05 - Dereg Initiated – 0x06 - Invalid – 0xFF - Unknown

emmSubState	• EMM Sub State. – 0xFF - NOT Applicable • When EMM_state is 0x00: – 0x00 - No IMSI – 0x01 - PLMN Search – 0x02 - Attach Needed – 0x03 - No Cell – 0x04 - Attaching – 0x05 - Normal Service – 0x06 - Limited Service – 0x07 - Waiting for PDN • When EMM_state is 0x01: – 0x00 - Waiting for NW – 0x01 - Waiting for ESM • When EMM_state is 0x02: – 0x00 - Normal Service – 0x01 - Update Needed – 0x02 - Attempt Update – 0x03 - No Cell – 0x04 - PLMN Search – 0x05 - Limited Service – 0x06 - MM Update – 0x07 - IMSI Detach – 0x08 - Waiting for ESM
emmConnState	• EMM Connected Mode State. – 0x00 - RRC Idle – 0x01 - Waiting RRC Cfm – 0x02 - RRC Connected – 0x03 - RRC Releasing – 0xFF - Unknown

8.458.2 Field Documentation

8.458.2.1 uint8_t nas_LTEInfo::band

8.458.2.2 uint8_t nas_LTEInfo::bandwidth

8.458.2.3 uint8_t nas_LTEInfo::emmConnState

8.458.2.4 uint8_t nas_LTEInfo::emmState

8.458.2.5 uint8_t nas_LTEInfo::emmSubState

8.458.2.6 uint16_t nas_LTEInfo::RXChan

8.458.2.7 uint16_t nas_LTEInfo::TXChan

8.459 nas_LTEInfoInterfreq Struct Reference

Data Fields

- uint8_t ueInIdle
- uint8_t freqsLen
- nas_infoInterFreq InfoInterfreq [255]

8.459.1 Detailed Description

This structure contains information about the LTE Inter-Frequency Network.

Parameters

ueInIdle	• TRUE if the UE is in Idle mode, otherwise FALSE. – 0xFF - Not Available
freqsLen	• Provides the number of set of inter frequency information. • If 0(zero), then no information follows it.
InfoInterfreq[NAS_MAX_DESCRIPTION_LENGTH]	• See nas_infoInterFreq for more information.

8.459.2 Field Documentation

8.459.2.1 uint8_t nas_LTEInfoInterfreq::freqsLen

8.459.2.2 nas_infoInterFreq nas_LTEInfoInterfreq::InfoInterfreq[255]

8.459.2.3 uint8_t nas_LTEInfoInterfreq::ueInIdle

8.460 nas_LTEInfoIntrafreq Struct Reference

Data Fields

- uint8_t ueInIdle
- uint8_t plmn [3]
- uint16_t tac
- uint32_t globalCellId
- uint16_t earfcn
- uint16_t servingCellId
- uint8_t cellReselPriority
- uint8_t sNonIntraSearch
- uint8_t threshServingLow
- uint8_t sIntraSearch
- uint8_t cellsLen
- nas_cellParams CellParams [255]

8.460.1 Detailed Description

This structure contains information about the LTE Intra-Frequency Network.

Parameters

ueInIdle	• TRUE if the UE is in Idle mode, otherwise FALSE. – 0xFF - Not Available
plmn[NAS_PLMN_LENGTH]	• PLMN ID coded as octet 3, 4, and 5.
tac	• Tracking area code. – 0xFFFF - Not Available
globalCellId	• Global cell ID in the system information block. – 0xFFFFFFFF - Not Available
earfcn	• E-UTRA absolute radio frequency channel number of the serving cell. • Range: 0 to 65535. – 0xFFFF - Not Available
servingCellId	• LTE serving cell ID. • Range: 0 to 503. • This is the cell ID of the serving cell and can be found in the cell list. – 0xFFFF - Not Available
cellReselPriority	• Priority for serving frequency. • Range: 0 to 7. • This field is only valid when ue_in_idle is TRUE. – 0xFF - Not Available
sNonIntraSearch	• S non-intra search threshold to control non-intrafrequency searches. • Range: 0 to 31. • This field is only valid when ue_in_idle is TRUE. – 0xFF - Not Available
threshServingLow	• Serving cell low threshold. • Range: 0 to 31. • This field is only valid when ue_in_idle is TRUE. – 0xFF - Not Available

sIntraSearch	• S Intra search threshold. • Range: 0 to 31. • The current cell measurement must fall below this threshold to consider intrafrequency for reselection. • This field is only valid when ue_in_idle is TRUE. – 0xFF - Not Available
cellsLen	• Provides the number of set of cell params. • If 0(zero), then no information follows it.
CellParams[NAS_MAX_DESCRIPTION_LENGTH]	• See nas_cellParams for more information.

8.460.2 Field Documentation

8.460.2.1 nas_cellParams nas_LTEInfoIntrafreq::CellParams[255]

8.460.2.2 uint8_t nas_LTEInfoIntrafreq::cellReselPriority

8.460.2.3 uint8_t nas_LTEInfoIntrafreq::cellsLen

8.460.2.4 uint16_t nas_LTEInfoIntrafreq::earfcn

8.460.2.5 uint32_t nas_LTEInfoIntrafreq::globalCellId

8.460.2.6 uint8_t nas_LTEInfoIntrafreq::plmn[3]

8.460.2.7 uint16_t nas_LTEInfoIntrafreq::servingCellId

8.460.2.8 uint8_t nas_LTEInfoIntrafreq::sIntraSearch

8.460.2.9 uint8_t nas_LTEInfoIntrafreq::sNonIntraSearch

8.460.2.10 uint16_t nas_LTEInfoIntrafreq::tac

8.460.2.11 uint8_t nas_LTEInfoIntrafreq::threshServingLow

8.460.2.12 uint8_t nas_LTEInfoIntrafreq::ueInIdle

8.461 nas_LTEInfoNeighboringGSM Struct Reference

Data Fields

- uint8_t ueInIdle
- uint8_t freqsLen
- nas_lteGsmCellInfo LteGsmCellInfo [255]

8.461.1 Detailed Description

This structure contains information about the LTE Neighboring GSM Network.

Parameters

ueInIdle	• TRUE if the UE is in Idle mode, otherwise FALSE. – 0xFF - Not Available
freqsLen	• Provides the number of set of LTE GSM cell information. • If 0(zero), then no information follows it.
LteGsmCellInfo[NAS_MAX_DESCRIPTION_LENGTH]	• See nas_lteGsmCellInfo for more information.

8.461.2 Field Documentation

8.461.2.1 uint8_t nas_LTEInfoNeighboringGSM::freqsLen

8.461.2.2 nas_lteGsmCellInfo nas_LTEInfoNeighboringGSM::LteGsmCellInfo[255]

8.461.2.3 uint8_t nas_LTEInfoNeighboringGSM::ueInIdle

8.462 nas_LTEInfoNeighboringWCDMA Struct Reference

Data Fields

- uint8_t ueInIdle
- uint8_t freqsLen
- nas_lteWcdmaCellInfo LTEWCDMACellInfo [255]

8.462.1 Detailed Description

This structure contains information about the LTE Neighboring WCDMA Network.

Parameters

ueInIdle	• TRUE if the UE is in Idle mode, otherwise FALSE. – 0xFF - Not Available
freqsLen	• Provides the number of set of LTE WCDMA cell information. • If 0(zero), then no information follows it.
LTEWCDMACellInfo[NAS_MAX_DESCRIPTION_LENGTH]	• See nas_lteWcdmaCellInfo for more information.

8.462.2 Field Documentation

8.462.2.1 uint8_t nas_LTEInfoNeighboringWCDMA::freqsLen

8.462.2.2 nas_IteWcdmaCellInfo nas_LTEInfoNeighboringWCDMA::LTEWCDMACellInfo[255]

8.462.2.3 uint8_t nas_LTEInfoNeighboringWCDMA::ueInIdle

8.463 nas_LteM1BandPrefTlv Struct Reference

Data Fields

- uint64_t IteM1BandPref
- uint8_t TlvPresent

8.463.1 Detailed Description

Contain the LTE M1 band Preference.

Parameters

lteM1BandPref	• Bitmask representing the LTE M1 band preference • Bit Values – Bit 0 - E-UTRA Operating Band 1 – Bit 1 - E-UTRA Operating Band 2 – Bit 2 - E-UTRA Operating Band 3 – Bit 3 - E-UTRA Operating Band 4 – Bit 4 - E-UTRA Operating Band 5 – Bit 5 - E-UTRA Operating Band 6 – Bit 6 - E-UTRA Operating Band 7 – Bit 7 - E-UTRA Operating Band 8 – Bit 8 - E-UTRA Operating Band 9 – Bit 9 - E-UTRA Operating Band 10 – Bit 10 - E-UTRA Operating Band 11 – Bit 11 - E-UTRA Operating Band 12 – Bit 12 - E-UTRA Operating Band 13 – Bit 13 - E-UTRA Operating Band 14 – Bit 16 - E-UTRA Operating Band 17 – Bit 17 - E-UTRA Operating Band 18 – Bit 18 - E-UTRA Operating Band 19 – Bit 19 - E-UTRA Operating Band 20 – Bit 20 - E-UTRA Operating Band 21 – Bit 22 - E-UTRA Operating Band 23 – Bit 23 - E-UTRA Operating Band 24 – Bit 24 - E-UTRA Operating Band 25 – Bit 25 - E-UTRA Operating Band 26 – Bit 27 - E-UTRA Operating Band 28 – Bit 28 - E-UTRA Operating Band 29 – Bit 29 - E-UTRA Operating Band 32 – Bit 32 - E-UTRA Operating Band 33 – Bit 33 - E-UTRA Operating Band 34 – Bit 34 - E-UTRA Operating Band 35 – Bit 35 - E-UTRA Operating Band 36 – Bit 36 - E-UTRA Operating Band 37 – Bit 37 - E-UTRA Operating Band 38 – Bit 38 - E-UTRA Operating Band 39 – Bit 39 - E-UTRA Operating Band 40 – Bit 40 - E-UTRA Operating Band 41 – Bit 41 - E-UTRA Operating Band 42 – Bit 42 - E-UTRA Operating Band 43 – Bit 60 - E-UTRA Operating Band 125 – Bit 61 - E-UTRA Operating Band 126 – Bit 62 - E-UTRA Operating Band 127
TlvPresent	• Tlv Present

8.463.2 Field Documentation

8.463.2.1 uint64_t nas_LteM1BandPrefTlv::lteM1BandPref

8.463.2.2 uint8_t nas_LteM1BandPrefTlv::TlvPresent

8.464 nas_LteNb1BandPrefTlv Struct Reference

Data Fields

- uint64_t lteNb1BandPref
- uint8_t TlvPresent

8.464.1 Detailed Description

Contain the LTE NB1 band Preference.

Parameters

lteNb1BandPref	• Bitmask representing the LTE NB1 band preference. • Bit Values – Bit 0 - E-UTRA Operating Band 1 – Bit 1 - E-UTRA Operating Band 2 – Bit 2 - E-UTRA Operating Band 3 – Bit 3 - E-UTRA Operating Band 4 – Bit 4 - E-UTRA Operating Band 5 – Bit 5 - E-UTRA Operating Band 6 – Bit 6 - E-UTRA Operating Band 7 – Bit 7 - E-UTRA Operating Band 8 – Bit 8 - E-UTRA Operating Band 9 – Bit 9 - E-UTRA Operating Band 10 – Bit 10 - E-UTRA Operating Band 11 – Bit 11 - E-UTRA Operating Band 12 – Bit 12 - E-UTRA Operating Band 13 – Bit 13 - E-UTRA Operating Band 14 – Bit 16 - E-UTRA Operating Band 17 – Bit 17 - E-UTRA Operating Band 18 – Bit 18 - E-UTRA Operating Band 19 – Bit 19 - E-UTRA Operating Band 20 – Bit 20 - E-UTRA Operating Band 21 – Bit 22 - E-UTRA Operating Band 23 – Bit 23 - E-UTRA Operating Band 24 – Bit 24 - E-UTRA Operating Band 25 – Bit 25 - E-UTRA Operating Band 26 – Bit 27 - E-UTRA Operating Band 28 – Bit 28 - E-UTRA Operating Band 29 – Bit 29 - E-UTRA Operating Band 32 – Bit 32 - E-UTRA Operating Band 33 – Bit 33 - E-UTRA Operating Band 34 – Bit 34 - E-UTRA Operating Band 35 – Bit 35 - E-UTRA Operating Band 36 – Bit 36 - E-UTRA Operating Band 37 – Bit 37 - E-UTRA Operating Band 38 – Bit 38 - E-UTRA Operating Band 39 – Bit 39 - E-UTRA Operating Band 40 – Bit 40 - E-UTRA Operating Band 41 – Bit 41 - E-UTRA Operating Band 42 – Bit 42 - E-UTRA Operating Band 43 – Bit 60 - E-UTRA Operating Band 125 – Bit 61 - E-UTRA Operating Band 126 – Bit 62 - E-UTRA Operating Band 127
TlvPresent	• Tlv Present

8.464.2 Field Documentation

8.464.2.1 uint64_t nas_LteNb1BandPrefTlv::lteNb1BandPref

8.464.2.2 uint8_t nas_LteNb1BandPrefTlv::TlvPresent

8.465 nas_LTEOperationMode Struct Reference

Data Fields

- uint8_t TlvPresent
- uint32_t * pLTEOperationMode

8.465.1 Detailed Description

This structure contains the nas_LTEOperationMode response parameters.

Parameters

TlvPresent	• Tlv Present
pLTEOperation-Mode	• LTE Operational Mode

8.465.2 Field Documentation

8.465.2.1 uint32_t* nas_LTEOperationMode::pLTEOperationMode

8.465.2.2 uint8_t nas_LTEOperationMode::TlvPresent

8.466 nas_ItePCI Struct Reference

Data Fields

- uint8_t status
- uint32_t earfcn
- uint32_t pci

8.466.1 Detailed Description

This structure contains LTE PCI infromation.

Parameters

status	• 0 - Disable • 1 - Enable
earfcn	• UARFCN to which UE is locked
pci	• PCI to which the UE is locked

8.466.2 Field Documentation

8.466.2.1 uint32_t nas_ltePCI::earfcn

8.466.2.2 uint32_t nas_ltePCI::pci

8.466.2.3 uint8_t nas_ltePCI::status

8.467 nas_lteRsrpinformation Struct Reference

Data Fields

- int16_t rsrplevel

8.467.1 Detailed Description

This structure contains the LTE RSRP Information

Parameters

rsrplevel	• LTE RSRP in dBm as a mesaured by L1. Range: -44 to -140(-44 means -44dBm, -140 means -140dBm).

8.467.2 Field Documentation

8.467.2.1 int16_t nas_lteRsrpinformation::rsrplevel

8.468 nas_LTERSRPThresh Struct Reference

Data Fields

- uint8_t LTERSRPThreshListLen
- int16_t * pLTERSRPThreshList

8.468.1 Detailed Description

This structure contains LTE RSRP threshold related parameters.

Parameters

LTERSRP-ThreshListLen	• Length of the LTE RSRP threshold list parameter to follow
pLTERSRP-ThreshList	• Array of RSRP thresholds (in units of 0.1 dBm) • Maximum of 32 values • Range for RSRP values: -140 to -44 (in dBm).

8.468.2 Field Documentation

8.468.2.1 uint8_t nas_LTERSRPThresh::LTERSRPThreshListLen

8.468.2.2 int16_t* nas_LTERSRPThresh::pLTERSRPThreshList

8.469 nas_LTERSRQThresh Struct Reference

Data Fields

- uint8_t LTERSRQThreshListLen
- int16_t * pLTERSRQThreshList

8.469.1 Detailed Description

This structure contains LTE RSRQ threshold related parameters.

Parameters

LTERSRQ-ThreshListLen	• Length of the LTE RSRQ threshold list parameter to follow
pLTERSRQ-ThreshList	• Array of RSRQ thresholds (in units of 0.1 dBm) • Maximum of 32 values. • Range for RSRQ values: -20 to -3 (in dBm)

8.469.2 Field Documentation

8.469.2.1 uint8_t nas_LTERSRQThresh::LTERSRQThreshListLen

8.469.2.2 int16_t* nas_LTERSRQThresh::pLTERSRQThreshList

8.470 nas_LTERSSIThresh Struct Reference

Data Fields

- uint8_t LTERSSIThreshListLen
- int16_t * pLTERSSIThreshList

8.470.1 Detailed Description

This structure contains LTE RSSI threshold related parameters.

Parameters

LTERSSI-ThreshListLen	• Length of the LTE RSSI threshold list parameter to follow
pLTERSSI-ThreshList	• Array of RSSI thresholds (in units of 0.1 dBm) • Maximum of 32 values. • Range for RSSI values: -120 to 0 (in dBm)

8.470.2 Field Documentation

8.470.2.1 uint8_t nas_LTERSSIThresh::LTERSSIThreshListLen

8.470.2.2 int16_t* nas_LTERSSIThresh::pLTERSSIThreshList

8.471 nas_LTESigRptCfg Struct Reference

Data Fields

- uint8_t rptRate
- uint8_t avgPeriod

8.471.1 Detailed Description

This structure contains LTE signal report config.

Parameters

rptRate	• Rate on how often the LTE signal must be checked for reporting • Values: – 0 - Report using the default configuration – 1 - Report every 1 sec – 2 - Report every 2 sec – 3 - Report every 3 sec – 4 - Report every 4 sec – 5 - Report every 5 sec
avgPeriod	• Averaging period to be used for the LTE signal • Values: – 0 - Average using the default configuration – 1 - Average over 1 sec – 2 - Average over 2 sec – 3 - Average over 3 sec – 4 - Average over 4 sec – 5 - Average over 5 sec – 6 - Average over 6 sec – 7 - Average over 7 sec – 8 - Average over 8 sec – 9 - Average over 9 sec – 10 - Average over 10 sec

8.471.2 Field Documentation

8.471.2.1 uint8_t nas_LTESigRptCfg::avgPeriod

8.471.2.2 uint8_t nas_LTESigRptCfg::rptRate

8.472 nas_LTESigRptConfig Struct Reference

Data Fields

- uint8_t rptRate
- uint8_t avgPeriod

8.472.1 Detailed Description

This structure contains LTE RSRP threshold related parameters.

Parameters

rptRate	• Rate on how often the LTE signal must be checked for reporting Values • 0 - Report using the default configuration • 1 - Report every 1 sec • 2 - Report every 2 sec • 3 - Report every 3 sec • 4 - Report every 4 sec • 5 - Report every 5 sec

avgPeriod	• Averaging period to be used for the LTE signal.
	• Values
	  – 0 - Average using the default configuration
	  – 1 - Average over 1 sec
	  – 2 - Average over 2 sec
	  – 3 - Average over 3 sec
	  – 4 - Average over 4 sec
	  – 5 - Average over 5 sec
	  – 6 - Average over 6 sec
	  – 7 - Average over 7 sec
	  – 8 - Average over 8 sec
	  – 9 - Average over 9 sec
	  – 10 - Average over 10 sec

8.472.2 Field Documentation

8.472.2.1 uint8_t nas_LTESigRptConfig::avgPeriod

8.472.2.2 uint8_t nas_LTESigRptConfig::rptRate

8.473 nas_lteSnrinformation Struct Reference

Data Fields

- int16_t snrlevel

8.473.1 Detailed Description

This structure contains the LTE SNR Information

Parameters

snrlevel	• LTE SNR level as a scaled integer in units of 0.1dB e.g. -16dB has a value of -160 and 24.6dB has value of 246.

8.473.2 Field Documentation

8.473.2.1 int16_t nas_lteSnrinformation::snrlevel

8.474 nas_LTESNRThresh Struct Reference

Data Fields

- uint8_t LTESNRThresListLen
- int16_t ∗ pLTESNRThresList

8.474.1 Detailed Description

This structure contains LTE SNR threshold list.

Parameters

LTESNRThres-ListLen	• Length of the LTE SNR threshold list parameter to follow
pLTESNRThres-List	• Sequence of thresholds delimiting SNR event reporting bands • Every time a SNR value crosses a threshold value, an event report indication message with the new SNR value is sent to the requesting control point. For this field – For LTE, each SNR threshold value is a signed 2 Byte value – Maximum number of threshold values is 16 – At least one value must be specified – SNR level as a scaled integer in units of 0.1 dB; e.g., -16 dB has a value of -160 and 24.6 dB has a value of 246

8.474.2 Field Documentation

8.474.2.1 uint8_t nas_LTESNRThresh::LTESNRThresListLen

8.474.2.2 int16_t∗ nas_LTESNRThresh::pLTESNRThresList

8.475 nas_LTESNRThreshold Struct Reference

Data Fields

- uint8_t LTESNRThreshListLen

- int16_t * pLTESNRThreshList

8.475.1 Detailed Description

This structure contains LTE SNR threshold related parameters.

Parameters

LTESNRThresh-ListLen	• Length of the LTE SNR threshold list parameter to follow
pLTESNR-ThreshList	• Array of SNR thresholds (in units of 0.1 dB) • Maximum of 32 values • Range for SNR values: -20 to 30 (in dB).

8.475.2 Field Documentation

8.475.2.1 uint8_t nas_LTESNRThreshold::LTESNRThreshListLen

8.475.2.2 int16_t* nas_LTESNRThreshold::pLTESNRThreshList

8.476 nas_LTESysInfo Struct Reference

Data Fields

- nas_sysInfoCommon sysInfoLTE
- uint8_t lacValid
- uint16_t lac
- uint8_t cellIdValid
- uint32_t cellId
- uint8_t regRejectInfoValid
- uint8_t rejectSrvDomain
- uint8_t rejCause
- uint8_t networkIdValid
- uint8_t MCC [3]
- uint8_t MNC [3]
- uint8_t tacValid
- uint16_t tac

8.476.1 Detailed Description

Structure for storing the LTE System Information.

Parameters

sysInfoLTE	• See nas_sysInfoCommon for more information.

lacValid	• Indicates whether the location area code is valid.. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
lac	• Location area code. • Only applies to 3GPP. – 0xFFFF - Not Available
cellIdValid	• Indicates whether the cell ID is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
cellId	• Cell ID. – 0xFFFFFFFF - Not Available
regRejectInfo-Valid	• Indicates whether the registration reject information is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
rejectSrvDomain	• Type of service domain in which the registration is rejected. – 0x00 - SYS_SRV_DOMAIN_NO_SRV - No service – 0x01 - Circuit-switched only – 0x02 - Packet-switched only – 0x03 - Circuit-switched and packet-switched – 0x04 - Camped – 0xFF - Not Available
rejCause	• Reject cause values sent are specified in [3GPP TS 24.008, Section 10.5.3.6]. and [3GPP TS 24.301, Section 9.9.3.9] – 0xFF - Not Available
networkIdValid	• Indicates whether the network ID is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
MCC[NAS_PLM-N_LENGTH]	• Mobile Country Code. • MCC digits in ASCII characters

MNC[NAS_PLMN_LENGTH]	• Mobile Network Code. • MNC digits in ASCII characters • An unused byte is set to 0xFF. • In case of two-digit MNC values, the third (unused) digit is set to 0xFF. For example, 15 (a two-digit MNC) is reported using the byte stream 0x31 0x35 0xFF.
tacValid	• Indicates whether tracking area code is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
tac	• Tracking area code. • Only applicable for LTE. – 0xFFFF - Not Available

8.476.2 Field Documentation

8.476.2.1 uint32_t nas_LTESysInfo::cellId

8.476.2.2 uint8_t nas_LTESysInfo::cellIdValid

8.476.2.3 uint16_t nas_LTESysInfo::lac

8.476.2.4 uint8_t nas_LTESysInfo::lacValid

8.476.2.5 uint8_t nas_LTESysInfo::MCC[3]

8.476.2.6 uint8_t nas_LTESysInfo::MNC[3]

8.476.2.7 uint8_t nas_LTESysInfo::networkIdValid

8.476.2.8 uint8_t nas_LTESysInfo::regRejectInfoValid

8.476.2.9 uint8_t nas_LTESysInfo::rejCause

8.476.2.10 uint8_t nas_LTESysInfo::rejectSrvDomain

8.476.2.11 nas_sysInfoCommon nas_LTESysInfo::sysInfoLTE

8.476.2.12 uint16_t nas_LTESysInfo::tac

8.476.2.13 uint8_t nas_LTESysInfo::tacValid

8.477 nas_lteWcdmaCellInfo Struct Reference

Data Fields

- uint16_t uarfcn
- uint8_t cellReselPriority

- uint16_t threshXhigh
- uint16_t threshXlow
- uint8_t cellsLen
- nas_wcdmaCellInfo WCDMACellInfo [255]

8.477.1 Detailed Description

This structure contains information about the LTE WCDMA Cell.

Parameters

uarfcn	• WCDMA layer frequency. • Range: 0 to 16383.
cellReselPriority	• Cell re-selection priority. • Range: 0 to 7. • This field is only valid when ue_in_idle is TRUE.
threshXhigh	• Re-selection low threshold. • Range: 0 to 31. • This field is only valid when ue_in_idle is TRUE.
threshXlow	• Re-selection high threshold. • Range: 0 to 31. • This field is only valid when ue_in_idle is TRUE.
cellsLen	• Provides the number of set of WCDMA cells.
WCDMACellInfo[NAS_MAX_DESCRIPTION_LENGTH]	• See nas_wcdmaCellInfo for more information.

8.477.2 Field Documentation

8.477.2.1 uint8_t nas_lteWcdmaCellInfo::cellReselPriority

8.477.2.2 uint8_t nas_lteWcdmaCellInfo::cellsLen

8.477.2.3 uint16_t nas_lteWcdmaCellInfo::threshXhigh

8.477.2.4 uint16_t nas_lteWcdmaCellInfo::threshXlow

8.477.2.5 uint16_t nas_lteWcdmaCellInfo::uarfcn

8.477.2.6 nas_wcdmaCellInfo nas_lteWcdmaCellInfo::WCDMACellInfo[255]

8.478 nas_minBasedIMSI Struct Reference

Data Fields

- uint8_t mccM [3]
- uint16_t imsiM1112
- uint8_t imsiMS1 [7]
- uint8_t imsiMS2 [3]

8.478.1 Detailed Description

This structure contains MIN-based IMSI.

Parameters

mccM	• ASCII character representation of MCC_M
imsiM1112	• ASCII character representation of IMSI_M_11_12 value – 0xFFFF - Not Available
imsiMS1	• ASCII character representation of IMSI_M_S1 value
imsiMS2	• ASCII character representation of IMSI_M_S2 value

8.478.2 Field Documentation

8.478.2.1 uint16_t nas_minBasedIMSI::imsiM1112

8.478.2.2 uint8_t nas_minBasedIMSI::imsiMS1[7]

8.478.2.3 uint8_t nas_minBasedIMSI::imsiMS2[3]

8.478.2.4 uint8_t nas_minBasedIMSI::mccM[3]

8.479 nas_MNRInfo Struct Reference

Data Fields

- uint16_t mcc
- uint16_t mnc
- uint32_t rat

8.479.1 Detailed Description

Structure contains Manual Network Register Information parameters

Parameters

mcc	• A 16-bit integer representation of Mobile Country Code. Range - 0 to 999.

mnc	• A 16-bit integer representation of Mobile Network Code. Range - 0 to 999.
rat	• Radio access technology for which to register. – 0x04 - RADIO_IF_GSM – 0x05 - RADIO_IF_UMTS – 0x08 - RADIO_IF_LTE

8.479.2 Field Documentation

8.479.2.1 uint16_t nas_MNRInfo::mcc

8.479.2.2 uint16_t nas_MNRInfo::mnc

8.479.2.3 uint32_t nas_MNRInfo::rat

8.480 nas_ModePrefTlv Struct Reference

Data Fields

- uint16_t ModePref
- uint8_t TlvPresent

8.480.1 Detailed Description

Contain the radio technology mode preference

Parameters

ModePref	• Bit Mask indicating the radio technology mode preference • Bit values: – Bit 0 - cdma2000 1x – Bit 1 - cdma2000 HRPD(1xEV-DO) – Bit 2 - GSM – Bit 3 - UMTS – Bit 4 - LTE – Bit 5 - TD-SCDMA – Bit 6 - NR5G
TlvPresent	• Tlv Present

8.480.2 Field Documentation

8.480.2.1 uint16_t nas_ModePrefTlv::ModePref

8.480.2.2 uint8_t nas_ModePrefTlv::TlvPresent

8.481 nas_namName Struct Reference

Data Fields

- uint8_t namNameLen
- uint8_t namName [12]

8.481.1 Detailed Description

This structure contains NAM Name.

Parameters

namNameLen	• Number of sets of the following elements: – nam_name • If zero(0), then no information follows.
namName	• Name information in ASCII. The maximum length of nam_name is 12.

8.481.2 Field Documentation

8.481.2.1 uint8_t nas_namName::namName[12]

8.481.2.2 uint8_t nas_namName::namNameLen

8.482 nas_netSelectionPref Struct Reference

Data Fields

- uint8_t netReg
- uint16_t mcc
- uint16_t mnc

8.482.1 Detailed Description

Contain the network selection preference.

Parameters

netReg	• specifies one of the following actions: – 0x00 - Automatic registration * Device registers according to its provisioning; mcc and mnc fields are ignored – 0x01 - Manual Registration * Device registers to specified network; mcc and mnc must contain valid values

mcc	• MCC value. Range 0 to 999
mnc	• MNC value. Range 0 to 999

8.482.2 Field Documentation

8.482.2.1 uint16_t nas_netSelectionPref::mcc

8.482.2.2 uint16_t nas_netSelectionPref::mnc

8.482.2.3 uint8_t nas_netSelectionPref::netReg

8.483 nas_NetSelPrefTlv Struct Reference

Data Fields

- uint8_t NetSelPref
- uint8_t TlvPresent

8.483.1 Detailed Description

Contain the Network selection Preference for system selection preferences.

Parameters

NetSelPref	• Parameter indicating network selection preference • Values: – 0x00 - Automatic network selection – 0x01 - Manual network selection
TlvPresent	• Tlv Present

8.483.2 Field Documentation

8.483.2.1 uint8_t nas_NetSelPrefTlv::NetSelPref

8.483.2.2 uint8_t nas_NetSelPrefTlv::TlvPresent

8.484 nas_NetworkStat1x Struct Reference

Data Fields

- uint8_t State
- uint16_t SO
- uint32_t RX_PWR

- uint16_t RX_EC_IO
- uint32_t TX_PWR
- uint8_t ActSetCnt
- nas_ActPilotPNElement * pActPilotPNElements
- uint8_t NeighborSetCnt
- uint16_t * pNeighborSetPilotPN

8.484.1 Detailed Description

This structure contains network stat 1x.

Parameters

State	• CDMA current access state – 0x01 - Searching – 0x02 - Idle – 0x03 - Traffic – Others - NA
SO	• CDMA service option – 0xFFFF - Not in a call – 0x0001 - Basic Variable Rate Voice Service(8kbps) – 0x0002 - Mobile Station Loopback(8kbps) – 0x0003 - Enhanced Variable Rate Codec(EVRC) Voice Service(8kbps) – 0x0006 - Short message Services(Rate Set 1) – 0x0009 - Mobile Station Loopback(13kbps) – 0x000E - Short Message Service (Rate Set 2) – 0x0011 - High Rate Voice Service(13kbps) – 0x0020 - Test Data Service Option(TDSO) – 0x0021 - cdma2000 High Speed Packet Data Service, Internet or ISO Protocol Stack – 0x0044 - EVRC-B Voice Service(8 kbps) – 0x0046 - EVRC-WB Voice Service(8 kbps) – 0x0049 - Voice Echo mode supports smart blanking(EVRC-NW) – 0x004B - Enhanced loopback – 0x8000 - Proprietary Service Option (Qualcomm Inc.)
RX_PWR	• RX Pwr(dBm) – 0xABCD00EF - -ABCD.EF dBm – ABCD00EF should be transferred to decimal while displaying – Example: 0x12340056 - -4660.86dBm 0x1234 = 4660, 0x0056 = 86 – 0xFFFFFFFF - NA

RX_EC_IO	• RX EC/IO(dB) – 0xABCD - -AB.CD dB – ABCD should be transferred to decimal while displaying – Example: 0x1234 - -18.52dB 0x12 = 18, 0x34 = 52 – 0xFFFF - NA
TX_PWR	• TX PWR(dBm) – 0xFFFFFFFF - NA – Others - display actual value in decimal – Example: 0x1234 - -4660dBm 0x1234 = 4660
ActSetCnt	• Count of active pilot PN elements • As input specifies number of sets of parameter pActPilotElements for which memory has been assigned • As output specifies the actual number of sets of parameter pActPilotElements returned by device
pActPilotPN-Elements	• See nas_ActPilotPNElement for more information
NeighborSetCnt	• Count of neighbor pilot PN elements • As input specifies number of sets of parameter pNeighborSetPilotPN for which memory has been assigned • As output specifies the actual number of sets of parameter pNeighborSetPilotPN returned by device
pNeighborSet-PilotPN	• Neighbor pilot PN

8.484.2 Field Documentation

8.484.2.1 uint8_t nas_NetworkStat1x::ActSetCnt

8.484.2.2 uint8_t nas_NetworkStat1x::NeighborSetCnt

8.484.2.3 nas_ActPilotPNElement* nas_NetworkStat1x::pActPilotPNElements

8.484.2.4 uint16_t* nas_NetworkStat1x::pNeighborSetPilotPN

8.484.2.5 uint16_t nas_NetworkStat1x::RX_EC_IO

8.484.2.6 uint32_t nas_NetworkStat1x::RX_PWR

8.484.2.7 uint16_t nas_NetworkStat1x::SO

8.484.2.8 uint8_t nas_NetworkStat1x::State

8.484.2.9 uint32_t nas_NetworkStat1x::TX_PWR

8.485 nas_NetworkStatEVDO Struct Reference

Data Fields

- uint8_t State
- uint8_t MACIndex
- uint8_t SectorIDLen
- uint16_t * pSectorID
- uint16_t RX_PWR
- uint16_t PER
- uint16_t PilotEnergy
- uint8_t SNR

8.485.1 Detailed Description

This structure contains network stat EVDO.

Parameters

State	• EVDO network access state – 0x00 - Sleep – 0x01 - Searching – 0x02 - Idle – 0x03 - Active – 0xFF - NA
MACIndex	• HDR Mac index – 0xFF - NA – Others - Display the actual value in decimal – Example: 0x12 - 18 0x12 = 18
SectorIDLen	(IN/OUT) • Sector ID length • As input specifies length of parameter pSectorID for which memory has been assigned • As output specifies the actual length of parameter pSectorID returned by device
pSectorID	• Sector ID
RX_PWR	• TX PWR(dBm) – 0xABCD - -ABCD dBm – ABCD should be transferred to decimal while displaying – Example: 0x1234 - -4660dBm 0x1234 = 4660 – 0xFFFF - NA

PER	• HDR Packet Error Rate – 0xFFFF - Unknown – Others - display the actual value in decimal – Example: 0x1234 - -4660dBm 0x1234 = 4660
PilotEnergy	• Pilt Energy (dB) – 0xFFFF - NA – 0xABCD should be transferred to decimal while displaying – Example: 0x1234 - -4660dBm 0x1234 = 4660
SNR	• Signal to Noise ratio (dB)

8.485.2 Field Documentation

8.485.2.1 uint8_t nas_NetworkStatEVDO::MACIndex

8.485.2.2 uint16_t nas_NetworkStatEVDO::PER

8.485.2.3 uint16_t nas_NetworkStatEVDO::PilotEnergy

8.485.2.4 uint16_t* nas_NetworkStatEVDO::pSectorID

8.485.2.5 uint16_t nas_NetworkStatEVDO::RX_PWR

8.485.2.6 uint8_t nas_NetworkStatEVDO::SectorIDLen

8.485.2.7 uint8_t nas_NetworkStatEVDO::SNR

8.485.2.8 uint8_t nas_NetworkStatEVDO::State

8.486 nas_nmrCellInfo Struct Reference

Data Fields

- uint32_t nmrCellID
- uint8_t nmrPlmn [3]
- uint16_t nmrLac
- uint16_t nmrArfcn
- uint8_t nmrBsic
- uint16_t nmrRxLev

8.486.1 Detailed Description

This structure contains information about the Network Measurement Report (NMR) Cell Information.

Parameters

nmrCellID	• Cell ID. • 0xFFFFFFFF indicates cell ID information is not present.
nmrPlmn[NAS_-PLMN_LENGT-H]	• MCC/MNC information coded as octet 3, 4, and 5. • This field is ignored when nmrCellID is not present.
nmrLac	• Location area code. • This field is ignored when nmrCellID is not present. – 0xFFFF - Not Available
nmrArfcn	• Absolute RF channel number. – 0xFFFF - Not Available
nmrBsic	• Base station identity code. – 0xFF - Not Available
nmrRxLev	• Cell Rx measurement. • Values range between 0 and 63. • Mapped to a measured signal level: – Rxlev 0 is a signal strength less than -110 dBm – Rxlev 1 is -110 dBm to -109 dBm – Rxlev 2 is -109 dBm to -108 dBm – ... – Rxlev 62 is -49 dBm to -48 dBm – Rxlev 63 is greater than -48 dBm – 0xFFFF - Not Available

8.486.2 Field Documentation

8.486.2.1 uint16_t nas_nmrCellInfo::nmrArfcn

8.486.2.2 uint8_t nas_nmrCellInfo::nmrBsic

8.486.2.3 uint32_t nas_nmrCellInfo::nmrCellID

8.486.2.4 uint16_t nas_nmrCellInfo::nmrLac

8.486.2.5 uint8_t nas_nmrCellInfo::nmrPlmn[3]

8.486.2.6 uint16_t nas_nmrCellInfo::nmrRxLev

8.487 nas_nr5gBandPref Struct Reference

Data Fields

- uint64_t bits_1_64
- uint64_t bits_65_128
- uint64_t bits_129_192
- uint64_t bits_193_256

8.487.1 Detailed Description

Contain the NR5G Band Preference.

Parameters

bits_1_64	• Bits 1 to 64 of the 256-bit NR5G Operating Band bitmask.
bits_65_128	• Bits 65 to 128 of the 256-bit NR5G Operating Band bitmask.
bits_129_192	• Bits 129 to 192 of the 256-bit NR5G Operating Band bitmask.
bits_193_256	• Bits 193 to 256 of the 256-bit NR5G Operating Band bitmask.

8.487.2 Field Documentation

8.487.2.1 uint64_t nas_nr5gBandPref::bits_129_192

8.487.2.2 uint64_t nas_nr5gBandPref::bits_193_256

8.487.2.3 uint64_t nas_nr5gBandPref::bits_1_64

8.487.2.4 uint64_t nas_nr5gBandPref::bits_65_128

8.488 nas_NR5gBandPrefTlv Struct Reference

Data Fields

- uint64_t bits_1_64
- uint64_t bits_65_128
- uint64_t bits_129_192
- uint64_t bits_193_256
- uint8_t TlvPresent

8.488.1 Detailed Description

Contain the NR5G Band Preference.

Parameters

bits_1_64	• Bits 1 to 64 of the 256-bit NR5G Operating Band bitmask.
bits_65_128	• Bits 65 to 128 of the 256-bit NR5G Operating Band bitmask.
bits_129_192	• Bits 129 to 192 of the 256-bit NR5G Operating Band bitmask.
bits_193_256	• Bits 193 to 256 of the 256-bit NR5G Operating Band bitmask.
TlvPresent	• Tlv Present

8.488.2 Field Documentation

8.488.2.1 uint64_t nas_NR5gBandPrefTlv::bits_129_192

8.488.2.2 uint64_t nas_NR5gBandPrefTlv::bits_193_256

8.488.2.3 uint64_t nas_NR5gBandPrefTlv::bits_1_64

8.488.2.4 uint64_t nas_NR5gBandPrefTlv::bits_65_128

8.488.2.5 uint8_t nas_NR5gBandPrefTlv::TlvPresent

8.489 nas_operatorNameString Struct Reference

Data Fields

- uint8_t PLMNName [255]

8.489.1 Detailed Description

This structure contains PLMN name.

Parameters

PLMNName	• PLMN name must be coded in a default 7-bit alphabet with b8 set to 0.

8.489.2 Field Documentation

8.489.2.1 uint8_t nas_operatorNameString::PLMNName[255]

8.490 nas_OperatorPLMNData Struct Reference

Data Fields

- uint8_t mcc [3]
- uint8_t mnc [3]
- uint16_t lac1
- uint16_t lac2
- uint8_t PLMNRecID

8.490.1 Detailed Description

This structure contains Operator PLMN.

Parameters

mcc	• MCC in ASCII string (a value of D in any of the digits is to be used to indicate a "wild" value for that corresponding digit).
mnc	• MNC in ASCII string (a value of D in any of the digits is to be used to indicate a "wild" value for that corresponding digit; digit 3 in MNC is optional and when not present, will be set as ASCII F).
lac1	• Location area code 1.
lac2	• Location area code 1.
PLMNRecID	• PLMN network name record identifier.

8.490.2 Field Documentation

8.490.2.1 uint16_t nas_OperatorPLMNData::lac1

8.490.2.2 uint16_t nas_OperatorPLMNData::lac2

8.490.2.3 uint8_t nas_OperatorPLMNData::mcc[3]

8.490.2.4 uint8_t nas_OperatorPLMNData::mnc[3]

8.490.2.5 uint8_t nas_OperatorPLMNData::PLMNRecID

8.491 nas_operatorPLMNList Struct Reference

Data Fields

- uint16_t numInstance
- nas_OperatorPLMNData PLMNData [255]

8.491.1 Detailed Description

This structure contains Operator PLMN List.

Parameters

numInstance	• Number of sets of the elements.
PLMNData	• Refer OperatorPLMNLData for details (Optional).

8.491.2 Field Documentation

8.491.2.1 uint16_t nas_operatorPLMNList::numInstance

8.491.2.2 nas_OperatorPLMNData nas_operatorPLMNList::PLMNData[255]

8.492 nas_PhyCaAggPcellInfo Struct Reference

Data Fields

- uint16_t pci
- uint16_t freq
- NAS_LTE_CPHY_CA_BW_NRB_LITE dl_bw_value
- uint16_t iLTEbandValue
- uint8_t TlvPresent

8.492.1 Detailed Description

This structure contains the parameters for Physical Carrier aggregation of Pcell Information.

Parameters

pci	• Physical cell ID of the SCell Range. • Range for ID values: 0 to 503.
freq	• Frequency of the absolute cell Range. • Range for ID values: 0 to 65535.
dl_bw_value	• Downlink Bandwidth Values. • See NAS_LTE_CPHY_CA_BW_NRB_LITE for more information.
scell_state	• Scell state Values. • See NAS_LTE_CPHY_SCELL_STATE_LITE for more information.
TlvPresent	• Tlv Present.

8.492.2 Field Documentation

8.492.2.1 NAS_LTE_CPHY_CA_BW_NRB_LITE nas_PhyCaAggPcellInfo::dl_bw_value

8.492.2.2 uint16_t nas_PhyCaAggPcellInfo::freq

8.492.2.3 uint16_t nas_PhyCaAggPcellInfo::iLTEbandValue

8.492.2.4 uint16_t nas_PhyCaAggPcellInfo::pci

8.492.2.5 uint8_t nas_PhyCaAggPcellInfo::TlvPresent

8.493 nas_PhyCaAggScellDlBw Struct Reference

Data Fields

- NAS_LTE_CPHY_CA_BW_NRB_LITE dl_bw_value
- uint8_t TlvPresent

8.493.1 Detailed Description

This structure contains the parameters for Physical Carrier aggregation Downlink Bandwidth of Scell.

Parameters

dl_bw_value	• Downlink Bandwidth Values. • See NAS_LTE_CPHY_CA_BW_NRB_LITE for more information.

8.493.2 Field Documentation

8.493.2.1 NAS_LTE_CPHY_CA_BW_NRB_LITE nas_PhyCaAggScellDlBw::dl_bw_value

8.493.2.2 uint8_t nas_PhyCaAggScellDlBw::TlvPresent

8.494 nas_PhyCaAggScellIndex Struct Reference

Data Fields

- uint8_t scell_idx
- uint8_t TlvPresent

8.494.1 Detailed Description

This structure contains the parameters for Physical Carrier aggregation of Scell Index.

Parameters

scell_idx	• Physical cell ID of the SCell Range. • Range for ID values: 0 to 503.

TlvPresent	• Tlv Present.

8.494.2 Field Documentation

8.494.2.1 uint8_t nas_PhyCaAggScellIndex::scell_idx

8.494.2.2 uint8_t nas_PhyCaAggScellIndex::TlvPresent

8.495 nas_PhyCaAggScellIndType Struct Reference

Data Fields

- uint16_t pci
- uint16_t freq
- NAS_LTE_CPHY_SCELL_STATE_LITE scell_state
- uint8_t TlvPresent

8.495.1 Detailed Description

This structure contains the parameters for Physical Carrier aggregation of Scell Indicator Type.

Parameters

pci	• Physical cell ID of the SCell Range. • Range for ID values: 0 to 503.
freq	• Frequency of the absolute cell Range. • Range for ID values: 0 to 65535.
scell_state	• Scell state Values. • See NAS_LTE_CPHY_SCELL_STATE_LITE for more information.
TlvPresent	• Tlv Present.

8.495.2 Field Documentation

8.495.2.1 uint16_t nas_PhyCaAggScellIndType::freq

8.495.2.2 uint16_t nas_PhyCaAggScellIndType::pci

8.495.2.3 NAS_LTE_CPHY_SCELL_STATE_LITE nas_PhyCaAggScellIndType::scell_state

8.495.2.4 uint8_t nas_PhyCaAggScellIndType::TlvPresent

8.496 nas_PhyCaAggScellInfo Struct Reference

Data Fields

- uint16_t pci
- uint16_t freq
- NAS_LTE_CPHY_CA_BW_NRB_LITE dl_bw_value
- uint16_t iLTEbandValue
- NAS_LTE_CPHY_SCELL_STATE_LITE scell_state
- uint8_t TlvPresent

8.496.1 Detailed Description

This structure contains the parameters for Physical Carrier aggregation of Scell Information.

Parameters

pci	• Physical cell ID of the SCell Range. • Range for ID values: 0 to 503.
freq	• Frequency of the absolute cell Range. • Range for ID values: 0 to 65535.
dl_bw_value	• Downlink Bandwidth Values. • See NAS_LTE_CPHY_CA_BW_NRB_LITE for more information.

iLTEbandValue	• Band value. • Range for LTE Band class 120 to 160. – 120 - LTE E-UTRA Operating Band 1 – 121 - LTE E-UTRA Operating Band 2 – 122 - LTE E-UTRA Operating Band 3 – 123 - LTE E-UTRA Operating Band 4 – 124 - LTE E-UTRA Operating Band 5 – 125 - LTE E-UTRA Operating Band 6 – 126 - LTE E-UTRA Operating Band 7 – 127 - LTE E-UTRA Operating Band 8 – 128 - LTE E-UTRA Operating Band 9 – 129 - LTE E-UTRA Operating Band 10 – 130 - LTE E-UTRA Operating Band 11 – 131 - LTE E-UTRA Operating Band 12 – 132 - LTE E-UTRA Operating Band 13 – 133 - LTE E-UTRA Operating Band 14 – 134 - LTE E-UTRA Operating Band 17 – 135 - LTE E-UTRA Operating Band 33 – 136 - LTE E-UTRA Operating Band 34 – 137 - LTE E-UTRA Operating Band 35 – 138 - LTE E-UTRA Operating Band 36 – 139 - LTE E-UTRA Operating Band 37 – 140 - LTE E-UTRA Operating Band 38 – 141 - LTE E-UTRA Operating Band 39 – 142 - LTE E-UTRA Operating Band 40 – 143 - LTE E-UTRA Operating Band 18 – 144 - LTE E-UTRA Operating Band 19 – 145 - LTE E-UTRA Operating Band 20 – 146 - LTE E-UTRA Operating Band 21 – 147 - LTE E-UTRA Operating Band 24 – 148 - LTE E-UTRA Operating Band 25 – 149 - LTE E-UTRA Operating Band 41 – 150 - LTE E-UTRA Operating Band 42 – 151 - LTE E-UTRA Operating Band 43 – 152 - LTE E-UTRA Operating Band 23 – 153 - LTE E-UTRA Operating Band 26 – 154 - LTE E-UTRA Operating Band 32 – 155 - LTE E-UTRA Operating Band 125 – 156 - LTE E-UTRA Operating Band 126 – 157 - LTE E-UTRA Operating Band 127 – 158 - LTE E-UTRA Operating Band 28 – 159 - LTE E-UTRA Operating Band 29 – 160 - LTE E-UTRA Operating Band 30
scell_state	• Scell state Values. • See NAS_LTE_CPHY_SCELL_STATE_LITE for more information.

TlvPresent	• Tlv Present.

8.496.2 Field Documentation

8.496.2.1 NAS_LTE_CPHY_CA_BW_NRB_LITE nas_PhyCaAggScellInfo::dl_bw_value

8.496.2.2 uint16_t nas_PhyCaAggScellInfo::freq

8.496.2.3 uint16_t nas_PhyCaAggScellInfo::iLTEbandValue

8.496.2.4 uint16_t nas_PhyCaAggScellInfo::pci

8.496.2.5 NAS_LTE_CPHY_SCELL_STATE_LITE nas_PhyCaAggScellInfo::scell_state

8.496.2.6 uint8_t nas_PhyCaAggScellInfo::TlvPresent

8.497 nas_PilotSetData Struct Reference

Data Fields

- uint8_t NumPilots
- nas_PilotSetParams ∗ pPilotSetInfo

8.497.1 Detailed Description

This structure contains pilot sets data.

Parameters

NumPilots	• Number of Pilot Sets • As input specifies number of sets of parameter pPilotSetInfo for which memory has been assigned • As output specifies the actual number of sets of parameter pPilotSetInfo returned by device
pPilotSetInfo	• Pilot Set Parameters • See nas_PilotSetParams for more information.

note A buffer under sized error is returned if the number of sets of pPilotSetInfo returned by the device is greater than the value in NumPilots input parameter.

8.497.2 Field Documentation

8.497.2.1 uint8_t nas_PilotSetData::NumPilots

8.497.2.2 nas_PilotSetParams∗ nas_PilotSetData::pPilotSetInfo

8.498 nas_PilotSetParams Struct Reference

Data Fields

- uint32_t PilotType
- uint16_t PilotPN
- uint16_t PilotStrength

8.498.1 Detailed Description

This structure contains pilot sets parameters.

Parameters

PilotType	• 0x00 - NAS_HRPD_PILOT_CURR_ACT_PLT Current Active Pilot • 0x01 - NAS_HRPD_PILOT_NEIGHBOR_PLT Neighbor pilot information
PilotPN	• Pilot PN sequence offset index
PilotStrength	• Strength of the pilot (in dB)

8.498.2 Field Documentation

8.498.2.1 uint16_t nas_PilotSetParams::PilotPN

8.498.2.2 uint16_t nas_PilotSetParams::PilotStrength

8.498.2.3 uint32_t nas_PilotSetParams::PilotType

8.499 nas_PLMNNetworkName Struct Reference

Data Fields

- uint8_t numInstance
- nas_PLMNNetworkNameData PLMNNetName [255]

8.499.1 Detailed Description

This structure contains NITZ Information list.

Parameters

numInstance	• Number of sets of the elements.
PLMNNetName	• Refer nas_PLMNNetworkNameData for details (Optional).

8.499.2 Field Documentation

8.499.2.1 uint8_t nas_PLMNNetworkName::numInstance

8.499.2.2 nas_PLMNNetworkNameData nas_PLMNNetworkName::PLMNNetName[255]

8.500 nas_PLMNNetworkNameData Struct Reference

Data Fields

- uint8_t codingScheme
- uint8_t countryInitials
- uint8_t longNameSpareBits
- uint8_t shortNameSpareBits
- uint8_t longNameLen
- uint8_t longName [255]
- uint8_t shortNameLen
- uint8_t shortName [255]

8.500.1 Detailed Description

This structure contains NITZ Information.

Parameters

codingScheme	• Coding scheme: – 0 - CODING_SCHEME_CELL_BROADCAST_GSM - Cell broadcast data coding scheme, GSM default alphabet, language unspecified;defined in 3GPP TS 23.038. – 1 - CODING_SCHEME_UCS2 - UCS2 (16 bit);defined in ISO/IEC 10646
countryInitials	• Country's initials: – 0 - COUNTRY_INITIALS_DO_NOT_ADD - MS should not add the letters for the country's initials to the text string. – 1 - COUNTRY_INITIALS_ADD - MS should add the letters for the country's initials and a separator, e.g., a space, to the text string.
longNameSpare-Bits	• Long Name Spare Bits: – 1 - SPARE_BITS_8 - Bit 8 is spare and set to 0 in octet n – 2 - SPARE_BITS_7_TO_8 - Bits 7 and 8 are spare and set to 0 in octet n. – 3 - SPARE_BITS_6_TO_8 - Bits 6 to 8 (inclusive) are spare and set to 0 in octet n. – 4 - SPARE_BITS_5_TO_8 - Bits 5 to 8 (inclusive) are spare and set to 0 in octet n. – 5 - SPARE_BITS_4_TO_8 - Bits 4 to 8 (inclusive) are spare and set to 0 in octet n. – 6 - SPARE_BITS_3_TO_8 - Bits 3 to 8 (inclusive) are spare and set to 0 in octet n. – 7 - SPARE_BITS_2_TO_8 - Bits 2 to 8 (inclusive) are spare and set to 0 in octet n. – 0 - SPARE_BITS_UNKNOWN - Carries no information about the number of spare bits in octet n.

shortName-SpareBits	• Short Name Spare Bits: – 1 - SPARE_BITS_8 - Bit 8 is spare and set to 0 in octet n. – 2 - SPARE_BITS_7_TO_8 - Bits 7 and 8 are spare and set to 0 in octet n. – 3 - SPARE_BITS_6_TO_8 - Bits 6 to 8 (inclusive) are spare and set to 0 in octet n. – 4 - SPARE_BITS_5_TO_8 - Bits 5 to 8 (inclusive) are spare and set to 0 in octet n. – 5 - SPARE_BITS_4_TO_8 - Bits 4 to 8 (inclusive) are spare and set to 0 in octet n. – 6 - SPARE_BITS_3_TO_8 - Bits 3 to 8 (inclusive) are spare and set to 0 in octet n. – 7 - SPARE_BITS_2_TO_8 - Bits 2 to 8 (inclusive) are spare and set to 0 in octet n. – 0 - SPARE_BITS_UNKNOWN - Carries no information about the number of spare bits in octet n.
longNameLen	• It provides the length of long name.
longName	• Long name string in coding_scheme.
shortNameLen	• It provides the length of short name.
shortName	• Short name string in coding_scheme.

8.500.2 Field Documentation

8.500.2.1 uint8_t nas_PLMNNetworkNameData::codingScheme

8.500.2.2 uint8_t nas_PLMNNetworkNameData::countryInitials

8.500.2.3 uint8_t nas_PLMNNetworkNameData::longName[255]

8.500.2.4 uint8_t nas_PLMNNetworkNameData::longNameLen

8.500.2.5 uint8_t nas_PLMNNetworkNameData::longNameSpareBits

8.500.2.6 uint8_t nas_PLMNNetworkNameData::shortName[255]

8.500.2.7 uint8_t nas_PLMNNetworkNameData::shortNameLen

8.500.2.8 uint8_t nas_PLMNNetworkNameData::shortNameSpareBits

8.501 nas_PRLPrefTlv Struct Reference

Data Fields

- uint16_t PRLPref
- uint8_t TlvPresent

8.501.1 Detailed Description

Contain the PRL preference for system selection preferences.

Parameters

PRLPref	• Parameter indicating the CDMA PRL Preference • Values: – 0x0001 - Acquire available system only on the A side – 0x0002 - Acquire available system only on the B side – 0x3FFF - Acquire any available systems
TlvPresent	• Tlv Present

8.501.2 Field Documentation

8.501.2.1 uint16_t nas_PRLPrefTlv::PRLPref

8.501.2.2 uint8_t nas_PRLPrefTlv::TlvPresent

8.502 nas_protocolSubtypeElement Struct Reference

Data Fields

- uint16_t PhysicalLayer
- uint16_t ControlMac
- uint16_t AccessMac
- uint16_t ForwardMac
- uint16_t ReverseMac
- uint16_t KeyExchange
- uint16_t AuthProt
- uint16_t EncryptProt
- uint16_t SecProt
- uint16_t IdleState
- uint16_t MultDisc
- uint16_t VirtStream

8.502.1 Detailed Description

This structure contains protocol subtype element.

Parameters

PhysicalLayer	• Specifies Physical Layer Protocol subtype
ControlMac	• Specifies Control Channel MAC Protocol subtype
AccessMac	• Specifies Access Channel MAC Protocol subtype

ForwardMac	• Specifies Forward Traffic Channel MAC Protocol subtype
ReverseMac	• Specifies Reverse Traffic Channel MAC Protocol subtype
KeyExchange	• Specifies Key exchange Protocol subtype
AuthProt	• Specifies Authentication Protocol subtype
EncryptProt	• Specifies Encryption Protocol subtype
SecProt	• Specifies Security Protocol subtype
IdleState	• Specifies Idle state Protocol subtype
MultDisc	• Specifies Generic multimode capability discovery Protocol subtype
VirtStream	• Specifies Generic Virtual Stream Protocol subtype

8.502.2 Field Documentation

8.502.2.1 uint16_t nas_protocolSubtypeElement::AccessMac

8.502.2.2 uint16_t nas_protocolSubtypeElement::AuthProt

8.502.2.3 uint16_t nas_protocolSubtypeElement::ControlMac

8.502.2.4 uint16_t nas_protocolSubtypeElement::EncryptProt

8.502.2.5 uint16_t nas_protocolSubtypeElement::ForwardMac

8.502.2.6 uint16_t nas_protocolSubtypeElement::IdleState

8.502.2.7 uint16_t nas_protocolSubtypeElement::KeyExchange

8.502.2.8 uint16_t nas_protocolSubtypeElement::MultDisc

8.502.2.9 uint16_t nas_protocolSubtypeElement::PhysicalLayer

8.502.2.10 uint16_t nas_protocolSubtypeElement::ReverseMac

8.502.2.11 uint16_t nas_protocolSubtypeElement::SecProt

8.502.2.12 uint16_t nas_protocolSubtypeElement::VirtStream

8.503 nas_qaQmi3Gpp2TimeZone Struct Reference

Data Fields

- uint8_t leapSeconds
- uint8_t localTimeOffset
- uint8_t daylightSavings

8.503.1 Detailed Description

This structure contains the 3GPP2TimeZone parameters

Parameters

leapSeconds	• leap seconds - Number of leap seconds since the start of CDMA system time.
localTimeOffset	• Local Time Offset - Offset of system time in units of 30 minutes; the value in this field conveys as 8 bit 2's compliment number.
daylightSavings	• Day Light Savings Indicator – 0x00 - OFF (daylight savings not in effect) – 0x01 - ON (daylight savings in effect)

8.503.2 Field Documentation

8.503.2.1 uint8_t nas_qaQmi3Gpp2TimeZone::daylightSavings

8.503.2.2 uint8_t nas_qaQmi3Gpp2TimeZone::leapSeconds

8.503.2.3 uint8_t nas_qaQmi3Gpp2TimeZone::localTimeOffset

8.504 nas_QmiNas3GppNetworkInfo Struct Reference

Data Fields

- uint16_t MCC
- uint16_t MNC
- uint32_t InUse
- uint32_t Roaming
- uint32_t Forbidden
- uint32_t Preferred
- char Desription [255]

8.504.1 Detailed Description

Contain the 3GPP network information.

Parameters

MCC	• Mobile Country Code
MNC	• Mobile Network Code
InUse	• Is the Network the current serving Network – 0 - Unknown – 1 - Current serving network – 2 - Not current serving network, available
Roaming	• Home/Roam Status of the Network – 0 - Unknown – 1 - Home – 2 - Roam
Forbidden	• Is the Network in the forbidden network list – 0 - Unknown – 1 - Forbidden – 2 - Not Forbidden
Preferred	• Is the Network in the Preferred network list – 0 - Unknown – 1 - Preferred – 2 - Not Preferred
Description	• Network Name/Description • This is a NULL terminated string.

8.504.2 Field Documentation

8.504.2.1 char nas_QmiNas3GppNetworkInfo::Desription[255]

8.504.2.2 uint32_t nas_QmiNas3GppNetworkInfo::Forbidden

8.504.2.3 uint32_t nas_QmiNas3GppNetworkInfo::InUse

8.504.2.4 uint16_t nas_QmiNas3GppNetworkInfo::MCC

8.504.2.5 uint16_t nas_QmiNas3GppNetworkInfo::MNC

8.504.2.6 uint32_t nas_QmiNas3GppNetworkInfo::Preferred

8.504.2.7 uint32_t nas_QmiNas3GppNetworkInfo::Roaming

8.505 nas_QmiNas3GppNetworkRAT Struct Reference

Data Fields

- uint16_t MCC
- uint16_t MNC
- uint8_t RAT

8.505.1 Detailed Description

Contain the 3GPP radio access technology information.

Parameters

MCC	• Mobile Country Code
MNC	• Mobile Network Code
RAT	• Radio Access Technology – 0x04 - GERAN – 0x05 - UMTS – 0x08 - LTE – 0x09 - TD-SCDMA

8.505.2 Field Documentation

8.505.2.1 uint16_t nas_QmiNas3GppNetworkRAT::MCC

8.505.2.2 uint16_t nas_QmiNas3GppNetworkRAT::MNC

8.505.2.3 uint8_t nas_QmiNas3GppNetworkRAT::RAT

8.506 nas_QmisNasPcsDigit Struct Reference

Data Fields

- uint16_t MCC
- uint16_t MNC
- uint8_t includes_pcs_digit

8.506.1 Detailed Description

Contain the PCS Digit information

Parameters

MCC	• Mobile Country Code

MNC	• Mobile Network Code
includes_pcs_digit	• this field is use to interpret the length of corresponding MNC reported • 0x01 - MNC is a three-digit value • 0x00 - MNC is a two-digit value

8.506.2 Field Documentation

8.506.2.1 uint8_t nas_QmisNasPcsDigit::includes_pcs_digit

8.506.2.2 uint16_t nas_QmisNasPcsDigit::MCC

8.506.2.3 uint16_t nas_QmisNasPcsDigit::MNC

8.507 nas_RankIndicatorTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint32_t count0
- uint32_t count1

8.507.1 Detailed Description

Elements for Rank indicator TLV.

Parameters

TlvPresent	• value is 1 if TLV is present, otherwise 0
count0	• count of Rank1
count1	• count of Rank2

8.507.2 Field Documentation

8.507.2.1 uint32_t nas_RankIndicatorTlv::count0

8.507.2.2 uint32_t nas_RankIndicatorTlv::count1

8.507.2.3 uint8_t nas_RankIndicatorTlv::TlvPresent

8.508 nas_RatDisabledMaskTlv Struct Reference

Data Fields

- uint16_t ratDisabledMask
- uint8_t TlvPresent

8.508.1 Detailed Description

Contain the RAT disabled mask

Parameters

ratDisabledMask	• Bitmask representing the radio technologies that are disabled. • Bit values: – Bit 0 (0x01) - cdma2000 ® 1X – Bit 1 (0x02) - cdma2000 ® HRPD(1xEV-DO) – Bit 2 (0x04) - GSM – Bit 3 (0x08) - UMTS – Bit 4 (0x10) - LTE – Bit 5 (0x20) - TD-SCDMA – Bit 6 (0x40) - NR5G All unlisted bits are reserved for future use and the service point ignores them if used.
TlvPresent	• Tlv Present

8.508.2 Field Documentation

8.508.2.1 uint16_t nas_RatDisabledMaskTlv::ratDisabledMask

8.508.2.2 uint8_t nas_RatDisabledMaskTlv::TlvPresent

8.509 nas_RejectReasonTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint32_t serviceDomain
- uint32_t rejectCause

8.509.1 Detailed Description

This structure contains paramaters reject reason.

Parameters

TlvPresent	indicating the presence of the TLV in the QMI ind
serviceDomain	service domain
rejectCause	cause of reject

8.509.2 Field Documentation

8.509.2.1 uint32_t nas_RejectReasonTlv::rejectCause

8.509.2.2 uint32_t nas_RejectReasonTlv::serviceDomain

8.509.2.3 uint8_t nas_RejectReasonTlv::TlvPresent

8.510 nas_RFBandInfoElements Struct Reference

Data Fields

- uint8_t radioInterface
- uint16_t activeBandClass
- uint16_t activeChannel

8.510.1 Detailed Description

This structure contains the RFBandInfo response parameters.

Parameters

radioInterface	• Radio interface technology – See Tables for Radio Interface
activeBandClass	• Active Band Class – See Tables for Band Classes
activeChannel	• Active channel (0 if channel is not relevant to the reported technology)

8.510.2 Field Documentation

8.510.2.1 uint16_t nas_RFBandInfoElements::activeBandClass

8.510.2.2 uint16_t nas_RFBandInfoElements::activeChannel

8.510.2.3 uint8_t nas_RFBandInfoElements::radioInterface

8.511 nas_RfBandInfoExtFormat Struct Reference

Data Fields

- uint8_t TlvPresent
- uint8_t * pInstancesSize
- struct nas_RfBandInfoExtFormatElements * pRfBandInfoExtFormatParam

8.511.1 Detailed Description

This structure contains the nas_RfBandInfoExtFormat response parameters.

Parameters

TlvPresent	• Tlv Present
pInstancesSize[-IN/OUT]	• Number of sets of the RFBandInfoElements • Upon input, maximum number of elements that the RF info instances array can contain. • Upon successful output, actual number of elements in RF info instances array.
pRfBandInfoExt-FormatParam	• See nas_RfBandInfoExtFormatElements for more information

8.511.2 Field Documentation

8.511.2.1 uint8_t* nas_RfBandInfoExtFormat::pInstancesSize

8.511.2.2 struct nas_RfBandInfoExtFormatElements* nas_RfBandInfoExtFormat::pRfBandInfoExtFormatParam

8.511.2.3 uint8_t nas_RfBandInfoExtFormat::TlvPresent

8.512 nas_RfBandInfoExtFormatElements Struct Reference

Data Fields

- uint8_t radioInterface
- uint16_t activeBand
- uint32_t activeChannel

8.512.1 Detailed Description

This structure contains the RF Band Information, Extended Format.

Parameters

radioInterface	• Radio interface technology – See Tables for Radio Interface
activeBand	• Active Band Class – See Tables for Band Classes
activeChannel	• Active channel (0 if channel is not relevant to the reported technology)

8.512.2 Field Documentation

8.512.2.1 uint16_t nas_RfBandInfoExtFormatElements::activeBand

8.512.2.2 uint32_t nas_RfBandInfoExtFormatElements::activeChannel

8.512.2.3 uint8_t nas_RfBandInfoExtFormatElements::radioInterface

8.513 nas_RfBandInfoList Struct Reference

Data Fields

- uint8_t * pInstanceSize
- struct nas_RFBandInfoElements * pRFBandInfoParam

8.513.1 Detailed Description

This structure contains the RfBandInfoList response parameters.

Parameters

pInstanceSize[IN/OUT]	• Number of sets of the RFBandInfoElements • Upon input, maximum number of elements that the RF info instances array can contain. • Upon successful output, actual number of elements in RF info instances array.
pRFBandInfoParam	• See nas_RFBandInfoElements for more information

8.513.2 Field Documentation

8.513.2.1 uint8_t* nas_RfBandInfoList::pInstanceSize

8.513.2.2 struct nas_RFBandInfoElements* nas_RfBandInfoList::pRFBandInfoParam

8.514 nas_RfBandwidthInfo Struct Reference

Data Fields

- uint8_t TlvPresent
- uint8_t * pInstancesSize
- struct nas_RfBandwidthInfoElements * pRfBandwidthInfoParam

8.514.1 Detailed Description

This structure contains the nas_RfBandwidthInfo response parameters.

Parameters

TlvPresent	• Tlv Present
pInstancesSize[IN/OUT]	• Number of sets of the RFBandInfoElements • Upon input, maximum number of elements that the RF info instances array can contain. • Upon successful output, actual number of elements in RF info instances array.

pRfBandwidth-InfoParam	• See nas_RfBandwidthInfoElements for more information

8.514.2 Field Documentation

8.514.2.1 uint8_t* nas_RfBandwidthInfo::pInstancesSize

8.514.2.2 struct nas_RfBandwidthInfoElements* nas_RfBandwidthInfo::pRfBandwidthInfoParam

8.514.2.3 uint8_t nas_RfBandwidthInfo::TlvPresent

8.515 nas_RfBandwidthInfoElements Struct Reference

Data Fields

- uint8_t radioInterface
- uint32_t bandwidth

8.515.1 Detailed Description

This structure contains the RF Bandwidth Information List parameters.

Parameters

radioInterface	• Radio interface technology – See Tables for Radio Interface

bandwidth	• Bandwidth
	  – Values
	  * NAS_LTE_BW_NRB_6 (0) - LTE 1.4 MHz bandwidth
	  * NAS_LTE_BW_NRB_15 (1) - LTE 3 MHz bandwidth
	  * NAS_LTE_BW_NRB_25 (2) - LTE 5 MHz bandwidth
	  * NAS_LTE_BW_NRB_50 (3) - LTE 10 MHz bandwidth
	  * NAS_LTE_BW_NRB_75 (4) - LTE 15 MHz bandwidth
	  * NAS_LTE_BW_NRB_100 (5) - LTE 20 MHz bandwidth
	  * NAS_NR5G_BW_NRB_6 (6) - NR5G 1.4 MHz bandwidth
	  * NAS_NR5G_BW_NRB_15 (7) - NR5G 3 MHz bandwidth
	  * NAS_NR5G_BW_NRB_25 (8) - NR5G 5 MHz bandwidth
	  * NAS_NR5G_BW_NRB_50 (9) - NR5G 10 MHz bandwidth
	  * NAS_NR5G_BW_NRB_75 (10) - NR5G 15 MHz bandwidth
	  * NAS_NR5G_BW_NRB_100 (11) - NR5G 20 MHz bandwidth

8.515.2 Field Documentation

8.515.2.1 uint32_t nas_RfBandwidthInfoElements::bandwidth

8.515.2.2 uint8_t nas_RfBandwidthInfoElements::radioInterface

8.516 nas_RfDedicatedBandInfo Struct Reference

Data Fields

- uint8_t TlvPresent
- uint8_t * pInstancesSize
- struct nas_RfDedicatedBandInfoElements * pRfDedicatedBandInfoParam

8.516.1 Detailed Description

This structure contains the nas_RfDedicatedBandInfo response parameters.

Parameters

TlvPresent	• Tlv Present
pInstancesSize[-IN/OUT]	• Number of sets of the RFBandInfoElements • Upon input, maximum number of elements that the RF info instances array can contain. • Upon successful output, actual number of elements in RF info instances array.
pRfDedicated-BandInfoParam	• See nas_RfDedicatedBandInfoElements for more information

8.516.2 Field Documentation

8.516.2.1 uint8_t* nas_RfDedicatedBandInfo::pInstancesSize

8.516.2.2 struct nas_RfDedicatedBandInfoElements* nas_RfDedicatedBandInfo::pRfDedicatedBandInfoParam

8.516.2.3 uint8_t nas_RfDedicatedBandInfo::TlvPresent

8.517 nas_RfDedicatedBandInfoElements Struct Reference

Data Fields

- uint8_t radioInterface
- uint16_t dedicatedBand

8.517.1 Detailed Description

This structure contains the RF Dedicated Band Info.

Parameters

radioInterface	• Radio interface technology – See Tables for Radio Interface

dedicatedBand	• Dedicated Band Class – See Tables for Band Classes

8.517.2 Field Documentation

8.517.2.1 uint16_t nas_RfDedicatedBandInfoElements::dedicatedBand

8.517.2.2 uint8_t nas_RfDedicatedBandInfoElements::radioInterface

8.518 nas_RFInfoTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint8_t radioInterfaceSize
- uint32_t radioInterface [255]
- uint32_t activeBandClass [255]
- uint32_t activeChannel [255]

8.518.1 Detailed Description

This structure contains paramaters RF Band Information List.

Parameters

TlvPresent	indicating the presence of the TLV in the QMI ind
radioInterface-Size	Number of sets of the following elements • radioInterface • activeBandClass • activeChannel
radioInterface	radio interface technology of the signal being measured • 0x01 - cdma2000 1X • 0x02 - cdma2000 HRPD (1xEV-DO) • 0x03 - AMPS • 0x04 - GSM • 0x05 - UMTS • 0x08 - LTE • 0x09 - TD-SCDMA
activeBandClass	active band class • 00 to 39 - CDMA band classes • 40 to 79 - GSM band classes • 80 to 91 - WCDMA band classes • 120 to 160 - LTE band classes • 200 to 205 - TD-SCDMA band classes
activeChannel	active channel • Active channel. If the channel is not relevant to the technology, a value of 0 is returned.

8.518.2 Field Documentation

8.518.2.1 uint32_t nas_RFInfoTlv::activeBandClass[255]

8.518.2.2 uint32_t nas_RFInfoTlv::activeChannel[255]

8.518.2.3 uint32_t nas_RFInfoTlv::radioInterface[255]

8.518.2.4 uint8_t nas_RFInfoTlv::radioInterfaceSize

8.518.2.5 uint8_t nas_RFInfoTlv::TlvPresent

8.519 nas_roamIndList Struct Reference

Data Fields

- uint8_t numInstances
- uint8_t radioInterface [32]
- uint8_t roamIndicator [32]

8.519.1 Detailed Description

This structure contains the Roaming Indicator List

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

numInstances	• number of sets of radio interface currently in use and roaming indicator – defaults to zero
radioInterface	• Radio Interface currently in use • Values: – 0x01 - RADIO_IF_CDMA_1X - cdma2000 1X – 0x02 - RADIO_IF_CDMA_1XEVDO - cdma2000 HRPD (1xEV-DO) – 0x03 - RADIO_IF_AMPS - AMPS – 0x04 - RADIO_IF_GSM - GSM – 0x05 - RADIO_IF_UMTS - UMTS – 0x08 - RADIO_IF_LTE - LTE
roamIndicator	• Roaming Indicator • Values: – 0x00 - Roaming – 0x01 - Home

8.519.2 Field Documentation

8.519.2.1 uint8_t nas_roamIndList::numInstances

8.519.2.2 uint8_t nas_roamIndList::radioInterface[32]

8.519.2.3 uint8_t nas_roamIndList::roamIndicator[32]

8.520 nas_RoamPrefTlv Struct Reference

Data Fields

- uint16_t RoamPref
- uint8_t TlvPresent

8.520.1 Detailed Description

Contain the roaming preference for system selection preferences.

Parameters

RoamPref	• Parameter indicating the roaming Preference • Values: – 0x01 - Acquire only systems for which the roaming indicator is off – 0x02 - Acquire a system as long as its roaming indicator is not off – 0x03 - Acquire only systems for which the roaming indicator is off or solid on, i.e. not flashing; CDMA only – 0xFF - Acquire systems, regardless of their roaming indicator
TlvPresent	• Tlv Present

8.520.2 Field Documentation

8.520.2.1 uint16_t nas_RoamPrefTlv::RoamPref

8.520.2.2 uint8_t nas_RoamPrefTlv::TlvPresent

8.521 nas_RSRPThresh Struct Reference

Data Fields

- uint8_t RSRPThresListLen
- int16_t * pRSRPThresList

8.521.1 Detailed Description

This structure contains RSRP threshold list.

Parameters

RSRPThresList-Len	• Length of the RSRP threshold list parameter to follow
pRSRPThresList	• Sequence of thresholds delimiting current RSRP event reporting bands • Every time a new RSRP value crosses a specified threshold value, an event report indication message with the new RSRQ value is sent to the requesting control point. For this field – RSRP values are applicable only for LTE – RSRP values are measured in dBm, with a range of -44 dBm to -140 dBm – Each RSRP threshold value is a signed byte value – Maximum number of threshold values is 16 – At least one value must be specified

8.521.2 Field Documentation

8.521.2.1 int16_t∗ nas_RSRPThresh::pRSRPThresList

8.521.2.2 uint8_t nas_RSRPThresh::RSRPThresListLen

8.522 nas_rsrqInformation Struct Reference

Data Fields

- int8_t rsrq
- uint8_t radioIf

8.522.1 Detailed Description

This structure contains the RSRQ Information

Parameters

rsrq	• RSRQ value in dB (signed integer value); valid range is -3 to -20 (-3 means -3 dB, -20 means -20 dB)
radioIf	• Radio interface technology of the signal being measured – 0x08 – LTE

8.522.2 Field Documentation

8.522.2.1 uint8_t nas_rsrqInformation::radioIf

8.522.2.2 int8_t nas_rsrqInformation::rsrq

8.523 nas_RSRQThresh Struct Reference

Data Fields

- uint8_t RSRQThresListLen
- int8_t * pRSRQThresList

8.523.1 Detailed Description

This structure contains RSRQ threshold list.

Parameters

RSRQThresList-Len	• Length of the RSRQ threshold list parameter to follow
pRSRQThresList	• Sequence of thresholds delimiting current RSRQ event reporting bands • Every time a new RSRQ value crosses a threshold value, an event report indication message with the new RSRQ value is sent to the requesting control point. For this field – RSRQ values are applicable only for LTE – RSRQ values are measured in dBm, with a range of -20 dBm to -3 dBm – Each RSRQ threshold value is a signed byte value – Maximum number of threshold values is 16 – At least one value must be specified

8.523.2 Field Documentation

8.523.2.1 int8_t* nas_RSRQThresh::pRSRQThresList

8.523.2.2 uint8_t nas_RSRQThresh::RSRQThresListLen

8.524 nas_RSSIThresh Struct Reference

Data Fields

- uint8_t RSSIThresListLen
- int8_t * pRSSIThresList

8.524.1 Detailed Description

This sturcture contain RSSI threshold list.

Parameters

RSSIThresList-Len	• Length of the RSSI threshold list parameter to follow
pRSSIThresList	• RSSI in dBm(signed bytes) • A value of -125 dBm or lower is used to indicate No Signal • RSSI values have the following ranges (in dBm) – CDMA is -105 to -21 – HDR is -118 to -13 – GSM is -111 to -48 – WCDMA is -121 to 0 – LTE is -120 to 0 • Threshold values specified above are used for all RATs • The maximum number of threshold values is 16, each a signed byte value.

8.524.2 Field Documentation

8.524.2.1 int8_t∗ nas_RSSIThresh::pRSSIThresList

8.524.2.2 uint8_t nas_RSSIThresh::RSSIThresListLen

8.525 nas_rxInfo Struct Reference

Data Fields

- uint8_t isRadioTuned
- int32_t rxPower
- int32_t ecio
- int32_t rscp
- int32_t rsrp
- uint32_t phase

8.525.1 Detailed Description

This structure contains rx radio infomation.

Parameters

isRadioTuned	• Whether Rx is tuned to a channel: – 0x00 - Not tuned – 0x01 - Tuned – 0xFF - Not Available • If the radio is tuned, instantaneous values are set for the signal information fields below. • If the radio is not tuned, or is delayed or invalid, the values are set depending on each technology.
rx_pwr	• Rx power value in 1/10 dbm resolution.

ecio	• ECIO in 1/10 dB; valid for CDMA, HDR, GSM, WCDMA, and LTE.
rscp	• Received signal code power in 1/10 dbm. • Valid for WCDMA.
rsrp	• Current reference signal received power in 1/10 dbm valid for LTE.
phase	• Phase in 1/100 degrees; valid for LTE. • When the phase is unknown, 0xFFFFFFFF is used.

8.525.2 Field Documentation

8.525.2.1 int32_t nas_rxInfo::ecio

8.525.2.2 uint8_t nas_rxInfo::isRadioTuned

8.525.2.3 uint32_t nas_rxInfo::phase

8.525.2.4 int32_t nas_rxInfo::rscp

8.525.2.5 int32_t nas_rxInfo::rsrp

8.525.2.6 int32_t nas_rxInfo::rxPower

8.526 nas_RxSigInfo Struct Reference

Data Fields

- uint8_t rxChainIndex
- uint8_t isRadioTuned
- int32_t rxPower
- int32_t rsrp

8.526.1 Detailed Description

This structure contains the parameters for Rx Signal Info.

Parameters

rxChainIndex	• Rx antenna path
	• Valid Values
	  – 0 - Primary Rx
	  – 1 - Diversity Rx

isRadioTuned	• Rx path is tuned to a channel or Not • Values – 0x00 - Not tuned – 0x01 - Tuned

Note

If the radio is tuned, the instantaneous values are set for the fields below. If the radio is not tuned, the values set below may be invalid.

Parameters

rxPower	• Rx power value in 1/10 dBm resolution
rsrp	• Current reference signal received power in 1/10 dBm resolution

8.526.2 Field Documentation

8.526.2.1 uint8_t nas_RxSigInfo::isRadioTuned

8.526.2.2 int32_t nas_RxSigInfo::rsrp

8.526.2.3 uint8_t nas_RxSigInfo::rxChainIndex

8.526.2.4 int32_t nas_RxSigInfo::rxPower

8.527 nas_rxSignalStrengthListElement Struct Reference

Data Fields

- int16_t rxSignalStrength
- uint8_t radioIf

8.527.1 Detailed Description

This structure contains the Received Signal Strength Information

Parameters

rxSignalStrength	• Received signal strength in dBm – For CDMA and UMTS, this indicates forward link pilotEc. – For GSM, the received signal strength. – For LTE, this indicates the total received wideband power observed by UE.

radioIf	• Radio interface technology of the signal being radio_if measured – 0x00 – RADIO_IF_NO_SVC – None (no service) – 0x01 – RADIO_IF_CDMA_1X – cdma2000® 1X – 0x02 – RADIO_IF_CDMA_1XEVDO – cdma2000 HRPD (1xEV-DO) – 0x03 – RADIO_IF_AMPS – AMPS – 0x04 – RADIO_IF_GSM – GSM – 0x05 – RADIO_IF_UMTS – UMTS – 0x08 – RADIO_IF_LTE – LTE

Note

First elemnet of the RSSI list always contains the current Signal strength and Radio Interface.

8.527.2 Field Documentation

8.527.2.1 uint8_t nas_rxSignalStrengthListElement::radioIf

8.527.2.2 int16_t nas_rxSignalStrengthListElement::rxSignalStrength

8.528 nas_SccRxInfo Struct Reference

Data Fields

- int32_t rsrq
- int16_t snr
- uint8_t numInstances
- nas_RxSigInfo sigInfo [255]
- uint8_t TlvPresent

8.528.1 Detailed Description

This structure contains information about the SccRxInfo parameters.

Parameters

rsrq	• Current reference signal • Receive quality in 1/10 dB resolution
snr	• Reference signal signal-to-noise ratio in dB. • Range -10 to 30
numInstances	• Number of sets of the following – rxChainIndex – isRadioTuned – rxPower – rsrp

sigInfo	• See nas_RxSigInfo for more information
TlvPresent	• Tlv Present.

8.528.2 Field Documentation

8.528.2.1 uint8_t nas_SccRxInfo::numInstances

8.528.2.2 int32_t nas_SccRxInfo::rsrq

8.528.2.3 nas_RxSigInfo nas_SccRxInfo::sigInfo[255]

8.528.2.4 int16_t nas_SccRxInfo::snr

8.528.2.5 uint8_t nas_SccRxInfo::TlvPresent

8.529 nas_serviceProviderName Struct Reference

Data Fields

- uint8_t displayCondition
- uint8_t spnLength
- uint8_t spn [255]

8.529.1 Detailed Description

This structure contains service provider name.

Parameters

displayCondition	• Display condition.
spnLength	• It provides length of spn.
spn	• Service provider name string must use: The SMS default 7-bit coded alphabet as defined in 3GPP TS 23.038 with bit 8 set to 9.

8.529.2 Field Documentation

8.529.2.1 uint8_t nas_serviceProviderName::displayCondition

8.529.2.2 uint8_t nas_serviceProviderName::spn[255]

8.529.2.3 uint8_t nas_serviceProviderName::spnLength

8.530 nas_servSystem Struct Reference

Data Fields

- uint8_t regState
- uint8_t csAttachState
- uint8_t psAttachState
- uint8_t selNetwork
- uint8_t numRadioInterfaces
- uint8_t radioInterface [32]

8.530.1 Detailed Description

This structure contains the Serving System parameters

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

regState	• Registration state - Registration state of the mobile • Values: – 0 - Not Registered; mobile is not currently searching for a new network to provide service – 1 - Registered with a network – 2 - Not registered, but mobile is currently searching for a new network to provide service – 3 - Registration denied by visible network – 4 - Registration state is unknown
csAttachState	• CS Attach State - Circuit-switched domain attach state of the mobile • Values: – 0 - Unknown or not applicable – 1 - Attached – 2 - Detached
psAttachState	• PS Attach State - Packet-switched domain attach state of the mobile • Values: – 0 - Unknown or not applicable – 1 - Attached – 2 - Detached
selNetwork	• Selected Network - Type of selected radio access network • Values: – 0 - Unknown – 1 - 3GPP2 network – 2 - 3GPP network
numRadio-Interfaces	• In Use Radio Interfaces Number – Number of radio interfaces currently in use – defaults to zero

radioInterface	• Radio Interface currently in use • Values: – 0x00 - RADIO_IF_NO_SVC - None(no service) – 0x01 - RADIO_IF_CDMA_1X - cdma2000 1X – 0x02 - RADIO_IF_CDMA_1XEVDO - cdma2000 HRPD (1xEV-DO) – 0x03 - RADIO_IF_AMPS - AMPS – 0x04 - RADIO_IF_GSM - GSM – 0x05 - RADIO_IF_UMTS - UMTS – 0x08 - RADIO_IF_LTE - LTE

8.530.2 Field Documentation

8.530.2.1 uint8_t nas_servSystem::csAttachState

8.530.2.2 uint8_t nas_servSystem::numRadioInterfaces

8.530.2.3 uint8_t nas_servSystem::psAttachState

8.530.2.4 uint8_t nas_servSystem::radioInterface[32]

8.530.2.5 uint8_t nas_servSystem::regState

8.530.2.6 uint8_t nas_servSystem::selNetwork

8.531 nas_sidNid Struct Reference

Data Fields

- uint16_t nid
- uint16_t sid

8.531.1 Detailed Description

This structure contains the parameters for SidNid Information

Parameters

nid	• Network ID
sid	• System ID

8.531.2 Field Documentation

8.531.2.1 uint16_t nas_sidNid::nid

8.531.2.2 uint16_t nas_sidNid::sid

8.532 nas_SignalStrengthTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- int8_t signalStrength
- uint32_t radioInterface

8.532.1 Detailed Description

This structure contains paramaters Signal Strength.

Parameters

TlvPresent	indicating the presence of the TLV in the QMI ind
signalStrength	signal strength
radioInterface	radio interface technology of the signal being measured

8.532.2 Field Documentation

8.532.2.1 uint32_t nas_SignalStrengthTlv::radioInterface

8.532.2.2 int8_t nas_SignalStrengthTlv::signalStrength

8.532.2.3 uint8_t nas_SignalStrengthTlv::TlvPresent

8.533 nas_SLQSSignalStrengthsIndReq Struct Reference

Data Fields

- uint8_t rxSignalStrengthDelta
- uint8_t ecioDelta
- uint8_t ioDelta
- uint8_t sinrDelta
- uint8_t rsrqDelta
- uint8_t ecioThresholdListLen
- int16_t ecioThresholdList [10]
- uint8_t sinrThresholdListLen
- uint8_t sinrThresholdList [5]
- uint16_t lteSnrDelta
- uint8_t lteRsrpDelta

8.533.1 Detailed Description

Structure for storing the input parameters passed for SLQSSetSignalStrengthsCallback by the user.

Parameters

rxSignal-StrengthDelta	• RSSI delta(in dBm) at which an event report indication, including the current RSSI, will be sent to the requesting control point.

ecioDelta	• ECIO delta at which an event report indication, ecioDelta including the current ECIO, will be sent to the requesting control point. • ECIO delta is an unsigned 1 byte value that increments in negative 0.5 dBm, e.g., ecio_delta of 2 means a change of -1 dBm.
ioDelta	• IO delta (in dBm) at which an event report indication, ioDelta including the current IO, will be sent to the requesting control point.
sinrDelta	• SINR delta level at which an event report indication, sinrDelta including the current SINR, will be sent to the requesting control point.
rsrqDelta	• RSRQ delta level at which an event report indication, including the current RSRQ, will be sent to the requesting control point.
ecioThreshold-ListLen	• Number of elements in the ECIO threshold list.
ecioThreshold-List	• A sequence of thresholds delimiting Ecio event reporting bands. Every time a new Ecio value crosses a threshold value, an event report indication message with the new ECIO value is sent to the requesting control point. For this field: – Maximum number of threshold values is 10 – At least one value must be specified.
sinrThreshold-ListLen	• Number of elements in the SINR threshold list.
sinrThreshold-List	• A sequence of thresholds delimiting SINR event reporting bands. Every time a new SINR value crosses a threshold value, an event report indication message with the new sinr value is sent to the requesting control point. For this field: – Maximum number of threshold values is 5 – At least one value must be specified.
ltesnrdelta	• LTE SNR delta level at which an event report indication, including the current SNR, will be sent to the requesting control point. LTE SNR delta level is an unsigned 2 byte value, representing the delta in units of 0.1 dB, e.g., lte_snr_delta of 3 means a change 0.3dB.
ltersrpdelta	-LTE RSRP delta level at which an event report -indication, including the current RSRP, will be sent -to the requesting control point. LTE RSRP delta -level is an unsigned 1 byte value, representing the -delta in dB.

8.533.2 Field Documentation

8.533.2.1 uint8_t nas_SLQSSignalStrengthsIndReq::ecioDelta

8.533.2.2 int16_t nas_SLQSSignalStrengthsIndReq::ecioThresholdList[10]

8.533.2.3 uint8_t nas_SLQSSignalStrengthsIndReq::ecioThresholdListLen

8.533.2.4 uint8_t nas_SLQSSignalStrengthsIndReq::ioDelta

8.533.2.5 uint8_t nas_SLQSSignalStrengthsIndReq::lteRsrpDelta

8.533.2.6 uint16_t nas_SLQSSignalStrengthsIndReq::lteSnrDelta

8.533.2.7 uint8_t nas_SLQSSignalStrengthsIndReq::rsrqDelta

8.533.2.8 uint8_t nas_SLQSSignalStrengthsIndReq::rxSignalStrengthDelta

8.533.2.9 uint8_t nas_SLQSSignalStrengthsIndReq::sinrDelta

8.533.2.10 uint8_t nas_SLQSSignalStrengthsIndReq::sinrThresholdList[5]

8.533.2.11 uint8_t nas_SLQSSignalStrengthsIndReq::sinrThresholdListLen

8.534 nas_SLQSSignalStrengthsInformation Struct Reference

Data Fields

- nas_rxSignalStrengthListElement rxSignalStrengthInfo
- nas_ecioListElement ecioInfo
- uint32_t io
- uint8_t sinr
- nas_errorRateListElement errorRateInfo
- nas_rsrqInformation rsrqInfo
- nas_lteSnrinformation lteSnrinfo
- nas_lteRsrpinformation lteRsrpinfo

8.534.1 Detailed Description

This structure contains paramaters signal strengths information.

Parameters

rxSignal-StrengthInfo	signal strength info list
ecioInfo	ecio info list
io	received IO in dBm; IO is only applicable for 1xEV-DO
sinr	SINR level
errorRateInfo	error rate info
rsrqInfo	rsrq info
lteSnrinfo	lte Snr information
lteRsrpinfo	lte rsrp info

8.534.2 Field Documentation

8.534.2.1 nas_ecioListElement nas_SLQSSignalStrengthsInformation::ecioInfo

8.534.2.2 nas_errorRateListElement nas_SLQSSignalStrengthsInformation::errorRateInfo

8.534.2.3 uint32_t nas_SLQSSignalStrengthsInformation::io

8.534.2.4 nas_IteRsrpinformation nas_SLQSSignalStrengthsInformation::IteRsrpinfo

8.534.2.5 nas_IteSnrinformation nas_SLQSSignalStrengthsInformation::IteSnrinfo

8.534.2.6 nas_rsrqInformation nas_SLQSSignalStrengthsInformation::rsrqInfo

8.534.2.7 nas_rxSignalStrengthListElement nas_SLQSSignalStrengthsInformation::rxSignalStrengthInfo

8.534.2.8 uint8_t nas_SLQSSignalStrengthsInformation::sinr

8.535 nas_SLQSSignalStrengthsTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- nas_SLQSSignalStrengthsInformation sSLQSSignalStrengthsInfo

8.535.1 Detailed Description

This structure contains paramaters SLQS Signal Strength.

Parameters

TlvPresent	indicating the presence of the TLV in the QMI ind
sSLQSSignal-StrengthsInfo	signal strength info

8.535.2 Field Documentation

8.535.2.1 nas_SLQSSignalStrengthsInformation nas_SLQSSignalStrengthsTlv::sSLQSSignalStrengthsInfo

8.535.2.2 uint8_t nas_SLQSSignalStrengthsTlv::TlvPresent

8.536 nas_SrvDomainPrefTlv Struct Reference

Data Fields

- uint32_t SrvDomainPref
- uint8_t TlvPresent

8.536.1 Detailed Description

Contain the Service domain Preference for system selection preferences.

Parameters

SrvDomainPref	• Parameter indicating Service domain preference • Values: – 0x00 - Circuit switched only – 0x01 - Packet switched only – 0x02 - Circuit switched and packet switched – 0x03 - Packet switched attach – 0x04 - Packet switched detach
TlvPresent	• Tlv Present

8.536.2 Field Documentation

8.536.2.1 uint32_t nas_SrvDomainPrefTlv::SrvDomainPref

8.536.2.2 uint8_t nas_SrvDomainPrefTlv::TlvPresent

8.537 nas_SrvStatusInfo Struct Reference

Data Fields

- uint8_t srvStatus
- uint8_t isPrefDataPath

8.537.1 Detailed Description

Structure for storing the service status information for CDMA and HDR networks.

Parameters

srvStatus	• Service status of the system. – 0x00 - No service – 0x01 - Limited service – 0x02 - Service – 0x03 - Limited regional service – 0x04 - Power save – 0xFF - Not Available
isPrefDataPath	• Whether the RAT is the preferred data path. – 0x00 - Not preferred – 0x01 - Preferred – 0xFF - Not Available

8.537.2 Field Documentation

8.537.2.1 uint8_t nas_SrvStatusInfo::isPrefDataPath

8.537.2.2 uint8_t nas_SrvStatusInfo::srvStatus

8.538 nas_sysInfoCommon Struct Reference

Data Fields

- uint8_t srvDomainValid
- uint8_t srvDomain
- uint8_t srvCapabilityValid
- uint8_t srvCapability
- uint8_t roamStatusValid
- uint8_t roamStatus
- uint8_t isSysForbiddenValid
- uint8_t isSysForbidden

8.538.1 Detailed Description

Structure for storing the System Information common to CDMA, HDR, GSM, WCDMA and LTE networks.

Parameters

srvDomainValid	• Indicates whether the service domain is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
srvDomain	• Service domain registered on the system. – 0x00 - No service – 0x01 - Circuit-switched only – 0x02 - Packet-switched only – 0x03 - Circuit-switched and packet-switched – 0x04 - Camped – 0xFF - Not Available
srvCapability-Valid	• Indicates whether the service capability is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
srvCapability	• Current system's service capability. – 0x00 - No service – 0x01 - Circuit-switched only – 0x02 - Packet-switched only – 0x03 - Circuit-switched and packet-switched – 0x04 - Camped – 0xFF - Not Available

roamStatusValid	• Indicates whether the roaming status is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
roamStatus	• Current roaming status. – 0x00 - Off – 0x01 - On – 0x02 - Blinking – 0x03 - Out of the neighborhood – 0x04 - Out of the building – 0x05 - Preferred system – 0x06 - Available system – 0x07 - Alliance partner – 0x08 - Premium partner – 0x09 - Full service – 0x0A - Partial service – 0x0B - Banner is on – 0x0C - Banner is off – 0x0D to 0x3F - Reserved for Standard Enhanced Roaming Indicator Numbers – 0x40 to 0x7F - Reserved for Non-Standard Enhanced Roaming Indicator Numbers – 0x40 to 0xFF - Reserved. – 0xFF - Not Available • Values from 0x02 onward are only applicable for 3GPP2
isSysForbidden-Valid	• Indicates whether the forbidden system is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
isSysForbidden	• Whether the system is forbidden. – 0x00 - Not forbidden – 0x01 - Forbidden – 0xFF - Not Available

8.538.2 Field Documentation

8.538.2.1 uint8_t nas_sysInfoCommon::isSysForbidden

8.538.2.2 uint8_t nas_sysInfoCommon::isSysForbiddenValid

8.538.2.3 uint8_t nas_sysInfoCommon::roamStatus

8.538.2.4 uint8_t nas_sysInfoCommon::roamStatusValid

8.538.2.5 uint8_t nas_sysInfoCommon::srvCapability

8.538.2.6 uint8_t nas_sysInfoCommon::srvCapabilityValid

8.538.2.7 uint8_t nas_sysInfoCommon::srvDomain

8.538.2.8 uint8_t nas_sysInfoCommon::srvDomainValid

8.539 nas_TDSCDMAECIOThresh Struct Reference

Data Fields

- uint8_t TDSCDMAECIOThreshListLen
- float * pTDSCDMAECIOThreshList

8.539.1 Detailed Description

This structure contains TDSCDMA ECIO threshold related parameters.

Parameters

TDSCDMAECIOThreshListLen	• Length of the TDSCDMA ECIO threshold list parameter to follow
pTDSCDMAECIOThreshList	• Array of ECIO thresholds (in dB) used by TD-SCDMA • Maximum of 32 values.

8.539.2 Field Documentation

8.539.2.1 float* nas_TDSCDMAECIOThresh::pTDSCDMAECIOThreshList

8.539.2.2 uint8_t nas_TDSCDMAECIOThresh::TDSCDMAECIOThreshListLen

8.540 nas_TDSCDMARSCPThresh Struct Reference

Data Fields

- uint8_t TDSCDMARSCPThreshListLen
- int16_t * pTDSCDMARSCPThreshList

8.540.1 Detailed Description

This structure contains TDSCDMA RSCP threshold related parameters.

Parameters

TDSCDMARSCPThreshListLen	• Length of the TDSCDMA RSCP threshold list parameter to follow

pTDSCDMARS-CPThreshList	• Array of RSCP thresholds (in units of 0.1 dBm) • Maximum of 32 values • Range for RSCP values: -120 to -25 (in dBm).

8.540.2 Field Documentation

8.540.2.1 int16_t∗ nas_TDSCDMARSCPThresh::pTDSCDMARSCPThreshList

8.540.2.2 uint8_t nas_TDSCDMARSCPThresh::TDSCDMARSCPThreshListLen

8.541 nas_TDSCDMARSSIThresh Struct Reference

Data Fields

- uint8_t TDSCDMARSSIThreshListLen
- float ∗ pTDSCDMARSSIThreshList

8.541.1 Detailed Description

This structure contains TDSCDMA RSSI threshold related parameters.

Parameters

TDSCDMARSS-IThreshListLen	• Length of the TDSCDMA RSSI threshold list parameter to follow
pTDSCDMARS-SIThreshList	• Array of RSSI thresholds (in dBm) used by TD-SCDMA • Maximum of 32 values.

8.541.2 Field Documentation

8.541.2.1 float∗ nas_TDSCDMARSSIThresh::pTDSCDMARSSIThreshList

8.541.2.2 uint8_t nas_TDSCDMARSSIThresh::TDSCDMARSSIThreshListLen

8.542 nas_TDSCDMASINRCONFThresh Struct Reference

Data Fields

- uint8_t TDSCDMASINRCONFThreshListLen
- float ∗ pTDSCDMASINRCONFThreshList

8.542.1 Detailed Description

This structure contains TDSCDMA SINR threshold list.

Parameters

TDSCDMASINRCONFThreshListLen	• Length of the TDSCDMA SINR threshold list parameter to follow
pTDSCDMASINRCONFThreshList	• Array of SINR thresholds (in dB) used by TD-SCDMA • Maximum of 32 values

8.542.2 Field Documentation

8.542.2.1 float∗ nas_TDSCDMASINRCONFThresh::pTDSCDMASINRCONFThreshList

8.542.2.2 uint8_t nas_TDSCDMASINRCONFThresh::TDSCDMASINRCONFThreshListLen

8.543 nas_TDSCDMASINRThresh Struct Reference

Data Fields

- uint8_t TDSCDMASINRThreshListLen
- float ∗ pTDSCDMASINRThreshList

8.543.1 Detailed Description

This structure contains TDSCDMA SINR threshold related parameters.

Parameters

TDSCDMASINRThreshListLen	• Length of the TDSCDMA SINR threshold list parameter to follow
pTDSCDMASINRThreshList	• Array of SINR thresholds (in dB) used by TD-SCDMA • Maximum of 32 values

8.543.2 Field Documentation

8.543.2.1 float∗ nas_TDSCDMASINRThresh::pTDSCDMASINRThreshList

8.543.2.2 uint8_t nas_TDSCDMASINRThresh::TDSCDMASINRThreshListLen

8.544 nas_timeInfo Struct Reference

Data Fields

- uint16_t year
- uint8_t month
- uint8_t day
- uint8_t hour
- uint8_t minute
- uint8_t second

- uint8_t dayOfWeek
- int8_t timeZone
- uint8_t dayLtSavingAdj
- uint8_t radioInterface
- uint8_t TlvPresent

8.544.1 Detailed Description

This structure contains the parameters for Network Time.

Parameters

year	• Year
month	• Month • 1 is January and 12 is December
day	• Day • Range - 1 to 31
hour	• Hour • Range - 0 to 59
minute	• Minute • Range - 0 to 59
second	• Second • Range - 0 to 59
dayOfWeek	• Day of the week • 0 is Monday and 6 is Sunday
timeZone	• Offset from Universal time • The difference between local time and Universal time, in increments of 15 min • Signed Value
dayLtSavingAdj	• Daylight saving adjustment in hours • Possible values - 0, 1, and 2. • This field is ignored if radio_if is NAS_RADIO_IF_CDMA_1XEVDO

radioInterface	• Radio interface from which the information comes • Values – 0x01 - NAS_RADIO_IF_CDMA_1X - cdma2000 1X – 0x02 - NAS_RADIO_IF_CDMA_1XEVDO - cdma2000 HRPD (1xEV-DO) – 0x04 - NAS_RADIO_IF_GSM - GSM – 0x05 - NAS_RADIO_IF_UMTS - UMTS – 0x08 - NAS_RADIO_IF_LTE - LTE – 0x09 - NAS_RADIO_IF_TDSCDMA -TD-SCDMA
TlvPresent	• Tlv Present.

8.544.2 Field Documentation

8.544.2.1 uint8_t nas_timeInfo::day

8.544.2.2 uint8_t nas_timeInfo::dayLtSavingAdj

8.544.2.3 uint8_t nas_timeInfo::dayOfWeek

8.544.2.4 uint8_t nas_timeInfo::hour

8.544.2.5 uint8_t nas_timeInfo::minute

8.544.2.6 uint8_t nas_timeInfo::month

8.544.2.7 uint8_t nas_timeInfo::radioInterface

8.544.2.8 uint8_t nas_timeInfo::second

8.544.2.9 int8_t nas_timeInfo::timeZone

8.544.2.10 uint8_t nas_timeInfo::TlvPresent

8.544.2.11 uint16_t nas_timeInfo::year

8.545 nas_trueIMSI Struct Reference

Data Fields

- uint8_t mccT [3]
- uint16_t imsiT1112
- uint8_t imsiTS1 [7]
- uint8_t imsiTS2 [3]
- uint8_t imsiTaddrNum

8.545.1 Detailed Description

This structure contains True IMSI.

Parameters

mccT	• ASCII character representation of MCC_T
imsiT1112	• ASCII character representation of IMSI_T_11_12 value – 0xFFFF - Not Available
imsiTS1	• ASCII character representation of IMSI_T_S1 value
imsiTS2	• ASCII character representation of IMSI_T_S2 value
imsiTaddrNum	• Value of IMSI_T_ADDR_NUM – 0xFF - Not Available

8.545.2 Field Documentation

8.545.2.1 uint16_t nas_truelMSI::imsiT1112

8.545.2.2 uint8_t nas_truelMSI::imsiTaddrNum

8.545.2.3 uint8_t nas_truelMSI::imsiTS1[7]

8.545.2.4 uint8_t nas_truelMSI::imsiTS2[3]

8.545.2.5 uint8_t nas_truelMSI::mccT[3]

8.546 nas_txInfo Struct Reference

Data Fields

- uint8_t isInTraffic
- int32_t txPower

8.546.1 Detailed Description

This structure contains tx radio infomation.

Parameters

isInTraffic	• Whether the device is in traffic. – 0x00 - not in traffic – 0x01 - in traffic • The txPower field is only meaningful when in the device is in traffic.
txPower	• Tx power value in 1/10 dbm.

8.546.2 Field Documentation

8.546.2.1 uint8_t nas_txInfo::isInTraffic

8.546.2.2 int32_t nas_txInfo::txPower

8.547 nas_UMTSInfo Struct Reference

Data Fields

- uint16_t cellID
- uint8_t plmn [3]
- uint16_t lac
- uint16_t uarfcn
- uint16_t psc
- int16_t rscp
- int16_t ecio
- uint8_t umtsInst
- nas_UMTSinstInfo UMTSInstInfo [255]
- uint8_t geranInst
- nas_geranInstInfo GeranInstInfo [255]

8.547.1 Detailed Description

This structure contains information about the UMTS Network.

Parameters

cellID	• Cell ID. • 0xFFFFFFFF indicates cell ID information is not present.
plmn[NAS_PLMN_LENGTH]	• MCC/MNC information coded as octet 3, 4, and 5. • This field is ignored when nmrCellID is not present.
lac	• Location area code. • This field is ignored when nmrCellID is not present. – 0xFFFF - Not Available
uarfcn	• UTRA absolute RF channel number. – 0xFFFF - Not Available
psc	• Primary scrambling code. – 0xFFFF - Not Available
rscp	• Received signal code power. – 0xFFFF - Not Available

ecio	• ECIO(Signal-to-Interference-ratio). – 0xFFFF - Not Available
umtsInst	• Provides the number of set of UMTS info instances. • If 0(zero), then no information follows it.
UMTSInstInfo[NAS_MAX_DESCRIPTION_LENGTH]	• See nas_UMTSinstInfo for more information.
geranInst	• Provides the number of set of GERAN info instances. • If 0(zero), then no information follows it.
GeranInstInfo[NAS_MAX_DESCRIPTION_LENGTH]	• See nas_geranInstInfo for more information.

8.547.2 Field Documentation

8.547.2.1 uint16_t nas_UMTSInfo::cellID

8.547.2.2 int16_t nas_UMTSInfo::ecio

8.547.2.3 uint8_t nas_UMTSInfo::geranInst

8.547.2.4 nas_geranInstInfo nas_UMTSInfo::GeranInstInfo[255]

8.547.2.5 uint16_t nas_UMTSInfo::lac

8.547.2.6 uint8_t nas_UMTSInfo::plmn[3]

8.547.2.7 uint16_t nas_UMTSInfo::psc

8.547.2.8 int16_t nas_UMTSInfo::rscp

8.547.2.9 uint16_t nas_UMTSInfo::uarfcn

8.547.2.10 uint8_t nas_UMTSInfo::umtsInst

8.547.2.11 nas_UMTSinstInfo nas_UMTSInfo::UMTSInstInfo[255]

8.548 nas_UMTSinstInfo Struct Reference

Data Fields

- uint16_t umtsUarfcn
- uint16_t umtsPsc
- int16_t umtsRscp
- int16_t umtsEcio

8.548.1 Detailed Description

This structure contains information about the UMTS Instances in UMTS Network.

Parameters

umtsUarfcn	• UTRA absolute RF channel number.
umtsPsc	• Primary scrambling code.
umtsRscp	• Received signal code power.
umtsEcio	• ECIO(Signal-to-Interference-ratio).

8.548.2 Field Documentation

8.548.2.1 int16_t nas_UMTSinstInfo::umtsEcio

8.548.2.2 uint16_t nas_UMTSinstInfo::umtsPsc

8.548.2.3 int16_t nas_UMTSinstInfo::umtsRscp

8.548.2.4 uint16_t nas_UMTSinstInfo::umtsUarfcn

8.549 nas_umtsLTENbrCell Struct Reference

Data Fields

- uint16_t earfcn
- uint16_t pci
- uint32_t rsrp
- uint32_t rsrq
- int16_t srxlev
- uint8_t cellIsTDD

8.549.1 Detailed Description

This structure contains information about the UMTS LTE neighbour Cell.

Parameters

earfcn	• E-UTRA absolute RF channel number of the detected cell.
pci	• Physical cell ID of the detected cell. • Range is defined in 3GPP TS 36.211

rsrp	• Current received signal strength indication (in dBm) of the detected cell.
rsrq	• Current reference signal received quality (in dB) of the detected cell.
srxlev	• Cell selection Rx level (Srxlev) value of the detected cell in linear scale. • This field is only valid when wcdma_rrc_state is not NAS_WCDMA_RRC_STATE_CEL_FACH or NAS_WCDMA_RRC_STATE_CELL_DCH.
cellIsTDD	• TRUE if the cell is TDD; FALSE if the cell is FDD.

8.549.2 Field Documentation

8.549.2.1 uint8_t nas_umtsLTENbrCell::cellIsTDD

8.549.2.2 uint16_t nas_umtsLTENbrCell::earfcn

8.549.2.3 uint16_t nas_umtsLTENbrCell::pci

8.549.2.4 uint32_t nas_umtsLTENbrCell::rsrp

8.549.2.5 uint32_t nas_umtsLTENbrCell::rsrq

8.549.2.6 int16_t nas_umtsLTENbrCell::srxlev

8.550 nas_UniversalTime Struct Reference

Data Fields

- uint16_t year
- uint8_t month
- uint8_t day
- uint8_t hour
- uint8_t minute
- uint8_t second
- uint8_t dayOfWeek

8.550.1 Detailed Description

This structure contains the parameters for Universal Time Information.

Parameters

year	• Year.
month	• Month. – 1 is January and 12 is December.

day	• Day. – Range 1 to 31.
hour	• Hour. – Range 0 to 59.
minute	• Minute. – Range 0 to 59.
second	• Second. – Range 0 to 59.
dayOfWeek	• Day of the Week. – 0 is Monday and 6 is Sunday.

8.550.2 Field Documentation

8.550.2.1 uint8_t nas_UniversalTime::day

8.550.2.2 uint8_t nas_UniversalTime::dayOfWeek

8.550.2.3 uint8_t nas_UniversalTime::hour

8.550.2.4 uint8_t nas_UniversalTime::minute

8.550.2.5 uint8_t nas_UniversalTime::month

8.550.2.6 uint8_t nas_UniversalTime::second

8.550.2.7 uint16_t nas_UniversalTime::year

8.551 nas_wcdmaCellInfo Struct Reference

Data Fields

- uint16_t psc
- int16_t cpich_rscp
- int16_t cpich_ecno
- int16_t srxlev

8.551.1 Detailed Description

This structure contains information about the WCDMA Cell.

Parameters

psc	• Primary scrambling code. • Range: 0 to 511.
cpich_rscp	• Absolute power level (in 1/10 dBm) of the common pilot channel as received by the UE. • Range: -120.0 dBm to -25.0 dBm
cpich_ecno	• CPICH Ec/No; ratio (in 1/10 dB) of the received energy per PN chip for the CPICH to the total received power spectral density at the UE antenna connector. • Range: -50.0 dB to 0.
srxlev	• Cell selection Rx level (Srxlev) value. • Range: -128 to 128. • This field is only valid when ue_in_idle is TRUE.

8.551.2 Field Documentation

8.551.2.1 int16_t nas_wcdmaCellInfo::cpich_ecno

8.551.2.2 int16_t nas_wcdmaCellInfo::cpich_rscp

8.551.2.3 uint16_t nas_wcdmaCellInfo::psc

8.551.2.4 int16_t nas_wcdmaCellInfo::srxlev

8.552 nas_WCDMAECIOThresh Struct Reference

Data Fields

- uint8_t WCDMAECIOThreshListLen
- int16_t ∗ pWCDMAECIOThreshList

8.552.1 Detailed Description

This structure contains WCDMA ECIO threshold related parameters.

Parameters

WCDMAECIO-ThreshListLen	• Length of the WCDMA ECIO threshold list parameter to follow
pWCDMAECIO-ThreshList	• Array of ECIO thresholds (in units of 0.1 dB) • Maximum of 32 values • Range for ECIO values: -31.5 to 0 (in dB)

8.552.2 Field Documentation

8.552.2.1 int16_t* nas_WCDMAECIOThresh::pWCDMAECIOThreshList

8.552.2.2 uint8_t nas_WCDMAECIOThresh::WCDMAECIOThreshListLen

8.553 nas_WCDMAInfoLTENeighborCell Struct Reference

Data Fields

- uint32_t wcdmaRRCState
- uint8_t umtsLTENbrCellLen
- nas_umtsLTENbrCell UMTSLTENbrCell [255]

8.553.1 Detailed Description

This structure contains information about the WCDMA - LTE Neighboring Cell Info Set.

Parameters

wcdmaRRC-State	• WCDMA RRC states. • Defined in 3GPP TS 25.331 • Values: – 0x00 - NAS_WCDMA_RRC_STATE_DISCONNECTED * WCDMA RRC State is IDLE – 0x01 - NAS_WCDMA_RRC_STATE_CELL_PCH * WCDMA RRC state is CELL_PCH – 0x02 - NAS_WCDMA_RRC_STATE_URA_PCH * WCDMA RRC state is URA_PCH – 0x03 - NAS_WCDMA_RRC_STATE_CELL_FACH * WCDMA RRC state is CELL_FACH – 0x04 - NAS_WCDMA_RRC_STATE_CELL_DCH * WCDMA RRC state is CELL_DCH
umtsLTENbr-CellLen	• Number of sets of UMTS LTE Neighbors.
UMTSLTENbr-Cell	• See nas_umtsLTENbrCell for more information.

8.553.2 Field Documentation

8.553.2.1 nas_umtsLTENbrCell nas_WCDMAInfoLTENeighborCell::UMTSLTENbrCell[255]

8.553.2.2 uint8_t nas_WCDMAInfoLTENeighborCell::umtsLTENbrCellLen

8.553.2.3 uint32_t nas_WCDMAInfoLTENeighborCell::wcdmaRRCState

8.554 nas_WCDMARSSIThresh Struct Reference

Data Fields

- uint8_t WCDMARSSIThreshListLen
- int16_t * pWCDMARSSIThreshList

8.554.1 Detailed Description

This structure contains WCDMA RSSI threshold related parameters.

Parameters

WCDMARSSI-ThreshListLen	• Length of the WCDMA RSSI threshold list parameter to follow
pWCDMARSSI-ThreshList	• Array of RSSI thresholds (in units of 0.1 dBm) • Maximum of 32 values. • Range for RSSI values: -121 to 0 (in dBm)

8.554.2 Field Documentation

8.554.2.1 int16_t* nas_WCDMARSSIThresh::pWCDMARSSIThreshList

8.554.2.2 uint8_t nas_WCDMARSSIThresh::WCDMARSSIThreshListLen

8.555 nas_WCDMASysInfo Struct Reference

Data Fields

- nas_sysInfoCommon sysInfoWCDMA
- uint8_t lacValid
- uint16_t lac
- uint8_t cellIdValid
- uint32_t cellId
- uint8_t regRejectInfoValid
- uint8_t rejectSrvDomain
- uint8_t rejCause
- uint8_t networkIdValid
- uint8_t MCC [3]
- uint8_t MNC [3]
- uint8_t hsCallStatusValid
- uint8_t hsCallStatus
- uint8_t hsIndValid
- uint8_t hsInd
- uint8_t pscValid
- uint16_t psc

8.555.1 Detailed Description

Structure for storing the WCDMA System Information.

Parameters

sysInfoWCDMA	• See nas_sysInfoCommon for more information.
lacValid	• Indicates whether the location area code is valid.. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
lac	• Location area code. • Only applies to 3GPP. – 0xFFFF - Not Available
cellIdValid	• Indicates whether the cell ID is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
cellId	• Cell ID. – 0xFFFFFFFF - Not Available
regRejectInfo-Valid	• Indicates whether the registration reject information is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
rejectSrvDomain	• Type of service domain in which the registration is rejected. – 0x00 - SYS_SRV_DOMAIN_NO_SRV - No service – 0x01 - Circuit-switched only – 0x02 - Packet-switched only – 0x03 - Circuit-switched and packet-switched – 0x04 - Camped – 0xFF - Not Available
rejCause	• Reject cause values sent are specified in [3GPP TS 24.008, Section 10.5.3.6]. – 0xFF - Not Available
networkIdValid	• Indicates whether the network ID is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available

MCC[NAS_PLMN_LENGTH]	• Mobile Country Code. • MCC digits in ASCII characters
MNC[NAS_PLMN_LENGTH]	• Mobile Network Code. • MNC digits in ASCII characters • An unused byte is set to 0xFF. • In case of two-digit MNC values, the third (unused) digit is set to 0xFF. For example, 15 (a two-digit MNC) is reported using the byte stream 0x31 0x35 0xFF.
hsCallStatusValid	• Indicates whether the high-speed call status is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
hsCallStatus	• Call status on high speed. • Only applicable for WCDMA. – 0x00 - HSDPA and HSUPA are unsupported – 0x01 - HSDPA is supported – 0x02 - HSUPA is supported – 0x03 - HSDPA and HSUPA are supported – 0x04 - HSDPA+ is supported – 0x05 - HSDPA+ and HSUPA are supported – 0x06 - Dual-cell HSDPA+ is supported – 0x07 - Dual-cell HSDPA+ and HSUPA are supported – 0xFF - Not Available
hsIndValid	• Indicates whether high-speed service indication is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
hsInd	• High-speed service indication • Only applicable for WCDMA. – 0x00 - HSDPA and HSUPA are unsupported – 0x01 - HSDPA is supported – 0x02 - HSUPA is supported – 0x03 - HSDPA and HSUPA are supported – 0x04 - HSDPA+ is supported – 0x05 - HSDPA+ and HSUPA are supported – 0x06 - Dual-cell HSDPA+ is supported – 0x07 - Dual-cell HSDPA+ and HSUPA are supported – 0xFF - Not Available

pscValid	• Indicates whether primary scrambling code is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
psc	• Primary scrambling code. – 0xFFFF - Not Available

8.555.2 Field Documentation

8.555.2.1 uint32_t nas_WCDMASysInfo::cellId

8.555.2.2 uint8_t nas_WCDMASysInfo::cellIdValid

8.555.2.3 uint8_t nas_WCDMASysInfo::hsCallStatus

8.555.2.4 uint8_t nas_WCDMASysInfo::hsCallStatusValid

8.555.2.5 uint8_t nas_WCDMASysInfo::hsInd

8.555.2.6 uint8_t nas_WCDMASysInfo::hsIndValid

8.555.2.7 uint16_t nas_WCDMASysInfo::lac

8.555.2.8 uint8_t nas_WCDMASysInfo::lacValid

8.555.2.9 uint8_t nas_WCDMASysInfo::MCC[3]

8.555.2.10 uint8_t nas_WCDMASysInfo::MNC[3]

8.555.2.11 uint8_t nas_WCDMASysInfo::networkIdValid

8.555.2.12 uint16_t nas_WCDMASysInfo::psc

8.555.2.13 uint8_t nas_WCDMASysInfo::pscValid

8.555.2.14 uint8_t nas_WCDMASysInfo::regRejectInfoValid

8.555.2.15 uint8_t nas_WCDMASysInfo::rejCause

8.555.2.16 uint8_t nas_WCDMASysInfo::rejectSrvDomain

8.555.2.17 nas_sysInfoCommon nas_WCDMASysInfo::sysInfoWCDMA

8.556 nas_wcdmaUARFCN Struct Reference

Data Fields

- uint8_t status
- uint32_t uarfcn

8.556.1 Detailed Description

This structure contains WCDMA UARFCN infromation.

Parameters

status	• 0 - Disable • 1 - Enable
uarfcn	• UARFCN to which UE is locked

8.556.2 Field Documentation

8.556.2.1 uint8_t nas_wcdmaUARFCN::status

8.556.2.2 uint32_t nas_wcdmaUARFCN::uarfcn

8.557 NASBandPreferenceTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint64_t band_pref

8.557.1 Detailed Description

Structure used to store all Band Preference TLV Value.

Parameters

TlvPresent	- Boolean indicating the presence of the TLV in the QMI response
band_pref	- Roaming Indication Value

8.557.2 Field Documentation

8.557.2.1 uint64_t NASBandPreferenceTlv::band_pref

8.557.2.2 uint8_t NASBandPreferenceTlv::TlvPresent

8.558 nasCellLocationInfoResp Struct Reference

Data Fields

- GERANInfo * pGERANInfo
- UMTSInfo * pUMTSInfo
- CDMAInfo * pCDMAInfo
- LTEInfoIntrafreq * pLTEInfoIntrafreq
- LTEInfoInterfreq * pLTEInfoInterfreq
- LTEInfoNeighboringGSM * pLTEInfoNeighboringGSM
- LTEInfoNeighboringWCDMA * pLTEInfoNeighboringWCDMA

- ULONG * pUMTSCellID
- WCDMAInfoLTENeighborCell * pWCDMAInfoLTENeighborCell

8.558.1 Detailed Description

This structure contains information about the Get Cell Location response parameters.

Parameters

pGERANInfo	• See GERANInfo for more information.
pUMTSInfo	• See UMTSInfo for more information.
pCDMAInfo	• See CDMAInfo for more information.
pLTEInfo-Intrafreq	• See LTEInfoIntrafreq for more information.
pLTEInfo-Interfreq	• See LTEInfoInterfreq for more information.
pLTEInfo-NeighboringGS-M	• See LTEInfoNeighboringGSM for more information.
pLTEInfo-NeighboringWC-DMA	• See LTEInfoNeighboringWCDMA for more information.
pUMTSCellID	• Cell ID. • 0xFFFFFFFF indicates cell ID information is not present.
pWCDMAInfoLT-ENeighborCell	• See WCDMAInfoLTENeighborCell for more information.

8.558.2 Field Documentation

8.558.2.1 CDMAInfo* nasCellLocationInfoResp::pCDMAInfo

8.558.2.2 GERANInfo* nasCellLocationInfoResp::pGERANInfo

8.558.2.3 LTEInfoInterfreq* nasCellLocationInfoResp::pLTEInfoInterfreq

8.558.2.4 LTEInfoIntrafreq* nasCellLocationInfoResp::pLTEInfoIntrafreq

8.558.2.5 LTEInfoNeighboringGSM* nasCellLocationInfoResp::pLTEInfoNeighboringGSM

8.558.2.6 LTEInfoNeighboringWCDMA* nasCellLocationInfoResp::pLTEInfoNeighboringWCDMA

8.558.2.7 ULONG* nasCellLocationInfoResp::pUMTSCellID

8.558.2.8 UMTSInfo* nasCellLocationInfoResp::pUMTSInfo

8.558.2.9 WCDMAInfoLTENeighborCell* nasCellLocationInfoResp::pWCDMAInfoLTENeighborCell

8.559 NASEmergencyModeTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint8_t EmerMode

8.559.1 Detailed Description

Structure used to store Emergency Mode TLV Value.

Parameters

TlvPresent	- Boolean indicating the presence of the TLV in the QMI response
EmerMode	- Emergency Mode Value

8.559.2 Field Documentation

8.559.2.1 uint8_t NASEmergencyModeTlv::EmerMode

8.559.2.2 uint8_t NASEmergencyModeTlv::TlvPresent

8.560 nasGet3GPP2SubscriptionInfoReq Struct Reference

Data Fields

- BYTE namID

8.560.1 Detailed Description

This structure contains the Get3GPP2SubscriptionInfo request parameters

Parameters

namID	[Mandatory] • NAM ID of the information to be retrieved. The index starts from 0. A nam_id of 0xFF is used to retrieve information of current NAM.

8.560.2 Field Documentation

8.560.2.1 BYTE nasGet3GPP2SubscriptionInfoReq::namID

8.561 nasGet3GPP2SubscriptionInfoResp Struct Reference

Data Fields

- namName * pNAMNameInfo

- dirNum ∗ pDirNum
- homeSIDNID ∗ pHomeSIDNID
- minBasedIMSI ∗ pMinBasedIMSI
- trueIMSI ∗ pTrueIMSI
- CDMAChannel ∗ pCDMAChannel

8.561.1 Detailed Description

This structure contains the SLQSNasGet3GPP2Subscription response parameters.

Parameters

pNAMNameInfo	[Optional] • See namName for more information
pDirNum	[Optional] • See dirNum for more information
pHomeSIDNID	[Optional] • See homeSIDNID for more information
pMinBasedIMSI	[Optional] • See minBasedIMSI for more information
pTrueIMSI	[Optional] • See trueIMSI for more information
pCDMAChannel	[Optional] • See CDMAChannel for more information

8.561.2 Field Documentation

8.561.2.1 CDMAChannel∗ nasGet3GPP2SubscriptionInfoResp::pCDMAChannel

8.561.2.2 dirNum∗ nasGet3GPP2SubscriptionInfoResp::pDirNum

8.561.2.3 homeSIDNID∗ nasGet3GPP2SubscriptionInfoResp::pHomeSIDNID

8.561.2.4 minBasedIMSI∗ nasGet3GPP2SubscriptionInfoResp::pMinBasedIMSI

8.561.2.5 namName∗ nasGet3GPP2SubscriptionInfoResp::pNAMNameInfo

8.561.2.6 trueIMSI∗ nasGet3GPP2SubscriptionInfoResp::pTrueIMSI

8.562 nasGeteDRXParamsResp Struct Reference

Data Fields

- BYTE ∗ pCycleLen
- BYTE ∗ pPagingTimeWindow
- BYTE ∗ pEdrxEnable

8.562.1 Detailed Description

This structure contains the SLQSNASGeteDRXParams request parameters.

Parameters

pCycleLen	[Optional] • eDRX cycle length • Value is per 3GPP TS 24.008 Rel-13 Section 10.5.5.32
pPagingTime-Window	[Optional] • eDRX paging time window • Value is per 3GPP TS 24.008 Rel-13 Section10.5.5.32
pEdrxEnable	[Optional] • eDRX Enable • Values – 0x00 - Disable – 0x01 - Enable

8.562.2 Field Documentation

8.562.2.1 BYTE∗ nasGeteDRXParamsResp::pCycleLen

8.562.2.2 BYTE∗ nasGeteDRXParamsResp::pEdrxEnable

8.562.2.3 BYTE∗ nasGeteDRXParamsResp::pPagingTimeWindow

8.563 nasGetHDRColorCodeResp Struct Reference

Data Fields

- BYTE ∗ pColorCode

8.563.1 Detailed Description

Structure for storing the current preferred system selection settings for the device.

Parameters

pColorCode	[Optional] • Color code value • Color code corresponding to the sector to which the AT is sending the access probe • See 3GPP2 C.S0024-B V3.0, Section 7.11.6.2.1 for more information. – 0xFF - Not Available

8.563.2 Field Documentation

8.563.2.1 BYTE∗ nasGetHDRColorCodeResp::pColorCode

8.564 nasGetLTECphyCa Struct Reference

Data Fields

- PhyCaAggScellIndType sPhyCaAggScellIndType
- PhyCaAggScellDlBw sPhyCaAggScellDlBw
- PhyCaAggScellInfo sPhyCaAggScellInfo
- PhyCaAggPcellInfo sPhyCaAggPcellInfo
- PhyCaAggScellIndex sPhyCaAggScellIndex

8.564.1 Field Documentation

8.564.1.1 PhyCaAggPcellInfo nasGetLTECphyCa::sPhyCaAggPcellInfo

8.564.1.2 PhyCaAggScellDlBw nasGetLTECphyCa::sPhyCaAggScellDlBw

8.564.1.3 PhyCaAggScellIndex nasGetLTECphyCa::sPhyCaAggScellIndex

8.564.1.4 PhyCaAggScellIndType nasGetLTECphyCa::sPhyCaAggScellIndType

8.564.1.5 PhyCaAggScellInfo nasGetLTECphyCa::sPhyCaAggScellInfo

8.565 NasGetLTECphyCaInfo Struct Reference

Data Fields

- NASPhyCaAggScellIndType PhyCaAggScellIndType
- NASPhyCaAggScellDlBw PhyCaAggScellDlBw
- NASPhyCaAggScellInfo PhyCaAggScellInfo
- NASPhyCaAggPcellInfo PhyCaAggPcellInfo
- NASPhyCaAggScellIndex PhyCaAggScellIndex

8.565.1 Detailed Description

This structure contains the parameters for aggregation event information.

Parameters

PhyCaAggScell-IndType	• see NASPhyCaAggScellIndType
PhyCaAggScell-DlBw	• see NASPhyCaAggScellDlBw
PhyCaAggScell-Info	• see NASPhyCaAggScellInfo
PhyCaAggScell-IndType	• see NASPhyCaAggScellIndType
PhyCaAggPcell-Info	• see NASPhyCaAggPcellInfo

PhyCaAggScell-Index	• see NASPhyCaAggScellIndex

8.565.2 Field Documentation

8.565.2.1 NASPhyCaAggPcellInfo NasGetLTECphyCaInfo::PhyCaAggPcellInfo

8.565.2.2 NASPhyCaAggScellDlBw NasGetLTECphyCaInfo::PhyCaAggScellDlBw

8.565.2.3 NASPhyCaAggScellIndex NasGetLTECphyCaInfo::PhyCaAggScellIndex

8.565.2.4 NASPhyCaAggScellIndType NasGetLTECphyCaInfo::PhyCaAggScellIndType

8.565.2.5 NASPhyCaAggScellInfo NasGetLTECphyCaInfo::PhyCaAggScellInfo

8.566 nasGetLTECphyCaResp Struct Reference

Data Fields

- PhyCaAggScellIndType ∗ pPhyCaAggScellIndType
- PhyCaAggScellDlBw ∗ pPhyCaAggScellDlBw
- PhyCaAggScellInfo ∗ pPhyCaAggScellInfo
- PhyCaAggPcellInfo ∗ pPhyCaAggPcellInfo
- PhyCaAggScellIndex ∗ pPhyCaAggScellIndex

8.566.1 Field Documentation

8.566.1.1 PhyCaAggPcellInfo∗ nasGetLTECphyCaResp::pPhyCaAggPcellInfo

8.566.1.2 PhyCaAggScellDlBw∗ nasGetLTECphyCaResp::pPhyCaAggScellDlBw

8.566.1.3 PhyCaAggScellIndex∗ nasGetLTECphyCaResp::pPhyCaAggScellIndex

8.566.1.4 PhyCaAggScellIndType∗ nasGetLTECphyCaResp::pPhyCaAggScellIndType

8.566.1.5 PhyCaAggScellInfo∗ nasGetLTECphyCaResp::pPhyCaAggScellInfo

8.567 NasGetRFInfoResp Struct Reference

Data Fields

- RfBandInfoList rfbandInfoList
- RfDedicatedBandInfo ∗ pRfDedicatedBandInfo
- RfBandInfoExtFormat ∗ pRfBandInfoExtFormat
- RfBandwidthInfo ∗ pRfBandwidthInfo
- LTEOperationMode ∗ pLTEOperationMode

8.567.1 Detailed Description

This structure contains the SLQSNasGetRFInfo response parameters.

Parameters

rfbandInfoList	• See RfBandInfoList for more information
pRfDedicated-BandInfo	[Optional] • See RfDedicatedBandInfo for more information
pRfBandInfoExt-Format	[Optional] • See RfBandInfoExtFormat for more information
pRfBandwidth-Info	[Optional] • See RfBandwidthInfo for more information
pLTEOperation-Mode	[Optional] • See LTEOperationMode for more information

8.567.2 Field Documentation

8.567.2.1 LTEOperationMode∗ NasGetRFInfoResp::pLTEOperationMode

8.567.2.2 RfBandInfoExtFormat∗ NasGetRFInfoResp::pRfBandInfoExtFormat

8.567.2.3 RfBandwidthInfo∗ NasGetRFInfoResp::pRfBandwidthInfo

8.567.2.4 RfDedicatedBandInfo∗ NasGetRFInfoResp::pRfDedicatedBandInfo

8.567.2.5 RfBandInfoList NasGetRFInfoResp::rfbandInfoList

8.568 nasGetSigInfoResp Struct Reference

Data Fields

- CDMASSInfo ∗ pCDMASSInfo
- HDRSSInfo ∗ pHDRSSInfo
- INT8 ∗ pGSMSSInfo
- CDMASSInfo ∗ pWCDMASSInfo
- LTESSInfo ∗ pLTESSInfo
- INT8 ∗ pTDSCDMASigInfoRscp
- TDSCDMASigInfoExt ∗ pTDSCDMASigInfoExt

8.568.1 Detailed Description

This structure contains the SLQSNasGetSigInfo response parameters.

Parameters

pCDMASSInfo	[Optional] • See CDMASSInfo for more information
pHDRSSInfo	[Optional] • See HDRSSInfo for more information

pGSMSSInfo	[Optional] • GSM signal strength is the RSSI in dBm (signed value). • A value of -125 dBm or lower is used to indicate No Signal.
pWCDMASSInfo	[Optional] • See CDMASSInfo for more information
pLTESSInfo	[Optional] • See LTESSInfo for more information
pTDSCDMASig-InfoRscp	[Optional] • RSCP of the Primary Common Control Physical Channel (PCCPCH) in dBm. • Measurement range: -120 dBm to -25 dBm.
pTDSCDMASig-InfoExt	[Optional] • See TDSCDMASigInfoExt for more information.

8.568.2 Field Documentation

8.568.2.1 CDMASSInfo∗ nasGetSigInfoResp::pCDMASSInfo

8.568.2.2 INT8∗ nasGetSigInfoResp::pGSMSSInfo

8.568.2.3 HDRSSInfo∗ nasGetSigInfoResp::pHDRSSInfo

8.568.2.4 LTESSInfo∗ nasGetSigInfoResp::pLTESSInfo

8.568.2.5 TDSCDMASigInfoExt∗ nasGetSigInfoResp::pTDSCDMASigInfoExt

8.568.2.6 INT8∗ nasGetSigInfoResp::pTDSCDMASigInfoRscp

8.568.2.7 CDMASSInfo∗ nasGetSigInfoResp::pWCDMASSInfo

8.569 nasGetSysInfoResp Struct Reference

Data Fields

- SrvStatusInfo ∗ pCDMASrvStatusInfo
- SrvStatusInfo ∗ pHDRSrvStatusInfo
- GSMSrvStatusInfo ∗ pGSMSrvStatusInfo
- GSMSrvStatusInfo ∗ pWCDMASrvStatusInfo
- GSMSrvStatusInfo ∗ pLTESrvStatusInfo
- CDMASysInfo ∗ pCDMASysInfo
- HDRSysInfo ∗ pHDRSysInfo
- GSMSysInfo ∗ pGSMSysInfo
- WCDMASysInfo ∗ pWCDMASysInfo
- LTESysInfo ∗ pLTESysInfo
- AddCDMASysInfo ∗ pAddCDMASysInfo
- WORD ∗ pAddHDRSysInfo
- AddSysInfo ∗ pAddGSMSysInfo
- AddSysInfo ∗ pAddWCDMASysInfo
- WORD ∗ pAddLTESysInfo

- CallBarringSysInfo * pGSMCallBarringSysInfo
- CallBarringSysInfo * pWCDMACallBarringSysInfo
- BYTE * pLTEVoiceSupportSysInfo
- BYTE * pGSMCipherDomainSysInfo
- BYTE * pWCDMACipherDomainSysInfo

8.569.1 Detailed Description

Structure for storing the SLQSNasGetSysInfo response parameters.

Parameters

pCDMASrvStatusInfo	• See SrvStatusInfo for more information.
pHDRSrvStatusInfo	• See SrvStatusInfo for more information.
pGSMSrvStatusInfo	• See GSMSrvStatusInfo for more information.
pWCDMASrvStatusInfo	• See GSMSrvStatusInfo for more information.
pLTESrvStatusInfo	• See GSMSrvStatusInfo for more information.
pCDMASysInfo	• See CDMASysInfo for more information.
pHDRSysInfo	• See HDRSysInfo for more information.
pGSMSysInfo	• See GSMSysInfo for more information.
pWCDMASysInfo	• See WCDMASysInfo for more information.
pLTESysInfo	• See LTESysInfo for more information.
pAddCDMASysInfo	• See AddCDMASysInfo for more information.
pAddHDRSysInfo	• System table index referencing the beginning of the geo in which the current serving system is present. • When the system index is not known, 0xFFFF is used.
pAddGSMSysInfo	• See AddSysInfo for more information.
pAddWCDMASysInfo	• See AddSysInfo for more information.

pAddLTESysInfo	• System table index referencing the beginning of the geo in which the current serving system is present. • When the system index is not known, 0xFFFF is used.
pGSMCall-BarringSysInfo	• See CallBarringSysInfo for more information.
pWCDMACall-BarringSysInfo	• See CallBarringSysInfo for more information.
pLTEVoice-SupportSysInfo	• Indicates voice support status on LTE. – 0x00 - Voice is not supported – 0x01 - Voice is supported
pGSMCipher-DomainSysInfo	• Ciphering on the service domain. – 0x00 - No service – 0x01 - Circuit-switched only – 0x02 - Packet-switched only – 0x03 - Circuit-switched and packet-switched
pWCDMA-CipherDomain-SysInfo	• Ciphering on the service domain. – 0x00 - No service – 0x01 - Circuit-switched only – 0x02 - Packet-switched only – 0x03 - Circuit-switched and packet-switched

8.569.2 Field Documentation

8.569.2.1 AddCDMASysInfo∗ nasGetSysInfoResp::pAddCDMASysInfo

8.569.2.2 AddSysInfo∗ nasGetSysInfoResp::pAddGSMSysInfo

8.569.2.3 WORD∗ nasGetSysInfoResp::pAddHDRSysInfo

8.569.2.4 WORD∗ nasGetSysInfoResp::pAddLTESysInfo

8.569.2.5 AddSysInfo∗ nasGetSysInfoResp::pAddWCDMASysInfo

8.569.2.6 SrvStatusInfo∗ nasGetSysInfoResp::pCDMASrvStatusInfo

8.569.2.7 CDMASysInfo∗ nasGetSysInfoResp::pCDMASysInfo

8.569.2.8 CallBarringSysInfo∗ nasGetSysInfoResp::pGSMCallBarringSysInfo

8.569.2.9 BYTE∗ nasGetSysInfoResp::pGSMCipherDomainSysInfo

8.569.2.10 GSMSrvStatusInfo∗ nasGetSysInfoResp::pGSMSrvStatusInfo

8.569.2.11 GSMSysInfo∗ nasGetSysInfoResp::pGSMSysInfo

8.569.2.12 SrvStatusInfo∗ nasGetSysInfoResp::pHDRSrvStatusInfo

8.569.2.13 HDRSysInfo∗ nasGetSysInfoResp::pHDRSysInfo

8.569.2.14 GSMSrvStatusInfo∗ nasGetSysInfoResp::pLTESrvStatusInfo

8.569.2.15 LTESysInfo∗ nasGetSysInfoResp::pLTESysInfo

8.569.2.16 BYTE∗ nasGetSysInfoResp::pLTEVoiceSupportSysInfo

8.569.2.17 CallBarringSysInfo∗ nasGetSysInfoResp::pWCDMACallBarringSysInfo

8.569.2.18 BYTE∗ nasGetSysInfoResp::pWCDMACipherDomainSysInfo

8.569.2.19 GSMSrvStatusInfo∗ nasGetSysInfoResp::pWCDMASrvStatusInfo

8.569.2.20 WCDMASysInfo∗ nasGetSysInfoResp::pWCDMASysInfo

8.570 nasGetTxRxInfoReq Struct Reference

Data Fields

- BYTE radio_if

8.570.1 Detailed Description

This structure contains the GetTxRxInfoReq request parameters

Parameters

radio_if	[Mandatory] • Radio interface technology of the signal being measured • Valid Values – 0x01 - NAS_RADIO_IF_CDMA_1X - CDMA – 0x02 - NAS_RADIO_IF_CDMA_1XEVDO - HDR – 0x04 - NAS_RADIO_IF_GSM - GSM – 0x05 - NAS_RADIO_IF_UMTS - UMTS – 0x08 - NAS_RADIO_IF_LTE - LTE

8.570.2 Field Documentation

8.570.2.1 BYTE nasGetTxRxInfoReq::radio_if

8.571 nasGetTxRxInfoResp Struct Reference

Data Fields

- rxInfo ∗ pRXChain0Info
- rxInfo ∗ pRXChain1Info
- txInfo ∗ pTXInfo

8.571.1 Detailed Description

This structure contains the GetTxRxInfoResp response parameters.

Parameters

pRXChain0Info	[Optional] • See rxInfo for more information.
pRXChain1Info	[Optional] • See rxInfo for more information.
pTXInfo	[Optional] • See txInfo for more information.

8.571.2 Field Documentation

8.571.2.1 rxInfo∗ nasGetTxRxInfoResp::pRXChain0Info

8.571.2.2 rxInfo∗ nasGetTxRxInfoResp::pRXChain1Info

8.571.2.3 txInfo∗ nasGetTxRxInfoResp::pTXInfo

8.572 NASGWAcqOrderPrefTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint32_t GWAcqOrderPref

8.572.1 Detailed Description

Structure used to store GSM/WCDMA acquisition order preference TLV Value.

Parameters

TlvPresent	- Boolean indicating the presence of the TLV in the QMI response
GWAcqOrder-Pref	- GSM/WCDMA acquisition order Preference Value

8.572.2 Field Documentation

8.572.2.1 uint32_t NASGWAcqOrderPrefTlv::GWAcqOrderPref

8.572.2.2 uint8_t NASGWAcqOrderPrefTlv::TlvPresent

8.573 nasIndicationRegisterReq Struct Reference

Data Fields

- BYTE ∗ pSystemSelectionInd
- BYTE ∗ pDDTMInd

- BYTE * pServingSystemInd
- BYTE * pDualStandByPrefInd
- BYTE * pSubscriptionInfoInd
- BYTE * pNetworkTimeInd
- BYTE * pSysInfoInd
- BYTE * pSignalStrengthInd
- BYTE * pErrorRateInd
- BYTE * pHDRNewUATIAssInd
- BYTE * pHDRSessionCloseInd
- BYTE * pManagedRoamingInd
- BYTE * pNetworkRejectInd
- BYTE * pSuppressSysInfoInd
- BYTE * pLTECphyCa

8.573.1 Detailed Description

This structure contains the SLQSNasIndicationRegisterExt request parameters.

Parameters

pSystemSelectionInd	[Optional] • System Selection Preference indication registration. The following callbacks would not be invoked if the indication is disabled. tFNRoamingIndicator tFNDataCapabilities and tFNServingSystem – 0x00 - Disable – 0x01 - Enable
pDDTMInd	[Optional] • DDTM (Data Dedicated Transmission Mode) indication registration. The following callbacks would not be invoked if the indication is disabled. tFNDDTM – 0x00 - Disable – 0x01 - Enable
pServingSystemInd	[Optional] • Serving System indication registration. The following callbacks would not be invoked if the indication is disabled. tFNBandPreference – 0x00 - Disable – 0x01 - Enable
pDualStandByPrefInd	[Optional] • Dual Standby Preference indication registration.The following callbacks would not be invoked if the indication is disabled. tFNDualStandByPref – 0x00 - Disable – 0x01 - Enable
pSubscriptionInfoInd	[Optional] • Subscription Information indication registration.The following callbacks would not be invoked if the indication is disabled. tFNSubscriptionInfo – 0x00 - Disable – 0x01 - Enable

pNetworkTime-Ind	[Optional] • Network Time indication registration.The following callbacks would not be invoked if the indication is disabled. tFNNetworkTime – 0x00 - Disable – 0x01 - Enable
pSysInfoInd	[Optional] • System Information indication registration.The following callbacks would not be invoked if the indication is disabled. tFNSysInfo – 0x00 - Disable – 0x01 - Enable
pSignalStrength-Ind	[Optional] • Signal Strength indication registration.The following callbacks would not be invoked if the indication is disabled. tFNSigInfo – 0x00 - Disable – 0x01 - Enable
pErrorRateInd	[Optional] • Error Rate indication registration.The following callbacks would not be invoked if the indication is disabled. tFNErrRate – 0x00 - Disable – 0x01 - Enable
pHDRNewUATI-AssInd	[Optional] • HDR New UATI Assigned indication registration.The following callbacks would not be invoked if the indication is disabled. tFNHDRUATIUpdate – 0x00 - Disable – 0x01 - Enable
pHDRSession-CloseInd	[Optional] • HDR Session Closed indication registration.The following callbacks would not be invoked if the indication is disabled. tFNHDRSessionClose – 0x00 - Disable – 0x01 - Enable
pManaged-RoamingInd	[Optional] • Managed Roaming indication registration.The following callbacks would not be invoked if the indication is disabled. tFNManagedRoaming – 0x00 - Disable – 0x01 - Enable

pNetworkRejectInd	[Optional] • Network reject information indication registration.The following callbacks would not be invoked if the indication is disabled. – 0x00 - Disable – 0x01 - Enable
pSuppressSysInfoInd	[Optional] • Controls the reporting of QMI_NAS_SYS_INFO_IND when only the reject_cause field has changed. Values: – 0x00 - Disable – 0x01 - Enable
pLTECphyCa	[Optional] • LTE Physical Carrier Aggregation Information indication registration.The following callbacks would not be invoked if the indication is disabled. – 0x00 - Disable – 0x01 - Enable

Note

Atleast one parameter must be provided as request. 'NULL' value confirms that the indication value is not sent.

8.573.2 Field Documentation

8.573.2.1 BYTE* nasIndicationRegisterReq::pDDTMInd

8.573.2.2 BYTE* nasIndicationRegisterReq::pDualStandByPrefInd

8.573.2.3 BYTE* nasIndicationRegisterReq::pErrorRateInd

8.573.2.4 BYTE* nasIndicationRegisterReq::pHDRNewUATIAssInd

8.573.2.5 BYTE* nasIndicationRegisterReq::pHDRSessionCloseInd

8.573.2.6 BYTE* nasIndicationRegisterReq::pLTECphyCa

8.573.2.7 BYTE* nasIndicationRegisterReq::pManagedRoamingInd

8.573.2.8 BYTE* nasIndicationRegisterReq::pNetworkRejectInd

8.573.2.9 BYTE* nasIndicationRegisterReq::pNetworkTimeInd

8.573.2.10 BYTE* nasIndicationRegisterReq::pServingSystemInd

8.573.2.11 BYTE* nasIndicationRegisterReq::pSignalStrengthInd

8.573.2.12 BYTE* nasIndicationRegisterReq::pSubscriptionInfoInd

8.573.2.13 BYTE* nasIndicationRegisterReq::pSuppressSysInfoInd

8.573.2.14 BYTE* nasIndicationRegisterReq::pSysInfoInd

8.573.2.15 BYTE* nasIndicationRegisterReq::pSystemSelectionInd

8.574 nasInitNetworkReg Struct Reference

Data Fields

- ULONG regAction
- MNRInfo * pMNRInfo
- ULONG * pChangeDuration
- BYTE * pMncPcsDigitStatus

8.574.1 Detailed Description

This structure contains Initiate Network Registration request parameters

Parameters

regAction	• Specifies one of the following register actions : – AUTO_REGISTER - Device registers according to its provisioning and optional parameters supplied with the command are ignored. – MANUAL_REGISTER - Device registers to a specified network and the optional Manual Network Register Information parameter pMNRInfo must also be included for the command to process successfully and supported only for 3GPP.
pMNRInfo	[Optional] • Pointer to structure MNRInfo – See MNRInfo for more information
pChange-Duration	[Optional] • Duration of the change. – 0x00 - Power cycle - Remains active until the next device power cycle – 0x01 - Permanent - Remains active through power cycles until changed by the client
pMncPcsDigit-Status	[Optional] • MNC PCS Digit Include Status – True - MNC is a 3-digit value. – False - MNC is a 2-digit value.

8.574.2 Field Documentation

8.574.2.1 ULONG* nasInitNetworkReg::pChangeDuration

8.574.2.2 BYTE* nasInitNetworkReg::pMncPcsDigitStatus

8.574.2.3 MNRInfo* nasInitNetworkReg::pMNRInfo

8.574.2.4 ULONG nasInitNetworkReg::regAction

8.575 NASLTEBandPreferenceTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint64_t LTEBandPref

8.575.1 Detailed Description

Structure used to store LTE Band Preference TLV Value.

Parameters

TlvPresent	- Boolean indicating the presence of the TLV in the QMI response
LTEBandPref	- LTE Band Preference Value

8.575.2 Field Documentation

8.575.2.1 uint64_t NASLTEBandPreferenceTlv::LTEBandPref

8.575.2.2 uint8_t NASLTEBandPreferenceTlv::TlvPresent

8.576 NASLteNasReleaseInfoTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint8_t nas_release
- uint8_t nas_major
- uint8_t nas_minor

8.576.1 Detailed Description

This structure contains LTE Nas Release Infomation

Parameters

Tlvresult	• unpack result
nas_release	• LTE NAS release
nas_major	• LTE NAS version major
nas_minor	• LTE NAS version minor

8.576.2 Field Documentation

8.576.2.1 uint8_t NASLteNasReleaseInfoTlv::nas_major

8.576.2.2 uint8_t NASLteNasReleaseInfoTlv::nas_minor

8.576.2.3 uint8_t NASLteNasReleaseInfoTlv::nas_release

8.576.2.4 uint8_t NASLteNasReleaseInfoTlv::TlvPresent

8.577 NASModePreferenceTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint16_t ModePref

8.577.1 Detailed Description

Structure used to store Mode Preference TLV Value.

Parameters

TlvPresent	- Boolean indicating the presence of the TLV in the QMI response
ModePref	- Mode Preference Value

8.577.2 Field Documentation

8.577.2.1 uint16_t NASModePreferenceTlv::ModePref

8.577.2.2 uint8_t NASModePreferenceTlv::TlvPresent

8.578 NASNetSelPreferenceTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint8_t NetSelPref

8.578.1 Detailed Description

Structure used to store Network Selection Preference TLV Value.

Parameters

TlvPresent	- Boolean indicating the presence of the TLV in the QMI response
NetSelPref	- Network Selection Preference Value

8.578.2 Field Documentation

8.578.2.1 uint8_t NASNetSelPreferenceTlv::NetSelPref

8.578.2.2 uint8_t NASNetSelPreferenceTlv::TlvPresent

8.579 nasNetworkReject Struct Reference

Data Fields

- BYTE radioIf
- TYPE_OF_SERVICE_DOMAIN serviceDomain
- BYTE rejectCause
- PlmnID * pPlmnId
- CsgId * pCsgId

8.579.1 Detailed Description

Structure for storing the network reject indication parameters.

Parameters

radioIf	• Radio interface from which to get the information. Values: – 0x04 - NAS_RADIO_IF_GSM - GSM – 0x05 - NAS_RADIO_IF_UMTS - UMTS – 0x08 - NAS_RADIO_IF_LTE - LTE – 0x09 - NAS_RADIO_IF_TDSCDMA - TDSCDMA
serviceDomain	• Type of service domain in which the registration is rejected. Values: – 0x00 - SYS_SRV_DOMAIN_NO_SRV - No service – 0x01 - SYS_SRV_DOMAIN_CS_ONLY - Circuit-switched only – 0x02 - SYS_SRV_DOMAIN_PS_ONLY - Packet-switched only – 0x03 - SYS_SRV_DOMAIN_CS_PS - Circuit-switched and packet-switched – 0x04 - SYS_SRV_DOMAIN_CAMPED - Camped

rejectCause	• Reject cause values. – 2 - IMSI unknown in HLR – 3 - Illegal MS – 4 - IMSI unknown in VLR – 5 - IMEI not accepted – 6 - Illegal ME – 7 - EPS services not allowed – 8 - EPS services and non-EPS services not allowed – 9 - UE identity cannot be derived by the network – 10 - Implicitly detached – 11 - PLMN not allowed – 12 - Location Area not allowed – 13 - Roaming not allowed in this location area – 14 - EPS services not allowed in this PLMN – 15 - No Suitable Cells In Location Area – 16 - MSC temporarily not reachable – 17 - Network failure – 18 - CS domain not available – 19 - ESM failure – 20 - MAC failure – 21 - Synch failure – 22 - Congestion – 23 - GSM authentication unacceptable – 24 - Security mode rejected, unspecified – 25 - Not authorized for this CSG – 26 - Non-EPS authentication unacceptable – 32 - Service option not supported – 33 - Requested service option not subscribed – 34 - Service option temporarily out of order – 38 - Call cannot be identified – 48 to 63 - retry upon entry into a new cell – 95 - Semantically incorrect message – 96 - Invalid mandatory information – 97 - Message type non-existent or not implemented – 98 - Message type not compatible with the protocol state – 99 - Information element non-existent or not implemented – 100 - Conditional IE error – 101 - Message not compatible with the protocol state – 111 - Protocol error, unspecified – Note - Any other value received by the mobile station shall be treated as 34, 'Service option temporarily out of order'. * Any other value received by the network shall be treated as 111, 'Protocol error, unspecified'. See 3GPP TS 24.008, Section 4.4.4.7 and Section 10.5.3.6 See qaGobiApiTableCallEndReasons.h for Call End reasons
pPlmnId	(optional) • See PlmnID for more information

pCsgId	(optional) • See CsgId for more information.

8.579.2 Field Documentation

8.579.2.1 CsgId* nasNetworkReject::pCsgId

8.579.2.2 PlmnID* nasNetworkReject::pPlmnId

8.579.2.3 BYTE nasNetworkReject::radioIf

8.579.2.4 BYTE nasNetworkReject::rejectCause

8.579.2.5 TYPE_OF_SERVICE_DOMAIN nasNetworkReject::serviceDomain

8.580 nasNetworkTime Struct Reference

Data Fields

- UniversalTime universalTime
- BYTE * pTimeZone
- BYTE * pDayItSavAdj
- BYTE * pRadioInterface

8.580.1 Detailed Description

Structure for storing the nasSysInfo indication parameters.

Parameters

universalTime	• See UniversalTime for more information.
pTimeZone	• Time Zone. • Offset from Universal time, i.e., the difference between local time and Universal time, in increments of 15 min (signed value).
pDayItSavAdj	• Daylight Saving Adjustment. • Daylight saving adjustment in hr. – Possible values: 0, 1, and 2.

pRadioInterface	• Radio interface from which the information comes • Values – 0x01 - NAS_RADIO_IF_CDMA_1X - cdma2000 1X – 0x02 - NAS_RADIO_IF_CDMA_1XEVDO - cdma2000 HRPD (1xEV-DO) – 0x04 - NAS_RADIO_IF_GSM - GSM – 0x05 - NAS_RADIO_IF_UMTS - UMTS – 0x08 - NAS_RADIO_IF_LTE - LTE – 0x09 - NAS_RADIO_IF_TDSCDMA -TD-SCDMA

8.580.2 Field Documentation

8.580.2.1 BYTE∗ nasNetworkTime::pDayItSavAdj

8.580.2.2 BYTE∗ nasNetworkTime::pRadioInterface

8.580.2.3 BYTE∗ nasNetworkTime::pTimeZone

8.580.2.4 UniversalTime nasNetworkTime::universalTime

8.581 nasOperatorNameResp Struct Reference

Data Fields

- serviceProviderName ∗ pSrvcProviderName
- operatorPLMNList ∗ pOperatorPLMNList
- PLMNNetworkName ∗ pPLMNNetworkName
- operatorNameString ∗ pOperatorNameString
- PLMNNetworkNameData ∗ pNITZInformation

8.581.1 Detailed Description

This structure contains Operator Name Data related from multiple sources.

Parameters

pSrvcProvider-Name	• Refer serviceProviderName for details (Optional). • Can provide NULL if this parameter is not required.
pOperatorPLM-NList	• Refer operatorPLMNList for details (Optional). • Can provide NULL if this parameter is not required.
pPLMNNetwork-Name	• Refer PLMNNetworkName for details (Optional). • Can provide NULL if this parameter is not required.
pOperatorName-String	• Refer operatorNameString for details (Optional). • Can provide NULL if this parameter is not required.

pNITZ-Information	• Refer PLMNNetworkNameData for details (Optional). • Can provide NULL if this parameter is not required.

8.581.2 Field Documentation

8.581.2.1 PLMNNetworkNameData∗ nasOperatorNameResp::pNITZInformation

8.581.2.2 operatorNameString∗ nasOperatorNameResp::pOperatorNameString

8.581.2.3 operatorPLMNList∗ nasOperatorNameResp::pOperatorPLMNList

8.581.2.4 PLMNNetworkName∗ nasOperatorNameResp::pPLMNNetworkName

8.581.2.5 serviceProviderName∗ nasOperatorNameResp::pSrvcProviderName

8.582 NASOTAMessageTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint32_t message_type
- uint16_t data_len
- uint8_t data_buf [2048]

8.582.1 Detailed Description

This structure contains OTA message

Parameters

Tlvresult	• unpack result
message_type	• message type – 0 - LTE ESM uplink – 1 - LTE ESM downlink – 2 - LTE EMM uplink – 3 - LTE EMM downlink – 4 - GSM/UMTS uplink – 5 - GSM/UMTS downlink
data_len	• OTA Message Content Length
data_buf	• OTA Message Content

8.582.2 Field Documentation

8.582.2.1 uint8_t NASOTAMessageTlv::data_buf[2048]

8.582.2.2 uint16_t NASOTAMessageTlv::data_len

8.582.2.3 uint32_t NASOTAMessageTlv::message_type

8.582.2.4 uint8_t NASOTAMessageTlv::TlvPresent

8.583 NASPhyCaAggPcellInfo Struct Reference

Data Fields

- uint32_t pci
- uint32_t freq
- LITEQMI_NAS_LTE_CPHY_CA_BW_NRB dl_bw_value
- uint32_t iLTEbandValue
- uint8_t TlvPresent

8.583.1 Detailed Description

This structure contains the parameters for Physical Carrier aggregation of Pcell Information.

Parameters

pci	• Physical cell ID of the SCell Range. • Range for ID values: 0 to 503.
freq	• Frequency of the absolute cell Range. • Range for ID values: 0 to 65535.
dl_bw_value	• Downlink Bandwidth Values. • See LITEQMI_NAS_LTE_CPHY_CA_BW_NRB for more information.
scell_state	• Scell state Values. • See LITEQMI_NAS_LTE_CPHY_SCELL_STATE for more information.
TlvPresent	• Tlv Present.

8.583.2 Field Documentation

8.583.2.1 LITEQMI_NAS_LTE_CPHY_CA_BW_NRB NASPhyCaAggPcellInfo::dl_bw_value

8.583.2.2 uint32_t NASPhyCaAggPcellInfo::freq

8.583.2.3 uint32_t NASPhyCaAggPcellInfo::iLTEbandValue

8.583.2.4 uint32_t NASPhyCaAggPcellInfo::pci

8.583.2.5 uint8_t NASPhyCaAggPcellInfo::TlvPresent

8.584 NASPhyCaAggScellDlBw Struct Reference

Data Fields

- LITEQMI_NAS_LTE_CPHY_CA_BW_NRB dl_bw_value
- uint8_t TlvPresent

8.584.1 Detailed Description

This structure contains the parameters for Physical Carrier aggregation Downlink Bandwidth of Scell.

Parameters

dl_bw_value	• Downlink Bandwidth Values. • See LITEQMI_NAS_LTE_CPHY_CA_BW_NRB for more information.

8.584.2 Field Documentation

8.584.2.1 LITEQMI_NAS_LTE_CPHY_CA_BW_NRB NASPhyCaAggScellDlBw::dl_bw_value

8.584.2.2 uint8_t NASPhyCaAggScellDlBw::TlvPresent

8.585 NASPhyCaAggScellIndex Struct Reference

Data Fields

- uint8_t scell_idx
- uint8_t TlvPresent

8.585.1 Detailed Description

This structure contains the parameters for Physical Carrier aggregation of Scell Index.

Parameters

scell_idx	• Physical cell ID of the SCell Range. • Range for ID values: 0 to 503.
TlvPresent	• Tlv Present.

8.585.2 Field Documentation

8.585.2.1 uint8_t NASPhyCaAggScellIndex::scell_idx

8.585.2.2 uint8_t NASPhyCaAggScellIndex::TlvPresent

8.586 NASPhyCaAggScellIndType Struct Reference

Data Fields

- uint32_t pci
- uint32_t freq
- LITEQMI_NAS_LTE_CPHY_SCELL_STATE scell_state
- uint8_t TlvPresent

8.586.1 Detailed Description

This structure contains the parameters for Physical Carrier aggregation of Scell Indeicator Type.

Parameters

pci	• Physical cell ID of the SCell Range. • Range for ID values: 0 to 503.
freq	• Frequency of the absolute cell Range. • Range for ID values: 0 to 65535.
scell_state	• Scell state Values. • See LITEQMI_NAS_LTE_CPHY_SCELL_STATE for more information.
TlvPresent	• Tlv Present.

8.586.2 Field Documentation

8.586.2.1 uint32_t NASPhyCaAggScellIndType::freq

8.586.2.2 uint32_t NASPhyCaAggScellIndType::pci

8.586.2.3 LITEQMI_NAS_LTE_CPHY_SCELL_STATE NASPhyCaAggScellIndType::scell_state

8.586.2.4 uint8_t NASPhyCaAggScellIndType::TlvPresent

8.587 NASPhyCaAggScellInfo Struct Reference

Data Fields

- uint32_t pci
- uint32_t freq
- LITEQMI_NAS_LTE_CPHY_CA_BW_NRB dl_bw_value
- uint32_t iLTEbandValue

- LITEQMI_NAS_LTE_CPHY_SCELL_STATE scell_state
- uint8_t TlvPresent

8.587.1 Detailed Description

This structure contains the parameters for Physical Carrier aggregation of Scell Information.

Parameters

pci	• Physical cell ID of the SCell Range. • Range for ID values: 0 to 503.
freq	• Frequency of the absolute cell Range. • Range for ID values: 0 to 65535.
dl_bw_value	• Downlink Bandwidth Values. • See LITEQMI_NAS_LTE_CPHY_CA_BW_NRB for more information.
iLTEbandValue	• Band value. • Range for LTE Band class 120 to 160.
scell_state	• Scell state Values. • See LITEQMI_NAS_LTE_CPHY_SCELL_STATE for more information.
TlvPresent	• Tlv Present.

8.587.2 Field Documentation

8.587.2.1 LITEQMI_NAS_LTE_CPHY_CA_BW_NRB NASPhyCaAggScellInfo::dl_bw_value

8.587.2.2 uint32_t NASPhyCaAggScellInfo::freq

8.587.2.3 uint32_t NASPhyCaAggScellInfo::iLTEbandValue

8.587.2.4 uint32_t NASPhyCaAggScellInfo::pci

8.587.2.5 LITEQMI_NAS_LTE_CPHY_SCELL_STATE NASPhyCaAggScellInfo::scell_state

8.587.2.6 uint8_t NASPhyCaAggScellInfo::TlvPresent

8.588 nasPLMNNameReq Struct Reference

Data Fields

- WORD mcc
- WORD mnc

- BYTE * pMncPcsStatus

8.588.1 Detailed Description

Structure for storing the PLMN Name request parameters

Parameters

mcc	• A 16-bit integer representation of MCC. Range: 0 to 999
mnc	• A 16-bit integer representation of MNC. Range: 0 to 999
pMncPcsStatus	• MNC PCS Digit Include Status • Used to interpret the length of the corresponding MNC reported in the PLMN TLV(0x01). • Values – TRUE - MNC is a three-digit value. e.g. a reported value of 90 corresponds to an MNC value of 090 – FALSE - MNC is a two-digit value. e.g. a reported value of 90 corresponds to an MNC value of 90

Note

If pMncPcsStatus is not present, an MNC smaller than 100 is assumed to be a two-digit value, and an MNC greater than or equal to 100 is assumed to be a three digit value.

8.588.2 Field Documentation

8.588.2.1 WORD nasPLMNNameReq::mcc

8.588.2.2 WORD nasPLMNNameReq::mnc

8.588.2.3 BYTE* nasPLMNNameReq::pMncPcsStatus

8.589 nasPLMNNameResp Struct Reference

Data Fields

- BYTE spnEncoding
- BYTE spnLength
- BYTE spn [255]
- BYTE shortNameEn
- BYTE shortNameCI
- BYTE shortNameSB
- BYTE shortNameLen
- BYTE shortName [255]
- BYTE longNameEn
- BYTE longNameCI
- BYTE longNameSB
- BYTE longNameLen
- BYTE longName [255]

8.589.1 Detailed Description

Structure for storing the PLMN Name response parameters

Parameters

spnEncoding	• Coding scheme used for service provider name. This value is ignored if spn_len is zero Values: – 0x00 - SMS default 7-bit coded alphabet as defined in 3GPP TS 23.038 with bit 8 set to 0 – 0x01 - UCS2 (16 bit, little-endian) 3GPP TS 23.038
spnLength	• Length of SPN which follows
spn	• Service Provider name string
shortNameEn	• Coding scheme used for PLMN short name. This value is ignored if PLMN short name length is zero Values: – 0x00 - SMS default 7-bit coded alphabet as defined in 3GPP TS 23.038 with bit 8 set to 0 – 0x01 - UCS2 (16 bit, little-endian) 3GPP TS 23.038
shortNameCI	• Indicates whether the country initials are to be added to the shortName. This value is ignored if shortNameLen is zero. Values: – 0x00 - Do not add the letters for the countrys initials to the name – 0x01 - Add the countrys initials and a text string to the name – 0xFF - Not specified
shortNameSB	• PLMN short name spare bits. This value is ignored if shortNameLen is zero. Values: – 0x01 - Bit 8 is spare and set to 0 in octet – 0x02 - Bits 7 and 8 are spare and set to 0 in octet n – 0x03 - Bits 6 to 8 (inclusive) are spare and set to 0 in octet n – 0x04 - Bits 5 to 8 (inclusive) are spare and set to 0 in octet n – 0x05 - Bits 4 to 8 (inclusive) are spare and set to 0 in octet n – 0x06 - Bits 3 to 8 (inclusive) are spare and set to 0 in octet n – 0x07 - Bits 2 to 8 (inclusive) are spare and set to 0 in octet n – 0x00 - Carries no information about the number of spare bits in octet n
shortNameLen	• Length of shortName which follows
shortName	• PLMN short name
longNameEn	• Coding scheme used for PLMN long name. This value is ignored if PLMN long name length is zero Values: – 0x00 - SMS default 7-bit coded alphabet as defined in 3GPP TS 23.038 with bit 8 set to 0 – 0x01 - UCS2 (16 bit, little-endian) 3GPP TS 23.038

longNameCI	• Indicates whether the country initials are to be added to the longName. This value is ignored if longNameLen is zero. Values: – 0x00 - Do not add the letters for the countrys initials to the name – 0x01 - Add the countrys initials and a text string to the name – 0xFF - Not specified
longNameSB	• PLMN long name spare bits. This value is ignored if longNameLen is zero. Values: – 0x01 - Bit 8 is spare and set to 0 in octet – 0x02 - Bits 7 and 8 are spare and set to 0 in octet n – 0x03 - Bits 6 to 8 (inclusive) are spare and set to 0 in octet n – 0x04 - Bits 5 to 8 (inclusive) are spare and set to 0 in octet n – 0x05 - Bits 4 to 8 (inclusive) are spare and set to 0 in octet n – 0x06 - Bits 3 to 8 (inclusive) are spare and set to 0 in octet n – 0x07 - Bits 2 to 8 (inclusive) are spare and set to 0 in octet n – 0x00 - Carries no information about the number of spare bits in octet n
longNameLen	• Length of longName which follows
longName	• PLMN long name

Note

None

8.589.2 Field Documentation

8.589.2.1 BYTE nasPLMNNameResp::longName[255]

8.589.2.2 BYTE nasPLMNNameResp::longNameCI

8.589.2.3 BYTE nasPLMNNameResp::longNameEn

8.589.2.4 BYTE nasPLMNNameResp::longNameLen

8.589.2.5 BYTE nasPLMNNameResp::longNameSB

8.589.2.6 BYTE nasPLMNNameResp::shortName[255]

8.589.2.7 BYTE nasPLMNNameResp::shortNameCI

8.589.2.8 BYTE nasPLMNNameResp::shortNameEn

8.589.2.9 BYTE nasPLMNNameResp::shortNameLen

8.589.2.10 BYTE nasPLMNNameResp::shortNameSB

8.589.2.11 BYTE nasPLMNNameResp::spn[255]

8.589.2.12 BYTE nasPLMNNameResp::spnEncoding

8.589.2.13 BYTE nasPLMNNameResp::spnLength

8.590 NASPRLPreferenceTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint16_t PRLPref

8.590.1 Detailed Description

Structure used to store CDMA PRL Preference TLV Value.

Parameters

TlvPresent	- Boolean indicating the presence of the TLV in the QMI response
PRLPref	- CDMA PRL Preference Value

8.590.2 Field Documentation

8.590.2.1 uint16_t NASPRLPreferenceTlv::PRLPref

8.590.2.2 uint8_t NASPRLPreferenceTlv::TlvPresent

8.591 NASQmiCbkNasSwiOTAMessageInd Struct Reference

Data Fields

- NASOTAMessageTlv otaMsgTlv
- NASLteNasReleaseInfoTlv nasRelInfoTlv
- NASTimeInfoTlv timeTlv

8.591.1 Detailed Description

This structure contains OTA message

Parameters

otaMsgTlv	• See NASOTAMessageTlv for more details
nasRelInfoTlv	• See NASLteNasReleaseInfoTlv for more details
timeTlv	• See NASTimeInfoTlv for more details

8.591.2 Field Documentation

8.591.2.1 NASLteNasReleaseInfoTlv NASQmiCbkNasSwiOTAMessageInd::nasRelInfoTlv

8.591.2.2 NASOTAMessageTlv NASQmiCbkNasSwiOTAMessageInd::otaMsgTlv

8.591.2.3 NASTimeInfoTlv NASQmiCbkNasSwiOTAMessageInd::timeTlv

8.592 NASQmiCbkNasSystemSelPrefInd Struct Reference

Data Fields

- NASEmergencyModeTlv EMTlv
- NASModePreferenceTlv MPTlv
- NASBandPreferenceTlv BPTlv
- NASPRLPreferenceTlv PRLPTlv
- NASRoamPreferenceTlv RPTlv
- NASLTEBandPreferenceTlv LBPTlv
- NASNetSelPreferenceTlv NSPTlv
- NASServDomainPrefTlv SDPTlv
- NASGWAcqOrderPrefTlv GWAOPTlv

8.592.1 Detailed Description

Structure used to store all QMI Notification parameters.

Parameters

EMTlv	- Emergency mode Tlv • See NASEmergencyModeTlv for more details
MPTlv	- Mode preference Tlv • See NASModePreferenceTlv for more details
BPTlv	- Band preference Tlv • See NASBandPreferenceTlv for more details
PRLPTlv	- PRL preference Tlv • See NASPRLPreferenceTlv for more details
RPTlv	- Roaming preference Tlv • See NASRoamPreferenceTlv for more details
LBPTlv	- LTE band preference Tlv • See NASLTEBandPreferenceTlv for more details
NSPTlv	- Network selection preference Tlv • See NASNetSelPreferenceTlv for more details
SDPTlv	- Service domain preference Tlv • See NASServDomainPrefTlv for more details
GWAOPTlv	- GSM WCDMA Acquisition Order Preference Tlv • See NASGWAcqOrderPrefTlv for more details

Note: None

8.592.2 Field Documentation

8.592.2.1 NASBandPreferenceTlv NASQmiCbkNasSystemSelPrefInd::BPTlv

8.592.2.2 NASEmergencyModeTlv NASQmiCbkNasSystemSelPrefInd::EMTlv

8.592.2.3 NASGWAcqOrderPrefTlv NASQmiCbkNasSystemSelPrefInd::GWAOPTlv

8.592.2.4 NASLTEBandPreferenceTlv NASQmiCbkNasSystemSelPrefInd::LBPTlv

8.592.2.5 NASModePreferenceTlv NASQmiCbkNasSystemSelPrefInd::MPTlv

8.592.2.6 NASNetSelPreferenceTlv NASQmiCbkNasSystemSelPrefInd::NSPTlv

8.592.2.7 NASPRLPreferenceTlv NASQmiCbkNasSystemSelPrefInd::PRLPTlv

8.592.2.8 NASRoamPreferenceTlv NASQmiCbkNasSystemSelPrefInd::RPTlv

8.592.2.9 NASServDomainPrefTlv NASQmiCbkNasSystemSelPrefInd::SDPTlv

8.593 NASRoamPreferenceTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint16_t RoamPref

8.593.1 Detailed Description

Structure used to store Roaming Preference TLV Value.

Parameters

TlvPresent	- Boolean indicating the presence of the TLV in the QMI response
RoamPref	- Roaming Preference Value

8.593.2 Field Documentation

8.593.2.1 uint16_t NASRoamPreferenceTlv::RoamPref

8.593.2.2 uint8_t NASRoamPreferenceTlv::TlvPresent

8.594 NASServDomainPrefTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint32_t SrvDomainPref

8.594.1 Detailed Description

Structure used to store Service domain preference TLV Value.

Parameters

TlvPresent	- Boolean indicating the presence of the TLV in the QMI response
SrvDomainPref	- Service Domain Preference Value

8.594.2 Field Documentation

8.594.2.1 uint32_t NASServDomainPrefTlv::SrvDomainPref

8.594.2.2 uint8_t NASServDomainPrefTlv::TlvPresent

8.595 NASServingSystemInfo Struct Reference

Data Fields

- uint8_t registrationState
- uint8_t csAttachState
- uint8_t psAttachState
- uint8_t selectedNetwork
- uint8_t radioInterfaceNo
- uint8_t radioInterfaceList [255]
- uint8_t hdrPersonality

8.595.1 Detailed Description

This structure will hold the serving system parameters information

Parameters

registrationState	- Registration state of the mobile • 0 - QMI_NAS_NOT_REGISTERED Not registered;mobile is not currently searching for a new network to provide service • 1 - QMI_NAS_REGISTERED Registered with a network • 2 - QMI_NAS_NOT_REGISTERED_SEARCHING Not registered, but mobile is currently searching for a new network to provide service • 3 - QMI_NAS_REGISTRATION_DENIED Registration denied by the visible network • 4 - QMI_NAS_REGISTRATION_UNKNOWN Registration state is unknown
csAttachState	- Circuit Switch domain attach state of the mobile • 0 - Unknown or not applicable • 1 - Attached • 2 - Detached
psAttachState	- Packet domain attach state of the mobile • 0 - Unknown or not applicable • 1 - Attached • 2 - Detached

selectedNetwork	- Type of selected radio access network • 0x00 - Unknown • 0x01 - 3GPP2 network • 0x02 - 3GPP network
radioInterfaceNo	- Number of radio interfaces currently in use; this indicates how many radio_if identifiers follow this field
radioInterface-List	- Radio interface currently in use (each is 1 byte) • 0x00 - None (no service) • 0x01 - cdma2000 1X • 0x02 - cdma2000 HRPD (1xEV-DO) • 0x03 - AMPS • 0x04 - GSM • 0x05 - UMTS • 0x08 - LTE
hdrPersonality	- HDR personality information (valid only for EVDO) • 0x00 - Unknown • 0x01 - HRPD • 0x02 - eHRPD

Note: None

8.595.2 Field Documentation

8.595.2.1 uint8_t NASServingSystemInfo::csAttachState

8.595.2.2 uint8_t NASServingSystemInfo::hdrPersonality

8.595.2.3 uint8_t NASServingSystemInfo::psAttachState

8.595.2.4 uint8_t NASServingSystemInfo::radioInterfaceList[255]

8.595.2.5 uint8_t NASServingSystemInfo::radioInterfaceNo

8.595.2.6 uint8_t NASServingSystemInfo::registrationState

8.595.2.7 uint8_t NASServingSystemInfo::selectedNetwork

8.596 nasSeteDRXParamsReq Struct Reference

Data Fields

- BYTE * pEdrxEnable
- BYTE * pCycleLen
- BYTE * pPagingTimeWindow

8.596.1 Detailed Description

This structure contains the SLQSNASSeteDRXParams request parameters.

Parameters

pEdrxEnable	[Optional] • eDRX Enable • Values – 0x00 - Disable – 0x01 - Enable
pCycleLen	[Optional] • eDRX cycle length • Value to be set per 3GPP TS 24.008 Rel-13 Section 10.5.5.32
pPagingTime-Window	[Optional] • eDRX paging time window • Value to be set per 3GPP TS 24.008 Rel-13 Section 10.5.5.32

8.596.2 Field Documentation

8.596.2.1 BYTE∗ nasSeteDRXParamsReq::pCycleLen

8.596.2.2 BYTE∗ nasSeteDRXParamsReq::pEdrxEnable

8.596.2.3 BYTE∗ nasSeteDRXParamsReq::pPagingTimeWindow

8.597 nasSigInfo Struct Reference

Data Fields

- CDMASSInfo ∗ pCDMASigInfo
- HDRSSInfo ∗ pHDRSigInfo
- INT8 ∗ pGSMSigInfo
- CDMASSInfo ∗ pWCDMASigInfo
- LTESSInfo ∗ pLTESigInfo
- INT8 ∗ pRscp
- TDSCDMASigInfoExt ∗ pTDSCDMASigInfoExt

8.597.1 Detailed Description

Structure for storing the nasSigInfo indication parameters.

Parameters

pCDMASigInfo	• See CDMASSInfo for more information.
pHDRSigInfo	• See HDRSSInfo for more information.
pGSMSigInfo	• one byte value, GSM signal strength is the RSSI in dBm (signed value). A value of -125 dBm or lower is used to indicate No Signal

pWCDMASigInfo	• See CDMASSInfo for more information.
pLTESigInfo	• See LTESSInfo for more information.
pRscp	• RSCP of the Primary Common Control Physical Channel (PCCPCH) in dBm. Measurement range: -120 dBm to -25 dBm.
pTDSCDMASig-InfoExt	• See TDSCDMASigInfoExt for more information.

8.597.2 Field Documentation

8.597.2.1 CDMASSInfo∗ nasSigInfo::pCDMASigInfo

8.597.2.2 INT8∗ nasSigInfo::pGSMSigInfo

8.597.2.3 HDRSSInfo∗ nasSigInfo::pHDRSigInfo

8.597.2.4 LTESSInfo∗ nasSigInfo::pLTESigInfo

8.597.2.5 INT8∗ nasSigInfo::pRscp

8.597.2.6 TDSCDMASigInfoExt∗ nasSigInfo::pTDSCDMASigInfoExt

8.597.2.7 CDMASSInfo∗ nasSigInfo::pWCDMASigInfo

8.598 nasSwiGetChannelLockResp Struct Reference

Data Fields

- wcdmaUARFCN ∗ pWcdmaUARFCN
- lteEARFCN ∗ pLteEARFCN
- ltePCI ∗ pLtePCI

8.598.1 Detailed Description

This structure contains the SLQSNASSwiGetChannelLock response parameters.

Parameters

pWcdmaUARF-CN	[Optional] • See wcdmaUARFCN for more information
pLteEARFCN	[Optional] • See lteEARFCN for more information
pLtePCI	[Optional] • See ltePCI for more information

8.598.2 Field Documentation

8.598.2.1 lteEARFCN∗ nasSwiGetChannelLockResp::pLteEARFCN

8.598.2.2 ltePCI∗ nasSwiGetChannelLockResp::pLtePCI

8.598.2.3 wcdmaUARFCN∗ nasSwiGetChannelLockResp::pWcdmaUARFCN

8.599 NasSwiIndReg Struct Reference

Data Fields

- BYTE lteEsmUl
- BYTE lteEsmDl
- BYTE lteEmmUl
- BYTE lteEmmDl
- BYTE gsmUmtsUl
- BYTE gsmUmtsDl
- BYTE ∗ pRankIndicatorInd
- BYTE ∗ pTimer

8.599.1 Detailed Description

This structure contains the OTA message indication.

Parameters

lteEsmUl	• 0 - do not report • 1 - report LTE ESM uplink messages
lteEsmDl	• 0 - do not report • 1 - report LTE ESM downlink messages
lteEmmUl	• 0 - do not report • 1 - report LTE EMM uplink messages
lteEmmDl	• 0 - do not report • 1 - report GSM/UMTS uplink messages
gsmUmtsUl	• 0 - do not report • 1 - report GSM/UMTS uplink messages
gsmUmtsDl	• 0 - do not report • 1 - report GSM/UMTS downlink messages
pRankIndicator-Ind	• 0 - do not report • 1 - report Rank Indicator messages

pTimer	• 0 - do not report • 1 - report Timer Indicator messages

8.599.2 Field Documentation

8.599.2.1 BYTE NasSwiIndReg::gsmUmtsDl

8.599.2.2 BYTE NasSwiIndReg::gsmUmtsUl

8.599.2.3 BYTE NasSwiIndReg::lteEmmDl

8.599.2.4 BYTE NasSwiIndReg::lteEmmUl

8.599.2.5 BYTE NasSwiIndReg::lteEsmDl

8.599.2.6 BYTE NasSwiIndReg::lteEsmUl

8.599.2.7 BYTE* NasSwiIndReg::pRankIndicatorInd

8.599.2.8 BYTE* NasSwiIndReg::pTimer

8.600 nasSwiSetChannelLockReq Struct Reference

Data Fields

- wcdmaUARFCN * pWcdmaUARFCN
- lteEARFCN * pLteEARFCN
- ltePCI * pLtePCI

8.600.1 Detailed Description

This structure contains the SLQSNASSwiSetChannelLock response parameters.

Parameters

pWcdmaUARFCN	[Optional] • See wcdmaUARCFN for more information
pLteEARFCN	[Optional] • See lteEARCFN for more information
pLtePCI	[Optional] • See ltePCI for more information

8.600.2 Field Documentation

8.600.2.1 lteEARFCN* nasSwiSetChannelLockReq::pLteEARFCN

8.600.2.2 ltePCI∗ nasSwiSetChannelLockReq::pLtePCI

8.600.2.3 wcdmaUARFCN∗ nasSwiSetChannelLockReq::pWcdmaUARFCN

8.601 nasSysInfo Struct Reference

Data Fields

- SrvStatusInfo ∗ pCDMASrvStatusInfo
- SrvStatusInfo ∗ pHDRSrvStatusInfo
- GSMSrvStatusInfo ∗ pGSMSrvStatusInfo
- GSMSrvStatusInfo ∗ pWCDMASrvStatusInfo
- GSMSrvStatusInfo ∗ pLTESrvStatusInfo
- CDMASysInfo ∗ pCDMASysInfo
- HDRSysInfo ∗ pHDRSysInfo
- GSMSysInfo ∗ pGSMSysInfo
- WCDMASysInfo ∗ pWCDMASysInfo
- LTESysInfo ∗ pLTESysInfo
- AddCDMASysInfo ∗ pAddCDMASysInfo
- WORD ∗ pAddHDRSysInfo
- AddSysInfo ∗ pAddGSMSysInfo
- AddSysInfo ∗ pAddWCDMASysInfo
- WORD ∗ pAddLTESysInfo
- CallBarringSysInfo ∗ pGSMCallBarringSysInfo
- CallBarringSysInfo ∗ pWCDMACallBarringSysInfo
- BYTE ∗ pLTEVoiceSupportSysInfo
- BYTE ∗ pGSMCipherDomainSysInfo
- BYTE ∗ pWCDMACipherDomainSysInfo
- BYTE ∗ pSysInfoNoChange

8.601.1 Detailed Description

Structure for storing the nasSysInfo indication parameters.

Parameters

pCDMASrvStatusInfo	• See SrvStatusInfo for more information.
pHDRSrvStatusInfo	• See SrvStatusInfo for more information.
pGSMSrvStatusInfo	• See GSMSrvStatusInfo for more information.
pWCDMASrvStatusInfo	• See GSMSrvStatusInfo for more information.
pLTESrvStatusInfo	• See GSMSrvStatusInfo for more information.
pCDMASysInfo	• See CDMASysInfo for more information.

pHDRSysInfo	• See HDRSysInfo for more information.
pGSMSysInfo	• See GSMSysInfo for more information.
pWCDMASys-Info	• See WCDMASysInfo for more information.
pLTESysInfo	• See LTESysInfo for more information.
pAddCDMASys-Info	• See AddCDMASysInfo for more information.
pAddHDRSys-Info	• System table index referencing the beginning of the geo in which the current serving system is present. • When the system index is not known, 0xFFFF is used.
pAddGSMSys-Info	• See AddSysInfo for more information.
pAddWCDMA-SysInfo	• See AddSysInfo for more information.
pAddLTESysInfo	• System table index referencing the beginning of the geo in which the current serving system is present. • When the system index is not known, 0xFFFF is used.
pGSMCall-BarringSysInfo	• See CallBarringSysInfo for more information.
pWCDMACall-BarringSysInfo	• See CallBarringSysInfo for more information.
pLTEVoice-SupportSysInfo	• Indicates voice support status on LTE. – 0x00 - Voice is not supported – 0x01 - Voice is supported
pGSMCipher-DomainSysInfo	• Ciphering on the service domain. – 0x00 - No service – 0x01 - Circuit-switched only – 0x02 - Packet-switched only – 0x03 - Circuit-switched and packet-switched

pWCDMA-CipherDomain-SysInfo	• Ciphering on the service domain. – 0x00 - No service – 0x01 - Circuit-switched only – 0x02 - Packet-switched only – 0x03 - Circuit-switched and packet-switched
pSysInfoNo-Change	• System Info No Change. • Flag used to notify clients that a request to select a network ended with no change in the PLMN. – 0x01 - No change in system information

8.601.2 Field Documentation

8.601.2.1 AddCDMASysInfo* nasSysInfo::pAddCDMASysInfo

8.601.2.2 AddSysInfo* nasSysInfo::pAddGSMSysInfo

8.601.2.3 WORD* nasSysInfo::pAddHDRSysInfo

8.601.2.4 WORD* nasSysInfo::pAddLTESysInfo

8.601.2.5 AddSysInfo* nasSysInfo::pAddWCDMASysInfo

8.601.2.6 SrvStatusInfo* nasSysInfo::pCDMASrvStatusInfo

8.601.2.7 CDMASysInfo* nasSysInfo::pCDMASysInfo

8.601.2.8 CallBarringSysInfo* nasSysInfo::pGSMCallBarringSysInfo

8.601.2.9 BYTE* nasSysInfo::pGSMCipherDomainSysInfo

8.601.2.10 GSMSrvStatusInfo* nasSysInfo::pGSMSrvStatusInfo

8.601.2.11 GSMSysInfo* nasSysInfo::pGSMSysInfo

8.601.2.12 SrvStatusInfo* nasSysInfo::pHDRSrvStatusInfo

8.601.2.13 HDRSysInfo* nasSysInfo::pHDRSysInfo

8.601.2.14 GSMSrvStatusInfo* nasSysInfo::pLTESrvStatusInfo

8.601.2.15 LTESysInfo* nasSysInfo::pLTESysInfo

8.601.2.16 BYTE* nasSysInfo::pLTEVoiceSupportSysInfo

8.601.2.17 BYTE* nasSysInfo::pSysInfoNoChange

8.601.2.18 CallBarringSysInfo* nasSysInfo::pWCDMACallBarringSysInfo

8.601.2.19 BYTE* nasSysInfo::pWCDMACipherDomainSysInfo

8.601.2.20 GSMSrvStatusInfo* nasSysInfo::pWCDMASrvStatusInfo

8.601.2.21 WCDMASysInfo* nasSysInfo::pWCDMASysInfo

8.602 NASTimeInfoTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint64_t time

8.602.1 Detailed Description

This structure contains LTE Nas time Infomation

Parameters

Tlvresult	• unpack result
time	• Seconds in local time since Jan. 6th 1980 00:00:00 UTC

8.602.2 Field Documentation

8.602.2.1 uint64_t NASTimeInfoTlv::time

8.602.2.2 uint8_t NASTimeInfoTlv::TlvPresent

8.603 nasTimers Struct Reference

Data Fields

- char t3396_apn [101]
- BYTE t3396_plmn_id [3]
- ULONG t3396_val

8.603.1 Detailed Description

This structure contains Network Timer

Parameters

t3396_apn	• APN name
t3396_plmn_id	• PLMN ID
t3396_val	• T3396 timer value

8.603.2 Field Documentation

8.603.2.1 char nasTimers::t3396_apn[101]

8.603.2.2 BYTE nasTimers::t3396_plmn_id[3]

8.603.2.3 ULONG nasTimers::t3396_val

8.604 netSelectionPref Struct Reference

Data Fields

- BYTE netReg
- WORD mcc
- WORD mnc

8.604.1 Detailed Description

Contain the network selection preference.

Parameters

netReg	• specifies one of the following actions: – 0x00 - Automatic registration * Device registers according to its provisioning; mcc and mnc fields are ignored – 0x01 - Manual Registration * Device registers to specified network; mcc and mnc must contain valid values
mcc	• MCC value. Range 0 to 999
mnc	• MNC value. Range 0 to 999

8.604.2 Field Documentation

8.604.2.1 WORD netSelectionPref::mcc

8.604.2.2 WORD netSelectionPref::mnc

8.604.2.3 BYTE netSelectionPref::netReg

8.605 NetStats Struct Reference

Data Fields

- ULONG rx_packets
- ULONG tx_packets
- ULONGLONG rx_bytes
- ULONGLONG tx_bytes
- ULONG rx_errors

- ULONG tx_errors
- ULONG rx_overflows
- ULONG tx_overflows

8.605.1 Detailed Description

This structure contains the SLQSGetNetStatistic Information

Parameters

rx_packets	• Number of received Packets without error
tx_packets	• Number of transmitted Packets without error
rx_bytes	• Number of bytes recieved without error
tx_bytes	• NNumbero of bytes transmitted without error
rx_error	• Number of incoming packets with framing errors
tx_error	• Number of outgoing packets with framing errors
rx_overflows	• Number of packets dropped because Rx buffer overflowed
tx_overflows	• Number of packets dropped because Tx buffer overflowed

8.605.2 Field Documentation

8.605.2.1 ULONGLONG NetStats::rx_bytes

8.605.2.2 ULONG NetStats::rx_errors

8.605.2.3 ULONG NetStats::rx_overflows

8.605.2.4 ULONG NetStats::rx_packets

8.605.2.5 ULONGLONG NetStats::tx_bytes

8.605.2.6 ULONG NetStats::tx_errors

8.605.2.7 ULONG NetStats::tx_overflows

8.605.2.8 ULONG NetStats::tx_packets

8.606 NetworkDebugResp Struct Reference

Data Fields

- BYTE * pObjectVer
- NetworkStat1x * pNetworkStat1x
- NetworkStatEVDO * pNetworkStatEVDO
- DeviceConfigDetail * pDeviceConfigDetail
- DataStatusDetail * pDataStatusDetail

8.606.1 Detailed Description

This structure contains information about the SLQSSwiNetworkDebug response parameters.

Parameters

pObjectVer	• Object's version number for the host to handle – 0xFF - NA – Others - shows in decimal
pNetworkStat1x	• See NetworkStat1x for more information
pNetworkStatE-VDO	• See NetworkStatEVDO for more information.
pDeviceConfig-Detail	• See DeviceConfigDetail for more information.
pDataStatus-Detail	• See DataStatusDetail for more information.

8.606.2 Field Documentation

8.606.2.1 DataStatusDetail* NetworkDebugResp::pDataStatusDetail

8.606.2.2 DeviceConfigDetail* NetworkDebugResp::pDeviceConfigDetail

8.606.2.3 NetworkStat1x* NetworkDebugResp::pNetworkStat1x

8.606.2.4 NetworkStatEVDO* NetworkDebugResp::pNetworkStatEVDO

8.606.2.5 BYTE* NetworkDebugResp::pObjectVer

8.607 NetworkStat1x Struct Reference

Data Fields

- BYTE State
- WORD SO
- ULONG RX_PWR

- WORD RX_EC_IO
- ULONG TX_PWR
- BYTE ActSetCnt
- ActPilotPNElement * pActPilotPNElements
- BYTE NeighborSetCnt
- WORD * pNeighborSetPilotPN

8.607.1 Detailed Description

This structure contains 1x network status details

Parameters

State	• CDMA current access state – 0x01 - Searching – 0x02 - Idle – 0x03 - Traffic – Others - NA
SO	• CDMA service option – 0xFFFF - Not in a call – 0x0001 - Basic Variable Rate Voice Service(8kbps) – 0x0002 - Mobile Station Loopback(8kbps) – 0x0003 - Enhanced Variable Rate Codec(EVRC) Voice Service(8kbps) – 0x0006 - Short message Services(Rate Set 1) – 0x0009 - Mobile Station Loopback(13kbps) – 0x000E - Short Message Service (Rate Set 2) – 0x0011 - High Rate Voice Service(13kbps) – 0x0020 - Test Data Service Option(TDSO) – 0x0021 - cdma2000 High Speed Packet Data Service, Internet or ISO Protocol Stack – 0x0044 - EVRC-B Voice Service(8 kbps) – 0x0046 - EVRC-WB Voice Service(8 kbps) – 0x0049 - Voice Echo mode supports smart blanking(EVRC-NW) – 0x004B - Enhanced loopback – 0x8000 - Proprietary Service Option (Qualcomm Inc.)
RX_PWR	• RX Pwr(dBm) – 0xABCD00EF - -ABCD.EF dBm – ABCD00EF should be transferred to decimal while displaying – Example: 0x12340056 - -4660.86dBm 0x1234 = 4660, 0x0056 = 86 – 0xFFFFFFFF - NA

RX_EC_IO	• RX EC/IO(dB) – 0xABCD - -AB.CD dB – ABCD should be transferred to decimal while displaying – Example: 0x1234 - -18.52dB 0x12 = 18, 0x34 = 52 – 0xFFFF - NA
TX_PWR	• TX PWR(dBm) – 0xFFFFFFFF - NA – Others - display actual value in decimal – Example: 0x1234 - -4660dBm 0x1234 = 4660
ActSetCnt(	IN/OUT) • Count of active pilot PN elements • As input specifies number of sets of parameter pActPilotElements for which memory has been assigned • As output specifies the actual number of sets of parameter pActPilotElements returned by device
pActPilotPN-Elements	• See ActPilotPNElement for more information
NeighborSetCnt(	IN/OUT) • Count of neighbor pilot PN elements • As input specifies number of sets of parameter pNeighborSetPilotPN for which memory has been assigned • As output specifies the actual number of sets of parameter pNeighborSetPilotPN returned by device
pNeighborSet-PilotPN	• Neighbor pilot PN

8.607.2 Field Documentation

8.607.2.1 BYTE NetworkStat1x::ActSetCnt

8.607.2.2 BYTE NetworkStat1x::NeighborSetCnt

8.607.2.3 ActPilotPNElement* NetworkStat1x::pActPilotPNElements

8.607.2.4 WORD* NetworkStat1x::pNeighborSetPilotPN

8.607.2.5 WORD NetworkStat1x::RX_EC_IO

8.607.2.6 ULONG NetworkStat1x::RX_PWR

8.607.2.7 WORD NetworkStat1x::SO

8.607.2.8 BYTE NetworkStat1x::State

8.607.2.9 ULONG NetworkStat1x::TX_PWR

8.608 NetworkStatEVDO Struct Reference

Data Fields

- BYTE State
- BYTE MACIndex
- BYTE SectorIDLen
- WORD * pSectorID
- WORD RX_PWR
- WORD PER
- WORD PilotEnergy
- BYTE SNR

8.608.1 Detailed Description

This structure contains EVDO network status details

Parameters

State	• EVDO network access state – 0x00 - Sleep – 0x01 - Searching – 0x02 - Idle – 0x03 - Active – 0xFF - NA
MACIndex	• HDR Mac index – 0xFF - NA – Others - Display the actual value in decimal – Example: 0x12 - 18 0x12 = 18
SectorIDLen	(IN/OUT) • Sector ID length • As input specifies length of parameter pSectorID for which memory has been assigned • As output specifies the actual length of parameter pSectorID returned by device
pSectorID	• Sector ID
RX_PWR	• TX PWR(dBm) – 0xABCD - -ABCD dBm – ABCD should be transferred to decimal while displaying – Example: 0x1234 - -4660dBm 0x1234 = 4660 – 0xFFFF - NA

PER	• HDR Packet Error Rate – 0xFFFF - Unknown – Others - display the actual value in decimal – Example: 0x1234 - -4660dBm 0x1234 = 4660
PilotEnergy	• Pilt Energy (dB) – 0xFFFF - NA – 0xABCD should be transferred to decimal while displaying – Example: 0x1234 - -4660dBm 0x1234 = 4660
SNR	• Signal to Noise ratio (dB)

8.608.2 Field Documentation

8.608.2.1 BYTE NetworkStatEVDO::MACIndex

8.608.2.2 WORD NetworkStatEVDO::PER

8.608.2.3 WORD NetworkStatEVDO::PilotEnergy

8.608.2.4 WORD* NetworkStatEVDO::pSectorID

8.608.2.5 WORD NetworkStatEVDO::RX_PWR

8.608.2.6 BYTE NetworkStatEVDO::SectorIDLen

8.608.2.7 BYTE NetworkStatEVDO::SNR

8.608.2.8 BYTE NetworkStatEVDO::State

8.609 newMTMessageTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- sMSMTMessageInfo MTMessageInfo

8.609.1 Detailed Description

This structure contains MT message TLV information.

Parameters

TlvPresent	• Boolean indicating the presence of the TLV in the QMI response

MTMessageInfo	• MT Message • See sMSMTMessageInfo for more information

8.609.2 Field Documentation

8.609.2.1 sMSMTMessageInfo newMTMessageTlv::MTMessageInfo

8.609.2.2 uint8_t newMTMessageTlv::TlvPresent

8.610 newPwdData Struct Reference

Data Fields

- BYTE newPwd [4]
- BYTE newPwdAgain [4]

8.610.1 Detailed Description

This structure contains New Password Data.

Parameters

newPwd[PASSWORD_LENGTH]	• New password. – Password consists of 4 ASCII digits. – Range: 0000 to 9999.
newPwdAgain[PASSWORD_LENGTH]	• New password again. – Password consists of 4 ASCII digits. – Range: 0000 to 9999.

8.610.2 Field Documentation

8.610.2.1 BYTE newPwdData::newPwd[4]

8.610.2.2 BYTE newPwdData::newPwdAgain[4]

8.611 nmrCellInfo Struct Reference

Data Fields

- ULONG nmrCellID
- BYTE nmrPlmn [3]
- WORD nmrLac
- WORD nmrArfcn
- BYTE nmrBsic
- WORD nmrRxLev

8.611.1 Detailed Description

This structure contains information about the Network Measurement Report (NMR) Cell Information.

Parameters

nmrCellID	• Cell ID. • 0xFFFFFFFF indicates cell ID information is not present.
nmrPlmn[PLMN_LENGTH]	• MCC/MNC information coded as octet 3, 4, and 5. • This field is ignored when nmrCellID is not present.
nmrLac	• Location area code. • This field is ignored when nmrCellID is not present. – 0xFFFF - Not Available
nmrArfcn	• Absolute RF channel number. – 0xFFFF - Not Available
nmrBsic	• Base station identity code. – 0xFF - Not Available
nmrRxLev	• Cell Rx measurement. • Values range between 0 and 63. • Mapped to a measured signal level: – Rxlev 0 is a signal strength less than -110 dBm – Rxlev 1 is -110 dBm to -109 dBm – Rxlev 2 is -109 dBm to -108 dBm – ... – Rxlev 62 is -49 dBm to -48 dBm – Rxlev 63 is greater than -48 dBm – 0xFFFF - Not Available

8.611.2 Field Documentation

8.611.2.1 WORD nmrCellInfo::nmrArfcn

8.611.2.2 BYTE nmrCellInfo::nmrBsic

8.611.2.3 ULONG nmrCellInfo::nmrCellID

8.611.2.4 WORD nmrCellInfo::nmrLac

8.611.2.5 BYTE nmrCellInfo::nmrPlmn[3]

8.611.2.6 WORD nmrCellInfo::nmrRxLev

8.612 nr5gBandPref Struct Reference

Data Fields

- ULONGLONG bits_1_64
- ULONGLONG bits_65_128
- ULONGLONG bits_129_192
- ULONGLONG bits_193_256

8.612.1 Detailed Description

Contain the NR5G Band Preference.

Parameters

bits_1_64	• Bits 1 to 64 of the 256-bit NR5G Operating Band bitmask.
bits_65_128	• Bits 65 to 128 of the 256-bit NR5G Operating Band bitmask.
bits_129_192	• Bits 129 to 192 of the 256-bit NR5G Operating Band bitmask.
bits_193_256	• Bits 193 to 256 of the 256-bit NR5G Operating Band bitmask.

8.612.2 Field Documentation

8.612.2.1 ULONGLONG nr5gBandPref::bits_129_192

8.612.2.2 ULONGLONG nr5gBandPref::bits_193_256

8.612.2.3 ULONGLONG nr5gBandPref::bits_1_64

8.612.2.4 ULONGLONG nr5gBandPref::bits_65_128

8.613 NR5gBandPrefTlv Struct Reference

Data Fields

- ULONGLONG bits_1_64
- ULONGLONG bits_65_128
- ULONGLONG bits_129_192
- ULONGLONG bits_193_256
- BYTE TlvPresent

8.613.1 Detailed Description

Contain the NR5G Band Preference.

Parameters

bits_1_64	• Bits 1 to 64 of the 256-bit NR5G Operating Band bitmask.
bits_65_128	• Bits 65 to 128 of the 256-bit NR5G Operating Band bitmask.
bits_129_192	• Bits 129 to 192 of the 256-bit NR5G Operating Band bitmask.
bits_193_256	• Bits 193 to 256 of the 256-bit NR5G Operating Band bitmask.
TlvPresent	• Tlv Present

8.613.2 Field Documentation

8.613.2.1 ULONGLONG NR5gBandPrefTlv::bits_129_192

8.613.2.2 ULONGLONG NR5gBandPrefTlv::bits_193_256

8.613.2.3 ULONGLONG NR5gBandPrefTlv::bits_1_64

8.613.2.4 ULONGLONG NR5gBandPrefTlv::bits_65_128

8.613.2.5 BYTE NR5gBandPrefTlv::TlvPresent

8.614 NSSAudioCtrl Struct Reference

Data Fields

- BYTE upLink
- BYTE downLink

8.614.1 Detailed Description

This structure contains National Supplementary Services - Audio Control Information

Parameters

upLink	• Values as per[S24, 4.10 Reservation response].
downLink	• Values as per[S24, 4.10 Reservation response].

8.614.2 Field Documentation

8.614.2.1 BYTE NSSAudioCtrl::downLink

8.614.2.2 BYTE NSSAudioCtrl::upLink

8.615 NWProfile Struct Reference

Data Fields

- WORD tech
- BYTE * pProfSz
- WORD * pProfValues

8.615.1 Detailed Description

This structure contains Network supported QoS profile

Parameters

tech	Technology on which the network supported QoS profiles are being returned: • CDMA – 0x8001
exponent	

8.615.2 Field Documentation

8.615.2.1 BYTE* NWProfile::pProfSz

8.615.2.2 WORD* NWProfile::pProfValues

8.615.2.3 WORD NWProfile::tech

8.616 omaDmConfigTlv Struct Reference

Data Fields

- BYTE state
- BYTE userInputReq
- USHORT userInputTimeout
- USHORT alertmsglength
- BYTE alertmsg [256]

8.616.1 Detailed Description

This structure will hold the SwiOmaDmConfig session parameters information.

Parameters

state	• 0x01 - OMA-DM Read Request • 0x02 - OMA-DM Change Request • 0x03 - OMA-DM Config Complete

userInputReq	- Bit mask of available user inputs • 0x00 - No user input required.Informational indication • 0x01 - Accept • 0x02 - Reject
userInput-Timeout	• Timeout for user input in minutes. A value of 0 means no time-out
alertmsglength	• Length of Alert message string in bytes
alertmsg	• Alert message in UCS2 (Max 256 characters)

8.616.2 Field Documentation

8.616.2.1 BYTE omaDmConfigTlv::alertmsg[256]

8.616.2.2 USHORT omaDmConfigTlv::alertmsglength

8.616.2.3 BYTE omaDmConfigTlv::state

8.616.2.4 BYTE omaDmConfigTlv::userInputReq

8.616.2.5 USHORT omaDmConfigTlv::userInputTimeout

8.617 omaDmConfigTlvExt Struct Reference

Data Fields

- BYTE state
- BYTE userInputReq
- USHORT userInputTimeout
- USHORT alertmsglength
- BYTE alertmsg [256]

8.617.1 Detailed Description

This structure will hold the SwiOmaDmConfig session parameters information.

Parameters

state	• 1 - reserved • 2 - reserved • 3 - reserved • 4 - CI DC Success • 5 - CI DC Failure • 6 - User/device initiated PRL update success. • 7 - User/device initiated PRL update failure. • 8 - HFA DC session start • 9 - HFA DC sucess. • 10 - HFA is cancelled. • 11 - HFA retry. UI Screen 13[1] with 0 percent progress bar should be shown. • 12 - HFA fail after 5 retries. UI Screen 2[1] should be displayed. • 13 - HFA retry down counter. Used to update the process bar of UI Screen 13[1]. • 14 - HFA PRL session start, UI screen 4[1] should be displayed. • 15 - HFA PRL update success. • 16 - Device is launching a NI session. UI Screen 1[1] should be displayed. • 17 - An empty session. UI Screen 2[1] should be displayed. • 18 - No network coverage. • 19 - HFA is not enabled. • 20 - CI DC Start, UI Screen 1[1] should be displayed. • 21 - CI PRL start, UI screen 4[1] should be displayed. • 22 - HFA PRL updates fail. • 23 - Device reboot. • 24 - CI DC is cancelled. • 25 - User/device initiated PRL update is cancelled. • 26 - NI session is cancelled. • 27 - Current NI session is not enabled. • 28 - NI DC success. • 29 - NI DC Fail. • 30 - NI PRL success • 31 - NI PRL fail. • 32 - Reserved • 33 - NI fumo fail • 34 - NI session fail, unable to point out the session type.
user_input_req	- OMA task stop to wait user's input if this field is valid. until user input selection or after "UI Timer out (next field). In the case of timeout, a default selection of "YES/OK" is accepted. Note that this option is valid when DM state is 4/6/12/28/30. 0 - user/host doesn't need to input anything, and OMA task doesn't blocked by UI. 1 - user/host must input "YES/OK/CANCEL". 2 - User/host must input "NO/CANCEL". 3 - user/host must input "YES/OK/NO/CANCEL.
user_input_timeout	• Timeout for user input in seconds. This indicates how many seconds OMA task stop to wait for host/user's response.
alertmsglength	• Length of Alert message string in word(16-bit)

alertmsg	• Alert message in UCS2 (Max 256 characters) • This string is printed by host

8.617.2 Field Documentation

8.617.2.1 BYTE omaDmConfigTlvExt::alertmsg[256]

8.617.2.2 USHORT omaDmConfigTlvExt::alertmsglength

8.617.2.3 BYTE omaDmConfigTlvExt::state

8.617.2.4 BYTE omaDmConfigTlvExt::userInputReq

8.617.2.5 USHORT omaDmConfigTlvExt::userInputTimeout

8.618 omaDmFotaTlv Struct Reference

Data Fields

- BYTE state
- BYTE userInputReq
- USHORT userInputTimeout
- ULONG fwdloadsize
- ULONG fwloadComplete
- USHORT updateCompleteStatus
- BYTE severity
- USHORT versionlength
- BYTE version [256]
- USHORT namelength
- BYTE package_name [256]
- USHORT descriptionlength
- BYTE description [256]
- BYTE sessionType

8.618.1 Detailed Description

This structure will hold the SwiOmaDmFota session parameters information.

Parameters

state	• 0x01 - No Firmware available • 0x02 - Query Firmware Download • 0x03 - Firmware Downloading • 0x04 - Firmware downloaded • 0x05 - Query Firmware Update • 0x06 - Firmware updating • 0x07 - Firmware updated

userInputReq	- Bit mask of available user inputs • 0x00 - No user input required.Informational indication • 0x01 - Accept • 0x02 - Reject
userInput-Timeout	• Timeout for user input in minutes. A value of 0 means no time-out
fwdloadsize	• The size (in bytes) of the firmware update package
fwloadComplete	• The number of bytes downloaded. Need to determine how often to send this message for progress bar notification. Every 500ms or 5% increment.
update-CompleteStatus	• This field should be looked at only when the OMADM session is complete. • See qaGobiApiTableSwiOMADMUpdateCompleteStatus.h for update complete status.
severity	• 0x01 - Mandatory • 0x02 - Optional
versionlength	• Length of FW Version string in bytes
version	• FW Version string in ASCII (Max 256 characters)
namelength	• Length Package Name string in bytes
package_name	• Package Name in UCS2 (Max 256 characters)
descriptionlength	• Length of description in bytes
description	• Description of Update Package in USC2 (Max 256 characters)
sessionType	• 0x00 - Client initiated • 0x01 - Network initiated

8.618.2 Field Documentation

8.618.2.1 BYTE omaDmFotaTlv::description[256]

8.618.2.2 USHORT omaDmFotaTlv::descriptionlength

8.618.2.3 ULONG omaDmFotaTlv::fwdloadsize

8.618.2.4 ULONG omaDmFotaTlv::fwloadComplete

8.618.2.5 USHORT omaDmFotaTlv::namelength

8.618.2.6 BYTE omaDmFotaTlv::package_name[256]

8.618.2.7 BYTE omaDmFotaTlv::sessionType

8.618.2.8 BYTE omaDmFotaTlv::severity

8.618.2.9 BYTE omaDmFotaTlv::state

8.618.2.10 USHORT omaDmFotaTlv::updateCompleteStatus

8.618.2.11 BYTE omaDmFotaTlv::userInputReq

8.618.2.12 USHORT omaDmFotaTlv::userInputTimeout

8.618.2.13 BYTE omaDmFotaTlv::version[256]

8.618.2.14 USHORT omaDmFotaTlv::versionlength

8.619 omaDmFotaTlvExt Struct Reference

Data Fields

- BYTE state
- BYTE reserved
- USHORT userInputTimeout
- ULONG packageSize
- ULONG receivedBytes
- USHORT fumoResultCode
- USHORT versionlength
- BYTE version [256]
- USHORT namelength
- BYTE package_name [256]
- USHORT descriptionlength
- BYTE description [256]

8.619.1 Detailed Description

This structure will hold the SwiOmaDmFota session parameters information.

Parameters

state	• 0x01 - No Firmware available • 0x02 - reserved • 0x03 - Update progress bar, UI screen 7[1] should be displayed • 0x04 - reserved • 0x05 - FUMO image download success, UI screen 8[1] should be displayed • 0x06 - reserved • 0x07 - FUMO image installation result, used to return error code. • 0x08 - FUMO session start • 0x09 - UI Screen 7[1] with 0 percent bar should be displayed • 0x0A - FUMO image installation is cancelled by user. • 0x0B - FUMO session fail • 0x0C - Device is sending a report to OMA Server. • 0x0D - Report to server success. • 0x0E - Report to server fails. • 0x0F - reserved • 0x10 - FUMO session is cancelled before image download success. • 0x11 - UI Screen 16[1] should be displayed, FUMO delay option, OMA task is blocked until a valid response is recevied.
reserved	- For sprint reserved
user_input_timeout	• How many seconds OMA task stop to wait for user/host response.
packageSize	• The size (in bytes) of the firmware update package (only valid for states 3/5/7).
receivedBytes	• The number of bytes downloaded. Useful for FUMO state 3.
fumoResultCode	• Used when fumo state is 7/11. REsult code of FUMO image installation – 200 image install success • Others: image install fail
versionlength	• Length of FW Version string in bytes
version	• FW Version string in ASCII (Max 256 characters)
namelength	• Length Package Name string in bytes
package_name	• Package Name in UCS2 (Max 256 characters)
descriptionlength	• Length of description in bytes

description	• Description of Update Package in USC2 (Max 256 characters)

8.619.2 Field Documentation

8.619.2.1 BYTE omaDmFotaTlvExt::description[256]

8.619.2.2 USHORT omaDmFotaTlvExt::descriptionlength

8.619.2.3 USHORT omaDmFotaTlvExt::fumoResultCode

8.619.2.4 USHORT omaDmFotaTlvExt::namelength

8.619.2.5 BYTE omaDmFotaTlvExt::package_name[256]

8.619.2.6 ULONG omaDmFotaTlvExt::packageSize

8.619.2.7 ULONG omaDmFotaTlvExt::receivedBytes

8.619.2.8 BYTE omaDmFotaTlvExt::reserved

8.619.2.9 BYTE omaDmFotaTlvExt::state

8.619.2.10 USHORT omaDmFotaTlvExt::userInputTimeout

8.619.2.11 BYTE omaDmFotaTlvExt::version[256]

8.619.2.12 USHORT omaDmFotaTlvExt::versionlength

8.620 omaDmNotificationsTlv Struct Reference

Data Fields

- BYTE notification
- USHORT sessionStatus

8.620.1 Detailed Description

This structure will hold the SwiOmaDmConfig session parameters information.

Parameters

notification	• 0x01 - GPS settings change • 0x02 - Device reset • 0x03 - Device factory reset • 0x04 - CI-DC Session start • 0x05 - CI-DC Session end • 0x06 - CI-PRL Session start • 0x07 - CI-PRL Session end • 0x08 - CI-FUMO Session start • 0x09 - CI-FUMO session end • 0x0A - HFA-DC Session start • 0x0B - HFA-DC Session end • 0x0C - HFA-PRL Session start • 0x0D - HFA-PRL Session end • 0x0E - HFA-FUMO Session start • 0x0F - HFA-FUMO session end • 0x10 - NI Session start • 0x11 - NI session end
sessionStatus	• This field will set to the session status for notifications that occur at the end of a session, zero for all other notifications • See qaGobiApiTableSwiOMADMSessionStatus.h for session completion code.

8.620.2 Field Documentation

8.620.2.1 BYTE omaDmNotificationsTlv::notification

8.620.2.2 USHORT omaDmNotificationsTlv::sessionStatus

8.621 operatorNameString Struct Reference

Data Fields

- BYTE PLMNName [255]

8.621.1 Detailed Description

This structure contains Operator Name String as defined in CPHS4_2.WW6(Feb 27, 1997) (Section B.4.1.2)from multiple sources.

Parameters

PLMNName	• PLMN name must be coded in a default 7-bit alphabet with b8 set to 0.

8.621.2 Field Documentation

8.621.2.1 BYTE operatorNameString::PLMNName[255]

8.622 OperatorPLMNData Struct Reference

Data Fields

- BYTE mcc [3]
- BYTE mnc [3]
- WORD lac1
- WORD lac2
- BYTE PLMNRecID

8.622.1 Detailed Description

This structure contains Operator PLMN Data from multiple sources.

Parameters

mcc	• MCC in ASCII string (a value of D in any of the digits is to be used to indicate a "wild" value for that corresponding digit).
mnc	• MNC in ASCII string (a value of D in any of the digits is to be used to indicate a "wild" value for that corresponding digit; digit 3 in MNC is optional and when not present, will be set as ASCII F).
lac1	• Location area code 1.
lac2	• Location area code 1.
PLMNRecID	• PLMN network name record identifier.

8.622.2 Field Documentation

8.622.2.1 WORD OperatorPLMNData::lac1

8.622.2.2 WORD OperatorPLMNData::lac2

8.622.2.3 BYTE OperatorPLMNData::mcc[3]

8.622.2.4 BYTE OperatorPLMNData::mnc[3]

8.622.2.5 BYTE OperatorPLMNData::PLMNRecID

8.623 operatorPLMNList Struct Reference

Data Fields

- WORD numInstance
- OperatorPLMNData PLMNData [255]

8.623.1 Detailed Description

This structure contains Operator PLMN List as defined in 3GPP TS 31.102 (Section 4.2.59) from multiple sources.

Parameters

numInstance	• Number of sets of the elements.
PLMNData	• Refer OperatorPLMNLData for details (Optional).

8.623.2 Field Documentation

8.623.2.1 WORD operatorPLMNList::numInstance

8.623.2.2 OperatorPLMNData operatorPLMNList::PLMNData[255]

8.624 pack_dms_ActivateAutomatic_t Struct Reference

Data Fields

- uint8_t actCode [81]

8.624.1 Detailed Description

This structure contains UIM activate automation information

Parameters

actCode	• NULL-terminated string representing activation code (maximum string length of 12). • Specific carrier requirements may dictate actual activation code that is applicable, e.g., "∗22899"

8.624.2 Field Documentation

8.624.2.1 uint8_t pack_dms_ActivateAutomatic_t::actCode[81]

8.625 pack_dms_GetCustFeaturesV2_t Struct Reference

Data Fields

- uint8_t cust_id [64+1]
- uint8_t list_type
- uint16_t Tlvresult

8.625.1 Detailed Description

This structure contains which customization id or the list type want to retrieve from modem. This TLV is only applicable for 9x30 modules so far

Parameters

cust_id	• Customization ID (Maximum 64 bytes) • NULL terminated ASCII string.
list_type	• list type requested
Tlvresult	• Pack Result

8.625.2 Field Documentation

8.625.2.1 uint8_t pack_dms_GetCustFeaturesV2_t::cust_id[64+1]

8.625.2.2 uint8_t pack_dms_GetCustFeaturesV2_t::list_type

8.625.2.3 uint16_t pack_dms_GetCustFeaturesV2_t::Tlvresult

8.626 pack_dms_ResetToFactoryDefaults_t Struct Reference

Data Fields

- uint8_t spc [6]

8.626.1 Detailed Description

This structure contains UIM reset to factory default information

Parameters

spc[IN]	• Service programming code in ASCII format (digits 0 to 9 only)

8.626.2 Field Documentation

8.626.2.1 uint8_t pack_dms_ResetToFactoryDefaults_t::spc[6]

8.627 pack_dms_SetActivationStatusCallback_t Struct Reference

Data Fields

- uint8_t activationState

8.627.1 Detailed Description

This structure is used to store Set Service Activation Status callback parameter pack.

Parameters

activationState	• Service activation state. • Values – 0 - Do not report – 1 - Report activation state changes

8.627.2 Field Documentation

8.627.2.1 uint8_t pack_dms_SetActivationStatusCallback_t::activationState

8.628 pack_dms_SetCrashAction_t Struct Reference

Data Fields

- uint8_t crashAction

8.628.1 Detailed Description

This structure is used to store pack_dms_SetCrashAction parameters.

Parameters

crashAction	• 0 - USB Memory Download. Modem will reset after a crash and will stay in USB download mode with only DM port enumerated. • 1 - Reset. Modem will reset and come back in ONLINE mode. Minimal crash data will be available and can be extracted with at!gcdump? AT command • 2 - No Action

8.628.2 Field Documentation

8.628.2.1 uint8_t pack_dms_SetCrashAction_t::crashAction

8.629 pack_dms_SetCustFeature_t Struct Reference

Data Fields

- uint32_t GpsEnable
- uint8_t DisableIMSI
- uint16_t IPFamSupport
- uint8_t RMAutoConnect
- uint8_t GPSSel
- uint8_t SMSSupport
- uint8_t IsVoiceEnabled
- uint8_t DHCPRelayEnabled

- uint8_t GPSLPM

8.629.1 Detailed Description

This structure contains current settings of custom features pack parameters

Parameters

GpsEnable	• describes if GPS is enabled or disabled • values: – 0x00 - GPS is disabled – 0x01 - GPS is enabled
DisableIMSI	• optional 1 byte parameter • describes if IMSI display is enabled or disabled • values: – 0x00 - Allow display of IMSI – 0x01 - Do not display IMSI
IPFamSupport	• optional 2 byte BitMask • bitmask representing the IP families supported • values: – 0x01 - IPv4 – 0x02 - IPv6 – 0x04 - IPv4v6
RMAutoConnect	• optional 1 byte parameter • QMI Mode RM Net Auto Connect Support • values: – 0x00 - Not Supported – 0x01 - Supported
GPSSel	• optional 1 byte parameter • GPS Antenna Select • values: – 0x00 - Dedicated GPS Port – 0x01 - GPS Rx over AUX Port – 0x02 - GPS Rx over dedicated GPS port with no bias voltage applied
SMSSupport	• optional 1 byte parameter • SMS support • values: – 0x00 - Not supported – 0x01 - supported • Used to determine whether or not to hide SMS from user

IsVoiceEnabled	• optional 1 byte parameter • Voice support • values: – 0x00 - Enable voice on both AT and QMI interface (default) – 0x01 - Reserved – 0x02 - Disable voice on both AT and QMI interface
DHCPRelay-Enabled	• optional 1 byte parameter • DHCP Relay support • values: – 0x00 - Disable DHCP relay – 0x01 - Enable DHCP relay
GPSLPM	• optional 1 byte parameter • GPSLPM support • values: – 0x00 - Enable GPS in Low Power Mode – 0x01 - Disable GPS in Low Power Mode

8.629.2 Field Documentation

8.629.2.1 uint8_t pack_dms_SetCustFeature_t::DHCPRelayEnabled

8.629.2.2 uint8_t pack_dms_SetCustFeature_t::DisableIMSI

8.629.2.3 uint32_t pack_dms_SetCustFeature_t::GpsEnable

8.629.2.4 uint8_t pack_dms_SetCustFeature_t::GPSLPM

8.629.2.5 uint8_t pack_dms_SetCustFeature_t::GPSSel

8.629.2.6 uint16_t pack_dms_SetCustFeature_t::IPFamSupport

8.629.2.7 uint8_t pack_dms_SetCustFeature_t::IsVoiceEnabled

8.629.2.8 uint8_t pack_dms_SetCustFeature_t::RMAutoConnect

8.629.2.9 uint8_t pack_dms_SetCustFeature_t::SMSSupport

8.630 pack_dms_SetCustFeaturesV2_t Struct Reference

Data Fields

- uint8_t cust_id [64+1]
- uint16_t value_length
- uint8_t cust_value [8+1]
- uint16_t Tlvresult

8.630.1 Detailed Description

This structure contains customization settings set to modem pack

Parameters

cust_id	• Customization ID (Maximum 64 bytes) • NULL terminated ASCII string.
value_length	• length of cust_value field
cust_value	• Customization Setting Value (Maximum 8 bytes)
Tlvresult	• Pack Result

8.630.2 Field Documentation

8.630.2.1 uint8_t pack_dms_SetCustFeaturesV2_t::cust_id[64+1]

8.630.2.2 uint8_t pack_dms_SetCustFeaturesV2_t::cust_value[8+1]

8.630.2.3 uint16_t pack_dms_SetCustFeaturesV2_t::Tlvresult

8.630.2.4 uint16_t pack_dms_SetCustFeaturesV2_t::value_length

8.631 pack_dms_SetEventReport_t Struct Reference

Data Fields

- uint8_t mode

8.631.1 Detailed Description

This structure is used to store pack_dms_SetEventReport parameters.

Parameters

mode	• Operating Mode • 0 - reset • 1 - set • 2 - no change

8.631.2 Field Documentation

8.631.2.1 uint8_t pack_dms_SetEventReport_t::mode

8.632 pack_dms_SetIndicationRegister_t Struct Reference

Data Fields

- uint8_t PSMStatus
- uint8_t PSMCfgChangeInfo
- uint8_t RptIMSCapability

8.632.1 Detailed Description

This structure contains the DMS Register Indication request parameters

Parameters

PSMStatus	• Power Save Mode Status • Values – 0 - Do not report – 1 - Report PSM status – 2 - No Change
PSMCfgChange-Info	• Power Save Mode Configuration Change Information • Values – 0 - Do not report – 1 - Report Power Save Mode configuration changes – 2 - No Change
RptIMS-Capability	• Report IMS Capability • Values – 0 - Do not report – 1 - Report IMS capability – 2 - No Change

8.632.2 Field Documentation

8.632.2.1 uint8_t pack_dms_SetIndicationRegister_t::PSMCfgChangeInfo

8.632.2.2 uint8_t pack_dms_SetIndicationRegister_t::PSMStatus

8.632.2.3 uint8_t pack_dms_SetIndicationRegister_t::RptIMSCapability

8.633 pack_dms_SetPower_t Struct Reference

Data Fields

- uint32_t mode
- uint16_t Tlvresult

8.633.1 Detailed Description

Structure to store pack the operating mode of the device.

Parameters

mode	• Selected operating mode – See qaGobiApiTablePowerModes.h for power modes
Tlvresult	• pack Tlv Result.

8.633.2 Field Documentation

8.633.2.1 uint32_t pack_dms_SetPower_t::mode

8.633.2.2 uint16_t pack_dms_SetPower_t::Tlvresult

8.634 pack_dms_SetUSBComp_t Struct Reference

Data Fields

- uint8_t USBComp
- uint16_t Tlvresult

8.634.1 Detailed Description

This structure is used to store USB composition information pack paramters

Parameters

USBComp	• Current USB Composition • Values: – 0..5 - Reserved (non-QMI) – 6 - DM NMEA AT QMI – 7 - DM NMEA AT QMI1 QMI2 QMI3 – 8 - DM NMEA AT MBIM – 9 - MBIM – 10 - NMEA MBIM – 11 - DM MBIM – 12 - DM NMEA MBIM 13-22 are combined compositions. One is for Win8 MBIM interfaces, another is for legacy QMI interfaces – 13 - 6 for QMI, 8 for MBIM – 14 - 6 for QMI, 9 for MBIM – 15 - 6 for QMI, 10 for MBIM – 16 - 6 for QMI, 11 for MBIM – 17 - 6 for QMI, 12 for MBIM – 18 - 7 for QMI, 8 for MBIM – 19 - 7 for QMI, 9 for MBIM – 20 - 7 for QMI, 10 for MBIM – 21 - 7 for QMI, 11 for MBIM – 22 - 7 for QMI, 12 for MBIM
Tlvresult	• pack Tlv Result.

8.634.2 Field Documentation

8.634.2.1 uint16_t pack_dms_SetUSBComp_t::Tlvresult

8.634.2.2 uint8_t pack_dms_SetUSBComp_t::USBComp

8.635 pack_dms_SLQSDmsSwiIndicationRegister_t Struct Reference

Data Fields

- uint8_t resetInfoInd

8.635.1 Detailed Description

This structure contains set registration state for different indication pack

Parameters

resetInfoInd[IN]	• Values – 0 - Disable – 1 - Enable

8.635.2 Field Documentation

8.635.2.1 uint8_t pack_dms_SLQSDmsSwiIndicationRegister_t::resetInfoInd

8.636 pack_dms_SLQSSetPowerSaveModeConfig_t Struct Reference

Data Fields

- uint8_t * pPsmEnableState
- uint32_t * pActiveTimer
- uint32_t * pPeriodicUpdateTimer

8.636.1 Detailed Description

This structure contains the Power Save Mode (PSM) configuration parameter.

Parameters

pPsmEnable-State	[Optional] • PSM Enable State • Values – 0 - PSM is not enabled – 1 - PSM is enabled
pActiveTimer	[Optional] • Active Timer • PSM active timer value (in seconds). • ActiveTimer encoding is the GPRS timer 2 encoding specified in Table 10.5.172 of 3GPP TS 24.008.
pPeriodic-UpdateTimer	[Optional] • Periodic Update Timer • PSM periodic update timer value (in seconds) • Periodic Update Timer encoding is the GPRS timer 3 encoding specified in Table 10.5.163a of 3GPP TS 24.008.

8.636.2 Field Documentation

8.636.2.1 uint32_t* pack_dms_SLQSSetPowerSaveModeConfig_t::pActiveTimer

8.636.2.2 uint32_t* pack_dms_SLQSSetPowerSaveModeConfig_t::pPeriodicUpdateTimer

8.636.2.3 uint8_t* pack_dms_SLQSSetPowerSaveModeConfig_t::pPsmEnableState

8.637 pack_dms_SLQSSwiGetCrashInfo_t Struct Reference

Data Fields

- uint8_t clear

8.637.1 Detailed Description

This structure contains pack_dms_SLQSSwiGetCrashInfo parameters

Parameters

clear	• 0 - do not clear crash data after response • 1 - clear crash data after response

8.637.2 Field Documentation

8.637.2.1 uint8_t pack_dms_SLQSSwiGetCrashInfo_t::clear

8.638 pack_dms_SLQSSwiSetDyingGaspCfg_t Struct Reference

Data Fields

- uint8_t ∗ pDestSMSNum
- uint8_t ∗ pDestSMSContent

8.638.1 Detailed Description

This structure is used to store pack_dms_SLQSSwiSetDyingGaspCfg parameters

Parameters

pDestSMSNum[IN]	• SMS Destination Number as string of 8 bit ASCII Characters Max 20 chars. • Optional parameter.
pDestSMSContent[IN]	• SMS COntent as a string of 8 bit ASCII text characters Max 160 chars. • Optional parameter.

8.638.2 Field Documentation

8.638.2.1 uint8_t∗ pack_dms_SLQSSwiSetDyingGaspCfg_t::pDestSMSContent

8.638.2.2 uint8_t∗ pack_dms_SLQSSwiSetDyingGaspCfg_t::pDestSMSNum

8.639 pack_dms_SLQSSwiSetHostDevInfo_t Struct Reference

Data Fields

- char manString [255]
- char modelString [255]
- char swVerString [255]
- char plasmaIDString [255]

8.639.1 Detailed Description

This structure contains SWI set host device info unpack information

Parameters

manString[IN]	• Host Device Manufacturer Name • Null terminated ASCII String
modelString[IN]	• Host Device Model String • Null terminated ASCII string.
swVerString[IN]	• Host Device Software Version String • Null terminated ASCII string
plasmaIDString[-IN]	• Host Device Plasma ID String • Null terminated alphanumeric ASCII string

8.639.2 Field Documentation

8.639.2.1 char pack_dms_SLQSSwiSetHostDevInfo_t::manString[255]

8.639.2.2 char pack_dms_SLQSSwiSetHostDevInfo_t::modelString[255]

8.639.2.3 char pack_dms_SLQSSwiSetHostDevInfo_t::plasmaIDString[255]

8.639.2.4 char pack_dms_SLQSSwiSetHostDevInfo_t::swVerString[255]

8.640 pack_dms_SLQSSwiSetOSInfo_t Struct Reference

Data Fields

- char nameString [255]
- char versionString [255]

8.640.1 Detailed Description

This structure contains SWI set host OS info pack information

Parameters

nameString[IN]	Host device manufacture String • NULL terminated ASCII string.
VersionString[IN]	Host device model String • NULL terminated ASCII string.

8.640.2 Field Documentation

8.640.2.1 char pack_dms_SLQSSwiSetOSInfo_t::nameString[255]

8.640.2.2 char pack_dms_SLQSSwiSetOSInfo_t::versionString[255]

8.641 pack_dms_SwiSetEventReport_t Struct Reference

Data Fields

- uint8_t * pTempReport
- uint8_t * pVoltReport

8.641.1 Detailed Description

This structure is used to store pack_dms_SwiSetEventReport parameters.

Parameters

pTempReport	(optional) • Temperature indicator. – 0 - Do not report – 1 - Report when state changes
pVoltReport	(optional) • Voltage Indicator. – 0 - Do not report – 1 - Report when state changes

8.641.2 Field Documentation

8.641.2.1 uint8_t* pack_dms_SwiSetEventReport_t::pTempReport

8.641.2.2 uint8_t* pack_dms_SwiSetEventReport_t::pVoltReport

8.642 pack_dms_UIMChangePIN_t Struct Reference

Data Fields

- uint8_t id
- uint8_t oldValue [255]
- uint8_t newValue [255]

8.642.1 Detailed Description

This structure contains UIM Unblock PIN Information

Parameters

id[IN]	• PIN ID – 1 (PIN1 / CHV1) – 2 (PIN2 / CHV2)
oldValue[IN]	• Old PIN value of PIN to change
newValue[IN]	• New PIN value of PIN to change

8.642.2 Field Documentation

8.642.2.1 uint8_t pack_dms_UIMChangePIN_t::id

8.642.2.2 uint8_t pack_dms_UIMChangePIN_t::newValue[255]

8.642.2.3 uint8_t pack_dms_UIMChangePIN_t::oldValue[255]

8.643 pack_dms_UIMGetControlKeyStatus_t Struct Reference

Data Fields

- uint8_t facility

8.643.1 Detailed Description

This structure contains UIM get control key status information

Parameters

facility[IN]	• MT or network facility – 0 - Network Personalization (PN) – 1 - Network Subset Personalization (PU) – 2 - Service Provider Personalization (PP) – 3 - Corporate Personalization (PC) – 4 - UIM Personalization (PF)

8.643.2 Field Documentation

8.643.2.1 uint8_t pack_dms_UIMGetControlKeyStatus_t::facility

8.644 pack_dms_UIMGetICCID_t Struct Reference

Data Fields

- uint16_t Tlvresult

8.644.1 Detailed Description

This structure contains UIM Get ICCID pack

Parameters

Tlvresult	• Pack result.

8.644.2 Field Documentation

8.644.2.1 uint16_t pack_dms_UIMGetICCID_t::Tlvresult

8.645 pack_dms_UIMSetControlKeyProtection_t Struct Reference

Data Fields

- uint8_t facility
- uint8_t facilityState
- uint8_t facilityCk [8]

8.645.1 Detailed Description

This structure contains UIM Set control key protection information

Parameters

facility[IN]	• MT or network facility – 0 - Network Personalization (PN) – 1 - Network Subset Personalization (PU) – 2 - Service Provider Personalization (PP) – 3 - Corporate Personalization (PC) – 4 - UIM Personalization (PF)
facilityState[IN]	• UIM facility state – 0 - Deactivated – 1 - Activated – 2 - Blocked
facilityCk[IN]	• Facility depersonalization control key, string in ASCII text (maximum 8 bytes)

8.645.2 Field Documentation

8.645.2.1 uint8_t pack_dms_UIMSetControlKeyProtection_t::facility

8.645.2.2 uint8_t pack_dms_UIMSetControlKeyProtection_t::facilityCk[8]

8.645.2.3 uint8_t pack_dms_UIMSetControlKeyProtection_t::facilityState

8.646 pack_dms_UIMSetPINProtection_t Struct Reference

Data Fields

- uint8_t id
- uint8_t bEnable
- uint8_t value [255]

8.646.1 Detailed Description

This structure contains PIN Protection Information

Parameters

id[IN]	• PIN ID – 1 (PIN1 / CHV1) – 2 (PIN2 / CHV2)
bEnable[IN]	• Enable/disable PIN protection, 0 = Disable
pValue[IN]	• PIN value of the PIN to be enabled/disabled

8.646.2 Field Documentation

8.646.2.1 uint8_t pack_dms_UIMSetPINProtection_t::bEnable

8.646.2.2 uint8_t pack_dms_UIMSetPINProtection_t::id

8.646.2.3 uint8_t pack_dms_UIMSetPINProtection_t::value[255]

8.647 pack_dms_UIMUnblockControlKey_t Struct Reference

Data Fields

- uint8_t facility
- uint8_t facilityCk [8]

8.647.1 Detailed Description

This structure contains UIM unblock Control Key information

Parameters

facility[IN]	• MT or network facility – 0 - Network Personalization (PN) – 1 - Network Subset Personalization (PU) – 2 - Service Provider Personalization (PP) – 3 - Corporate Personalization (PC) – 4 - UIM Personalization (PF)
facilityCk[IN]	• Facility depersonalization control key, string in ASCII text (maximum 8 bytes)

8.647.2 Field Documentation

8.647.2.1 uint8_t pack_dms_UIMUnblockControlKey_t::facility

8.647.2.2 uint8_t pack_dms_UIMUnblockControlKey_t::facilityCk[8]

8.648 pack_dms_UIMUnblockPIN_t Struct Reference

Data Fields

- uint8_t id
- uint8_t pukValue [255]
- uint8_t newPin [255]

8.648.1 Detailed Description

This structure contains UIM Unblock PIN Information

Parameters

id[IN]	• PIN ID – 1 (PIN1 / CHV1) – 2 (PIN2 / CHV2)
pukValue[IN]	• PUK value of PIN to be unblocked
newPin[IN]	• New PIN value for the PIN to be unblocked

8.648.2 Field Documentation

8.648.2.1 uint8_t pack_dms_UIMUnblockPIN_t::id

8.648.2.2 uint8_t pack_dms_UIMUnblockPIN_t::newPin[255]

8.648.2.3 uint8_t pack_dms_UIMUnblockPIN_t::pukValue[255]

8.649 pack_dms_UIMVerifyPIN_t Struct Reference

Data Fields

- uint8_t id
- uint8_t value [255]

8.649.1 Detailed Description

This structure contains PIN Value Information

Parameters

id[IN]	• PIN ID – 1 (PIN1 / CHV1) – 2 (PIN2 / CHV2)
value[IN]	• PIN value of the PIN to be enabled/disabled

8.649.2 Field Documentation

8.649.2.1 uint8_t pack_dms_UIMVerifyPIN_t::id

8.649.2.2 uint8_t pack_dms_UIMVerifyPIN_t::value[255]

8.650 pack_fms_GetImagesPreference_t Struct Reference

Data Fields

- uint16_t Tlvresult

8.650.1 Detailed Description

This structure contains the Get Image Preference information pack

Parameters

Tlvresult	• Pack result

8.650.2 Field Documentation

8.650.2.1 uint16_t pack_fms_GetImagesPreference_t::Tlvresult

8.651 pack_fms_GetStoredImages_t Struct Reference

Data Fields

- uint16_t Tlvresult

8.651.1 Detailed Description

This structure contains the Get Stored Images pack

Parameters

Tlvresult	• Pack result

8.651.2 Field Documentation

8.651.2.1 uint16_t pack_fms_GetStoredImages_t::Tlvresult

8.652 pack_fms_SetImagesPreference_t Struct Reference

Data Fields

- uint32_t imageListSize
- FMSPrefImageList * pImageList
- uint32_t bForceDownload
- uint8_t modemindex
- uint16_t Tlvresult

8.652.1 Detailed Description

This structure contains the Set Images Preference pack

Parameters

imageListSize	• Image List Size
pImageList	• Image List • See FMSPrefImageList
bForceDownload	• 0 - Not Force Donwload. • 1 - Focrce Download.
modemindex	• Modem Index.
Tlvresult	• Unpack result

8.652.2 Field Documentation

8.652.2.1 uint32_t pack_fms_SetImagesPreference_t::bForceDownload

8.652.2.2 uint32_t pack_fms_SetImagesPreference_t::imageListSize

8.652.2.3 uint8_t pack_fms_SetImagesPreference_t::modemindex

8.652.2.4 FMSPrefImageList* pack_fms_SetImagesPreference_t::pImageList

8.652.2.5 uint16_t pack_fms_SetImagesPreference_t::Tlvresult

8.653 pack_loc_Delete_Assist_Data_t Struct Reference

Data Fields

- loc_SVInfo * pSVInfo
- loc_GnssData * pGnssData
- loc_CellDb * pCellDb
- loc_ClkInfo * pClkInfo
- loc_BdsSVInfo * pBdsSVInfo
- uint16_t Tlvresult

8.653.1 Detailed Description

This structure contains LOC delete assist data pack

Parameters

pSVInfo	• Pointer to struct loc_SVInfo. See loc_SVInfo for more information
pGnssData	• Pointer to struct loc_GnssData. See loc_GnssData for more information
pCellDb	• Pointer to struct loc_CellDb. See loc_CellDb for more information
pClkInfo	• Pointer to struct loc_ClkInfo. See loc_ClkInfo for more information
pBdsSVInfo	• Pointer to struct loc_BdsSVInfo. See loc_BdsSVInfo for more information
Tlvresult	• Pack delete assist data request result.

8.653.2 Field Documentation

8.653.2.1 loc_BdsSVInfo* pack_loc_Delete_Assist_Data_t::pBdsSVInfo

8.653.2.2 loc_CellDb* pack_loc_Delete_Assist_Data_t::pCellDb

8.653.2.3 loc_ClkInfo* pack_loc_Delete_Assist_Data_t::pClkInfo

8.653.2.4 loc_GnssData* pack_loc_Delete_Assist_Data_t::pGnssData

8.653.2.5 loc_SVInfo* pack_loc_Delete_Assist_Data_t::pSVInfo

8.653.2.6 uint16_t pack_loc_Delete_Assist_Data_t::Tlvresult

8.654 pack_loc_EventRegister_t Struct Reference

Data Fields

- uint64_t eventRegister
- uint16_t Tlvresult

8.654.1 Detailed Description

This structure contains the Parameter for RegisterEvents

Parameters

eventRegister	• Specifies the events that the control point is interested in receiving. -Values – 0x00000001 - to receive position report event indications – 0x00000002 - to receive satellite report event indications.These reports are sent at a 1 Hz rate. – 0x00000004 - to receive NMEA reports for position and satellites in view.The report is at a 1 Hz rate. – 0x00000008 - to receive NI Notify/Verify request event indications – 0x00000010 - to receive time injection request event indications. – 0x00000020 - to receive predicted orbits request event indications. – 0x00000040 - to receive position injection request event indications. – 0x00000080 - to receive engine state report event indications. – 0x00000100 - to receive fix session status report event indications. – 0x00000200 - to receive Wi-Fi position request event indications. – 0x00000400 - to receive notifications from the location engine indicating its readiness to accept data from the sensors(accelerometer, gyroscope, etc.). – 0x00000800 - to receive time sync requests from the GPS engine. Time sync enables the GPS engine to synchronize its clock with the sensor processor's clock. – 0x00001000 - to receive Stationary Position Indicator (SPI) streaming report indications. – 0x00002000 - to receive location server requests. These requests are generated when the service wishes to establish a connection with a location server. – 0x00004000 - to receive notifications related to network-initiated Geofences. These events notify the client when a network-initiated Geofence is added, deleted, or edited. – 0x00008000 - to receive Geofence alerts. These alerts are generated to inform the client of the changes that may affect a Geofence, e.g., if GPS is turned off or if the network is unavailable. – 0x00010000 - to receive notifications when a Geofence is breached. These events are generated when a UE enters or leaves the perimeter of a Geofence. This breach report is for a single Geofence. – 0x00020000 - to register for pedometer control requests from the location engine. The location engine sends this event to control the injection of pedometer reports. – 0x00040000 - to register for motion data control requests from the location engine. The location engine sends this event to control the injection of motion data. – 0x00080000 - to receive notification when a batch is full. The location engine sends this event to notify of Batch Full for ongoing batching session. – 0x00100000 - to receive position report indications along with an ongoing batching session. The location engine sends this event to notify the batched position report while a batching session is ongoing. – 0x00200000 - to receive Wi-Fi Access Point (AP) data inject request event indications. – 0x00400000 - to receive notifications when a Geofence is breached. These events are generated when a UE enters or leaves the perimeter of a Geofence. This breach notification is for multiple Geofences. Breaches from multiple Geofences are all batched and sent in the same notification. – 0x00800000 - to receive notifications from the location engine indicating its readiness to accept vehicle data (vehicle accelerometer, vehicle angular rate, vehicle odometry, etc.). – 0x01000000 - to receive system clock and satellite measurement report events (system clock, SV time, Doppler, etc.). – 0x02000000 - to receive satellite position reports as polynomials.Reports are generated only for the GNSS satellite constellations that are enabled using QMI_LOC_SET_GNSS_-CONSTELL_REPORT_CONFIG.

Note

Multiple events can be registered by OR the individual masks and sending them in this TLV. All unused bits in this mask must be set to 0.

Parameters

Tlvresult	• Pack result.

8.654.2 Field Documentation

8.654.2.1 uint64_t pack_loc_EventRegister_t::eventRegister

8.654.2.2 uint16_t pack_loc_EventRegister_t::Tlvresult

8.655 pack_loc_SetExtPowerState_t Struct Reference

Data Fields

- uint32_t extPowerState
- uint16_t Tlvresult

8.655.1 Detailed Description

This structure contains the Parameter External Power Source State pack.

Parameters

extPowerState	• Specifies the Power state; injected by the control point. • Values – 0 - Device is not connected to an external power source – 1 - Device is connected to an external power source – 2 - Unknown external power state
Tlvresult	• Pack result.

8.655.2 Field Documentation

8.655.2.1 uint32_t pack_loc_SetExtPowerState_t::extPowerState

8.655.2.2 uint16_t pack_loc_SetExtPowerState_t::Tlvresult

8.656 pack_loc_SetOperationMode_t Struct Reference

Data Fields

- uint32_t mode
- uint16_t Tlvresult

8.656.1 Detailed Description

This structure contains Set Operation Mode pack

Parameters

mode	• Valid values: – eQMI_LOC_OPER_MODE_DEFAULT (1) - Use the default engine mode – eQMI_LOC_OPER_MODE_MSB (2) - Use the MS-based mode – eQMI_LOC_OPER_MODE_MSA (3) - Use the MS-assisted mode – eQMI_LOC_OPER_MODE_STANDALONE (4) - Use Standalone mode – eQMI_LOC_OPER_MODE_CELL_ID (5) - Use cell ID; this mode is only valid for GSM/UMTS networks – eQMI_LOC_OPER_MODE_WWAN (6) - Use WWAN measurements to calculate the position; if this mode is set, AFLT will be used for 1X networks and OTDOA will be used for LTE networks
Tlvresult	• Pack result.

8.656.2 Field Documentation

8.656.2.1 uint32_t pack_loc_SetOperationMode_t::mode

8.656.2.2 uint16_t pack_loc_SetOperationMode_t::Tlvresult

8.657 pack_loc_SLQSLOCGetBestAvailPos_t Struct Reference

Data Fields

- uint32_t xid
- uint16_t Tlvresult

8.657.1 Detailed Description

This structure contains Set Operation Mode pack

Parameters

xid	• Identifies the transaction. • The transaction ID is returned in the Get Best Available Position indication.
Tlvresult	• Pack result.

8.657.2 Field Documentation

8.657.2.1 uint16_t pack_loc_SLQSLOCGetBestAvailPos_t::Tlvresult

8.657.2.2 uint32_t pack_loc_SLQSLOCGetBestAvailPos_t::xid

8.658 pack_loc_SLQSLOCGetServer_t Struct Reference

Data Fields

- uint32_t serverType
- int has_serverAddrTypeMask
- uint8_t serverAddrTypeMask

8.658.1 Detailed Description

This structure contains parameters to Gets the location server. Please check has_<Param_Name> field for presence of optional parameters

Parameters

serverType	• Type of server. • Valid values – eQMI_LOC_SERVER_TYPE_CDMA_PDE (1) - Server type is CDMA PDE – eQMI_LOC_SERVER_TYPE_CDMA_MPC (2) - Server type is CDMA MPC – eQMI_LOC_SERVER_TYPE_UMTS_SLP (3) - Server type is UMTS SLP – eQMI_LOC_SERVER_TYPE_CUSTOM_PDE (4)- Server type is custom PDE
serverAddrTypeMask	• Optional parameter • Type of address the client wants. If unspecified, the indication will contain all the types of addresses it has for the specified server type. • Valid bitmasks – 0x01 - IPv4 – 0x02 - IPv6 – 0x04 - URL

8.658.2 Field Documentation

8.658.2.1 int pack_loc_SLQSLOCGetServer_t::has_serverAddrTypeMask

8.658.2.2 uint8_t pack_loc_SLQSLOCGetServer_t::serverAddrTypeMask

8.658.2.3 uint32_t pack_loc_SLQSLOCGetServer_t::serverType

8.659 pack_loc_SLQSLOCInjectPosition_t Struct Reference

Data Fields

- double latitude
- int has_latitude
- double longitude
- int has_longitude
- float horUncCircular

- int has_horUncCircular
- uint8_t horConfidence
- int has_horConfidence
- uint32_t horReliability
- int has_horReliability
- float altitudeWrtEllipsoid
- int has_altitudeWrtEllipsoid
- float altitudeWrtMeanSeaLevel
- int has_altitudeWrtMeanSeaLevel
- float vertUnc
- int has_vertUnc
- uint8_t vertConfidence
- int has_vertConfidence
- uint32_t vertReliability
- int has_vertRelicability
- altSrcInfo_t altitudeSrcInfo
- int has_altitudeSrcInfo
- uint64_t timestampUtc
- int has_timestampUtc
- uint32_t timestampAge
- int has_timestampAge
- uint32_t positionSrc
- int has_positionSrc
- float rawHorUncCircular
- int has_rawHorUncCircular
- uint8_t rawHorConfidence
- int has_rawHorConfidence

8.659.1 Detailed Description

This structure contains LOC Inject Position parameters Please check has_<Param_Name> field for presence of optional parameters

Parameters

latitude	• Optional parameter • Type - Floating point • Units - Degrees • Range - -90.0 to 90.0 • Positive values indicate northern latitude • Negative values indicate southern latitude • Note - This field must be specified together with pLongitude and pHorUncCircular.
longitude	• Optional parameter • Type - Floating point • Units - Degrees • Range - -180.0 to 180.0 • Positive values indicate eastern latitude • Negative values indicate western latitude • Note - This field must be specified together with pLatitude and pHorUncCircular.

horUncCircular	• Optional parameter • Horizontal position uncertainty. • Units - Meters • Note - This field must be specified together with pLatitude and pLongitude.

horConfidence	• Optional parameter
	• Horizontal confidence.
	• Units - Percent
	• Values
	  – Valid Values - 1 to 99
	  – Invalid Values - 0, 101 to 255
	  – If 100 is received, reinterpret to 99
	• Note - This field must be specified together with horizontal uncertainty. If not specified when pHorUncCircular is set, the default value is 50.

horReliability	• Optional parameter
	  – Values
	  * 0 - Location reliability is not set.
	  * 1 - Location reliability is very low; use it at your own risk
	  * 2 - Location reliability is low; little or no cross-checking is possible.
	  * 3 - Location reliability is medium; limited cross-check passed
	  * 4 - Location reliability is high; strong cross-check passed

altitudeWrt-Ellipsoid	• Optional parameter
	• Altitude With Respect to Ellipsoid.
	• Units - Meters
	• Values
	  – Positive - height
	  – Negative = depth

altitudeWrt-MeanSeaLevel	• Optional parameter • Altitude With Respect to Sea Level. • Units - Meters
vertUnc	• Optional parameter • Vertical uncertainty. • Units - Meters • Note - This is mandatory if either pAltitudeWrtEllipsoid or pAltitudeWrtMeanSeaLevel is specified.

vertConfidence	• Optional parameter
	• Vertical confidence.
	• Units - Percentage
	• Values
	  – Valid Values - 0 to 99
	  – Invalid Values - 0, 100-256
	  – If 100 is received, reinterpret to 99
	• Note - This field must be specified together with the vertical uncertainty. If not specified, the default value will be 50.

vertReliability	• Optional parameter
	  – Values
	  * 0 - Location reliability is not set.
	  * 1 - Location reliability is very low; use it at your own risk.
	  * 2 - Location reliability is low; little or no cross-checking is possible
	  * 3 - Location reliability is medium; limited cross-check passed
	  * 4 - Location reliability is high; strong cross-check passed

altitudeSrcInfo	• Optional parameter – Pointer to struct altitudeSrcInfo. See altitudeSrcInfo for more information
timestampUtc	• Optional parameter • UTC timestamp • Units - Milliseconds since Jan. 1, 1970
timestampAge	• Optional parameter • Position age, which is an estimate of how long ago this fix was made. • Units - Milliseconds

positionSrc	• Optional parameter
	• Source from which this position was obtained
	• Valid values
	  – 0 - Position source is GNSS
	  – 1 - Position source is Cell ID
	  – 2 - Position source is Enhanced Cell ID
	  – 3 - Position source is Wi-Fi
	  – 4 - Position source is Terrestrial
	  – 5 - Position source is GNSS Terrestrial Hybrid
	  – 6 - Other sources
	• Note - If altitude is specified and the altitude source is not specified, the engine assumes that the altitude was obtained using the specified position source.
	  – If both altitude and altitude source are specified, the engine assumes that only latitude and longitude were obtained using the specified position source.

rawHorUncCircular	• Optional parameter • Horizontal position uncertainty (circular) without any optimization. • Units - Meters
rawHorConfidence	• Optional parameter • Horizontal confidence associated with raw horizontal uncertainty • Units: Percent • Values – Valid values - 1 to 99 – Invalid values - 0, 101 to 255 – If 100 is received, reinterpret to 99 • Note - This field must be specified together with raw horizontal uncertainty. If not specified when rawHorUncCircular is set, the default value is 50.

8.659.2 Field Documentation

8.659.2.1 altSrcInfo_t pack_loc_SLQSLOCInjectPosition_t::altitudeSrcInfo

8.659.2.2 float pack_loc_SLQSLOCInjectPosition_t::altitudeWrtEllipsoid

8.659.2.3 float pack_loc_SLQSLOCInjectPosition_t::altitudeWrtMeanSeaLevel

8.659.2.4 int pack_loc_SLQSLOCInjectPosition_t::has_altitudeSrcInfo

8.659.2.5 int pack_loc_SLQSLOCInjectPosition_t::has_altitudeWrtEllipsoid

8.659.2.6 int pack_loc_SLQSLOCInjectPosition_t::has_altitudeWrtMeanSeaLevel

8.659.2.7 int pack_loc_SLQSLOCInjectPosition_t::has_horConfidence

8.659.2.8 int pack_loc_SLQSLOCInjectPosition_t::has_horReliability

8.659.2.9 int pack_loc_SLQSLOCInjectPosition_t::has_horUncCircular

8.659.2.10 int pack_loc_SLQSLOCInjectPosition_t::has_latitude

8.659.2.11 int pack_loc_SLQSLOCInjectPosition_t::has_longitude

8.659.2.12 int pack_loc_SLQSLOCInjectPosition_t::has_positionSrc

8.659.2.13 int pack_loc_SLQSLOCInjectPosition_t::has_rawHorConfidence

8.659.2.14 int pack_loc_SLQSLOCInjectPosition_t::has_rawHorUncCircular

8.659.2.15 int pack_loc_SLQSLOCInjectPosition_t::has_timestampAge

8.659.2.16 int pack_loc_SLQSLOCInjectPosition_t::has_timestampUtc

8.659.2.17 int pack_loc_SLQSLOCInjectPosition_t::has_vertConfidence

8.659.2.18 int pack_loc_SLQSLOCInjectPosition_t::has_vertRelicability

8.659.2.19 int pack_loc_SLQSLOCInjectPosition_t::has_vertUnc

8.659.2.20 uint8_t pack_loc_SLQSLOCInjectPosition_t::horConfidence

8.659.2.21 uint32_t pack_loc_SLQSLOCInjectPosition_t::horReliability

8.659.2.22 float pack_loc_SLQSLOCInjectPosition_t::horUncCircular

8.659.2.23 double pack_loc_SLQSLOCInjectPosition_t::latitude

8.659.2.24 double pack_loc_SLQSLOCInjectPosition_t::longitude

8.659.2.25 uint32_t pack_loc_SLQSLOCInjectPosition_t::positionSrc

8.659.2.26 uint8_t pack_loc_SLQSLOCInjectPosition_t::rawHorConfidence

8.659.2.27 float pack_loc_SLQSLOCInjectPosition_t::rawHorUncCircular

8.659.2.28 uint32_t pack_loc_SLQSLOCInjectPosition_t::timestampAge

8.659.2.29 uint64_t pack_loc_SLQSLOCInjectPosition_t::timestampUtc

8.659.2.30 uint8_t pack_loc_SLQSLOCInjectPosition_t::vertConfidence

8.659.2.31 uint32_t pack_loc_SLQSLOCInjectPosition_t::vertReliability

8.659.2.32 float pack_loc_SLQSLOCInjectPosition_t::vertUnc

8.660 pack_loc_SLQSLOCInjectSensorData_t Struct Reference

Data Fields

- int has_opaqueId
- uint32_t opaqueId
- int has_accleroData
- sensorData_t acceleroData
- int has_gyroData
- sensorData_t gyroData
- int has_acceleroTimeSrc
- uint32_t acceleroTimeSrc
- int has_gyroTimeSrc
- uint32_t gyroTimeSrc
- int has_accelTemp
- tempData_t accelTemp
- int has_gyroTemp
- tempData_t gyroTemp

8.660.1 Detailed Description

This structure contains parameters to inject sensor data into the GNSS location engine Please check has_<Param-_Name> field for presence of optional parameters

Parameters

opaqueId	• Opaque Identifier (Optional parameter) • An opaque identifier that is sent in by the client that will be echoed in the indication so the client can relate the indication to the request.
acceleroData	• 3-Axis Accelerometer Data (Optional parameter) • Pointer to struct sensorData. See sensorData_t for more information
gyroData	• 3-Axis Cyroscope Data (Optional parameter) • Pointer to struct sensorData. See sensorData_t for more information
acceleroTimeSrc	• 3-Axis Accelerometer Data Time Source (Optional parameter) • The location service uses this field to identify the time reference used in the accelerometer data time stamps. • If not specified, the location service assumes that the time source for the accelerometer data is unknown. • Valid values – 0 - Sensor time source is unspecified – 1 - Time source is common between the sensors and the location engine
gyroTimeSrc	• 3-Axis Gyroscope Data Time Source (Optional) • The location service uses this field to identify the time reference used in the gyroscope data time stamps. • If not specified, the location service assumes that the time source for the gyroscope data is unknown. • Valid values – 0 - Sensor time source is unspecified – 1 - Time source is common between the sensors and the location engine
accelTemp	• Accelerometer Temperature Data (Optional parameter) • Pointer to struct temprature Data. See tempData_t for more information
gyroTemp	• Gyroscope Temperature Data (Optional parameter) • Pointer to struct temprature Data. See tempData_t for more information

8.660.2 Field Documentation

8.660.2.1 sensorData_t pack_loc_SLQSLOCInjectSensorData_t::acceleroData

8.660.2.2 uint32_t pack_loc_SLQSLOCInjectSensorData_t::acceleroTimeSrc

8.660.2.3 tempData_t pack_loc_SLQSLOCInjectSensorData_t::accelTemp

8.660.2.4 sensorData_t pack_loc_SLQSLOCInjectSensorData_t::gyroData

8.660.2.5 tempData_t pack_loc_SLQSLOCInjectSensorData_t::gyroTemp

8.660.2.6 uint32_t pack_loc_SLQSLOCInjectSensorData_t::gyroTimeSrc

8.660.2.7 int pack_loc_SLQSLOCInjectSensorData_t::has_acceleroTimeSrc

8.660.2.8 int pack_loc_SLQSLOCInjectSensorData_t::has_accelTemp

8.660.2.9 int pack_loc_SLQSLOCInjectSensorData_t::has_accleroData

8.660.2.10 int pack_loc_SLQSLOCInjectSensorData_t::has_gyroData

8.660.2.11 int pack_loc_SLQSLOCInjectSensorData_t::has_gyroTemp

8.660.2.12 int pack_loc_SLQSLOCInjectSensorData_t::has_gyroTimeSrc

8.660.2.13 int pack_loc_SLQSLOCInjectSensorData_t::has_opaqueId

8.660.2.14 uint32_t pack_loc_SLQSLOCInjectSensorData_t::opaqueId

8.661 pack_loc_SLQSLOCInjectUTCTime_t Struct Reference

Data Fields

- uint64_t timeMsec
- uint32_t timeUncMsec

8.661.1 Detailed Description

This structure contains inject UTC time parameter.

Parameters

timeMsec	• The UTC time since Jan. 1, 1970
timeUncMsec	• The time Uncertainty

8.661.2 Field Documentation

8.661.2.1 uint64_t pack_loc_SLQSLOCInjectUTCTime_t::timeMsec

8.661.2.2 uint32_t pack_loc_SLQSLOCInjectUTCTime_t::timeUncMsec

8.662 pack_loc_SLQSLOCSetCradleMountConfig_t Struct Reference

Data Fields

- uint32_t state
- int has_confidence
- uint8_t confidence

8.662.1 Detailed Description

This structure contains parameters to set current cradle mount configuration Please check has_<Param_Name> field for presence of optional parameters

Parameters

state	• Cradle Mount State • Valid values: – 0 - Device is mounted on the cradle – 1 - Device is not mounted on the cradle – 2 - Unknown cradle mount state
confidence	• Cradle Mount Confidence (Optional) • Confidence in the Cradle Mount state expressed as a percentage. • Range - 0 to 100

8.662.2 Field Documentation

8.662.2.1 uint8_t pack_loc_SLQSLOCSetCradleMountConfig_t::confidence

8.662.2.2 int pack_loc_SLQSLOCSetCradleMountConfig_t::has_confidence

8.662.2.3 uint32_t pack_loc_SLQSLOCSetCradleMountConfig_t::state

8.663 pack_loc_SLQSLOCSetServer_t Struct Reference

Data Fields

- uint32_t serverType
- loc_IPv4Config * pIPv4Config
- loc_IPv6Config * pIPv6Config
- loc_URLAddrInfo * pURLAddr

8.663.1 Detailed Description

This structure contains parameters to set A-GPS Server

Parameters

serverType	• Type of server • Valid values: – 1 - Server type is CDMA PDE – 2 - Server type is CDMA MPC – 3 - Server type is UMTS SLP – 4 - Server type is custom PDE

pIPv4Config	• IPv4 address and port (Optional) • See loc_IPv4Config for more information
pIPv6Config	• IPv6 address and port (Optional) • See loc_IPv6Config for more information
pURLAddr	• Uniform Resource Locator (Optional) • See loc_URLAddrInfo for more information

8.663.2 Field Documentation

8.663.2.1 loc_IPv4Config* pack_loc_SLQSLOCSetServer_t::pIPv4Config

8.663.2.2 loc_IPv6Config* pack_loc_SLQSLOCSetServer_t::pIPv6Config

8.663.2.3 loc_URLAddrInfo* pack_loc_SLQSLOCSetServer_t::pURLAddr

8.663.2.4 uint32_t pack_loc_SLQSLOCSetServer_t::serverType

8.664 pack_loc_Start_t Struct Reference

Data Fields

- uint8_t SessionId
- uint32_t * pRecurrenceType
- uint32_t * pHorizontalAccuracyLvl
- uint32_t * pIntermediateReportState
- uint32_t * pMinIntervalTime
- loc_LocApplicationInfo * pApplicationInfo
- uint32_t * pConfigAltitudeAssumed
- uint16_t Tlvresult

8.664.1 Detailed Description

This structure contains the LOC Start pack

Parameters

SessionId	• ID of the session as identified by the control point. • Range: 0 to 255
pRecurrence-Type	• Optional Parameter • Specifies the type of session in which the control point is interested. • Defaults to SINGLE. -Values – 1 - Request periodic position fixes – 2 - Request a single position fix

pHorizontal-AccuracyLvl	• Optional Parameter • Specifies the horizontal accuracy level required by the control point. • Defaults to LOW • Values – 1 - Low accuracy – 2 - Medium accuracy – 3 - High accuracy
pIntermediate-ReportState	• Optional Parameter • Specifies if the control point is interested in receiving intermediate reports. • ON by default. • Values – 1 - Intermediate reports are turned on – 2 - Intermediate reports are turned off
pMinInterval-Time	• Optional Parameter • Minimum time interval, specified by the control point, that must elapse between position reports. • Units - Milliseconds • Default - 1000 ms
LocApplication-Info	• Optional Parameter • LOC Application Parameters • See loc_LocApplicationInfo for more information
pConfigAltitude-Assumed	• Optional Parameter • Configuration for Altitude Assumed Info in GNSS SV Info Event • Defaults to ENABLED. • Values – 1 - Enable Altitude Assumed information in GNSS SV Info Event – 2 - Disable Altitude Assumed information in GNSS SV Info Event
TIvresult	• Unpack result.

8.664.2 Field Documentation

8.664.2.1 loc_LocApplicationInfo* pack_loc_Start_t::pApplicationInfo

8.664.2.2 uint32_t* pack_loc_Start_t::pConfigAltitudeAssumed

8.664.2.3 uint32_t* pack_loc_Start_t::pHorizontalAccuracyLvl

8.664.2.4 uint32_t* pack_loc_Start_t::pIntermediateReportState

8.664.2.5 uint32_t* pack_loc_Start_t::pMinIntervalTime

8.664.2.6 uint32_t* pack_loc_Start_t::pRecurrenceType

8.664.2.7 uint8_t pack_loc_Start_t::SessionId

8.664.2.8 uint16_t pack_loc_Start_t::Tlvresult

8.665 pack_loc_Stop_t Struct Reference

Data Fields

- uint8_t SessionId
- uint16_t Tlvresult

8.665.1 Detailed Description

This structure contains Stop LOC pack

Parameters

sessionId	• ID of the session as identified by the control point. • Range: 0 to 255
Tlvresult	• Unpack result.

8.665.2 Field Documentation

8.665.2.1 uint8_t pack_loc_Stop_t::SessionId

8.665.2.2 uint16_t pack_loc_Stop_t::Tlvresult

8.666 pack_nas_InitiateDomainAttach_t Struct Reference

Data Fields

- uint32_t action

8.666.1 Detailed Description

Pack structure for Initiates a domain attach/detach of the device.

Parameters

action	• Domain action to attempt 1 - Attach 2 - Detach

8.666.2 Field Documentation

8.666.2.1 uint32_t pack_nas_InitiateDomainAttach_t::action

8.667 pack_nas_SetACCOLC_t Struct Reference

Data Fields

- int8_t spc [6]
- uint8_t accolc

8.667.1 Detailed Description

Sets the access overload class (ACCOLC)

Parameters

spc	• service programming code NULL-terminated string of six digit
accolc	• ACCOLC : Valid range is 0 to 15

8.667.2 Field Documentation

8.667.2.1 uint8_t pack_nas_SetACCOLC_t::accolc

8.667.2.2 int8_t pack_nas_SetACCOLC_t::spc[6]

8.668 pack_nas_SetCDMANetworkParameters_t Struct Reference

Data Fields

- char * pSPC
- uint8_t * pForceRev0
- uint8_t * pCustomSCP
- uint32_t * pProtocol
- uint32_t * pBroadcast
- uint32_t * pApplication
- uint32_t * pRoaming

8.668.1 Detailed Description

Pack structure to set CDMA Network parameters.

Parameters

pSPC	• Six digit service programming code (not necessary when only the roaming field is being set)
pForceRev0	• (Optional)Force CDMA 1x-EV-DO Rev. 0 mode – 0 - Disabled – 1 - Enabled Note: Enabled can only be specified if pCustomSCP state is set to Disabled

pCustomSCP	• (Optional)Use a custom config for CDMA 1x-EV-DO SCP – 0 - Disabled – 1 - Enabled Note: Enabled can only be specified if pForceRev0 is set to Disabled
pProtocol	• Protocol mask for custom SCP config – 0x00000001 - Subtype 2 Physical Layer – 0x00000002 - Enhanced CCMAC – 0x00000004 - Enhanced ACMAC – 0x00000008 - Enhanced FTCMAC – 0x00000010 - Subtype 3 RTCMAC – 0x00000020 - Subsystem 1 RTCMAC – 0x00000040 - Enhanced Idle – 0x00000080 - Generic Multimode Capable Disc Port – 0xFFFFFFFF - Unknown
pBroadcast	• Broadcast mask for custom SCP config – 0x00000001 - Generic broadcast enabled – 0xFFFFFFFF - Unknown
pApplication	• Application mask for custom SCP config – 0x00000001 - SN Multiflow Packet Application – 0x00000002 - SN Enhanced Multiflow Packet Application – 0xFFFFFFFF - Unknown
pRoaming	• Roaming preference – 0 - Automatic – 1 - Home Only – 2 - Affiliated Roaming Only – 3 - Home and Affiliated Roaming – 0xFFFFFFFF - Unknown

8.668.2 Field Documentation

8.668.2.1 uint32_t* pack_nas_SetCDMANetworkParameters_t::pApplication

8.668.2.2 uint32_t* pack_nas_SetCDMANetworkParameters_t::pBroadcast

8.668.2.3 uint8_t* pack_nas_SetCDMANetworkParameters_t::pCustomSCP

8.668.2.4 uint8_t* pack_nas_SetCDMANetworkParameters_t::pForceRev0

8.668.2.5 uint32_t* pack_nas_SetCDMANetworkParameters_t::pProtocol

8.668.2.6 uint32_t* pack_nas_SetCDMANetworkParameters_t::pRoaming

8.668.2.7 char* pack_nas_SetCDMANetworkParameters_t::pSPC

8.669 pack_nas_SetNetworkPreference_t Struct Reference

Data Fields

- uint32_t TechnologyPref
- uint32_t Duration
- uint16_t Tlvresult

8.669.1 Detailed Description

This structure contains pack set network preference parameters.

Parameters

TechnologyPref[-IN]	• Bitmask representing the radio technology preference set. • No bits set indicates to the device to automatically determine the technology to use • Values: – Bit 0 - Technology is 3GPP2 – Bit 1 - Technology is 3GPP • Any combination of the following may be returned: – Bit 2 - Analog - AMPS if 3GPP2, GSM if 3GPP – Bit 3 - Digital - CDMA if 3GPP2, WCDMA if 3GPP – Bit 4 - HDR – Bit 5 - LTE – Bits 6 to 15 - Reserved
Duration[IN]	• Duration of active preference – 0 - Permanent – 1 - Power cycle – 2 - Until the end of the next call or a power cycle – 3 - Until the end of the next call, a specified time, or a power cycle – 4 to 6 - Until the end of the next call
Tlvresult	• pack result

8.669.2 Field Documentation

8.669.2.1 uint32_t pack_nas_SetNetworkPreference_t::Duration

8.669.2.2 uint32_t pack_nas_SetNetworkPreference_t::TechnologyPref

8.669.2.3 uint16_t pack_nas_SetNetworkPreference_t::Tlvresult

8.670 pack_nas_SLQSConfigSigInfo_t Struct Reference

Data Fields

- nas_RSSIThresh * pRSSIThresh
- nas_ECIOThresh * pECIOThresh
- nas_HDRSINRThresh * pHDRSINRThresh
- nas_LTESNRThresh * pLTESNRThresh
- nas_IOThresh * pIOThresh
- nas_RSRQThresh * pRSRQThresh
- nas_RSRPThresh * pRSRPThresh
- nas_LTESigRptCfg * pLTESigRptCfg
- nas_TDSCDMASINRCONFThresh * pTDSCDMASINRCONFThresh

8.670.1 Detailed Description

Structure for ConfigSigInfo pack.

Parameters

pRSSIThresh	• RSSI threshold List • See nas_RSSIThresh for more details
pECIOThresh	• ECIO Threshold List • See nas_ECIOThresh for more details
pHDRSINR-Thresh	• HDR SINR Threshold List • See nas_HDRSINRThresh for more details
pLTESNR-Thresh	• LTE SNR Threshold List • See nas_LTESNRThresh for more details
pIOThresh	• IO Threshold List • See nas_IOThresh for more details
pRSRQThresh	• RSRQ Threshold List • See nas_RSRQThresh for more details
pRSRPThresh	• RSRP Threshold List • See nas_RSRPThresh for more details
pLTESigRptCfg	• LTE signal report config • See nas_LTESigRptCfg for more details
pTDSCDMASIN-RCONFThresh	• TD-SCDMA SINR Threshold List • See nas_TDSCDMASINRCONFThresh for more details

8.670.2 Field Documentation

8.670.2.1 nas_ECIOThresh∗ pack_nas_SLQSConfigSigInfo_t::pECIOThresh

8.670.2.2 nas_HDRSINRThresh∗ pack_nas_SLQSConfigSigInfo_t::pHDRSINRThresh

8.670.2.3 nas_IOThresh∗ pack_nas_SLQSConfigSigInfo_t::pIOThresh

8.670.2.4 nas_LTESigRptCfg∗ pack_nas_SLQSConfigSigInfo_t::pLTESigRptCfg

8.670.2.5 nas_LTESNRThresh∗ pack_nas_SLQSConfigSigInfo_t::pLTESNRThresh

8.670.2.6 nas_RSRPThresh∗ pack_nas_SLQSConfigSigInfo_t::pRSRPThresh

8.670.2.7 nas_RSRQThresh∗ pack_nas_SLQSConfigSigInfo_t::pRSRQThresh

8.670.2.8 nas_RSSIThresh∗ pack_nas_SLQSConfigSigInfo_t::pRSSIThresh

8.670.2.9 nas_TDSCDMASINRCONFThresh∗ pack_nas_SLQSConfigSigInfo_t::pTDSCDMASINRCONFThresh

8.671 pack_nas_SLQSGetPLMNName_t Struct Reference

Data Fields

- uint16_t mcc
- uint16_t mnc
- uint8_t ∗ pMncPcsStatus

8.671.1 Detailed Description

This structure contains pack get operator name for specificed network parameters.

Parameters

mcc	• A 16-bit integer representation of MCC. Range: 0 to 999
mnc	• A 16-bit integer representation of MNC. Range: 0 to 999
pMncPcsStatus	• MNC PCS Digit Include Status • Used to interpret the length of the corresponding MNC reported in the PLMN TLV(0x01). • Values – TRUE - MNC is a three-digit value. e.g. a reported value of 90 corresponds to an MNC value of 090 – FALSE - MNC is a two-digit value. e.g. a reported value of 90 corresponds to an MNC value of 90

Note

If pMncPcsStatus is not present, an MNC smaller than 100 is assumed to be a two-digit value, and an MNC greater than or equal to 100 is assumed to be a three digit value.

8.671.2 Field Documentation

8.671.2.1 uint16_t pack_nas_SLQSGetPLMNName_t::mcc

8.671.2.2 uint16_t pack_nas_SLQSGetPLMNName_t::mnc

8.671.2.3 uint8_t∗ pack_nas_SLQSGetPLMNName_t::pMncPcsStatus

8.672 pack_nas_SLQSInitiateNetworkRegistration_t Struct Reference

Data Fields

- uint32_t regAction
- nas_MNRInfo ∗ pMNRInfo
- uint32_t ∗ pChangeDuration
- uint8_t ∗ pMncPcsDigitStatus

8.672.1 Detailed Description

This structure contains Initiate Network Registration request parameters

Parameters

regAction	• Specifies one of the following register actions : – AUTO_REGISTER - Device registers according to its provisioning and optional parameters supplied with the command are ignored. – MANUAL_REGISTER - Device registers to a specified network and the optional Manual Network Register Information parameter pMNRInfo must also be included for the command to process successfully and supported only for 3GPP.
pMNRInfo	[Optional] • Pointer to structure MNRInfo – See nas_MNRInfo for more information
pChange-Duration	[Optional] • Duration of the change. – 0x00 - Power cycle - Remains active until the next device power cycle – 0x01 - Permanent - Remains active through power cycles until changed by the client
pMncPcsDigit-Status	[Optional] • MNC PCS Digit Include Status – True - MNC is a 3-digit value. – False - MNC is a 2-digit value.

8.672.2 Field Documentation

8.672.2.1 uint32_t∗ pack_nas_SLQSInitiateNetworkRegistration_t::pChangeDuration

8.672.2.2 uint8_t∗ pack_nas_SLQSInitiateNetworkRegistration_t::pMncPcsDigitStatus

8.672.2.3 nas_MNRInfo* pack_nas_SLQSInitiateNetworkRegistration_t::pMNRInfo

8.672.2.4 uint32_t pack_nas_SLQSInitiateNetworkRegistration_t::regAction

8.673 pack_nas_SLQSNasConfigSigInfo2_t Struct Reference

Data Fields

- nas_CDMARSSIThresh * pCDMARSSIThresh
- uint16_t * pCDMARSSIDelta
- nas_CDMAECIOThresh * pCDMAECIOThresh
- uint16_t * pCDMAECIODelta
- nas_HDRRSSIThresh * pHDRRSSIThresh
- uint16_t * pHDRRSSIDelta
- nas_HDRECIOThresh * pHDRECIOThresh
- uint16_t * pHDRECIODelta
- nas_HDRSINRThreshold * pHDRSINRThresh
- uint16_t * pHDRSINRDelta
- nas_HDRIOThresh * pHDRIOThresh
- uint16_t * pHDRIODelta
- nas_GSMRSSIThresh * pGSMRSSIThresh
- uint16_t * pGSMRSSIDelta
- nas_WCDMARSSIThresh * pWCDMARSSIThresh
- uint16_t * pWCDMARSSIDelta
- nas_WCDMAECIOThresh * pWCDMAECIOThresh
- uint16_t * pWCDMAECIODelta
- nas_LTERSSIThresh * pLTERSSIThresh
- uint16_t * pLTERSSIDelta
- nas_LTESNRThreshold * pLTESNRThresh
- uint16_t * pLTESNRDelta
- nas_LTERSRQThresh * pLTERSRQThresh
- uint16_t * pLTERSRQDelta
- nas_LTERSRPThresh * pLTERSRPThresh
- uint16_t * pLTERSRPDelta
- nas_LTESigRptConfig * pLTESigRptConfig
- nas_TDSCDMARSCPThresh * pTDSCDMARSCPThresh
- uint16_t * pTDSCDMARSCPDelta
- nas_TDSCDMARSSIThresh * pTDSCDMARSSIThresh
- float * pTDSCDMARSSIDelta
- nas_TDSCDMAECIOThresh * pTDSCDMAECIOThresh
- float * pTDSCDMAECIODelta
- nas_TDSCDMASINRThresh * pTDSCDMASINRThresh
- float * pTDSCDMASINRDelta

8.673.1 Detailed Description

This structure contains pack set the signal strength reporting thresholds parameters.

Parameters

pCDMARSSI-Thresh	• CDMA RSSI threshold List
pCDMARSSI-Delta	• RSSI delta (in units of 0.1 dBm). • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.
pCDMAECIO-Thresh	• CDMA ECIO Threshold List
pCDMAECIO-Delta	• ECIO delta (in units of 0.1 dB). • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.
pHDRRSSI-Thresh	• HDR RSSI Threshold List
pHDRRSSIDelta	• RSSI delta (in units of 0.1 dBm) • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.
pHDRECIO-Thresh	• HDR ECIO Threshold List
pHDRECIODelta	• ECIO delta (in units of 0.1 dB) • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.
pHDRSINR-Thresh	• HDR SINR Threshold List
pHDRSINRDelta	• SINR delta (in units of 1 SINR level) • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.
pHDRIOThresh	• HDR IO Threshold List
pHDRIODelta	• IO delta (in units of 0.1 dBm) • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.
pGSMRSSI-Thresh	• GSM RSSI Threshold List • See nas_GSMRSSIThresh for more details
pGSMRSSIDelta	• RSSI delta (in units of 0.1 dBm) • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.

pWCDMARSSI-Thresh	• WCDMA RSSI Threshold List • See nas_WCDMARSSIThresh for more details
pWCDMARSSI-Delta	• RSSI delta (in units of 0.1 dBm). • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.
pWCDMAECIO-Thresh	• WCDMA ECIO Threshold List
pWCDMAECIO-Delta	• ECIO delta (in units of 0.1 dB) • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.
pLTERSSI-Thresh	• LTE RSSI Threshold List
pLTERSSIDelta	• RSSI delta (in units of 0.1 dBm) • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.
pLTESNR-Thresh	• LTE SNR Threshold List
pLTESNRDelta	• SNR delta (in units of 0.1 dBm) • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.
pLTERSRQ-Thresh	• LTE RSRQ Threshold List
pLTERSRQ-Delta	• RSRQ delta (in units of 0.1 dBm) • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.
pLTERSRP-Thresh	• LTE RSRP Threshold List
pLTERSRPDelta	• RSRP delta (in units of 0.1 dBm). • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.
pLTESigRpt-Config	• LTE Signal Report Config
pTDSCDMARS-CPThresh	• TDSCDMA RSCP Threshold List
pTDSCDMARS-CPDelta	• RSCP delta (in units of 0.1 dBm) • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.

pTDSCDMARSSIThresh	• TDSCDMA RSSI Threshold List
pTDSCDMARSSIDelta	• RSSI delta (in dBm) used by TD-SCDMA.
pTDSCDMAECIOThresh	• TDSCDMA ECIO Threshold List
pTDSCDMAECIODelta	• ECIO delta (in dB) used by TD-SCDMA
pTDSCDMASINRThresh	• TDSCDMA SINR Threshold List
pTDSCDMASINRDelta	• SINR delta (in dB) used by TD-SCDMA.

Note

Mixture of threshold and delta values can be provided in the request. But for each type and RAT,only one of threshold list or delta value is to be provided.

8.673.2 Field Documentation

8.673.2.1 uint16_t* pack_nas_SLQSNasConfigSigInfo2_t::pCDMAECIODelta

8.673.2.2 nas_CDMAECIOThresh* pack_nas_SLQSNasConfigSigInfo2_t::pCDMAECIOThresh

8.673.2.3 uint16_t* pack_nas_SLQSNasConfigSigInfo2_t::pCDMARSSIDelta

8.673.2.4 nas_CDMARSSIThresh* pack_nas_SLQSNasConfigSigInfo2_t::pCDMARSSIThresh

8.673.2.5 uint16_t* pack_nas_SLQSNasConfigSigInfo2_t::pGSMRSSIDelta

8.673.2.6 nas_GSMRSSIThresh* pack_nas_SLQSNasConfigSigInfo2_t::pGSMRSSIThresh

8.673.2.7 uint16_t* pack_nas_SLQSNasConfigSigInfo2_t::pHDRECIODelta

8.673.2.8 nas_HDRECIOThresh* pack_nas_SLQSNasConfigSigInfo2_t::pHDRECIOThresh

8.673.2.9 uint16_t* pack_nas_SLQSNasConfigSigInfo2_t::pHDRIODelta

8.673.2.10 nas_HDRIOThresh* pack_nas_SLQSNasConfigSigInfo2_t::pHDRIOThresh

8.673.2.11 uint16_t* pack_nas_SLQSNasConfigSigInfo2_t::pHDRRSSIDelta

8.673.2.12 nas_HDRRSSIThresh* pack_nas_SLQSNasConfigSigInfo2_t::pHDRRSSIThresh

8.673.2.13 uint16_t* pack_nas_SLQSNasConfigSigInfo2_t::pHDRSINRDelta

8.673.2.14 nas_HDRSINRThreshold* pack_nas_SLQSNasConfigSigInfo2_t::pHDRSINRThresh

8.673.2.15 uint16_t* pack_nas_SLQSNasConfigSigInfo2_t::pLTERSRPDelta

8.673.2.16 nas_LTERSRPThresh* pack_nas_SLQSNasConfigSigInfo2_t::pLTERSRPThresh

8.673.2.17 uint16_t* pack_nas_SLQSNasConfigSigInfo2_t::pLTERSRQDelta

8.673.2.18 nas_LTERSRQThresh* pack_nas_SLQSNasConfigSigInfo2_t::pLTERSRQThresh

8.673.2.19 uint16_t* pack_nas_SLQSNasConfigSigInfo2_t::pLTERSSIDelta

8.673.2.20 nas_LTERSSIThresh* pack_nas_SLQSNasConfigSigInfo2_t::pLTERSSIThresh

8.673.2.21 nas_LTESigRptConfig* pack_nas_SLQSNasConfigSigInfo2_t::pLTESigRptConfig

8.673.2.22 uint16_t* pack_nas_SLQSNasConfigSigInfo2_t::pLTESNRDelta

8.673.2.23 nas_LTESNRThreshold* pack_nas_SLQSNasConfigSigInfo2_t::pLTESNRThresh

8.673.2.24 float* pack_nas_SLQSNasConfigSigInfo2_t::pTDSCDMAECIODelta

8.673.2.25 nas_TDSCDMAECIOThresh* pack_nas_SLQSNasConfigSigInfo2_t::pTDSCDMAECIOThresh

8.673.2.26 uint16_t* pack_nas_SLQSNasConfigSigInfo2_t::pTDSCDMARSCPDelta

8.673.2.27 nas_TDSCDMARSCPThresh* pack_nas_SLQSNasConfigSigInfo2_t::pTDSCDMARSCPThresh

8.673.2.28 float* pack_nas_SLQSNasConfigSigInfo2_t::pTDSCDMARSSIDelta

8.673.2.29 nas_TDSCDMARSSIThresh* pack_nas_SLQSNasConfigSigInfo2_t::pTDSCDMARSSIThresh

8.673.2.30 float* pack_nas_SLQSNasConfigSigInfo2_t::pTDSCDMASINRDelta

8.673.2.31 nas_TDSCDMASINRThresh* pack_nas_SLQSNasConfigSigInfo2_t::pTDSCDMASINRThresh

8.673.2.32 uint16_t* pack_nas_SLQSNasConfigSigInfo2_t::pWCDMAECIODelta

8.673.2.33 nas_WCDMAECIOThresh* pack_nas_SLQSNasConfigSigInfo2_t::pWCDMAECIOThresh

8.673.2.34 uint16_t* pack_nas_SLQSNasConfigSigInfo2_t::pWCDMARSSIDelta

8.673.2.35 nas_WCDMARSSIThresh* pack_nas_SLQSNasConfigSigInfo2_t::pWCDMARSSIThresh

8.674 pack_nas_SLQSNasGet3GPP2Subscription_t Struct Reference

Data Fields

- uint8_t namID

8.674.1 Detailed Description

Structure for 3GPP2 Subscription pack.

Parameters

namID	[Mandatory] • NAM ID of the information to be retrieved. The index starts from 0. A nam_id of 0xFF is used to retrieve information of current NAM.

8.674.2 Field Documentation

8.674.2.1 uint8_t pack_nas_SLQSNasGet3GPP2Subscription_t::namID

8.675 pack_nas_SLQSNasGetTxRxInfo_t Struct Reference

Data Fields

- uint8_t radio_if

8.675.1 Detailed Description

Structure for TxRx Info pack

Parameters

radio_if	[Mandatory] • Radio interface technology of the signal being measured • Valid Values – 0x01 - NAS_RADIO_IF_CDMA_1X - CDMA – 0x02 - NAS_RADIO_IF_CDMA_1XEVDO - HDR – 0x04 - NAS_RADIO_IF_GSM - GSM – 0x05 - NAS_RADIO_IF_UMTS - UMTS – 0x08 - NAS_RADIO_IF_LTE - LTE

8.675.2 Field Documentation

8.675.2.1 uint8_t pack_nas_SLQSNasGetTxRxInfo_t::radio_if

8.676 pack_nas_SLQSNasIndicationRegisterExt_t Struct Reference

Data Fields

- uint8_t * pSystemSelectionInd
- uint8_t * pDDTMInd
- uint8_t * pServingSystemInd
- uint8_t * pDualStandByPrefInd
- uint8_t * pSubscriptionInfoInd
- uint8_t * pNetworkTimeInd
- uint8_t * pSysInfoInd
- uint8_t * pSignalStrengthInd
- uint8_t * pErrorRateInd
- uint8_t * pHDRNewUATIAssInd
- uint8_t * pHDRSessionCloseInd
- uint8_t * pManagedRoamingInd

- uint8_t * pNetworkRejectInd
- uint8_t * pSuppressSysInfoInd
- uint8_t * pLTECphyCa

8.676.1 Detailed Description

This structure contains pack indication register parameters.

Parameters

pSystemSelectionInd	[Optional] • System Selection Preference indication registration. The callbacks would not be invoked if the indication is disabled. – 0x00 - Disable – 0x01 - Enable
pDDTMInd	[Optional] • DDTM (Data Dedicated Transmission Mode) indication registration. The callbacks would not be invoked if the indication is disabled. – 0x00 - Disable – 0x01 - Enable
pServingSystemInd	[Optional] • Serving System indication registration. The callbacks would not be invoked if the indication is disabled. – 0x00 - Disable – 0x01 - Enable
pDualStandByPrefInd	[Optional] • Dual Standby Preference indication registration.The callbacks would not be invoked if the indication is disabled. – 0x00 - Disable – 0x01 - Enable
pSubscriptionInfoInd	[Optional] • Subscription Information indication registration.The callbacks would not be invoked if the indication is disabled. – 0x00 - Disable – 0x01 - Enable
pNetworkTimeInd	[Optional] • Network Time indication registration.The callbacks would not be invoked if the indication is disabled. – 0x00 - Disable – 0x01 - Enable
pSysInfoInd	[Optional] • System Information indication registration.The callbacks would not be invoked if the indication is disabled. – 0x00 - Disable – 0x01 - Enable

pSignalStrength-Ind	[Optional] • Signal Strength indication registration.The callbacks would not be invoked if the indication is disabled. – 0x00 - Disable – 0x01 - Enable
pErrorRateInd	[Optional] • Error Rate indication registration.The callbacks would not be invoked if the indication is disabled. – 0x00 - Disable – 0x01 - Enable
pHDRNewUATI-AssInd	[Optional] • HDR New UATI Assigned indication registration.The callbacks would not be invoked if the indication is disabled. – 0x00 - Disable – 0x01 - Enable
pHDRSession-CloseInd	[Optional] • HDR Session Closed indication registration.The callbacks would not be invoked if the indication is disabled. – 0x00 - Disable – 0x01 - Enable
pManaged-RoamingInd	[Optional] • Managed Roaming indication registration.The callbacks would not be invoked if the indication is disabled. – 0x00 - Disable
pNetworkReject-Ind	[Optional] • Network reject information indication registration.The following callbacks would not be invoked if the indication is disabled. – 0x00 - Disable – 0x01 - Enable
pSuppressSys-InfoInd	[Optional] • Controls the reporting of QMI_NAS_SYS_INFO_IND when only the reject_cause field has changed. Values: – 0x00 - Disable – 0x01 - Enable- 0x01 - Enable
pLTECphyCa	[Optional] • LTE Physical Carrier Aggregation Information.The following callbacks would not be invoked if the indication is disabled. – 0x00 - Disable (default value) – 0x01 - Enable

8.676.2 Field Documentation

8.676.2.1 uint8_t* pack_nas_SLQSNasIndicationRegisterExt_t::pDDTMInd

8.676.2.2 uint8_t* pack_nas_SLQSNasIndicationRegisterExt_t::pDualStandByPrefInd

8.676.2.3 uint8_t* pack_nas_SLQSNasIndicationRegisterExt_t::pErrorRateInd

8.676.2.4 uint8_t* pack_nas_SLQSNasIndicationRegisterExt_t::pHDRNewUATIAssInd

8.676.2.5 uint8_t* pack_nas_SLQSNasIndicationRegisterExt_t::pHDRSessionCloseInd

8.676.2.6 uint8_t* pack_nas_SLQSNasIndicationRegisterExt_t::pLTECphyCa

8.676.2.7 uint8_t* pack_nas_SLQSNasIndicationRegisterExt_t::pManagedRoamingInd

8.676.2.8 uint8_t* pack_nas_SLQSNasIndicationRegisterExt_t::pNetworkRejectInd

8.676.2.9 uint8_t* pack_nas_SLQSNasIndicationRegisterExt_t::pNetworkTimeInd

8.676.2.10 uint8_t* pack_nas_SLQSNasIndicationRegisterExt_t::pServingSystemInd

8.676.2.11 uint8_t* pack_nas_SLQSNasIndicationRegisterExt_t::pSignalStrengthInd

8.676.2.12 uint8_t* pack_nas_SLQSNasIndicationRegisterExt_t::pSubscriptionInfoInd

8.676.2.13 uint8_t* pack_nas_SLQSNasIndicationRegisterExt_t::pSuppressSysInfoInd

8.676.2.14 uint8_t* pack_nas_SLQSNasIndicationRegisterExt_t::pSysInfoInd

8.676.2.15 uint8_t* pack_nas_SLQSNasIndicationRegisterExt_t::pSystemSelectionInd

8.677 pack_nas_SLQSNASSeteDRXParams_t Struct Reference

Data Fields

- uint8_t * pEdrxEnable
- uint8_t * pCycleLen
- uint8_t * pPagingTimeWindow

8.677.1 Detailed Description

This structure contains the SLQSNASSeteDRXParams request parameters.

Parameters

pEdrxEnable	[Optional] • eDRX Enable • Values – 0x00 - Disable – 0x01 - Enable
pCycleLen	[Optional] • eDRX cycle length • Value to be set per 3GPP TS 24.008 Rel-13 Section 10.5.5.32

pPagingTime-Window	[Optional] • eDRX paging time window • Value to be set per 3GPP TS 24.008 Rel-13 Section 10.5.5.32

8.677.2 Field Documentation

8.677.2.1 uint8_t* pack_nas_SLQSNASSeteDRXParams_t::pCycleLen

8.677.2.2 uint8_t* pack_nas_SLQSNASSeteDRXParams_t::pEdrxEnable

8.677.2.3 uint8_t* pack_nas_SLQSNASSeteDRXParams_t::pPagingTimeWindow

8.678 pack_nas_SLQSNasSwiIndicationRegister_t Struct Reference

Data Fields

- uint8_t lteEsmUl
- uint8_t lteEsmDl
- uint8_t lteEmmUl
- uint8_t lteEmmDl
- uint8_t gsmUmtsUl
- uint8_t gsmUmtsDl
- uint8_t * pRankIndicatorInd
- uint8_t * pTimer

8.678.1 Detailed Description

This structure contains the OTA message indication.

Parameters

lteEsmUl	• 0 - do not report • 1 - report LTE ESM uplink messages
lteEsmDl	• 0 - do not report • 1 - report LTE ESM downlink messages
lteEmmUl	• 0 - do not report • 1 - report LTE EMM uplink messages
lteEmmDl	• 0 - do not report • 1 - report GSM/UMTS uplink messages
gsmUmtsUl	• 0 - do not report • 1 - report GSM/UMTS uplink messages

gsmUmtsDl	• 0 - do not report • 1 - report GSM/UMTS downlink messages
pRankIndicator-Ind	• 0 - do not report • 1 - report Rank Indicator messages
pTimer	• 0 - do not report • 1 - report Timer Indicator messages

8.678.2 Field Documentation

8.678.2.1 uint8_t pack_nas_SLQSNasSwiIndicationRegister_t::gsmUmtsDl

8.678.2.2 uint8_t pack_nas_SLQSNasSwiIndicationRegister_t::gsmUmtsUl

8.678.2.3 uint8_t pack_nas_SLQSNasSwiIndicationRegister_t::lteEmmDl

8.678.2.4 uint8_t pack_nas_SLQSNasSwiIndicationRegister_t::lteEmmUl

8.678.2.5 uint8_t pack_nas_SLQSNasSwiIndicationRegister_t::lteEsmDl

8.678.2.6 uint8_t pack_nas_SLQSNasSwiIndicationRegister_t::lteEsmUl

8.678.2.7 uint8_t* pack_nas_SLQSNasSwiIndicationRegister_t::pRankIndicatorInd

8.678.2.8 uint8_t* pack_nas_SLQSNasSwiIndicationRegister_t::pTimer

8.679 pack_nas_SLQSNASSwiSetChannelLock_t Struct Reference

Data Fields

- nas_wcdmaUARFCN * pWcdmaUARFCN
- nas_lteEARFCN * pLteEARFCN
- nas_ltePCI * pLtePCI

8.679.1 Detailed Description

Structure for ChannelLock pack.

Parameters

pWcdmaUARF-CN	[Optional] • See nas_wcdmaUARFCN for more information
pLteEARFCN	[Optional] • See nas_lteEARFCN for more information
pLtePCI	[Optional] • See nas_ltePCI for more information

8.679.2 Field Documentation

8.679.2.1 nas_lteEARFCN* pack_nas_SLQSNASSwiSetChannelLock_t::pLteEARFCN

8.679.2.2 nas_ltePCI* pack_nas_SLQSNASSwiSetChannelLock_t::pLtePCI

8.679.2.3 nas_wcdmaUARFCN* pack_nas_SLQSNASSwiSetChannelLock_t::pWcdmaUARFCN

8.680 pack_nas_SLQSSetBandPreference_t Struct Reference

Data Fields

- uint64_t bandPref

8.680.1 Detailed Description

Provides information about the band preference.

Parameters

bandpreference	• Bit mask representing the band preference to be set. • Bit position meanings: – 0 - BC0_A - Band Class 0, A-System – 1 - BC0_B - Band Class 0, B-System, Band Class 0 AB , GSM 850 Band – 2 - BC1 - Band Class 1, all blocks – 3 - BC2 - Band Class 2 place holder – 4 - BC3 - Band Class 3, A-System – 5 - BC4 - Band Class 4, all blocks – 6 - BC5 - Band Class 5, all blocks – 7 - GSM_DCS_1800 - GSM DCS band – 8 - GSM_EGSM_900 - GSM Extended GSM (E-GSM) band – 9 - GSM_PGSM_900 - GSM Primary GSM (P-GSM) band – 10 - BC6 - Band Class 6 – 11 - BC7 - Band Class 7 – 12 - BC8 - Band Class 8 – 13 - BC9 - Band Class 9 – 14 - BC10 - Band Class 10 – 15 - BC11 - Band Class 11 – 16 - GSM_450 - GSM 450 band – 17 - GSM_480 - GSM 480 band – 18 - GSM_750 - GSM 750 band – 19 - GSM_850 - GSM 850 band – 20 - GSM_RGSM_900 - GSM Railways GSM Band – 21 - GSM_PCS_1900 - GSM PCS band – 22 - WCDMA_I_IMT_2000 - WCDMA EUROPE JAPAN and CHINA IMT 2100 band – 23 - WCDMA_II_PCS_1900 - WCDMA US PCS 1900 band – 24 - WCDMA_III_1700 - WCDMA EUROPE and CHINA DCS 1800 band – 25 - WCDMA_IV_1700 - WCDMA US 1700 band – 26 - WCDMA_V_850 - WCDMA US 850 band – 27 - WCDMA_VI_800 - WCDMA JAPAN 800 band – 28 - BC12 - Band Class 12 – 29 - BC14 - Band Class 14 – 30 - RESERVED_2 - Reserved 2 – 31 - BC15 - Band Class 15 – 32 - 47 - Reserved – 48 - WCDMA_VII_2600 - WCDMA EUROPE 2600 band – 49 - WCDMA_VIII_900 - WCDMA EUROPE and JAPAN 900 band – 50 - WCDMA_IX_1700 - WCDMA JAPAN 1700 band – 51 to 55 - Reserved – 56 - BBC16 - Band Class 16 – 57 - BC17 - Band Class 17 – 58 - BC18 - Band Class 18 – 59 - BC19 - Band Class 19 – 60 to 64 - Reserved

8.680.2 Field Documentation

8.680.2.1 uint64_t pack_nas_SLQSSetBandPreference_t::bandPref

8.681 pack_nas_SLQSSetSignalStrengthsCallback_t Struct Reference

Data Fields

- uint8_t bEnable
- nas_SLQSSignalStrengthsIndReq * pSigIndReq

8.681.1 Detailed Description

This structure contains paramaters pack set strength thresholds callback.

Parameters

bEnable	0/1 to disable/enable RSSI signal stregth indication
pSigIndReq	parameters to control signal strength indication

8.681.2 Field Documentation

8.681.2.1 uint8_t pack_nas_SLQSSetSignalStrengthsCallback_t::bEnable

8.681.2.2 nas_SLQSSignalStrengthsIndReq* pack_nas_SLQSSetSignalStrengthsCallback_t::pSigIndReq

8.682 pack_nas_SLQSSetSysSelectionPref_t Struct Reference

Data Fields

- uint8_t * pEmerMode
- uint16_t * pModePref
- uint64_t * pBandPref
- uint16_t * pPRLPref
- uint16_t * pRoamPref
- uint64_t * pLTEBandPref
- struct nas_netSelectionPref * pNetSelPref
- uint8_t * pChgDuration
- uint8_t * pMNCIncPCSDigStat
- uint32_t * pSrvDomainPref
- uint32_t * pGWAcqOrderPref
- uint64_t * pTdscdmaBandPref
- struct nas_acqOrderPref * pAcqOrderPref
- uint32_t * pSrvRegRestriction
- struct nas_CSGID * pCSGID
- unsigned char * pRAT

8.682.1 Detailed Description

Contain the system selection preferences.

Parameters

pEmerMode	• Optional parameter specifying the emergency Mode • Values: – 0 - OFF (normal) – 1 - ON (Emergency)
pModePref	• Optional parameter • Bit Mask indicating the radio technology mode preference • Bit values: – Bit 0 - cdma2000 1x – Bit 1 - cdma2000 HRPD(1xEV-DO) – Bit 2 - GSM – Bit 3 - UMTS – Bit 4 - LTE

pBandPref	• Optional parameter • Bit mask representing the band preference • Bit values: – Bit 0 - Band Class 0, A-System – Bit 1 - Band Class 0, B-System, Band Class 0 AB, GSM 850 Band – Bit 2 - Band Class 1, all blocks – Bit 3 - Band Class 2 place holder – Bit 4 - Band Class 3, A-System – Bit 5 - Band Class 4, all blocks – Bit 6 - Band Class 5, all blocks – Bit 7 - GSM_DCS_1800 band – Bit 8 - GSM Extended GSM (E-GSM) 900 band – Bit 9 - GSM Primary GSM (P-GSM) 900 band – Bit 10 - Band Class 6 – Bit 11 - Band Class 7 – Bit 12 - Band Class 8 – Bit 13 - Band Class 9 – Bit 14 - Band Class 10 – Bit 15 - Band Class 11 – Bit 16 - GSM 450 band – Bit 17 - GSM 480 band – Bit 18 - GSM 750 band – Bit 19 - GSM 850 band – Bit 20 - GSM Railways GSM 900 Band – Bit 21 - GSM PCS 1900 band – Bit 22 - WCDMA Europe, Japan, and China IMT 2100 band – Bit 23 - WCDMA U.S. PCS 1900 band – Bit 24 - WCDMA Europe and China DCS 1800 band – Bit 25 - WCDMA U.S. 1700 band – Bit 26 - WCDMA U.S. 850 band – Bit 27 - WCDMA Japan 800 band – Bit 28 - Band Class 12 – Bit 29 - Band Class 14 – Bit 30 - Reserved – Bit 31 - Band Class 15 – Bit 32 to 47 - Reserved – Bit 48 - WCDMA Europe 2600 band – Bit 49 - WCDMA Europe and Japan 900 band – Bit 50 - WCDMA Japan 1700 band – Bit 51 to 55 - Reserved – Bit 56 - Band Class 16 – Bit 57 - Band Class 17 – Bit 58 - Band Class 18 – Bit 59 - Band Class 19 – Bit 60 to 64 - Reserved

pPRLPref	• Optional parameter indicating the CDMA PRL Preference • Values: – 0x0001 - Acquire available system only on the A side – 0x0002 - Acquire available system only on the B side – 0x3FFF - Acquire any available systems
pRoamPref	• Optional parameter indicating the roaming Preference • Values: – 0x01 - Acquire only systems for which the roaming indicator is off – 0x02 - Acquire a system as long as its roaming indicator is not off – 0x03 - Acquire only systems for which the roaming indicator is off or solid on, i.e. not flashing; CDMA only – 0xFF - Acquire systems, regardless of their roaming indicator
pLTEBandPref	• Optional parameter • Bit mask representing the LTE band preference • Bit Values – Bit 0 - E-UTRA Operating Band 1 – Bit 1 - E-UTRA Operating Band 2 – Bit 2 - E-UTRA Operating Band 3 – Bit 3 - E-UTRA Operating Band 4 – Bit 4 - E-UTRA Operating Band 5 – Bit 5 - E-UTRA Operating Band 6 – Bit 6 - E-UTRA Operating Band 7 – Bit 7 - E-UTRA Operating Band 8 – Bit 8 - E-UTRA Operating Band 9 – Bit 9 - E-UTRA Operating Band 10 – Bit 10 - E-UTRA Operating Band 11 – Bit 11 - E-UTRA Operating Band 12 – Bit 12 - E-UTRA Operating Band 13 – Bit 13 - E-UTRA Operating Band 14 – Bit 16 - E-UTRA Operating Band 17 – Bit 17 - E-UTRA Operating Band 18 – Bit 18 - E-UTRA Operating Band 19 – Bit 19 - E-UTRA Operating Band 20 – Bit 20 - E-UTRA Operating Band 21 – Bit 32 - E-UTRA Operating Band 33 – Bit 33 - E-UTRA Operating Band 34 – Bit 34 - E-UTRA Operating Band 35 – Bit 35 - E-UTRA Operating Band 36 – Bit 36 - E-UTRA Operating Band 37 – Bit 37 - E-UTRA Operating Band 38 – Bit 38 - E-UTRA Operating Band 39 – Bit 39 - E-UTRA Operating Band 40 – All other bits are reserved

pNetSelPref	- netSelectionPref • Optional parameter for specifying Network Selection Preference • Modem selects networks based on this parameter(if present). • see nas_netSelectionPref for more information
pChgDuration	• Optional parameter specifying the duration of the change • Values: – 0x00 - Power cycle - Remains active until the next device power cycle – 0x01 - Permanent - Remains active through power cycles until changed by client – Device will use "0x01 - permanent" as default if this parameter is omitted
pMNCIncPCS-DigStat	• Optional parameter indicating if MNC includes PCS digit • Values: – TRUE - MNC is a 3 digit value; e.g., a reported value of 90 corresponds to an MNC value of 090 – FALSE - MNC is a 2-digit value; e.g., a reported value of 90 corresponds to an MNC value of 90
pSrvDomainPref	• Optional parameter indicating Service domain preference • Values: – 0x00 - Circuit switched only – 0x01 - Packet switched only – 0x02 - Circuit switched and packet switched – 0x03 - Packet switched attach – 0x04 - Packet switched detach
pGWAcqOrder-Pref	• Optional parameter indicating GSM/WCDMA Acquisition order Preference • Values: – 0x00 - Automatic – 0x01 - GSM then WCDMA – 0x02 - WCDMA then GSM
pTdscdmaBand-Pref	• Optional parameter indicating bitmask representing the TD-SCDMA band preference to be set. • Values: – 0x01 - TD-SCDMA Band A – 0x02 - TD-SCDMA Band B – 0x04 - TD-SCDMA Band C – 0x08 - TD-SCDMA Band D – 0x10 - TD-SCDMA Band E – 0x20 - TD-SCDMA Band F – All other bits are reserved
pAcqOrderPref	- acqOrderPref • Optional parameter for specifying Acquisition Order Preference • see nas_acqOrderPref for more information

pSrvReg-Restriction	• Optional parameter indicating Network Selection Registration Restriction Preference • Values: – 0x00 - Device follows the normal registration process – 0x01 - Device camps on the network according to its provisioning, but does not register – 0x02 - Device selects the network for limited service – All other values are reserved.
pCSGID	- CSGID • Optional parameter for specifying CSG ID • Either of pNetSelPref or pCSGID can be set. • see nas_CSGID for more information
pRAT	• Optional parameter Radio Access Technology order Preference • Values: – 0x04 - GSM – 0x05 - UMTS – 0x08 - LTE – 0x09 - TDSCDMA

8.682.2 Field Documentation

8.682.2.1 struct nas_acqOrderPref* pack_nas_SLQSSetSysSelectionPref_t::pAcqOrderPref

8.682.2.2 uint64_t* pack_nas_SLQSSetSysSelectionPref_t::pBandPref

8.682.2.3 uint8_t* pack_nas_SLQSSetSysSelectionPref_t::pChgDuration

8.682.2.4 struct nas_CSGID* pack_nas_SLQSSetSysSelectionPref_t::pCSGID

8.682.2.5 uint8_t* pack_nas_SLQSSetSysSelectionPref_t::pEmerMode

8.682.2.6 uint32_t* pack_nas_SLQSSetSysSelectionPref_t::pGWAcqOrderPref

8.682.2.7 uint64_t* pack_nas_SLQSSetSysSelectionPref_t::pLTEBandPref

8.682.2.8 uint8_t* pack_nas_SLQSSetSysSelectionPref_t::pMNCIncPCSDigStat

8.682.2.9 uint16_t* pack_nas_SLQSSetSysSelectionPref_t::pModePref

8.682.2.10 struct nas_netSelectionPref* pack_nas_SLQSSetSysSelectionPref_t::pNetSelPref

8.682.2.11 uint16_t* pack_nas_SLQSSetSysSelectionPref_t::pPRLPref

8.682.2.12 unsigned char* pack_nas_SLQSSetSysSelectionPref_t::pRAT

8.682.2.13 uint16_t* pack_nas_SLQSSetSysSelectionPref_t::pRoamPref

8.682.2.14 uint32_t* pack_nas_SLQSSetSysSelectionPref_t::pSrvDomainPref

8.682.2.15 uint32_t* pack_nas_SLQSSetSysSelectionPref_t::pSrvRegRestriction

8.682.2.16 uint64_t* pack_nas_SLQSSetSysSelectionPref_t::pTdscdmaBandPref

8.683 pack_nas_SLQSSetSysSelectionPrefExt_t Struct Reference

Data Fields

- uint8_t * pEmerMode
- uint16_t * pModePref
- uint64_t * pBandPref
- uint16_t * pPRLPref
- uint16_t * pRoamPref
- uint64_t * pLTEBandPref
- struct nas_netSelectionPref * pNetSelPref
- uint8_t * pChgDuration
- uint8_t * pMNCIncPCSDigStat
- uint32_t * pSrvDomainPref
- uint32_t * pGWAcqOrderPref
- uint64_t * pTdscdmaBandPref
- struct nas_acqOrderPref * pAcqOrderPref
- uint32_t * pSrvRegRestriction
- struct nas_CSGID * pCSGID
- unsigned char * pRAT
- uint64_t * pCiotLteOpModePref
- uint64_t * pLteM1BandPref
- uint64_t * pLteNb1BandPref
- uint32_t * pCiotLteOpMode
- struct nas_ciotAcqOrderPref * pCiotAcqOrderPref
- struct nas_nr5gBandPref * pNr5gBandPref

8.683.1 Detailed Description

Contain the system selection preferences.

Parameters

pEmerMode	• Optional parameter specifying the emergency Mode • Values: – 0 - OFF (normal) – 1 - ON (Emergency)
pModePref	• Optional parameter • Bit Mask indicating the radio technology mode preference • Bit values: – Bit 0 - cdma2000 1x – Bit 1 - cdma2000 HRPD(1xEV-DO) – Bit 2 - GSM – Bit 3 - UMTS – Bit 4 - LTE – Bit 5 - TD-SCDMA – Bit 6 - NR5G

pBandPref	• Optional parameter • Bit mask representing the band preference • Bit values: – Bit 0 - Band Class 0, A-System – Bit 1 - Band Class 0, B-System, Band Class 0 AB, GSM 850 Band – Bit 2 - Band Class 1, all blocks – Bit 3 - Band Class 2 place holder – Bit 4 - Band Class 3, A-System – Bit 5 - Band Class 4, all blocks – Bit 6 - Band Class 5, all blocks – Bit 7 - GSM_DCS_1800 band – Bit 8 - GSM Extended GSM (E-GSM) 900 band – Bit 9 - GSM Primary GSM (P-GSM) 900 band – Bit 10 - Band Class 6 – Bit 11 - Band Class 7 – Bit 12 - Band Class 8 – Bit 13 - Band Class 9 – Bit 14 - Band Class 10 – Bit 15 - Band Class 11 – Bit 16 - GSM 450 band – Bit 17 - GSM 480 band – Bit 18 - GSM 750 band – Bit 19 - GSM 850 band – Bit 20 - GSM Railways GSM 900 Band – Bit 21 - GSM PCS 1900 band – Bit 22 - WCDMA Europe, Japan, and China IMT 2100 band – Bit 23 - WCDMA U.S. PCS 1900 band – Bit 24 - WCDMA Europe and China DCS 1800 band – Bit 25 - WCDMA U.S. 1700 band – Bit 26 - WCDMA U.S. 850 band – Bit 27 - WCDMA Japan 800 band – Bit 28 - Band Class 12 – Bit 29 - Band Class 14 – Bit 30 - Reserved – Bit 31 - Band Class 15 – Bit 32 to 47 - Reserved – Bit 48 - WCDMA Europe 2600 band – Bit 49 - WCDMA Europe and Japan 900 band – Bit 50 - WCDMA Japan 1700 band – Bit 51 to 55 - Reserved – Bit 56 - Band Class 16 – Bit 57 - Band Class 17 – Bit 58 - Band Class 18 – Bit 59 - Band Class 19 – Bit 60 to 64 - Reserved

pPRLPref	• Optional parameter indicating the CDMA PRL Preference • Values: – 0x0001 - Acquire available system only on the A side – 0x0002 - Acquire available system only on the B side – 0x3FFF - Acquire any available systems
pRoamPref	• Optional parameter indicating the roaming Preference • Values: – 0x01 - Acquire only systems for which the roaming indicator is off – 0x02 - Acquire a system as long as its roaming indicator is not off – 0x03 - Acquire only systems for which the roaming indicator is off or solid on, i.e. not flashing; CDMA only – 0xFF - Acquire systems, regardless of their roaming indicator

pLTEBandPref	• Optional parameter • Bit mask representing the LTE band preference • Bit Values – Bit 0 - E-UTRA Operating Band 1 – Bit 1 - E-UTRA Operating Band 2 – Bit 2 - E-UTRA Operating Band 3 – Bit 3 - E-UTRA Operating Band 4 – Bit 4 - E-UTRA Operating Band 5 – Bit 5 - E-UTRA Operating Band 6 – Bit 6 - E-UTRA Operating Band 7 – Bit 7 - E-UTRA Operating Band 8 – Bit 8 - E-UTRA Operating Band 9 – Bit 9 - E-UTRA Operating Band 10 – Bit 10 - E-UTRA Operating Band 11 – Bit 11 - E-UTRA Operating Band 12 – Bit 12 - E-UTRA Operating Band 13 – Bit 13 - E-UTRA Operating Band 14 – Bit 16 - E-UTRA Operating Band 17 – Bit 17 - E-UTRA Operating Band 18 – Bit 18 - E-UTRA Operating Band 19 – Bit 19 - E-UTRA Operating Band 20 – Bit 20 - E-UTRA Operating Band 21 – Bit 22 - E-UTRA Operating Band 23 – Bit 23 - E-UTRA Operating Band 24 – Bit 24 - E-UTRA Operating Band 25 – Bit 25 - E-UTRA Operating Band 26 – Bit 27 - E-UTRA Operating Band 28 – Bit 28 - E-UTRA Operating Band 29 – Bit 29 - E-UTRA Operating Band 32 – Bit 32 - E-UTRA Operating Band 33 – Bit 33 - E-UTRA Operating Band 34 – Bit 34 - E-UTRA Operating Band 35 – Bit 35 - E-UTRA Operating Band 36 – Bit 36 - E-UTRA Operating Band 37 – Bit 37 - E-UTRA Operating Band 38 – Bit 38 - E-UTRA Operating Band 39 – Bit 39 - E-UTRA Operating Band 40 – Bit 40 - E-UTRA Operating Band 41 – Bit 41 - E-UTRA Operating Band 42 – Bit 42 - E-UTRA Operating Band 43 – Bit 60 - E-UTRA Operating Band 125 – All other bits are reserved

pNetSelPref	- netSelectionPref • Optional parameter for specifying Network Selection Preference • Modem selects networks based on this parameter(if present). • Either of pNetSelPref or pCSGID can be set. • see nas_netSelectionPref for more information
pChgDuration	• Optional parameter specifying the duration of the change • At least one system selection setting to be set if pChgDuration is populated. • Values: – 0x00 - Power cycle - Remains active until the next device power cycle – 0x01 - Permanent - Remains active through power cycles until changed by client – Device will use "0x01 - permanent" as default if this parameter is omitted
pMNCIncPCS-DigStat	• Optional parameter indicating if MNC includes PCS digit • pNetSelPref is expected if MNC includes PCS digit is set to 1. • Values: – TRUE - MNC is a 3 digit value; e.g., a reported value of 90 corresponds to an MNC value of 090 – FALSE - MNC is a 2-digit value; e.g., a reported value of 90 corresponds to an MNC value of 90
pSrvDomainPref	• Optional parameter indicating Service domain preference • Values: – 0x00 - Circuit switched only – 0x01 - Packet switched only – 0x02 - Circuit switched and packet switched – 0x03 - Packet switched attach – 0x04 - Packet switched detach
pGWAcqOrder-Pref	• Optional parameter indicating GSM/WCDMA Acquisition order Preference • Values: – 0x00 - Automatic – 0x01 - GSM then WCDMA – 0x02 - WCDMA then GSM
pTdscdmaBand-Pref	• Optional parameter indicating bitmask representing the TD-SCDMA band preference to be set. • Values: – 0x01 - TD-SCDMA Band A – 0x02 - TD-SCDMA Band B – 0x04 - TD-SCDMA Band C – 0x08 - TD-SCDMA Band D – 0x10 - TD-SCDMA Band E – 0x20 - TD-SCDMA Band F – All other bits are reserved

pAcqOrderPref	- acqOrderPref • Optional parameter for specifying Acquisition Order Preference • see nas_acqOrderPref for more information
pSrvReg-Restriction	• Optional parameter indicating Network Selection Registration Restriction Preference • Values: – 0x00 - Device follows the normal registration process – 0x01 - Device camps on the network according to its provisioning, but does not register – 0x02 - Device selects the network for limited service – All other values are reserved.
pCSGID	- CSGID • Optional parameter for specifying CSG ID • Either of pNetSelPref or pCSGID can be set. • see nas_CSGID for more information
pRAT	• Optional parameter Radio Access Technology order Preference • Values: – 0x04 - GSM – 0x05 - UMTS – 0x08 - LTE – 0x09 - TDSCDMA – 0x0A - LTE-M1 – 0x0B - LTE-NB1 – 0x0C - NR5G
pCiotLteOp-ModePref[IN]	• CIOT LTE Operational Mode Preference • Bitmask representing the CIoT LTE operational mode preference to be set. • Values : – Bit 0 - LTE wideband – Bit 1 - LTE M1 – Bit 2 - LTE NB1 All unlisted bits are reserved for future use and the service point ignores them if used. If this TLV is not present, the modem will use the value read from the NV during bootup.

pLteM1Band-Pref[IN]	• Bitmask representing the LTE M1 band preference to be set. • Bit Values – Bit 0 - E-UTRA Operating Band 1 – Bit 1 - E-UTRA Operating Band 2 – Bit 2 - E-UTRA Operating Band 3 – Bit 3 - E-UTRA Operating Band 4 – Bit 4 - E-UTRA Operating Band 5 – Bit 5 - E-UTRA Operating Band 6 – Bit 6 - E-UTRA Operating Band 7 – Bit 7 - E-UTRA Operating Band 8 – Bit 8 - E-UTRA Operating Band 9 – Bit 9 - E-UTRA Operating Band 10 – Bit 10 - E-UTRA Operating Band 11 – Bit 11 - E-UTRA Operating Band 12 – Bit 12 - E-UTRA Operating Band 13 – Bit 13 - E-UTRA Operating Band 14 – Bit 16 - E-UTRA Operating Band 17 – Bit 17 - E-UTRA Operating Band 18 – Bit 18 - E-UTRA Operating Band 19 – Bit 19 - E-UTRA Operating Band 20 – Bit 20 - E-UTRA Operating Band 21 – Bit 22 - E-UTRA Operating Band 23 – Bit 23 - E-UTRA Operating Band 24 – Bit 24 - E-UTRA Operating Band 25 – Bit 25 - E-UTRA Operating Band 26 – Bit 27 - E-UTRA Operating Band 28 – Bit 28 - E-UTRA Operating Band 29 – Bit 29 - E-UTRA Operating Band 32 – Bit 32 - E-UTRA Operating Band 33 – Bit 33 - E-UTRA Operating Band 34 – Bit 34 - E-UTRA Operating Band 35 – Bit 35 - E-UTRA Operating Band 36 – Bit 36 - E-UTRA Operating Band 37 – Bit 37 - E-UTRA Operating Band 38 – Bit 38 - E-UTRA Operating Band 39 – Bit 39 - E-UTRA Operating Band 40 – Bit 40 - E-UTRA Operating Band 41 – Bit 41 - E-UTRA Operating Band 42 – Bit 42 - E-UTRA Operating Band 43 – Bit 60 - E-UTRA Operating Band 125 – Bit 61 - E-UTRA Operating Band 126 – Bit 62 - E-UTRA Operating Band 127

- If this field is not present, the modem will use the M1 band preference value read from the NV.

Parameters

pLteNb1Band-Pref[IN]	• Bitmask representing the LTE NB1 band preference to be set. • Bit Values – Bit 0 - E-UTRA Operating Band 1 – Bit 1 - E-UTRA Operating Band 2 – Bit 2 - E-UTRA Operating Band 3 – Bit 3 - E-UTRA Operating Band 4 – Bit 4 - E-UTRA Operating Band 5 – Bit 5 - E-UTRA Operating Band 6 – Bit 6 - E-UTRA Operating Band 7 – Bit 7 - E-UTRA Operating Band 8 – Bit 8 - E-UTRA Operating Band 9 – Bit 9 - E-UTRA Operating Band 10 – Bit 10 - E-UTRA Operating Band 11 – Bit 11 - E-UTRA Operating Band 12 – Bit 12 - E-UTRA Operating Band 13 – Bit 13 - E-UTRA Operating Band 14 – Bit 16 - E-UTRA Operating Band 17 – Bit 17 - E-UTRA Operating Band 18 – Bit 18 - E-UTRA Operating Band 19 – Bit 19 - E-UTRA Operating Band 20 – Bit 20 - E-UTRA Operating Band 21 – Bit 22 - E-UTRA Operating Band 23 – Bit 23 - E-UTRA Operating Band 24 – Bit 24 - E-UTRA Operating Band 25 – Bit 25 - E-UTRA Operating Band 26 – Bit 27 - E-UTRA Operating Band 28 – Bit 28 - E-UTRA Operating Band 29 – Bit 29 - E-UTRA Operating Band 32 – Bit 32 - E-UTRA Operating Band 33 – Bit 33 - E-UTRA Operating Band 34 – Bit 34 - E-UTRA Operating Band 35 – Bit 35 - E-UTRA Operating Band 36 – Bit 36 - E-UTRA Operating Band 37 – Bit 37 - E-UTRA Operating Band 38 – Bit 38 - E-UTRA Operating Band 39 – Bit 39 - E-UTRA Operating Band 40 – Bit 40 - E-UTRA Operating Band 41 – Bit 41 - E-UTRA Operating Band 42 – Bit 42 - E-UTRA Operating Band 43 – Bit 60 - E-UTRA Operating Band 125 – Bit 61 - E-UTRA Operating Band 126 – Bit 62 - E-UTRA Operating Band 127 • If this field is not present, the modem will use the NB1 band preference value read from the NV.

pCiotLteOpMode	• This TLV is used when the net_sel_pref is MANUAL and RAT TLV is LTE. • This TLV indicates the the operational mode to be used during the manual LTE PLMN selection. • Values : – 0x00 - No service – 0x01 - Camped on LTE wideband – 0x02 - Camped on LTE M1 – 0x03 - Camped on LTE NB1
pCiotAcqOrder-Pref[IN]	• CIOT Acquisition Order Preference • see nas_ciotAcqOrderPref for more information
pNr5gBandPref[-IN]	• NR5G Band Preference • see nas_nr5gBandPref for more information

8.683.2 Field Documentation

8.683.2.1 struct nas_acqOrderPref* pack_nas_SLQSSetSysSelectionPrefExt_t::pAcqOrderPref

8.683.2.2 uint64_t* pack_nas_SLQSSetSysSelectionPrefExt_t::pBandPref

8.683.2.3 uint8_t* pack_nas_SLQSSetSysSelectionPrefExt_t::pChgDuration

8.683.2.4 struct nas_ciotAcqOrderPref* pack_nas_SLQSSetSysSelectionPrefExt_t::pCiotAcqOrderPref

8.683.2.5 uint32_t* pack_nas_SLQSSetSysSelectionPrefExt_t::pCiotLteOpMode

8.683.2.6 uint64_t* pack_nas_SLQSSetSysSelectionPrefExt_t::pCiotLteOpModePref

8.683.2.7 struct nas_CSGID* pack_nas_SLQSSetSysSelectionPrefExt_t::pCSGID

8.683.2.8 uint8_t* pack_nas_SLQSSetSysSelectionPrefExt_t::pEmerMode

8.683.2.9 uint32_t* pack_nas_SLQSSetSysSelectionPrefExt_t::pGWAcqOrderPref

8.683.2.10 uint64_t* pack_nas_SLQSSetSysSelectionPrefExt_t::pLTEBandPref

8.683.2.11 uint64_t* pack_nas_SLQSSetSysSelectionPrefExt_t::pLteM1BandPref

8.683.2.12 uint64_t* pack_nas_SLQSSetSysSelectionPrefExt_t::pLteNb1BandPref

8.683.2.13 uint8_t* pack_nas_SLQSSetSysSelectionPrefExt_t::pMNCIncPCSDigStat

8.683.2.14 uint16_t* pack_nas_SLQSSetSysSelectionPrefExt_t::pModePref

8.683.2.15 struct nas_netSelectionPref* pack_nas_SLQSSetSysSelectionPrefExt_t::pNetSelPref

8.683.2.16 struct nas_nr5gBandPref* pack_nas_SLQSSetSysSelectionPrefExt_t::pNr5gBandPref

8.683.2.17 uint16_t* pack_nas_SLQSSetSysSelectionPrefExt_t::pPRLPref

8.683.2.18 unsigned char* pack_nas_SLQSSetSysSelectionPrefExt_t::pRAT

8.683.2.19 uint16_t* pack_nas_SLQSSetSysSelectionPrefExt_t::pRoamPref

8.683.2.20 uint32_t* pack_nas_SLQSSetSysSelectionPrefExt_t::pSrvDomainPref

8.683.2.21 uint32_t* pack_nas_SLQSSetSysSelectionPrefExt_t::pSrvRegRestriction

8.683.2.22 uint64_t* pack_nas_SLQSSetSysSelectionPrefExt_t::pTdscdmaBandPref

8.684 pack_nas_SLQSSwiPSDetach_t Struct Reference

Data Fields

- uint8_t * pDetachAction

8.684.1 Detailed Description

Structure for PS connection detach pack.

Parameters

pDetachAction[IN]	• Values – 2- Initiates an immediate packet domain detach.

8.684.2 Field Documentation

8.684.2.1 uint8_t* pack_nas_SLQSSwiPSDetach_t::pDetachAction

8.685 pack_pds_PDSInjectTimeReference_t Struct Reference

Data Fields

- uint64_t systemTime
- uint16_t systemDiscontinuities

8.685.1 Detailed Description

Structure contain the parameter for PDS Inject time.

Parameters

systemTime	• System time(milliseconds)
systemDiscontinuities	• Number of system time discontinuities

8.685.2 Field Documentation

8.685.2.1 uint16_t pack_pds_PDSInjectTimeReference_t::systemDiscontinuities

8.685.2.2 uint64_t pack_pds_PDSInjectTimeReference_t::systemTime

8.686 pack_pds_ResetPDSData_t Struct Reference

Data Fields

- uint32_t * pGPSDataMask
- uint32_t * pCellDataMask

8.686.1 Detailed Description

Structure contain the parameter to Resets the specified PDS data.

Parameters

pGPSDataMask	• Bitmask of GPS data to clear (optional) – 0x00000001 - EPH – 0x00000002 - ALM – 0x00000004 - POS – 0x00000008 - TIME – 0x00000010 - IONO – 0x00000020 - UTC – 0x00000040 - HEALTH – 0x00000080 - SVDIR – 0x00000100 - SVSTEER – 0x00000200 - SADATA – 0x00000400 - RTI – 0x00000800 - ALM_CORR – 0x00001000 - FREQ_BIAS_EST
pCellDataMask	• Bitmask of cell data to clear (optional) – 0x00000001 - POS – 0x00000002 - LATEST_GPS_POS – 0x00000004 - OTA_POS – 0x00000008 - EXT_REF_POS – 0x00000010 - TIMETAG – 0x00000020 - CELLID – 0x00000040 - CACHED_CELLID – 0x00000080 - LAST_SRV_CELL – 0x00000100 - CUR_SRV_CELL – 0x00000200 - NEIGHBOR_INFO

8.686.2 Field Documentation

8.686.2.1 uint32_t* pack_pds_ResetPDSData_t::pCellDataMask

8.686.2.2 uint32_t* pack_pds_ResetPDSData_t::pGPSDataMask

8.687 pack_pds_SetEventReportCallback_t Struct Reference

Data Fields

- uint8_t posDataNmea
- uint8_t rptPosData

8.687.1 Detailed Description

Structure contain the parameter for the automatic tracking configuration for the NMEA COM port.

Parameters

posDataNmea	• Report new position data in NMEA format. • Values – 0x00 - Disable – 0x01 - Enable
rptPosData	• Report new position data in raw format. • Values – 0x00 - Disable – 0x01 - Enable

8.687.2 Field Documentation

8.687.2.1 uint8_t pack_pds_SetEventReportCallback_t::posDataNmea

8.687.2.2 uint8_t pack_pds_SetEventReportCallback_t::rptPosData

8.688 pack_pds_SetPDSDefaults_t Struct Reference

Data Fields

- uint32_t operation
- uint8_t timeout
- uint32_t interval
- uint32_t accuracy

8.688.1 Detailed Description

Structure containing session configuration parameters.

Parameters

operation	• Current session operating mode – 0 - Standalone – 1 - MS based – 2 - MS assisted
timeout	• Maximum amount of time (seconds) to work on each fix, maximum is 255
interval	• Interval (seconds) between fix requests
accuracy	• Preferred accuracy threshold (meters)

8.688.2 Field Documentation

8.688.2.1 uint32_t pack_pds_SetPDSDefaults_t::accuracy

8.688.2.2 uint32_t pack_pds_SetPDSDefaults_t::interval

8.688.2.3 uint32_t pack_pds_SetPDSDefaults_t::operation

8.688.2.4 uint8_t pack_pds_SetPDSDefaults_t::timeout

8.689 pack_pds_SetPDSState_t Struct Reference

Data Fields

- uint32_t enable

8.689.1 Detailed Description

Structure contain PDS state parameters.

Parameters

enable	• Desired PDS state – Zero - disable – Non-Zero - enable

8.689.2 Field Documentation

8.689.2.1 uint32_t pack_pds_SetPDSState_t::enable

8.690 pack_pds_SetPortAutomaticTracking_t Struct Reference

Data Fields

- uint32_t bAuto

8.690.1 Detailed Description

Structure contain the parameter for the automatic tracking configuration for the NMEA COM port.

Parameters

bAuto	• Enable automatic tracking for NMEA COM port – 0x00 - Disabled – 0x01 - Enabled

8.690.2 Field Documentation

8.690.2.1 uint32_t pack_pds_SetPortAutomaticTracking_t::bAuto

8.691 pack_pds_SetServiceAutomaticTracking_t Struct Reference

Data Fields

- uint32_t bAuto

8.691.1 Detailed Description

Structure contain the parameter to Sets the automatic tracking state.

Parameters

bAuto	• Automatic tracking session started for service – 0x00 - Disabled – 0x01 - Enabled

8.691.2 Field Documentation

8.691.2.1 uint32_t pack_pds_SetServiceAutomaticTracking_t::bAuto

8.692 pack_pds_SetXTRAAutomaticDownload_t Struct Reference

Data Fields

- uint32_t bEnabled
- uint16_t interval

8.692.1 Detailed Description

Structure contain the parameter to set the XTRA automatic database download configuration.

Parameters

bEnabled	• Automatic XTRA download status – 0 - Disabled – 1 - Enabled
interval	• Interval (hours) between XTRA downloads

8.692.2 Field Documentation

8.692.2.1 uint32_t pack_pds_SetXTRAAutomaticDownload_t::bEnabled

8.692.2.2 uint16_t pack_pds_SetXTRAAutomaticDownload_t::interval

8.693 pack_pds_SetXTRANetwork_t Struct Reference

Data Fields

- uint32_t preference

8.693.1 Detailed Description

Structure contain the parameter to Sets the XTRA WWAN network preference

Parameters

preference	• XTRA WWAN network preference – 0x00 - None (any available network) – 0x01 - Home-only, only when on home systems – 0x02 - Roam-only, only when on non-home systems

8.693.2 Field Documentation

8.693.2.1 uint32_t pack_pds_SetXTRANetwork_t::preference

8.694 pack_pds_SLQSGetAGPSConfig_t Struct Reference

Data Fields

- uint8_t * pNetworkMode

8.694.1 Detailed Description

Structure contain the parameter to PDS AGPS (MS-based) configuration pack.

Parameters

pNetworkMode	• Network Mode of AGPS Server [optional - should be present in Multimode Systems] – 0x00 - UMTS – 0x01 - CDMA

8.694.2 Field Documentation

8.694.2.1 uint8_t* pack_pds_SLQSGetAGPSConfig_t::pNetworkMode

8.695 pack_pds_SLQSPDSInjectAbsoluteTimeReference_t Struct Reference

Data Fields

- uint64_t timeMsec
- uint32_t timeUncMsec
- uint8_t timeBase
- uint8_t forceFlag

8.695.1 Detailed Description

Structure contain the parameter to Injects a absolute time reference.

Parameters

timeMsec	• Represents the number of milliseconds elapsed since either a GPS or UTC time base. If the time base is UTC, this value should NOT include leap seconds
timeUncMsec	• Time uncertainty in milliseconds
timeBase	• Time base – 0x00 - GPS (midnight, Jan 6, 1980) – 0x01 - UTC (midnight, Jan 1, 1970)
forceFlag	• Force acceptance of data

8.695.2 Field Documentation

8.695.2.1 uint8_t pack_pds_SLQSPDSInjectAbsoluteTimeReference_t::forceFlag

8.695.2.2 uint8_t pack_pds_SLQSPDSInjectAbsoluteTimeReference_t::timeBase

8.695.2.3 uint64_t pack_pds_SLQSPDSInjectAbsoluteTimeReference_t::timeMsec

8.695.2.4 uint32_t pack_pds_SLQSPDSInjectAbsoluteTimeReference_t::timeUncMsec

8.696 pack_pds_SLQSPDSInjectPositionData_t Struct Reference

Data Fields

- uint64_t * pTimeStamp
- uint64_t * pLatitude
- uint64_t * pLongitude
- uint32_t * pAltitudeWrtEllipsoid
- uint32_t * pAltitudeWrtSealevel
- uint32_t * pHorizontalUncCircular
- uint32_t * pVerticalUnc
- uint8_t * pHorizontalConfidence
- uint8_t * pVerticalConfidence
- uint8_t * pPositionSource
- uint8_t * pTimeType

8.696.1 Detailed Description

Position Data Parameters from the external source to be injected to PDS engine.

Parameters

pTimeStamp	• Timestamp of the injected position in msec. The time can be of type UTC, GPS, or Age and is defined in the pTimeType parameter. If the pTimeType is not present, the timestamp shall be assumed to be UTC time
pLatitude	• Latitude position referenced to the WGS-84 reference ellipsoid, counting positive angles north of the equator and negative angles south of the equator. Value (in decimal degrees) in the range from -90 degrees to +90 degrees.Value in double float format (refer toIEEE Std 754-1985)
pLongitude	• Longitude position referenced to the WGS-84 reference ellipsoid, counting positive angles east of the Greenwich Meridian and negative angles west of Greenwich meridian. Value (in decimal degrees) in the range from -180 degrees to +180 degrees.
pAltitudeWrt-Ellipsoid	• Height above the WGS-84 reference ellipsoid. Value conveys height (in meters). When injecting altitude information, the control point should include either this parameter or the pAltitudeWrt-Sealevel parameter. Value in single float format (refer to IEEE Std 754-1985)
pAltitudeWrt-Sealevel	• Height of MS above the mean sea level in units (in meters). When injecting altitude information, the control point should include either this parameter or the pAltitudeWrtEllipsoid parameter. Value in single float format (refer to IEEE Std 754-1985)
pHorizontalUnc-Circular	• Circular horizontal uncertainty (in meters). This parameter must be included if the latitude and longitude parameters are specified. Value in single float format (refer to IEEE Std 754-1985)

pVerticalUnc	• Vertical uncertainty (in meters). This parameter must be included if one of the altitude parameter are specified.Value in single float format (refer to IEEE Std 754-1985)
pHorizontal-Confidence	• Confidence value of the location horizontal uncertainty, specified as percentage, 1 to 100. This parameter must be included if the latitude and longitude parameters are specified.
pVertical-Confidence	• Confidence value of the location vertical uncertainty, specified as percentage, 1 to 100. This parameter must be included if one of the altitude paramters are specified.
pPositionSource	• Source of injected position: – 0x00 - Unknown – 0x01 - GPS – 0x02 - Cell ID – 0x03 - Enhanced cell ID – 0x04 - WiFi – 0x05 - Terrestrial – 0x06 - Terrestrial hybrid – 0x07 - Other
pTimeType	• Defines the time value set in the pTimeStamp parameter. – 0x00 - UTC Time: starting Jan 1, 1970 – 0x01 - GPS Time: starting Jan 6, 1980 – 0x02 - Age: Age of position information

8.696.2 Field Documentation

8.696.2.1 uint32_t* pack_pds_SLQSPDSInjectPositionData_t::pAltitudeWrtEllipsoid

8.696.2.2 uint32_t* pack_pds_SLQSPDSInjectPositionData_t::pAltitudeWrtSealevel

8.696.2.3 uint8_t* pack_pds_SLQSPDSInjectPositionData_t::pHorizontalConfidence

8.696.2.4 uint32_t* pack_pds_SLQSPDSInjectPositionData_t::pHorizontalUncCircular

8.696.2.5 uint64_t* pack_pds_SLQSPDSInjectPositionData_t::pLatitude

8.696.2.6 uint64_t* pack_pds_SLQSPDSInjectPositionData_t::pLongitude

8.696.2.7 uint8_t* pack_pds_SLQSPDSInjectPositionData_t::pPositionSource

8.696.2.8 uint64_t* pack_pds_SLQSPDSInjectPositionData_t::pTimeStamp

8.696.2.9 uint8_t* pack_pds_SLQSPDSInjectPositionData_t::pTimeType

8.696.2.10 uint8_t* pack_pds_SLQSPDSInjectPositionData_t::pVerticalConfidence

8.696.2.11 uint32_t* pack_pds_SLQSPDSInjectPositionData_t::pVerticalUnc

8.697 pack_pds_SLQSSetAGPSConfig_t Struct Reference

Data Fields

- uint32_t * pServerAddress
- uint32_t * pServerPort
- uint8_t * pServerURL
- uint8_t * pServerURLLength
- uint8_t * pNetworkMode

8.697.1 Detailed Description

Structure contain the parameter to Sets the PDS AGPS (MS-based) configuration.

Parameters

pServerAddress	• IPv4 address of AGPS server [optional]
pServerPort	• Port number of AGPS server [optional - should be present when pServerAddress is present]
pServerURL	• URL of the AGPS server [optional]
pServerURL-Length	• URL length of AGPS server [optional - should be present when pServerURL is present]
pNetworkMode	• Network Mode of AGPS Server [optional - should be present in Multimode Systems] – 0x00 - UMTS – 0x01 - CDMA

8.697.2 Field Documentation

8.697.2.1 uint8_t* pack_pds_SLQSSetAGPSConfig_t::pNetworkMode

8.697.2.2 uint32_t* pack_pds_SLQSSetAGPSConfig_t::pServerAddress

8.697.2.3 uint32_t* pack_pds_SLQSSetAGPSConfig_t::pServerPort

8.697.2.4 uint8_t* pack_pds_SLQSSetAGPSConfig_t::pServerURL

8.697.2.5 uint8_t* pack_pds_SLQSSetAGPSConfig_t::pServerURLLength

8.698 pack_pds_SLQSSetPositionMethodState_t Struct Reference

Data Fields

- uint8_t * pXtraTimeState

- uint8_t * pXtraDataState
- uint8_t * pWifiState

8.698.1 Detailed Description

Parameters to Set state of positioning method for a device.

Parameters

pXtraTimeState	• XTRA Time Position Method State. • Values: – 0x00 - Disable – 0x01 - Enable
pXtraDataState	• XTRA Data Position Method State. • Values: – 0x00 - Disable – 0x01 - Enable
Latitude	• WiFi Position Method State • Values: – 0x00 - Disable – 0x01 - Enable

8.698.2 Field Documentation

8.698.2.1 uint8_t* pack_pds_SLQSSetPositionMethodState_t::pWifiState

8.698.2.2 uint8_t* pack_pds_SLQSSetPositionMethodState_t::pXtraDataState

8.698.2.3 uint8_t* pack_pds_SLQSSetPositionMethodState_t::pXtraTimeState

8.699 pack_pds_StartPDSTrackingSessionExt_t Struct Reference

Data Fields

- uint8_t sessionControl
- uint8_t sessionType
- uint8_t sessionOperation
- uint8_t sessionServerOption
- uint8_t fixTimeout
- uint32_t fixInterval
- uint32_t fixCount
- uint32_t fixAccuracy

8.699.1 Detailed Description

Structure contain the parameter for PDS tracking session.

Parameters

sessionControl	• Control method: – 0x0 - Manual
sessionType	• Type: – 0x0 - New
session-Operation	• Operating mode: – 0x00 - Standalone – 0x01 - MS-based
sessionServer-Option	• Location server option: – 0x0 - Default
fixTimeout	• Maximum time to work on each fix (in seconds, max 255)
fixCount	• Count of position fix requests for this session (must be at least 1)
fixInterval	• interval between position fix requests (in seconds)
fixAccuracy	• Preferred accuracy threshold(in meters)

8.699.2 Field Documentation

8.699.2.1 uint32_t pack_pds_StartPDSTrackingSessionExt_t::fixAccuracy

8.699.2.2 uint32_t pack_pds_StartPDSTrackingSessionExt_t::fixCount

8.699.2.3 uint32_t pack_pds_StartPDSTrackingSessionExt_t::fixInterval

8.699.2.4 uint8_t pack_pds_StartPDSTrackingSessionExt_t::fixTimeout

8.699.2.5 uint8_t pack_pds_StartPDSTrackingSessionExt_t::sessionControl

8.699.2.6 uint8_t pack_pds_StartPDSTrackingSessionExt_t::sessionOperation

8.699.2.7 uint8_t pack_pds_StartPDSTrackingSessionExt_t::sessionServerOption

8.699.2.8 uint8_t pack_pds_StartPDSTrackingSessionExt_t::sessionType

8.700 pack_qmi_t Struct Reference

Data Fields

- uint16_t xid
- int timeout
- uint16_t msgid
- uint8_t svc

8.700.1 Detailed Description

qmi request context

Parameters

in	*xid*	transaction id
out	*timeout*	timeout recommended in seconds
out	*msgid*	message id
out	*svc*	qmi service

8.700.2 Field Documentation

8.700.2.1 uint16_t pack_qmi_t::msgid

8.700.2.2 uint8_t pack_qmi_t::svc

8.700.2.3 int pack_qmi_t::timeout

8.700.2.4 uint16_t pack_qmi_t::xid

8.701 pack_qos_BindDataPort_t Struct Reference

Data Fields

- qos_BindDataPortPeripheralEndPointID_t * pPeripheralEndPointID
- qos_BindDataPortMuxID_t * pMuxID
- qos_BindDataPortSIODataPort_t * pSIODataPort

8.701.1 Detailed Description

Structure that contains the request Binds a control point to a data port.

Parameters

pPeripheralEndPointID	• See qos_BindDataPortPeripheralEndPointID_t for more information.
pMuxID	• See qos_BindDataPortMuxID_t for more information.
pSIODataPort	• See qos_BindDataPortSIODataPort_t for more information.

8.701.2 Field Documentation

8.701.2.1 qos_BindDataPortMuxID_t* pack_qos_BindDataPort_t::pMuxID

8.701.2.2 qos_BindDataPortPeripheralEndPointID_t* pack_qos_BindDataPort_t::pPeripheralEndPointID

8.701.2.3 qos_BindDataPortSIODataPort_t* pack_qos_BindDataPort_t::pSIODataPort

8.702 pack_qos_SLQSQosSwiReadApnExtraParams_t Struct Reference

Data Fields

- uint32_t apnId

8.702.1 Detailed Description

Structure that contains the APN ID to obtain extra APN parameters

Parameters

apnId[IN]	• APN id

8.702.2 Field Documentation

8.702.2.1 uint32_t pack_qos_SLQSQosSwiReadApnExtraParams_t::apnId

8.703 pack_qos_SLQSQosSwiReadDataStats_t Struct Reference

Data Fields

- uint32_t apnId

8.703.1 Detailed Description

Structure that contains the APN ID to obtain data statistics

Parameters

apnId[IN]	• APN id

8.703.2 Field Documentation

8.703.2.1 uint32_t pack_qos_SLQSQosSwiReadDataStats_t::apnId

8.704 pack_qos_SLQSSetQosEventCallback_t Struct Reference

Data Fields

- uint8_t enable

8.704.1 Detailed Description

Structure that contains the APN ID to obtain data statistics

Parameters

in	*enable*	• 1 - Enable QoS event reporting • 0 - Disable QoS event reporting

8.704.2 Field Documentation

8.704.2.1 uint8_t pack_qos_SLQSSetQosEventCallback_t::enable

8.705 pack_rms_SetSMSWake_t Struct Reference

Data Fields

- uint32_t enabled
- uint32_t wake_mask

8.705.1 Detailed Description

Pack set SMS wake parameters

Parameters

enabled	• SMS wake functionality enabled – 0 - Disabled – 1 - Enabled
wake_mask	• SMS wake mask to search for incoming messages (only relevant when enabled)

8.705.2 Field Documentation

8.705.2.1 uint32_t pack_rms_SetSMSWake_t::enabled

8.705.2.2 uint32_t pack_rms_SetSMSWake_t::wake_mask

8.706 pack_sar_SLQSSetRfSarState_t Struct Reference

Data Fields

- uint32_t RfSarState

8.706.1 Detailed Description

This sturcture contain sets the specified RF SAR state parameter.

Parameters

RfSarState	• SAR RF State – QMI_SAR_RF_STATE_DEFAULT – QMI_SAR_RF_STATE_1 – QMI_SAR_RF_STATE_2 – QMI_SAR_RF_STATE_3 – QMI_SAR_RF_STATE_4 – QMI_SAR_RF_STATE_5 – QMI_SAR_RF_STATE_6 – QMI_SAR_RF_STATE_7 – QMI_SAR_RF_STATE_8

8.706.2 Field Documentation

8.706.2.1 uint32_t pack_sar_SLQSSetRfSarState_t::RfSarState

8.707 pack_sms_SaveSMS_t Struct Reference

Data Fields

- uint32_t storageType
- uint32_t messageFormat
- uint32_t messageSize
- uint8_t ∗ pMessage

8.707.1 Detailed Description

Sutructure containing parameters to Save an SMS message to device memory

Parameters

storageType	• SMS message storage type – 0 - UIM - Invalid in case of CDMA device that does not require SIM – 1 - NV
messageFormat	• Message format – 0 - CDMA (IS-637B) – 1 - 5 (Reserved) – 6 - GSM/WCDMA PP
messageSize	• The length of the message contents in bytes

pMessage	• The message contents

8.707.2 Field Documentation

8.707.2.1 uint32_t pack_sms_SaveSMS_t::messageFormat

8.707.2.2 uint32_t pack_sms_SaveSMS_t::messageSize

8.707.2.3 uint8_t∗ pack_sms_SaveSMS_t::pMessage

8.707.2.4 uint32_t pack_sms_SaveSMS_t::storageType

8.708 pack_sms_SendSMS_t Struct Reference

Data Fields

- uint32_t messageFormat
- uint32_t messageSize
- uint8_t ∗ pMessage
- uint8_t ∗ pLinktimer

8.708.1 Detailed Description

This structure contains pack send SMS parameters.

Parameters

messageFormat	• Message format – 0 - CDMA (IS-637B) – 1 - 5 (Reserved) – 6 - GSM/WCDMA PP
messageSize	• The length of the message contents in bytes
pLinktimer	• GW SMS link open for the specified number of second
pMessage	• The message contents in PDU format contains SMS header and payload message

8.708.2 Field Documentation

8.708.2.1 uint32_t pack_sms_SendSMS_t::messageFormat

8.708.2.2 uint32_t pack_sms_SendSMS_t::messageSize

8.708.2.3 uint8_t* pack_sms_SendSMS_t::pLinktimer

8.708.2.4 uint8_t* pack_sms_SendSMS_t::pMessage

8.709 pack_sms_SetNewSMSCallback_t Struct Reference

Data Fields

- enum eqmiCbkSetStatus status

8.709.1 Detailed Description

This strucure contains pack set new SMS callback parameters.

Parameters

status	callback parameter

8.709.2 Field Documentation

8.709.2.1 enum eqmiCbkSetStatus pack_sms_SetNewSMSCallback_t::status

8.710 pack_sms_SetSMSCAddress_t Struct Reference

Data Fields

- uint8_t * pSMSCAddress
- uint8_t * pSMSCType

8.710.1 Detailed Description

Structure to Set the SMS center address.

Parameters

SMSCAddress	• The SMS center address represented as a NULL terminated string
SMSCType	• The SMS center address type represented as a NULL terminated string (optional).

8.710.2 Field Documentation

8.710.2.1 uint8_t* pack_sms_SetSMSCAddress_t::pSMSCAddress

8.710.2.2 uint8_t* pack_sms_SetSMSCAddress_t::pSMSCType

8.711 pack_sms_SLQSDeleteSMS_t Struct Reference

Data Fields

- uint32_t storageType
- uint32_t * pMessageIndex
- uint32_t * pMessageTag
- uint8_t * pMessageMode

8.711.1 Detailed Description

This structure contains pack delete SMS parameters.

Parameters

storageType	• SMS message storage type – 0 - UIM - Invalid in case of CDMA device that does not require SIM – 1 - NV
pMessageIndex	• (Optional) message index
pMessageTag	• (Optional) message tag – 0 - Read – 1 - Not read – 2 - Mobile originated and sent – 3 - Mobile originated but not yet sent
pMessageMode	• (Optional) message mode • this must be included if the device is capable of supporting more than one protocol • e.g. CDMA and GW – 0x00 - CDMA, LTE (if network type is CDMA) – 0x01 - GW, LTE (if network type is UMTS)

8.711.2 Field Documentation

8.711.2.1 uint32_t* pack_sms_SLQSDeleteSMS_t::pMessageIndex

8.711.2.2 uint8_t* pack_sms_SLQSDeleteSMS_t::pMessageMode

8.711.2.3 uint32_t* pack_sms_SLQSDeleteSMS_t::pMessageTag

8.711.2.4 uint32_t pack_sms_SLQSDeleteSMS_t::storageType

8.712 pack_sms_SLQSGetSMS_t Struct Reference

Data Fields

- uint32_t storageType
- uint32_t messageIndex
- uint8_t * pMessageMode

8.712.1 Detailed Description

This sturcture contains pack get SMS parameters.

Parameters

storageType	• SMS message storage type – 0 - UIM - Invalid in case of CDMA device that does not require SIM – 1 - NV
messageIndex	• Message index
pMessageMode	• 0x00 - CDMA, LTE (if network type is CDMA) • 0x01 - GW, LTE (if network type is UMTS)

8.712.2 Field Documentation

8.712.2.1 uint32_t pack_sms_SLQSGetSMS_t::messageIndex

8.712.2.2 uint8_t∗ pack_sms_SLQSGetSMS_t::pMessageMode

8.712.2.3 uint32_t pack_sms_SLQSGetSMS_t::storageType

8.713 pack_sms_SLQSGetSmsBroadcastConfig_t Struct Reference

Data Fields

- uint8_t mode

8.713.1 Detailed Description

This structure contains get SMS boardcast configure parameter.

Parameters

mode	• Mode – 0x00 - CDMA, LTE (if network type is CDMA) – 0x01 - GW, LTE (if network type is UMTS)

8.713.2 Field Documentation

8.713.2.1 uint8_t pack_sms_SLQSGetSmsBroadcastConfig_t::mode

8.714 pack_sms_SLQSGetSMSList_t Struct Reference

Data Fields

- uint32_t storageType
- uint32_t * pRequestedTag
- uint8_t * pMessageMode

8.714.1 Detailed Description

This structure contains pack get SMS list parameters.

Parameters

storageType	• SMS message storage type – 0 - UIM - Invalid in case of CDMA device that does not require SIM – 1 - NV
requestedTag	• (Optional) Message tag – 0 - Read – 1 - Not read – 2 - Mobile originated and sent – 3 - Mobile originated but not yet sent
messageMode	• 0x00 - CDMA, LTE (if network type is CDMA) • 0x01 - GW, LTE (if network type is UMTS)

8.714.2 Field Documentation

8.714.2.1 uint8_t* pack_sms_SLQSGetSMSList_t::pMessageMode

8.714.2.2 uint32_t* pack_sms_SLQSGetSMSList_t::pRequestedTag

8.714.2.3 uint32_t pack_sms_SLQSGetSMSList_t::storageType

8.715 pack_sms_SLQSModifySMSStatus_t Struct Reference

Data Fields

- uint32_t storageType
- uint32_t messageIndex
- uint32_t messageTag
- uint8_t * pMessageMode

8.715.1 Detailed Description

This structure contains pack modify SMS status parameters.

Parameters

storageType	• SMS message storage type – 0 - UIM - Invalid in case of CDMA device that does not require SIM – 1 - NV
messageIndex	• Message index
messageTag	• Message tag – 0 - Read – 1 - Not read
pMessageMode	• 0x00 - CDMA, LTE (if network type is CDMA) • 0x01 - GW, LTE (if network type is UMTS)

8.715.2 Field Documentation

8.715.2.1 uint32_t pack_sms_SLQSModifySMSStatus_t::messageIndex

8.715.2.2 uint32_t pack_sms_SLQSModifySMSStatus_t::messageTag

8.715.2.3 uint8_t* pack_sms_SLQSModifySMSStatus_t::pMessageMode

8.715.2.4 uint32_t pack_sms_SLQSModifySMSStatus_t::storageType

8.716 pack_sms_SLQSSendAsyncSMS_t Struct Reference

Data Fields

- sms_sendAsyncsmsParams * pSendSmsParams

8.716.1 Detailed Description

Structure contain Parameter to Send an SMS message for immediate over-the-air transmission

Parameters

pSendSms-Params	• structure containing the SMS parameters. Refer sms_sendasyncsmsparams

8.716.2 Field Documentation

8.716.2.1 sms_sendAsyncsmsParams* pack_sms_SLQSSendAsyncSMS_t::pSendSmsParams

8.717 pack_sms_SLQSSetIndicationRegister_t Struct Reference

Data Fields

- sms_setIndicationReg * pSetIndicationRegReq

8.717.1 Detailed Description

Structure contain Parameter that sets the registration state of different WMS indications.

Parameters

pSetIndication-Reg	• Pointer to structure of indicationRegReqParams – See sms_setIndicationReg for more information

8.717.2 Field Documentation

8.717.2.1 sms_setIndicationReg* pack_sms_SLQSSetIndicationRegister_t::pSetIndicationRegReq

8.718 pack_sms_SLQSSetSmsBroadcastActivation_t Struct Reference

Data Fields

- uint8_t mode
- uint8_t broadcastActivate

8.718.1 Detailed Description

Structure contain parameters that Enables or disables the reception of broadcast SMS messages.

Parameters

Mode	• Mode • 0x00 - CDMA, LTE (if network type is CDMA) • 0x01 - GW, LTE (if network type is UMTS)
broadcast-Activate	• 0x00 - Disable broadcast • 0x01 - Activate broadcast

8.718.2 Field Documentation

8.718.2.1 uint8_t pack_sms_SLQSSetSmsBroadcastActivation_t::broadcastActivate

8.718.2.2 uint8_t pack_sms_SLQSSetSmsBroadcastActivation_t::mode

8.719 pack_sms_SLQSSetSmsBroadcastConfig_t Struct Reference

Data Fields

- uint8_t mode
- sms_qaQmi3GPPBroadcastCfgInfo * pBroadcastConfig
- sms_qaQmi3GPP2BroadcastCfgInfo * pCDMABroadcastConfig

8.719.1 Detailed Description

Structure containing parameters that provides the information about the SMS BroadcastConfiguration

Parameters

mode	• Mode – 0x00 - CDMA, LTE (if network type is CDMA) – 0x01 - GW, LTE (if network type is UMTS)
pBroadcast-Config	• The data for 3GPP Broadcast Information(Optional).
pCDMA-BroadcastConfig	• The data for 3GPP2 Broadcast Information(Optional).

8.719.2 Field Documentation

8.719.2.1 uint8_t pack_sms_SLQSSetSmsBroadcastConfig_t::mode

8.719.2.2 sms_qaQmi3GPPBroadcastCfgInfo* pack_sms_SLQSSetSmsBroadcastConfig_t::pBroadcastConfig

8.719.2.3 sms_qaQmi3GPP2BroadcastCfgInfo* pack_sms_SLQSSetSmsBroadcastConfig_t::pCDMABroadcastConfig

8.720 pack_sms_SLQSSetSmsStorage_t Struct Reference

Data Fields

- uint8_t smsStorage

8.720.1 Detailed Description

Structure contain Parameter to set the SMS Storage on the device

Parameters

smsStorage	• SMS Storage – 0x01 - device's permanent memory – 0x02 - UICC

8.720.2 Field Documentation

8.720.2.1 uint8_t pack_sms_SLQSSetSmsStorage_t::smsStorage

8.721 pack_sms_SLQSSmsGetMaxStorageSize_t Struct Reference

Data Fields

- sms_maxStorageSizeReq * pMaxStorageSizeReq

8.721.1 Detailed Description

This structure contains get maximum storage size.

Parameters

pMaxStorage-SizeReq	• Request parameters for SmsSLQSGetMaxStorageSize – See sms_maxStorageSizeReq for more information

8.721.2 Field Documentation

8.721.2.1 sms_maxStorageSizeReq* pack_sms_SLQSSmsGetMaxStorageSize_t::pMaxStorageSizeReq

8.722 pack_sms_SLQSSmsSetRoutes_t Struct Reference

Data Fields

- sms_setRoutesReq * pSetRoutesReq

8.722.1 Detailed Description

Structure contain parameter that Sets the action performed on SMS message receipt for specified message routes. It also specifies the action performed on SMS receipt of status reports.

Parameters

pSetRoutesReq	• Pointer to structure of smsSetRoutesReq – See sms_setRoutesReq for more information

8.722.2 Field Documentation

8.722.2.1 sms_setRoutesReq* pack_sms_SLQSSmsSetRoutes_t::pSetRoutesReq

8.723 pack_swidms_SLQSSwiDmsSetMTU_t Struct Reference

Data Fields

- uint16_t MTUSize

8.723.1 Detailed Description

This structure contains the Set MTU request parameter.

Parameters

MTUSize	• Set MTU size • MTU Values – 0 - use default value – 576 to 2000 - other values required by carrier. – Set the same MTU for all RAT/interfaces. – New MTU size effective after modem reboot.

8.723.2 Field Documentation

8.723.2.1 uint16_t pack_swidms_SLQSSwiDmsSetMTU_t::MTUSize

8.724 pack_swidms_SLQSSwiDmsSetUsbNetNum_t Struct Reference

Data Fields

- uint8_t nUsbNetNum

8.724.1 Detailed Description

This structure contains usb net number to set on remote endpoint for QMAP configuration

Parameters

nUsbNetNum	• value of usb net numbers to set for the device • range is 0-8

8.724.2 Field Documentation

8.724.2.1 uint8_t pack_swidms_SLQSSwiDmsSetUsbNetNum_t::nUsbNetNum

8.725 pack_swiloc_SwiLocSetAutoStart_t Struct Reference

Data Fields

- uint8_t function
- int set_function
- uint8_t fix_type
- int set_fix_type
- uint8_t max_time
- int set_max_time
- uint32_t max_dist
- int set_max_dist

- uint32_t fix_rate
- int set_fix_rate

8.725.1 Detailed Description

This structure contains SWI LOC Get Auto Start setting

Parameters

function	• Setting to indicate when modem should start an automatic GNSS fix – 0 - disabled – 1 - At bootup – 2 - When NMEA port is opened
set_function	• 0 - do not set to modem • I - set to modem
fix_type	• Type of GNSS fix: – 1 - Default Engine mode – 2 - MS-Based – 3 - MS-Assisted – 4 - Standalone
set_fix_type	• 0 - do not set to modem • I - set to modem
max_time	• Maximum time allowed for the receiver to get a fix in seconds • Valid range: 1-255
set_max_time	• 0 - do not set to modem • I - set to modem
max_dist	• Maximum uncertainty of a fix measured by distance in meters • Valid range: 1 - 4294967280
set_max_dist	• 0 - do not set to modem • I - set to modem
fix_rate	• Time between fixes in seconds • Valid range: 1–65535
set_fix_rate	• 0 - do not set to modem • I - set to modem

8.725.2 Field Documentation

8.725.2.1 uint32_t pack_swiloc_SwiLocSetAutoStart_t::fix_rate

8.725.2.2 uint8_t pack_swiloc_SwiLocSetAutoStart_t::fix_type

8.725.2.3 uint8_t pack_swiloc_SwiLocSetAutoStart_t::function

8.725.2.4 uint32_t pack_swiloc_SwiLocSetAutoStart_t::max_dist

8.725.2.5 uint8_t pack_swiloc_SwiLocSetAutoStart_t::max_time

8.725.2.6 int pack_swiloc_SwiLocSetAutoStart_t::set_fix_rate

8.725.2.7 int pack_swiloc_SwiLocSetAutoStart_t::set_fix_type

8.725.2.8 int pack_swiloc_SwiLocSetAutoStart_t::set_function

8.725.2.9 int pack_swiloc_SwiLocSetAutoStart_t::set_max_dist

8.725.2.10 int pack_swiloc_SwiLocSetAutoStart_t::set_max_time

8.726 pack_swioma_SLQSOMADMCancelSession_t Struct Reference

Data Fields

- uint32_t sessionType

8.726.1 Detailed Description

Structure that contains the session type for OMA cancel session command

Parameters

sessionType	[in] • Session type – 0x01 - FOTA, to check availability of FW Update – 0xFF - Cancel any active OMADM session

8.726.2 Field Documentation

8.726.2.1 uint32_t pack_swioma_SLQSOMADMCancelSession_t::sessionType

8.727 pack_swioma_SLQSOMADMGetSessionInfo_t Struct Reference

Data Fields

- uint32_t SessionType

8.727.1 Detailed Description

Structure that contains the session type for OMA get session info command

Parameters

SessionType	[in] • Session type – 0x01 - FOTA – 0xFF - Any active OMADM session. If no active sessions are available, then previous OMADM session info is returned

8.727.2 Field Documentation

8.727.2.1 uint32_t pack_swioma_SLQSOMADMGetSessionInfo_t::SessionType

8.728 pack_swioma_SLQSOMADMSendSelection_t Struct Reference

Data Fields

- uint32_t selection
- uint32_t ∗ pDeferTime
- uint32_t ∗ pRejectReason

8.728.1 Detailed Description

Structure containing the OMA DM selection

Parameters

selection	[in] • OMA-DM NIA Selection – 0x01 - Accept – 0x02 - Reject – 0x03 - Defer
pDeferTime	[in] • Defer time in minutes. A value of 0 will cause the prompt to be resent immediately. • This TLV is mandatory if selection is set to 0x03.
pRejectReason	[in] • Reject Reason • This TLV is processed if selection is set to 0x02. If it is not present, the reject reason 0 is used as default.

8.728.2 Field Documentation

8.728.2.1 uint32_t∗ pack_swioma_SLQSOMADMSendSelection_t::pDeferTime

8.728.2.2 uint32_t∗ pack_swioma_SLQSOMADMSendSelection_t::pRejectReason

8.728.2.3 uint32_t pack_swioma_SLQSOMADMSendSelection_t::selection

8.729 pack_swioma_SLQSOMADMSetSettings_t Struct Reference

Data Fields

- uint8_t FOTAdownload
- uint8_t FOTAUpdate
- uint8_t * pAutosdm
- uint8_t * pFwAutoCheck

8.729.1 Detailed Description

Structure containing the OMA DM settings to be set on the device This maps to structure SLQSOMADMSettings-ReqParams3

Parameters

FOTAdownload	• 1 Byte parameter indicating support for FOTA Automatic download – 0x00 - Firmware autodownload FALSE – 0x01 - Firmware autodownload TRUE
FOTAUpdate	• 1 byte parameter indicating FOTA Automatic update – 0x00 - Firmware autoupdate FALSE – 0x01 - Firmware autoupdate TRUE
pAutosdm	• Optional 1 byte parameter indicating OMA Automatic UI Alert Response – 0x00 - Disabled – 0x01 - Enabled Accept – 0x02 - Enabled Reject
pFwAutoCheck	• Optional 1 byte parameter indicating OMA Automatic Check for Firmware Update on Power-Up Response – 0x00 - Disabled – 0x01 - Enabled

8.729.2 Field Documentation

8.729.2.1 uint8_t pack_swioma_SLQSOMADMSetSettings_t::FOTAdownload

8.729.2.2 uint8_t pack_swioma_SLQSOMADMSetSettings_t::FOTAUpdate

8.729.2.3 uint8_t* pack_swioma_SLQSOMADMSetSettings_t::pAutosdm

8.729.2.4 uint8_t* pack_swioma_SLQSOMADMSetSettings_t::pFwAutoCheck

8.730 pack_swioma_SLQSOMADMStartSession_t Struct Reference

Data Fields

- uint32_t sessionType

8.730.1 Detailed Description

Structure that contains the session type for OMA start session command

Parameters

sessionType[IN]	• Session type – 0x01 - FOTA, to check availability of FW Update – 0x02 - DM, to check availability of DM Update – 0x03 - PRL, to check availability of PRL Update

8.730.2 Field Documentation

8.730.2.1 uint32_t pack_swioma_SLQSOMADMStartSession_t::sessionType

8.731 pack_uim_ChangePin_t Struct Reference

Data Fields

- uim_encryptedPIN1 EncryptedPIN1
- uint32_t * pIndicationToken
- uint8_t * pKeyReferenceID
- uim_sessionInformation sessionInfo
- uim_changeUIMPIN changePIN
- uint16_t Tlvresult

8.731.1 Detailed Description

This structure contains information of the request parameters associated with a Change PIN API.

Parameters

sessionInfo	• See uim_sessionInformation for more information.
changePIN	• See uim_changeUIMPIN for more information.
pKeyReferenceID(optional)	• Indicates the PIN key reference ID. • Indicates the PIN key reference ID. Valid values are from 1 to 8, respectively, for application 1 to application 8. • This TLV is used only for PIN1 and PIN2 and is ignored in all other cases.
pIndicationToken(optional)	• Response in Indication. • When this TLV is present, it indicates that the result must be provided in a subsequent indication. • Valid Values – 0 - Result of operation in response. Indication will not be generated by the modem – Any other positive number - Result of operation in indication. Indication will have same token value set by this function

Note

Using NULL for the pointers would make sure that the parameter is not added to the request.

8.731.2 Field Documentation

8.731.2.1 uim_changeUIMPIN pack_uim_ChangePin_t::changePIN

8.731.2.2 uim_encryptedPIN1 pack_uim_ChangePin_t::EncryptedPIN1

8.731.2.3 uint32_t* pack_uim_ChangePin_t::pIndicationToken

8.731.2.4 uint8_t* pack_uim_ChangePin_t::pKeyReferenceID

8.731.2.5 uim_sessionInformation pack_uim_ChangePin_t::sessionInfo

8.731.2.6 uint16_t pack_uim_ChangePin_t::Tlvresult

8.732 pack_uim_ReadTransparent_t Struct Reference

Data Fields

- uim_sessionInformation sessionInfo
- uim_fileInfo fileIndex
- uim_readTransparentInfo readTransparent
- uint32_t * pIndicationToken
- uint8_t * pEncryptData
- uint16_t Tlvresult

8.732.1 Detailed Description

This structure contains information of the request parameters associated with a Read Transparent API.

Parameters

sessionInfo	• See uim_sessionInformation for more information.
fileIndex	• See uim_fileInfo for more information.
readTransparent	• See uim_readTransparentInfo for more information.
pIndication-Token(optional)	• Response in Indication. • When this TLV is present, it indicates that the result must be provided in a subsequent indication. • Valid Values – 0 - Result of operation in response. Indication will not be generated by the modem – Any other positive number - Result of operation in indication. Indication will have same token value set by this function

pEncrypt-Data(optional)	• Encrypt Data. • Indicates whether the data read from the card is to be encrypted.

Note

Using NULL for the pointers would make sure that the parameter is not added to the request.

8.732.2 Field Documentation

8.732.2.1 uim_fileInfo pack_uim_ReadTransparent_t::fileIndex

8.732.2.2 uint8_t* pack_uim_ReadTransparent_t::pEncryptData

8.732.2.3 uint32_t* pack_uim_ReadTransparent_t::pIndicationToken

8.732.2.4 uim_readTransparentInfo pack_uim_ReadTransparent_t::readTransparent

8.732.2.5 uim_sessionInformation pack_uim_ReadTransparent_t::sessionInfo

8.732.2.6 uint16_t pack_uim_ReadTransparent_t::Tlvresult

8.733 pack_uim_SetPinProtection_t Struct Reference

Data Fields

- uim_encryptedPIN1 EncryptedPIN1
- uint32_t * pIndicationToken
- uint8_t * pKeyReferenceID
- uim_sessionInformation sessionInfo
- uim_setPINProtection pinProtection
- uint16_t Tlvresult

8.733.1 Detailed Description

This structure contains information of the request parameters associated with a set pin protection API.

Parameters

sessionInfo	• See uim_sessionInformation for more information.
pinProtection	• See uim_setPINProtection for more information.
pKeyReferenceI-D(optional)	• Indicates the PIN key reference ID. • Indicates the PIN key reference ID. Valid values are from 1 to 8, respectively, for application 1 to application 8. • This TLV is used only for PIN1 and PIN2 and is ignored in all other cases.

pIndication-Token(optional)	• Response in Indication. • When this TLV is present, it indicates that the result must be provided in a subsequent indication. • Valid Values – 0 - Result of operation in response. Indication will not be generated by the modem – Any other positive number - Result of operation in indication. Indication will have same token value set by this function

Note

Using NULL for the pointers would make sure that the parameter is not added to the request.

8.733.2 Field Documentation

8.733.2.1 uim_encryptedPIN1 pack_uim_SetPinProtection_t::EncryptedPIN1

8.733.2.2 uint32_t* pack_uim_SetPinProtection_t::pIndicationToken

8.733.2.3 uim_setPINProtection pack_uim_SetPinProtection_t::pinProtection

8.733.2.4 uint8_t* pack_uim_SetPinProtection_t::pKeyReferenceID

8.733.2.5 uim_sessionInformation pack_uim_SetPinProtection_t::sessionInfo

8.733.2.6 uint16_t pack_uim_SetPinProtection_t::Tlvresult

8.734 pack_uim_SLQSUIMAuthenticate_t Struct Reference

Data Fields

- uim_sessionInformation sessionInfo
- uim_authenticationData authData
- uint32_t * pIndicationToken

8.734.1 Detailed Description

This structure contains information of the request parameters associated with a SLQSUIMAuthenticate.

Parameters

sessionInfo	• See uim_sessionInformation for more information.
authData	• See uim_authenticationData for more information.
pIndication-Token(optional)	• Response in Indication. • When this TLV is present, it indicates that the result must be provided in a subsequent indication.

Note

Using NULL for the pointers would make sure that the parameter is not added to the request.

8.734.2 Field Documentation

8.734.2.1 uim_authenticationData pack_uim_SLQSUIMAuthenticate_t::authData

8.734.2.2 uint32_t* pack_uim_SLQSUIMAuthenticate_t::pIndicationToken

8.734.2.3 uim_sessionInformation pack_uim_SLQSUIMAuthenticate_t::sessionInfo

8.735 pack_uim_SLQSUIMDepersonalization_t Struct Reference

Data Fields

- uim_depersonalizationInformation depersonilisationInfo

8.735.1 Detailed Description

This structure contains information of the request parameters associated with a Depersonalization.

Parameters

depersonilisationInfo	• See uim_depersonalizationInformation for more information.

8.735.2 Field Documentation

8.735.2.1 uim_depersonalizationInformation pack_uim_SLQSUIMDepersonalization_t::depersonilisationInfo

8.736 pack_uim_SLQSUIMEventRegister_t Struct Reference

Data Fields

- uint32_t eventMask

8.736.1 Detailed Description

This structure contains pack event register parameter.

Parameters

eventMask	- bit 1 - card status • bit 4 - physical slot status

8.736.2 Field Documentation

8.736.2.1 uint32_t pack_uim_SLQSUIMEventRegister_t::eventMask

8.737 pack_uim_SLQSUIMGetConfiguration_t Struct Reference

Data Fields

- uint32_t ∗ pConfigurationMask

8.737.1 Detailed Description

This structure contains information of the request parameters associated with Get Configuration to get the modem configuration for the UIM module

Parameters

pConfiguration-Mask(optional)	• Requested configurations – Bit 0 - Automatic selection – Bit 1 - Personalization status – Bit 2 - Halt subscription – All other bits are reserved for future use

Note

- if the TLV is missing, the service returns all configuration items in the response.

8.737.2 Field Documentation

8.737.2.1 uint32_t∗ pack_uim_SLQSUIMGetConfiguration_t::pConfigurationMask

8.738 pack_uim_SLQSUIMGetFileAttributes_t Struct Reference

Data Fields

- uim_sessionInformation sessionInfo
- uim_fileInfo fileIndex
- uint32_t ∗ pIndicationToken

8.738.1 Detailed Description

This structure contains information of the request parameters associated with a Get File Attributes

Parameters

sessionInfo	• See uim_sessionInformation for more information.
fileIndex	• See uim_fileInfo for more information.
pIndication-Token(optional)	• Response in Indication. • When this TLV is present, it indicates that the result must be provided in a subsequent indication.

Note

Using NULL for the pointers would make sure that the parameter is not added to the request.

8.738.2 Field Documentation

8.738.2.1 uim_fileInfo pack_uim_SLQSUIMGetFileAttributes_t::fileIndex

8.738.2.2 uint32_t* pack_uim_SLQSUIMGetFileAttributes_t::pIndicationToken

8.738.2.3 uim_sessionInformation pack_uim_SLQSUIMGetFileAttributes_t::sessionInfo

8.739 pack_uim_SLQSUIMPowerDown_t Struct Reference

Data Fields

- uint8_t slot

8.739.1 Detailed Description

This structure contains information of the request parameters associated with a Power Down.

Parameters

slot	• Indicates the slot to be used. – 1 - Slot 1 – 2 - Slot 2

8.739.2 Field Documentation

8.739.2.1 uint8_t pack_uim_SLQSUIMPowerDown_t::slot

8.740 pack_uim_SLQSUIMPowerUp_t Struct Reference

Data Fields

- uint8_t slot
- uint8_t * pIgnoreHotSwapSwitch

8.740.1 Detailed Description

This structure contains information of the request parameters associated with a Power Down.

Parameters

slot	• Indicates the slot to be used. – 1 - Slot 1 – 2 - Slot 2

pIgnoreHot-Swap-Switch(optional)	• Hot-swap switch status. – 0 - Checks the hot-swap switch status – 1 - Ignores the hot-swap switch status

8.740.2 Field Documentation

8.740.2.1 uint8_t* pack_uim_SLQSUIMPowerUp_t::pIgnoreHotSwapSwitch

8.740.2.2 uint8_t pack_uim_SLQSUIMPowerUp_t::slot

8.741 pack_uim_SLQSUIMRefreshComplete_t Struct Reference

Data Fields

- uim_sessionInformation sessionInfo
- uint8_t refreshComplete

8.741.1 Detailed Description

This structure contains information of the request parameters associated with a Refresh Complete event.

Parameters

sessionInfo(-Mandatory)	• See uim_sessionInformation for more information.
refresh-Complete(-Mandatory)	• Indicates whether the refresh was successful. Valid values: – 0 - Refresh was not completed successfully – 1 - Refresh was completed successfully

8.741.2 Field Documentation

8.741.2.1 uint8_t pack_uim_SLQSUIMRefreshComplete_t::refreshComplete

8.741.2.2 uim_sessionInformation pack_uim_SLQSUIMRefreshComplete_t::sessionInfo

8.742 pack_uim_SLQSUIMRefreshGetLastEvent_t Struct Reference

Data Fields

- uim_sessionInformation sessionInfo

8.742.1 Detailed Description

This structure contains information of the request parameters associated with a Refresh Get Last Event.

Parameters

sessionInfo(-Mandatory)	• See uim_sessionInformation for more information.

8.742.2 Field Documentation

8.742.2.1 uim_sessionInformation pack_uim_SLQSUIMRefreshGetLastEvent_t::sessionInfo

8.743 pack_uim_SLQSUIMRefreshOK_t Struct Reference

Data Fields

- uim_sessionInformation sessionInfo
- uint8_t OKtoRefresh

8.743.1 Detailed Description

This structure contains Parameters of the Session Information

Parameters

sessionInfo	• Session Information • See uim_sessionInformation for more information
OKtoRefresh	• Indicates whether a refresh is OK. Valid values: – 0 - Not OK to refresh – 1 - OK to refresh

8.743.2 Field Documentation

8.743.2.1 uint8_t pack_uim_SLQSUIMRefreshOK_t::OKtoRefresh

8.743.2.2 uim_sessionInformation pack_uim_SLQSUIMRefreshOK_t::sessionInfo

8.744 pack_uim_SLQSUIMRefreshRegister_t Struct Reference

Data Fields

- uim_sessionInformation sessionInfo
- uim_registerRefresh regRefresh

8.744.1 Detailed Description

This structure contains information of the request parameters associated with a Refresh Register.

Parameters

sessionInfo	• Session Information params • See uim_sessionInformation for more information
regRefresh	• Register Refresh parameters • See uim_registerRefresh for more information

8.744.2 Field Documentation

8.744.2.1 uim_registerRefresh pack_uim_SLQSUIMRefreshRegister_t::regRefresh

8.744.2.2 uim_sessionInformation pack_uim_SLQSUIMRefreshRegister_t::sessionInfo

8.745 pack_uim_SLQSUIMSwitchSlot_t Struct Reference

Data Fields

- uint8_t bLogicalSlot
- uint32_t ulPhysicalSlot

8.745.1 Detailed Description

This structure contains information of the request parameters associated with a Switch Slot.

Parameters

bLogicalSlot	• Indicates the slot to be used. – 1 - Slot 1 – 2 - Slot 2 – 3 - Slot 3 – 4 - Slot 4 – 5 - Slot 5
ulPhysicalSlot	• 1 - Slot 1 • 2 - Slot 2 • 3 - Slot 3 • 4 - Slot 4 • 5 - Slot 5

8.745.2 Field Documentation

8.745.2.1 uint8_t pack_uim_SLQSUIMSwitchSlot_t::bLogicalSlot

8.745.2.2 uint32_t pack_uim_SLQSUIMSwitchSlot_t::ulPhysicalSlot

8.746 pack_uim_UnblockPin_t Struct Reference

Data Fields

- uim_encryptedPIN1 EncryptedPIN1
- uint32_t * pIndicationToken
- uint8_t * pKeyReferenceID
- uim_sessionInformation sessionInfo
- uim_unblockUIMPIN pinProtection
- uint16_t Tlvresult

8.746.1 Detailed Description

This structure contains information of the request parameters associated with a Unblock PIN API.

Parameters

EncryptedPIN1	• See uim_encryptedPIN1 for more information.
sessionInfo	• See uim_sessionInformation for more information.
pinProtection	• See uim_unblockUIMPIN for more information.
pKeyReferenceID(optional)	• Indicates the PIN key reference ID. • Indicates the PIN key reference ID. Valid values are from 1 to 8, respectively, for application 1 to application 8. • This TLV is used only for PIN1 and PIN2 and is ignored in all other cases.
pIndicationToken(optional)	• Response in Indication. • When this TLV is present, it indicates that the result must be provided in a subsequent indication. • Valid Values – 0 - Result of operation in response. Indication will not be generated by the modem – Any other positive number - Result of operation in indication. Indication will have same token value set by this function

8.746.2 Field Documentation

8.746.2.1 uim_encryptedPIN1 pack_uim_UnblockPin_t::EncryptedPIN1

8.746.2.2 uint32_t* pack_uim_UnblockPin_t::pIndicationToken

8.746.2.3 uim_unblockUIMPIN pack_uim_UnblockPin_t::pinProtection

8.746.2.4 uint8_t* pack_uim_UnblockPin_t::pKeyReferenceID

8.746.2.5 uim_sessionInformation pack_uim_UnblockPin_t::sessionInfo

8.746.2.6 uint16_t pack_uim_UnblockPin_t::Tlvresult

8.747 pack_uim_VerifyPin_t Struct Reference

Data Fields

- uim_encryptedPIN1 * pEncryptedPIN1
- uint32_t * pIndicationToken
- uint8_t * pKeyReferenceID
- uim_sessionInformation sessionInfo
- uim_verifyUIMPIN verifyPIN
- uint16_t Tlvresult

8.747.1 Detailed Description

This structure contains information of the request parameters associated with a verify PIN API.

Parameters

sessionInfo	• See uim_sessionInformation for more information.
verifyPIN	• See uim_verifyUIMPIN for more information.
pEncryptedPIN1(optional)	• See uim_encryptedPIN1 for more information.
pKeyReferenceID(optional)	• Indicates the PIN key reference ID. • Indicates the PIN key reference ID. Valid values are from 1 to 8, respectively, for application 1 to application 8. • This TLV is used only for PIN1 and PIN2 and is ignored in all other cases.
pIndicationToken(optional)	• Response in Indication. • When this TLV is present, it indicates that the result must be provided in a subsequent indication. • Valid Values – 0 - Result of operation in response. Indication will not be generated by the modem – Any other positive number - Result of operation in indication. Indication will have same token value set by this function

Note

Using NULL for the pointers would make sure that the parameter is not added to the request.

8.747.2 Field Documentation

8.747.2.1 uim_encryptedPIN1* pack_uim_VerifyPin_t::pEncryptedPIN1

8.747.2.2 uint32_t* pack_uim_VerifyPin_t::pIndicationToken

8.747.2.3 uint8_t* pack_uim_VerifyPin_t::pKeyReferenceID

8.747.2.4 uim_sessionInformation pack_uim_VerifyPin_t::sessionInfo

8.747.2.5 uint16_t pack_uim_VerifyPin_t::Tlvresult

8.747.2.6 uim_verifyUIMPIN pack_uim_VerifyPin_t::verifyPIN

8.748 pack_voice_AnswerUSSD_t Struct Reference

Data Fields

- uint8_t * pInfo

8.748.1 Detailed Description

This structure contains pack anser USSD parameter.

Parameters

pInfo	• USS information • See voice_USSInfo for more details

8.748.2 Field Documentation

8.748.2.1 uint8_t* pack_voice_AnswerUSSD_t::pInfo

8.749 pack_voice_OriginateUSSD_t Struct Reference

Data Fields

- uint8_t * pInfo

8.749.1 Detailed Description

This structure contains pack orginate USSD parameter.

Parameters

pInfo	• USS information • See voice_USSInfo for more details

8.749.2 Field Documentation

8.749.2.1 uint8_t* pack_voice_OriginateUSSD_t::pInfo

8.750 pack_voice_SLQSOriginateUSSD_t Struct Reference

Data Fields

- uint8_t ussDCS
- uint8_t ussLen
- uint8_t ussData [182]

8.750.1 Detailed Description

This structure contains USS Information

Parameters

ussDCS	• 1 - ASCII coding scheme • 2 - 8-BIT coding scheme • 3 - UCS2
ussLen	• Range 1 to 182
ussData	• Data encoded as per the DCS

8.750.2 Field Documentation

8.750.2.1 uint8_t pack_voice_SLQSOriginateUSSD_t::ussData[182]

8.750.2.2 uint8_t pack_voice_SLQSOriginateUSSD_t::ussDCS

8.750.2.3 uint8_t pack_voice_SLQSOriginateUSSD_t::ussLen

8.751 pack_voice_SLQSVoiceALSSelectLine_t Struct Reference

Data Fields

- uint8_t lineValue

8.751.1 Detailed Description

This structure contains ALS Select Line Information Parameters.

Parameters

lineValue	• ALS Line Value.
	  – 0x00 - ALS_LINE1 - Line 1 (default)
	  – 0x01 - ALS_LINE2 - Line 2

8.751.2 Field Documentation

8.751.2.1 uint8_t pack_voice_SLQSVoiceALSSelectLine_t::lineValue

8.752 pack_voice_SLQSVoiceALSSetLineSwitching_t Struct Reference

Data Fields

- uint8_t switchOption

8.752.1 Detailed Description

This structure contains ALS Set Line Switching Information Parameters.

Parameters

switchOption	• Switch Option. – 0x00 - VOICE_LINE_SWITCHING_NOT_ALLOWED - Line switching is not allowed – 0x01 - VOICE_LINE_SWITCHING_ALLOWED - Line switching is allowed

8.752.2 Field Documentation

8.752.2.1 uint8_t pack_voice_SLQSVoiceALSSetLineSwitching_t::switchOption

8.753 pack_voice_SLQSVoiceAnswerCall_t Struct Reference

Data Fields

- uint8_t * pCallId

8.753.1 Detailed Description

Contains the parameters passed for pack voice Answer Call.

Parameters

pCallId	• Unique call identifier for the call that must be answered.

8.753.2 Field Documentation

8.753.2.1 uint8_t* pack_voice_SLQSVoiceAnswerCall_t::pCallId

8.754 pack_voice_SLQSVoiceBindSubscription_t Struct Reference

Data Fields

- uint8_t subsType

8.754.1 Detailed Description

This structure contains Bind Subscription Information Parameters.

Parameters

subsType	• Subscription Type. – 0x00 - VOICE_SUBS_TYPE_PRIMARY - Primary – 0x01 - VOICE_SUBS_TYPE_SECONDARY - Secondary

8.754.2 Field Documentation

8.754.2.1 uint8_t pack_voice_SLQSVoiceBindSubscription_t::subsType

8.755 pack_voice_SLQSVoiceBurstDTMF_t Struct Reference

Data Fields

- voice_burstDTMFInfo BurstDTMFInfo
- voice_DTMFLengths ∗ pBurstDTMFLengths

8.755.1 Detailed Description

This structure contains parameters of burst Dual-Tone Multifrequency (DTMF)

Parameters

BurstDTMFInfo	• Burst DTMF Information – See voice_burstDTMFInfo for more information
pBurstDTMF-Lengths	[optional] • DTMF Lengths – See voice_DTMFLengths for more information • NULL pointer - Invalid data.

8.755.2 Field Documentation

8.755.2.1 voice_burstDTMFInfo pack_voice_SLQSVoiceBurstDTMF_t::BurstDTMFInfo

8.755.2.2 voice_DTMFLengths∗ pack_voice_SLQSVoiceBurstDTMF_t::pBurstDTMFLengths

8.756 pack_voice_SLQSVoiceDialCall_t Struct Reference

Data Fields

- uint8_t callNumber [81]
- uint8_t ∗ pCallType
- uint8_t ∗ pCLIRType
- voice_UUSInfo ∗ pUUSInFo

- voice_CUGInfo * pCUGInfo
- uint8_t * pEmergencyCategory
- voice_calledPartySubAdd * pCallPartySubAdd
- uint8_t * pSvcType

8.756.1 Detailed Description

This structure contains Voice Call Request Parameters

Parameters

callNumber[81]	• Number to be dialed in ASCII string, NULL terminated. • Length Range [1 to 81]
pCallType(optional)	• the type of call to be dialed. CALL_TYPE_VOICE is automatically selected if this parameter is not provided. When CALL_TYPE_NON_STD_OTASP is selected, the call is sent as a nonstandard OTASP call regardless of the digit string Call type values are: – 0x00 - CALL_TYPE_VOICE - Voice (automatic selection) – 0x01 - CALL_TYPE_VOICE_FORCED - Avoid modem call classification – 0x08 - CALL_TYPE_NON_STD_OTASP - Nonstandard OTASP* – 0x09 - CALL_TYPE_EMERGENCY - Emergency
pCLIRType(optional)	• CLIR type values are: – 0x01 - CLIR_SUPPRESSION - Suppression – 0x02 - CLIR_INVOCATION - Invocation
pUUSInFo(optional)	• Pointer to structure of UUSInfo – See voice_UUSInfo for more information
pCUGInfo(optional)	• Pointer to structure of CUGInfo – See voice_CUGInfo for more information
pEmergencyCategory(optional)	• Bit mask of emergency number categories. This is only applicable when the call type is set to Emergency. – Bit 0 - VOICE_EMER_CAT_POLICE_BIT - Police – Bit 1 - VOICE_EMER_CAT_AMBULANCE_BIT - Ambulance – Bit 2 - VOICE_EMER_CAT_FIRE_BRIGADE_BIT- Fire brigade – Bit 3 - VOICE_EMER_CAT_MARINE_GUARD_BIT - Marine guard – Bit 4 - VOICE_EMER_CAT_MOUNTAIN_RESCUE_BIT - Mountain rescue – Bit 5 - VOICE_EMER_CAT_MANUAL_ECALL_BIT - Manual emergency call – Bit 6 - VOICE_EMER_CAT_AUTO_ECALL_BIT - Automatic emergency call – Bit 7 - VOICE_EMER_CAT_SPARE_BIT - Spare bit
pCallPartySubAdd(optional)	• Pointer to structure of calledPartySubAdd – See voice_calledPartySubAdd for more information

pSvcType(optional)	• Service Type. – 0x01 - VOICE_DIAL_CALL_SRV_TYPE_AUTOMATIC - Automatic – 0x02 - VOICE_DIAL_CALL_SRV_TYPE_GSM - GSM – 0x03 - VOICE_DIAL_CALL_SRV_TYPE_WCDMA - WCDMA – 0x04 - VOICE_DIAL_CALL_SRV_TYPE_CDMA_AUTOMATIC - CDMA automatic – 0x05 - VOICE_DIAL_CALL_SRV_TYPE_GSM_WCDMA - GSM or WCDMA – 0x06 - VOICE_DIAL_CALL_SRV_TYPE_LTE -LTE

8.756.2 Field Documentation

8.756.2.1 uint8_t pack_voice_SLQSVoiceDialCall_t::callNumber[81]

8.756.2.2 voice_calledPartySubAdd* pack_voice_SLQSVoiceDialCall_t::pCallPartySubAdd

8.756.2.3 uint8_t* pack_voice_SLQSVoiceDialCall_t::pCallType

8.756.2.4 uint8_t* pack_voice_SLQSVoiceDialCall_t::pCLIRType

8.756.2.5 voice_CUGInfo* pack_voice_SLQSVoiceDialCall_t::pCUGInfo

8.756.2.6 uint8_t* pack_voice_SLQSVoiceDialCall_t::pEmergencyCategory

8.756.2.7 uint8_t* pack_voice_SLQSVoiceDialCall_t::pSvcType

8.756.2.8 voice_UUSInfo* pack_voice_SLQSVoiceDialCall_t::pUUSInFo

8.757 pack_voice_SLQSVoiceEndCall_t Struct Reference

Data Fields

- uint8_t * pCallId

8.757.1 Detailed Description

This structure contain pack voice end call parameter.

Parameters

pCallId	• Unique call identifier for the call that must be ended

8.757.2 Field Documentation

8.757.2.1 uint8_t* pack_voice_SLQSVoiceEndCall_t::pCallId

8.758 pack_voice_SLQSVoiceGetCallBarring_t Struct Reference

Data Fields

- uint8_t reason
- uint8_t * pSvcClass

8.758.1 Detailed Description

This structure contains Voice Get Call Barring Pack Parameters

Parameters

reason	• Call Barring Reason • Values: – 0x07 - QMI_VOICE_REASON_BARR_ALLOUTGOING - All outgoing – 0x08 - QMI_VOICE_REASON_BARR_OUTGOINGINT - Outgoing internal – 0x09 - QMI_VOICE_REASON_BARR_OUTGOINGINTEXTOHOME - Outgoing external to home – 0x0A - QMI_VOICE_REASON_BARR_ALLINCOMING - All incoming – 0x0B - QMI_VOICE_REASON_BARR_INCOMINGROAMING - Roaming incoming – 0x0C - QMI_VOICE_REASON_BARR_ALLBARRING - All calls are barred – 0x0D - QMI_VOICE_REASON_BARR_ALLOUTGOINGBARRING - All outgoing calls are barred – 0x0E - QMI_VOICE_REASON_BARR_ALLINCOMINGBARRING - All incoming calls are barred
pSvcClass	• Service class is a combination (sum) of information class constants (optional) • See qaGobiApiTableSupServiceInfoClasses.h for service classes. • Service Class is set to 0 if call waiting is not active for any of the information classes. • 0xFF,if Not Available

8.758.2 Field Documentation

8.758.2.1 uint8_t* pack_voice_SLQSVoiceGetCallBarring_t::pSvcClass

8.758.2.2 uint8_t pack_voice_SLQSVoiceGetCallBarring_t::reason

8.759 pack_voice_SLQSVoiceGetCallForwardingStatus_t Struct Reference

Data Fields

- uint8_t Reason
- uint8_t * pSvcClass

8.759.1 Detailed Description

This structure contains Voice Get Call Forwarding Status Pack Parameters

Parameters

Reason	• Call Forwarding Reason • Values: – 0x01 - QMI_VOICE_REASON_FWDREASON_UNCONDITIONAL - Unconditional call forwarding – 0x02 - QMI_VOICE_REASON_FWDREASON_MOBILEBUSY - Forward when the mobile is busy – 0x03 - QMI_VOICE_REASON_FWDREASON_NOREPLY - Forward when there is no reply – 0x04 - QMI_VOICE_REASON_FWDREASON_UNREACHABLE - Forward when the call is unreachable – 0x05 - QMI_VOICE_REASON_FWDREASON_ALLFORWARDING - All forwarding – 0x06 - QMI_VOICE_REASON_FWDREASON_ALLCONDITIONAL - All conditional forwarding
pSvcClass(optional)	• Service Class is a combination (sum) of information class constants • See qaGobiApiTableSupServiceInfoClasses.h for service classes.

8.759.2 Field Documentation

8.759.2.1 uint8_t* pack_voice_SLQSVoiceGetCallForwardingStatus_t::pSvcClass

8.759.2.2 uint8_t pack_voice_SLQSVoiceGetCallForwardingStatus_t::Reason

8.760 pack_voice_SLQSVoiceGetCallInfo_t Struct Reference

Data Fields

- uint8_t callID

8.760.1 Detailed Description

This structure contains information of the request parameters associated with a call.

Parameters

callID	• Call identifier for the call queried for information.

8.760.2 Field Documentation

8.760.2.1 uint8_t pack_voice_SLQSVoiceGetCallInfo_t::callID

8.761 pack_voice_SLQSVoiceGetCallWaiting_t Struct Reference

Data Fields

- uint8_t * pSvcClass

8.761.1 Detailed Description

This structure contains Voice Get Call Waiting Response Parameters

Parameters

pSvcClass	• Service class is a combination (sum) of information class constants (optional) • See qaGobiApiTableSupServiceInfoClasses.h for service classes. • Service Class is set to 0 if call waiting is not active for any of the information classes. • 0xFF,if Not Available

8.761.2 Field Documentation

8.761.2.1 uint8_t* pack_voice_SLQSVoiceGetCallWaiting_t::pSvcClass

8.762 pack_voice_SLQSVoiceGetConfig_t Struct Reference

Data Fields

- uint8_t * pAutoAnswer
- uint8_t * pAirTimer
- uint8_t * pRoamTimer
- uint8_t * pTTYMode
- uint8_t * pPrefVoiceSO
- uint8_t * pAMRStatus
- uint8_t * pPrefVoicePrivacy
- uint8_t * pNamID
- uint8_t * pVoiceDomainPref

8.762.1 Detailed Description

This structure contains Voice Get Configuration Request Parameters

Parameters

pAutoAnswer(optional)	• Indicator to retrieve the Auto Answer Information. – 0x01 - Include auto answer information
pAirTimer(optional)	• Indicator to retrieve the Air Timer Information. – 0x01 - Include air calls timer count information • Currently Not Supported.
pRoamTimer(optional)	• Indicator to retrieve the Roam Timer Information. – 0x01 - Include roam calls timer information • Currently Not Supported.

pTTY-Mode(optional)	• Indicator to retrieve the TTY Mode Information. – 0x01 - Include TTY configuration status information
pPrefVoiceS-O(optional)	• Indicator to retrieve the Preferred Voice SO Information. – 0x01 - Include preferred voice configuration status information • Currently Not Supported.
pAMR-Status(optional)	• Indicator to retrieve the AMR Status Information. – 0x01 - Include AMR status information
pPrefVoice-Privacy(optional)	• Indicator to retrieve the Preferred Voice Privacy Information. – 0x01 - Include preferred voice privacy status information
pNamI-D(optional)	• Index of the Number Assignment Module Index (CDMA subscription) to be configured • Range: 0 to 3. • Some modems support only 1 or 2 NAMs. • The NAM Index is valid only when the request contains at least one of Air Timer, Roam Timer, and Preferred Voice SO. • If no nam_id value is specified in the request,the default value is 0.
pVoiceDomain-Pref(optional)	• Indicator to retrieve the Preferred Voice Domain Information. – 0x01 - Include voice domain preference information

Note

Using NULL for the pointers would make sure that the parameter is not returned.

8.762.2 Field Documentation

8.762.2.1 uint8_t* pack_voice_SLQSVoiceGetConfig_t::pAirTimer

8.762.2.2 uint8_t* pack_voice_SLQSVoiceGetConfig_t::pAMRStatus

8.762.2.3 uint8_t* pack_voice_SLQSVoiceGetConfig_t::pAutoAnswer

8.762.2.4 uint8_t* pack_voice_SLQSVoiceGetConfig_t::pNamID

8.762.2.5 uint8_t* pack_voice_SLQSVoiceGetConfig_t::pPrefVoicePrivacy

8.762.2.6 uint8_t* pack_voice_SLQSVoiceGetConfig_t::pPrefVoiceSO

8.762.2.7 uint8_t* pack_voice_SLQSVoiceGetConfig_t::pRoamTimer

8.762.2.8 uint8_t* pack_voice_SLQSVoiceGetConfig_t::pTTYMode

8.762.2.9 uint8_t* pack_voice_SLQSVoiceGetConfig_t::pVoiceDomainPref

8.763 pack_voice_SLQSVoiceIndicationRegister_t Struct Reference

Data Fields

- uint8_t * pRegDTMFEvents
- uint8_t * pRegVoicePrivacyEvents
- uint8_t * pSuppsNotifEvents

8.763.1 Detailed Description

This structure contains parameters of Indication Register Information

Parameters

pRegDTMF-Events(optional)	• Registration Indication For DTMF Events. • When this registration is enabled, the device learns of DTMF events via the QMI_VOICE_DTMF_IND indication. – 0x00 - Disable – 0x01 - Enable
pRegVoice-Privacy-Events(optional)	• Registration Indication For Voice Privacy Events. • When this registration is enabled, the device learns of DTMF events via the QMI_VOICE_PRIVACY_IND indication. – 0x00 - Disable – 0x01 - Enable
pSuppsNotif-Events(optional)	• Registration Indication For Supplementary Service Notification Events. • When this registration is enabled, the device learns of DTMF events via the QMI_VOICE_SUPS_NOTIFICATION_IND indication. – 0x00 - Disable – 0x01 - Enable

Note

One of the optional parameter is mandatory to be present in the request.

8.763.2 Field Documentation

8.763.2.1 uint8_t* pack_voice_SLQSVoiceIndicationRegister_t::pRegDTMFEvents

8.763.2.2 uint8_t* pack_voice_SLQSVoiceIndicationRegister_t::pRegVoicePrivacyEvents

8.763.2.3 uint8_t* pack_voice_SLQSVoiceIndicationRegister_t::pSuppsNotifEvents

8.764 pack_voice_SLQSVoiceManageCalls_t Struct Reference

Data Fields

- uint8_t SUPSType

- uint8_t * pCallID

8.764.1 Detailed Description

This structure contains Manage Calls Information.

Parameters

SUPSType	• Supplementary service type during the call. – 0x01 - SUPS_TYPE_RELEASE_HELD_OR_WAITING * Release is held or waiting – 0x02 - SUPS_TYPE_RELEASE_ACTIVE_ACCEPT_HELD_OR_WAITING * Release is active and accepting held or waiting – 0x03 - SUPS_TYPE_HOLD_ACTIVE_ACCEPT_WAITING_OR_HELD * Hold is active and accepting waiting or held – 0x04 - SUPS_TYPE_HOLD_ALL_EXCEPT_SPECIFIED_CALL * Hold all calls except a specified one – 0x05 - SUPS_TYPE_MAKE_CONFERENCE_CALL * Make a conference call – 0x06 - SUPS_TYPE_EXPLICIT_CALL_TRANSFER * Explicit call transfer – 0x07 - SUPS_TYPE_CCBS_ACTIVATION * Activate completion of calls to busy subscriber – 0x08 - SUPS_TYPE_END_ALL_CALLS * End all calls – 0x09 - SUPS_TYPE_RELEASE_SPECIFIED_CALL * Release a specified call
pCallID[Optional]	• Applicable only for SUPSType 0x04, 0x07, and 0x09 • NULL pointer - Invalid data.

8.764.2 Field Documentation

8.764.2.1 uint8_t* pack_voice_SLQSVoiceManageCalls_t::pCallID

8.764.2.2 uint8_t pack_voice_SLQSVoiceManageCalls_t::SUPSType

8.765 pack_voice_SLQSVoiceOrigUSSDNoWait_t Struct Reference

Data Fields

- struct voice_USSInfo USSInformation

8.765.1 Detailed Description

This structure contains Orig USSD No Wait Information Parameters.

Parameters

USSInformation	• See voice_USSInfo for more information.

8.765.2 Field Documentation

8.765.2.1 struct voice_USSInfo pack_voice_SLQSVoiceOrigUSSDNoWait_t::USSInformation

8.766 pack_voice_SLQSVoiceSendFlash_t Struct Reference

Data Fields

- uint8_t ∗ pCallID
- uint8_t ∗ pFlashPayLd
- uint8_t ∗ pFlashType

8.766.1 Detailed Description

This structure contains the flash information associated with a call.

Parameters

pCallID	• Unique call identifier associated with the current call.
pFlashPayLd(optional)	• Payload in ASCII to be sent in Flash. • Variable Length, NULL terminated.
pFlashType(optional)	• Flash type. – 0 - Simple Flash (default) – 1 - Activate answer hold – 2 - Deactivate answer hold

8.766.2 Field Documentation

8.766.2.1 uint8_t∗ pack_voice_SLQSVoiceSendFlash_t::pCallID

8.766.2.2 uint8_t∗ pack_voice_SLQSVoiceSendFlash_t::pFlashPayLd

8.766.2.3 uint8_t∗ pack_voice_SLQSVoiceSendFlash_t::pFlashType

8.767 pack_voice_SLQSVoiceSetCallBarringPassword_t Struct Reference

Data Fields

- uint8_t Reason
- uint8_t oldPasswd [4]
- uint8_t newPasswd [4]

- uint8_t newPasswdAgain [4]

8.767.1 Detailed Description

This structure contains Voice Set Call Barring Password Pack Parameters

Parameters

Reason	• Call Barring Reason • Values: – 0x07 - QMI_VOICE_REASON_BARR_ALLOUTGOING - All outgoing – 0x08 - QMI_VOICE_REASON_BARR_OUTGOINGINT - Outgoing internal – 0x09 - QMI_VOICE_REASON_BARR_OUTGOINGINTEXTOHOME - Outgoing external to home – 0x0A - QMI_VOICE_REASON_BARR_ALLINCOMING - All incoming – 0x0B - QMI_VOICE_REASON_BARR_INCOMINGROAMING - Roaming incoming – 0x0C - QMI_VOICE_REASON_BARR_ALLBARRING - All calls are barred – 0x0D - QMI_VOICE_REASON_BARR_ALLOUTGOINGBARRING - All outgoing calls are barred – 0x0E - QMI_VOICE_REASON_BARR_ALLINCOMINGBARRING - All incoming calls are barred
oldPasswd[BARRING_PASSWORD_LENGTH]	• Old password. – Password consists of 4 ASCII digits. – Range: 0000 to 9999.
newPasswd[BARRING_PASSWORD_LENGTH]	• New password. – Password consists of 4 ASCII digits. – Range: 0000 to 9999.
newPasswdAgain[BARRING_PASSWORD_LENGTH]	• New password Again. – Password consists of 4 ASCII digits. – Range: 0000 to 9999.

8.767.2 Field Documentation

8.767.2.1 uint8_t pack_voice_SLQSVoiceSetCallBarringPassword_t::newPasswd[4]

8.767.2.2 uint8_t pack_voice_SLQSVoiceSetCallBarringPassword_t::newPasswdAgain[4]

8.767.2.3 uint8_t pack_voice_SLQSVoiceSetCallBarringPassword_t::oldPasswd[4]

8.767.2.4 uint8_t pack_voice_SLQSVoiceSetCallBarringPassword_t::Reason

8.768 pack_voice_SLQSVoiceSetConfig_t Struct Reference

Data Fields

- uint8_t * pAutoAnswer
- voice_airTimer * pAirTimerConfig
- voice_roamTimer * pRoamTimerConfig
- uint8_t * pTTYMode
- voice_prefVoiceSO * pPrefVoiceSO
- uint8_t * pPrefVoiceDomain

8.768.1 Detailed Description

This structure contains information about the Set Configuration Request Parameters.

Parameters

pAutoAnswer	• Value specified is written to NV_AUTO_ANSWER_I. (optional) • Values: – 0x00 - Disable – 0x01 - Enable
pAirTimerConfig	• Value specified is written to NV_AIR_CNT_I. (optional) • See voice_airTimer for more information
pRoamTimer-Config	• Value specified is written to NV_ROAM_CNT_I. (optional) • See voice_roamTimer for more information
pTTYMode	• Value specified is written to NV_TTY_I. (optional) • Values: – 0x00 - TTY_MODE_FULL - Full – 0x01 - TTY_MODE_VCO - Voice carry over – 0x02 - TTY_MODE_HCO - Hearing carry over – 0x03 - TTY_MODE_OFF - Off
pPrefVoiceSO	• Value specified is written to NV_PREF_VOICE_SO_I. (optional) • See voice_prefVoiceSO for more information
pPrefVoice-Domain	• Preferred Voice-Domain. (optional) • Values: – 0x00 - VOICE_DOMAIN_PREF_CS_ONLY - Circuit-switched (CS) only – 0x01 - VOICE_DOMAIN_PREF_PS_ONLY - Packet-switched (PS) only – 0x02 - VOICE_DOMAIN_PREF_CS_PREF - CS is preferred, PS is secondary – 0x03 - VOICE_DOMAIN_PREF_PS_PREF - PS is preferred, CS is secondary

Note

One of the optional parameters must be present in the request.

8.768.2 Field Documentation

8.768.2.1 voice_airTimer* pack_voice_SLQSVoiceSetConfig_t::pAirTimerConfig

8.768.2.2 uint8_t* pack_voice_SLQSVoiceSetConfig_t::pAutoAnswer

8.768.2.3 uint8_t* pack_voice_SLQSVoiceSetConfig_t::pPrefVoiceDomain

8.768.2.4 voice_prefVoiceSO* pack_voice_SLQSVoiceSetConfig_t::pPrefVoiceSO

8.768.2.5 voice_roamTimer* pack_voice_SLQSVoiceSetConfig_t::pRoamTimerConfig

8.768.2.6 uint8_t* pack_voice_SLQSVoiceSetConfig_t::pTTYMode

8.769 pack_voice_SLQSVoiceSetPreferredPrivacy_t Struct Reference

Data Fields

- uint8_t privacyPref

8.769.1 Detailed Description

This structure contains the preferred voice privacy values.

Parameters

privacyPref	• Voice Privacy Preference – 0x00 - VOICE_PRIVACY_STANDARD - Standard privacy – 0x01 - VOICE_PRIVACY_ENHANCED - Enhanced privacy

8.769.2 Field Documentation

8.769.2.1 uint8_t pack_voice_SLQSVoiceSetPreferredPrivacy_t::privacyPref

8.770 pack_voice_SLQSVoiceSetSUPSService_t Struct Reference

Data Fields

- uint8_t voiceSvc
- uint8_t reason
- uint8_t * pServiceClass
- uint8_t * pCallBarringPasswd
- uint8_t * pCallForwardingNumber
- uint8_t * pTimerVal
- voice_callFwdTypeAndPlan * pCallFwdTypeAndPlan

8.770.1 Detailed Description

This structure contains Supplementary Service request parameters related to different features and their activation, deactivation, registration and erasure (applicable only for 3GPP)

Parameters

voiceSvc	• Manages all call-independent supplementary services, such as activation, deactivation, registration, and erasure (mandatory) – 0x01 - VOICE_SERVICE_ACTIVATE – 0x02 - VOICE_SERVICE_DEACTIVATE – 0x03 - VOICE_SERVICE_REGISTER – 0x04 - VOICE_SERVICE_ERASE
reason	• supplementary service reason values (mandatory) – 0x01 - QMI_VOICE_REASON_FWD_UNCONDITIONAL Unconditional call forwarding – 0x02 - QMI_VOICE_REASON_FWD_MOBILEBUSY Forward when the mobile is busy – 0x03 - QMI_VOICE_REASON_FWD_NOREPLY Forward when there is no reply – 0x04 - QMI_VOICE_REASON_FWD_UNREACHABLE Forward when the call is unreachable – 0x05 - QMI_VOICE_REASON_FWD_ALLFORWARDING All forwarding – 0x06 - QMI_VOICE_REASON_FWD_ALLCONDITIONAL All conditional forwarding – 0x07 - QMI_VOICE_REASON_BARR_ALLOUTGOING All outgoing calls are barred – 0x08 - QMI_VOICE_REASON_BARR_OUTGOINGINT Outgoing internal calls are barred – 0x09 - QMI_VOICE_REASON_BARR_OUTGOINGINTEXTOHOME Outgoing calls external to home are barred – 0x0A - QMI_VOICE_REASON_BARR_ALLINCOMING All incoming calls are barred – 0x0B - QMI_VOICE_REASON_BARR_INCOMINGROAMING Roaming incoming calls are barred – 0x0C - QMI_VOICE_REASON_BARR_ALLBARRING All calls are barred – 0x0D - QMI_VOICE_REASON_BARR_ALLOUTGOINGBARRING All outgoing calls are barred – 0x0E - QMI_VOICE_REASON_BARR_ALLINCOMINGBARRING All incoming calls are barred – 0x0F - QMI_VOICE_REASON_CALLWAITING Call waiting
pServiceClass	• Service class is a combination (sum) of information class constants (optional) – See liteServiceClassInformation for more information
pCallBarring-Passwd	• Password is required if call barring is provisioned using a password. Password consists of 4 ASCII digits. Range: 0000 to 9999 (optional)

pCallForwarding-Number	• Call forwarding number to be registered with the network. This has to be included in the request only when the service is set to VOICE_SERVICE_REGISTER. NULL terminated ASCII string. (optional)
pTimerVal	• Call forwarding no reply timer value in seconds. This has to be included in the request only when the service is set to VOICE_SERVICE_REGISTER and the reason is QMI_VOICE_REASON_FWD_NOREPLY. (optional) – Range: 5 to 30 in steps of 5
pCallFwdType-AndPlan	• Information about call forwarding type and plan. This parameter is ignored when the Call Forwarding Number is not included (optional) – See voice_callFwdTypeAndPlan for more information

8.770.2 Field Documentation

8.770.2.1 uint8_t∗ pack_voice_SLQSVoiceSetSUPSService_t::pCallBarringPasswd

8.770.2.2 uint8_t∗ pack_voice_SLQSVoiceSetSUPSService_t::pCallForwardingNumber

8.770.2.3 voice_callFwdTypeAndPlan∗ pack_voice_SLQSVoiceSetSUPSService_t::pCallFwdTypeAndPlan

8.770.2.4 uint8_t∗ pack_voice_SLQSVoiceSetSUPSService_t::pServiceClass

8.770.2.5 uint8_t∗ pack_voice_SLQSVoiceSetSUPSService_t::pTimerVal

8.770.2.6 uint8_t pack_voice_SLQSVoiceSetSUPSService_t::reason

8.770.2.7 uint8_t pack_voice_SLQSVoiceSetSUPSService_t::voiceSvc

8.771 pack_voice_SLQSVoiceStartContDTMF_t Struct Reference

Data Fields

- uint8_t ∗ pCallID
- uint8_t DTMFdigit

8.771.1 Detailed Description

This structure contains parameters of continuous DTMF

Parameters

pCallID	• Call ID associated with call on which the DTMF information has to be sent. Start continuous DTMF request is sent to the current active/alerting call when pCallId is set to 0xFF. • This is IN/OUT parameter, value passed by user will be packed in request and value received from the device would be returned to the user. • If the call ID value received is 0, no value has been returned by the device

DTMFdigit	• DTMF digit in ASCII.

8.771.2 Field Documentation

8.771.2.1 uint8_t pack_voice_SLQSVoiceStartContDTMF_t::DTMFdigit

8.771.2.2 uint8_t∗ pack_voice_SLQSVoiceStartContDTMF_t::pCallID

8.772 pack_voice_SLQSVoiceStopContDTMF_t Struct Reference

Data Fields

- uint8_t callID

8.772.1 Detailed Description

This structure contains parameters of stop continuous DTMF

Parameters

pCallID	• Call ID associated with call on which the DTMF information has to be sent. Stop continuous DTMF request is sent to the current active/alerting call when pCallId is set to 0xFF. • This is IN/OUT parameter, value passed by user will be packed in request and value received from the device would be returned to the user. • If the call ID value received is 0, no value has been returned by the device

8.772.2 Field Documentation

8.772.2.1 uint8_t pack_voice_SLQSVoiceStopContDTMF_t::callID

8.773 pack_wds_DHCPv4ClientLeaseChange_t Struct Reference

Data Fields

- uint8_t ∗ pEnableNotification

8.773.1 Detailed Description

WDS SWI DHCPv4 Client Lease Change Structure

Parameters

pEnable-Notification	• Enable Notification or not

8.773.2 Field Documentation

8.773.2.1 uint8_t* pack_wds_DHCPv4ClientLeaseChange_t::pEnableNotification

8.774 pack_wds_GetDefaultProfile_t Struct Reference

Data Fields

- uint32_t profiletype

8.774.1 Detailed Description

This structure contains pack get default profile information.

Parameters

profiletype	profile type • 0 - WDS_PROFILE_TYPE_3GPP (0x00) - 3GPP • 1 - WDS_PROFILE_TYPE_3GPP (0x01) - 3GPP2 • 2 - WDS_PROFILE_TYPE_EPC (0x02) - EPC

8.774.2 Field Documentation

8.774.2.1 uint32_t pack_wds_GetDefaultProfile_t::profiletype

8.775 pack_wds_GetDefaultProfileNum_t Struct Reference

Data Fields

- uint8_t type
- uint8_t family

8.775.1 Detailed Description

This structure contains pack Get Default Profile Number information.

Parameters

type	profile type • 0 - 3GPP • 1 - 3GPP2
family	profile family • 0 - Embedded • 1 - Tethered

8.775.2 Field Documentation

8.775.2.1 uint8_t pack_wds_GetDefaultProfileNum_t::family

8.775.2.2 uint8_t pack_wds_GetDefaultProfileNum_t::type

8.776 pack_wds_GetDormancyState_t Struct Reference

8.776.1 Detailed Description

This structure contains pack get dormancy state information.

Parameters

NULL	• this is a dummy structure

8.777 pack_wds_GetLastMobileIPError_t Struct Reference

8.777.1 Detailed Description

This structure contains pack get last mobile IP error information.

Parameters

NULL	• this is a dummy structure

8.778 pack_wds_GetMobileIP_t Struct Reference

8.778.1 Detailed Description

This structure contains pack get mobile IP information.

Parameters

NULL	• this is a dummy structure

8.779 pack_wds_GetMobileIPProfile_t Struct Reference

Data Fields

- uint8_t index

8.779.1 Detailed Description

This structure contains pack get mobile IP profile information.

Parameters

index	• Mobile IP profile ID

8.779.2 Field Documentation

8.779.2.1 uint8_t pack_wds_GetMobileIPProfile_t::index

8.780 pack_wds_GetPacketStatistics_t Struct Reference

Data Fields

- uint32_t ∗ pStatMask

8.780.1 Detailed Description

This structure contains pack get packet statistics information.

Parameters

pStatMask	• Packet Statistics Mask – 0x00000001 - Tx packets OK – 0x00000002 - Rx packets OK – 0x00000004 - Tx packet errors – 0x00000008 - Rx packet errors – 0x00000010 - Tx overflows – 0x00000020 - Rx overflows – 0x00000040 - Tx bytes OK – 0x00000080 - Rx bytes OK

8.780.2 Field Documentation

8.780.2.1 uint32_t∗ pack_wds_GetPacketStatistics_t::pStatMask

8.781 pack_wds_GetPacketStatus_t Struct Reference

Data Fields

- uint32_t statmask

8.781.1 Detailed Description

This structure contains pack get packet status information.

Parameters

statmask	packet statistics mask • 0x00000001 - Tx packets OK • 0x00000002 - Rx packets OK • 0x00000004 - Tx packet errors • 0x00000008 - Rx packet errors • 0x00000010 - Tx overflows • 0x00000020 - Rx overflows • 0x00000040 - Tx bytes OK • 0x00000080 - Rx bytes OK • 0x00000100 - Tx packets dropped • 0x00000200 - Rx packets dropped

8.781.2 Field Documentation

8.781.2.1 uint32_t pack_wds_GetPacketStatus_t::statmask

8.782 pack_wds_GetSessionDuration_t Struct Reference

8.782.1 Detailed Description

This structure contains pack get session duration information.

Parameters

NULL	• this is a dummy structure

8.783 pack_wds_RMSetTransferStatistics_t Struct Reference

Data Fields

- rmTrasnferStaticsReq RmTrasnferStaticsReq

8.783.1 Detailed Description

This structure contains pack fetch current data system transfer statistics information.

Parameters

RmTrasnfer-StaticsReq[IN]	• See rmTrasnferStaticsReq for more information

8.783.2 Field Documentation

8.783.2.1 rmTrasnferStaticsReq pack_wds_RMSetTransferStatistics_t::RmTrasnferStaticsReq

8.784 pack_wds_SetAutoconnect_t Struct Reference

Data Fields

- uint8_t acsetting
- uint8_t acroamsetting

8.784.1 Detailed Description

auto connect data session parameters.

Parameters

acsetting	• Current autoconnect setting: – 0x00 - Autoconnect disabled – 0x01 - Autoconnect enabled – 0x02 - Autoconnect paused (resume on powercycle)
acroamsetting	• Current autoconnect roaming status – 0x00 - Autoconnect always allowed – 0x01 - Autoconnect while in home service area only

8.784.2 Field Documentation

8.784.2.1 uint8_t pack_wds_SetAutoconnect_t::acroamsetting

8.784.2.2 uint8_t pack_wds_SetAutoconnect_t::acsetting

8.785 pack_wds_SetDefaultProfile_t Struct Reference

Data Fields

- uint32_t profileType
- uint32_t pdpType
- uint32_t ipAddress
- uint32_t primaryDNS
- uint32_t secondaryDNS
- uint32_t authentication
- uint8_t * pName
- uint8_t * pUsername
- uint8_t * pApnname
- uint8_t * pPassword

8.785.1 Detailed Description

Writes the default profile settings to the device. The default profile is used to establish an autoconnect data session.

Parameters

profileType	• Type of profile – 0 - 3GPP – 1 - 3GPP2
pdpType	• Packet Data Protocol (PDP) type specifies the type of data payload exchanged over the air link when the packet data session is established with this profile (optional) – 0 - PDP-IP (IPv4) – 1 - PDP-PPP – 2 - PDP-IPv6 – 3 - PDP-IPv4v6
ipAddress	• Preferred IPv4 addr to be assigned to device (optional)
primaryDNS	• Primary DNS Ipv4 address preference (optional)
secondaryDNS	• Secondary DNS Ipv4 address preference (optional)
authentication	• Bitmap that indicates authentication algorithm preference (optional) – 0x00000001 - PAP preference * 0 - Never performed * 1 - May be performed – 0x00000002 - CHAP preference * 0 - Never performed * 1 - May be performed – All other bits are reserved and must be set to 0 – If more than 1 bit is set, then device decides which authentication procedure is performed while setting up data session e.g. the device may have a policy to select the most secure authentication mechanism.
pName	• profile Name (optional)
pUsername	• Username used during network authentication (optional)
pAPNName	• Access point name. NULL-terminated string parameter that is a logical name used to select GGSN and external packet data network (optional) • If value is NULL or omitted, then subscription default value will be requested.
pPassword	• Password used during network authentication (optional)

8.785.2 Field Documentation

8.785.2.1 uint32_t pack_wds_SetDefaultProfile_t::authentication

8.785.2.2 uint32_t pack_wds_SetDefaultProfile_t::ipAddress

8.785.2.3 uint8_t* pack_wds_SetDefaultProfile_t::pApnname

8.785.2.4 uint32_t pack_wds_SetDefaultProfile_t::pdpType

8.785.2.5 uint8_t* pack_wds_SetDefaultProfile_t::pName

8.785.2.6 uint8_t* pack_wds_SetDefaultProfile_t::pPassword

8.785.2.7 uint32_t pack_wds_SetDefaultProfile_t::primaryDNS

8.785.2.8 uint32_t pack_wds_SetDefaultProfile_t::profileType

8.785.2.9 uint8_t* pack_wds_SetDefaultProfile_t::pUsername

8.785.2.10 uint32_t pack_wds_SetDefaultProfile_t::secondaryDNS

8.786 pack_wds_SetDefaultProfileNum_t Struct Reference

Data Fields

- uint8_t type
- uint8_t family
- uint8_t index

8.786.1 Detailed Description

This structure to hold Set default profile number

Parameters

type	Identifies the technology type of the profile • 0 - 3GPP • 1 - 3GPP2
family	Identifies the family of profile • 0 - Embedded • 1 - Tethered
index	Profile number to be set as default profile.

8.786.2 Field Documentation

8.786.2.1 uint8_t pack_wds_SetDefaultProfileNum_t::family

8.786.2.2 uint8_t pack_wds_SetDefaultProfileNum_t::index

8.786.2.3 uint8_t pack_wds_SetDefaultProfileNum_t::type

8.787 pack_wds_SetMobileIP_t Struct Reference

Data Fields

- uint32_t mode

8.787.1 Detailed Description

This structure contains set mobile IP pack information.

Parameters

mode	• Mobile IP setting – 0 - Mobile IP off (simple IP only) – 1 - Mobile IP preferred – 2 - Mobile IP only

8.787.2 Field Documentation

8.787.2.1 uint32_t pack_wds_SetMobileIP_t::mode

8.788 pack_wds_SetMobileIPParameters_t Struct Reference

Data Fields

- char * pSPC
- uint32_t * pMode
- uint8_t * pRetryLimit
- uint8_t * pRetryInterval
- uint8_t * pReRegPeriod
- uint8_t * pReRegTraffic
- uint8_t * pHAAuthenticator
- uint8_t * pHA2002bis

8.788.1 Detailed Description

Mobile IP parameters information.

Parameters

pSPC	• NULL-terminated string representing six digit service programming code.
pMode	• Mode to be set (optional) – 0 - Mobile IP off (simple IP only) – 1 - Mobile IP preferred – 2 - Mobile IP only

pRetryLimit	• Registration retry attempt limit (optional)
pRetryInterval	• Registration retry attempt interval used to determine the time between registration attempts (optional)
pReRegPeriod	• Period (in minutes) to attempt re-registration before current registration expires (optional)
pReRegTraffic	• Re-registration only if traffic since last attempt (optional) – Zero - Disabled – NonZero - Enabled
pHA-Authenticator	• MH-HA authenticator calculator (optional) – Zero - Disabled – NonZero - Enabled
pHA2002bis	• MH-HA RFC 2002bis authentication instead of RFC2002 (optional) – Zero - Disabled – NonZero - Enabled

8.788.2 Field Documentation

8.788.2.1 uint8_t∗ pack_wds_SetMobileIPParameters_t::pHA2002bis

8.788.2.2 uint8_t∗ pack_wds_SetMobileIPParameters_t::pHAAuthenticator

8.788.2.3 uint32_t∗ pack_wds_SetMobileIPParameters_t::pMode

8.788.2.4 uint8_t∗ pack_wds_SetMobileIPParameters_t::pReRegPeriod

8.788.2.5 uint8_t∗ pack_wds_SetMobileIPParameters_t::pReRegTraffic

8.788.2.6 uint8_t∗ pack_wds_SetMobileIPParameters_t::pRetryInterval

8.788.2.7 uint8_t∗ pack_wds_SetMobileIPParameters_t::pRetryLimit

8.788.2.8 char∗ pack_wds_SetMobileIPParameters_t::pSPC

8.789 pack_wds_SetMobileIPProfile_t Struct Reference

Data Fields

- int8_t spc [10]
- uint8_t index
- uint8_t ∗ pEnabled
- uint32_t ∗ pAddress

- uint32_t * pPrimaryHA
- uint32_t * pSecondaryHA
- uint8_t * pRevTunneling
- int8_t * pNAI
- uint32_t * pHASPI
- uint32_t * pAAASPI
- int8_t * pMNHA
- int8_t * pMNAAA

8.789.1 Detailed Description

Sets the mobile IP parameters.

Parameters

spc	• Six digit service programming code string
index	• Index of the profile to modify
pEnabled	• (Optional) Enable profile? 0 - Disabled Nonzero - Enabled
pAddress	• (Optional) Home IPv4 address
pPrimaryHA	• (Optional) Primary home agent IPv4 address
pSecondaryHA	• (Optional) Secondary home agent IPv4 address
pRevTunneling	• (Optional) Enable reverse tunneling? 0 - Disabled Nonzero - Enabled
pNAI	• (Optional) Network access identifier string
pHASPI	• (Optional) Home agent security parameter index
pAAASPI	• (Optional) AAA server security parameter index
pMNHA	• (Optional) MN-HA key string
pMNAAA	• (Optional) MN-AAA key string

8.789.2 Field Documentation

8.789.2.1 uint8_t pack_wds_SetMobileIPProfile_t::index

8.789.2.2 uint32_t* pack_wds_SetMobileIPProfile_t::pAAASPI

8.789.2.3 uint32_t* pack_wds_SetMobileIPProfile_t::pAddress

8.789.2.4 uint8_t* pack_wds_SetMobileIPProfile_t::pEnabled

8.789.2.5 uint32_t* pack_wds_SetMobileIPProfile_t::pHASPI

8.789.2.6 int8_t* pack_wds_SetMobileIPProfile_t::pMNAAA

8.789.2.7 int8_t* pack_wds_SetMobileIPProfile_t::pMNHA

8.789.2.8 int8_t* pack_wds_SetMobileIPProfile_t::pNAI

8.789.2.9 uint32_t* pack_wds_SetMobileIPProfile_t::pPrimaryHA

8.789.2.10 uint8_t* pack_wds_SetMobileIPProfile_t::pRevTunneling

8.789.2.11 uint32_t* pack_wds_SetMobileIPProfile_t::pSecondaryHA

8.789.2.12 int8_t pack_wds_SetMobileIPProfile_t::spc[10]

8.790 pack_wds_SLQSCreateProfile_t Struct Reference

Data Fields

- uint8_t * pProfileId
- uint8_t * pProfileType
- wds_profileInfo * pCurProfile

8.790.1 Detailed Description

This structure contains pack create profile.

Parameters

pProfileId	• 1 to 16 for 3GPP profile (EM/MC73xx or earlier) • 1 to 24 for 3GPP profile (EM/MC74xx onwards) • 101 to 106 for 3GPP2 profile
pProfileType	• Identifies the technology type of the profile – 0x00 - 3GPP – 0x01 - 3GPP2 – NULL is not allowed
pCurProfile	• union of 3GPP and 3GPP2 profile • See wds_profileInfo

Note

- If profileID is NULL, 3GPP profile will be created and index will be assigned based on availability in device.
- If profileID is not NULL depending on pProfileType 3GPP/3GPP2 relevant profile will be created

8.790.2 Field Documentation

8.790.2.1 wds_profileInfo* pack_wds_SLQSCreateProfile_t::pCurProfile

8.790.2.2 uint8_t* pack_wds_SLQSCreateProfile_t::pProfileId

8.790.2.3 uint8_t* pack_wds_SLQSCreateProfile_t::pProfileType

8.791 pack_wds_SLQSDeleteProfile_t Struct Reference

Data Fields

- uint8_t profileType
- uint8_t profileIndex

8.791.1 Detailed Description

This structure contains the information about the profile to be deleted.

Parameters

profileType	• Identifies the type of profile – 0x00 - 3GPP • Note: Deletion of 3GPP2 profiles is not supported.
profileIndex	• Index of the configured profile to be deleted – Value between 1 - 16 (EM/MC73xx or earlier) – Value between 1 - 24 (EM/MC74xx onwards)

8.791.2 Field Documentation

8.791.2.1 uint8_t pack_wds_SLQSDeleteProfile_t::profileIndex

8.791.2.2 uint8_t pack_wds_SLQSDeleteProfile_t::profileType

8.792 pack_wds_SLQSGetCurrDataSystemStat_t Struct Reference

8.792.1 Detailed Description

This structure contains pack get current data system state information.

Parameters

NULL	• this is a dummy structure

8.793 pack_wds_SLQSGetDataBearerTechnology_t Struct Reference

8.793.1 Detailed Description

This structure contains pack get data bearer technology information.

Parameters

NULL	• this is a dummy structure

8.794 pack_wds_SLQSGetDUNCallInfo_t Struct Reference

Data Fields

- uint32_t Mask
- uint8_t * pReportConnStatus
- wds_transferStatInd * pTransferStatInd
- uint8_t * pReportDormStatus
- uint8_t * pReportDataBearerTech
- uint8_t * pReportChannelRate

8.794.1 Detailed Description

This structure contains the DUN Call Info Request parameters.

Parameters

Mask	• Mandatory parameter • Set the bits corresponding to the information requested to 1 • All other bits must be set to 0. • If any values are not available or applicable, the corresponding TLVs are not returned in the response. – Bit 0 - Connection Status – Bit 1 - Last call end reason – Bit 2 - Tx/Rx bytes OK – Bit 3 - Dormancy status – Bit 4 - Data bearer – Bit 5 - Channel rate – Bit 6 - Call active duration
pReportConn-Status	• Connect Status Indicator – 0 - Do not report – 1 - Report connection status and call end reason
pTransferStatInd	• See wds_transferStatInd for more information

pReportDorm-Status	• Dormancy Status Indicator – 0 - Do not report – 1 - Report traffic channel state of interface used for data connection
pReportData-BearerTech	• Current Data Bearer Technology Indicator – 0 - Do not report – 1 - Report radio interface used for data transfer when it changes
pReport-ChannelRate	• Channel Rate Indicator – 0 - Do not report – 1 - Report channel rate

8.794.2 Field Documentation

8.794.2.1 uint32_t pack_wds_SLQSGetDUNCallInfo_t::Mask

8.794.2.2 uint8_t* pack_wds_SLQSGetDUNCallInfo_t::pReportChannelRate

8.794.2.3 uint8_t* pack_wds_SLQSGetDUNCallInfo_t::pReportConnStatus

8.794.2.4 uint8_t* pack_wds_SLQSGetDUNCallInfo_t::pReportDataBearerTech

8.794.2.5 uint8_t* pack_wds_SLQSGetDUNCallInfo_t::pReportDormStatus

8.794.2.6 wds_transferStatInd* pack_wds_SLQSGetDUNCallInfo_t::pTransferStatInd

8.795 pack_wds_SLQSGetProfileSettings_t Struct Reference

Data Fields

- uint8_t ProfileId
- uint8_t ProfileType

8.795.1 Detailed Description

This structure contains pack get profile settings information.

Parameters

ProfileID	• 1 to 16 for 3GPP profile (EM/MC73xx or earlier) • 1 to 24 for 3GPP profile (EM/MC74xx onwards) • 101 to 106 for 3GPP2 profile
ProfileType	• Identifies the technology type of the profile – 0x00 - 3GPP – 0x01 - 3GPP2

Note

- If profileID is NULL, 3GPP profile will be fetched and index will be assigned based on availability in device.
- If profileID is not NULL depending on pProfileType 3GPP/3GPP2 relevant profile will be fetched

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

8.795.2 Field Documentation

8.795.2.1 uint8_t pack_wds_SLQSGetProfileSettings_t::ProfileId

8.795.2.2 uint8_t pack_wds_SLQSGetProfileSettings_t::ProfileType

8.796 pack_wds_SLQSGetRuntimeSettings_t Struct Reference

Data Fields

- uint32_t * pReqSettings

8.796.1 Detailed Description

This structure contains pack get runtime settings information

Parameters

pReqSettings	Requested Settings (Optional Parameter) • Set bits to 1, corresponding to requested information. All other bits must be set to 0. • If the values are not available, the corresponding TLVs are not returned in the response. • Absence of this mask TLV results in the device returning all of the available information corresponding to bits 0 through 12. • In cases where the information from bit 13 or greater is required, this TLV with all the necessary bits set must be present in the request. • Values – Bit 0 - Profile identifier – Bit 1 - Profile name – Bit 2 - PDP type – Bit 3 - APN name – Bit 4 - DNS address – Bit 5 - UMTS/GPRS granted QoS – Bit 6 - Username – Bit 7 - Authentication Protocol – Bit 8 - IP address – Bit 9 - Gateway info (address and subnet mask) – Bit 10 - PCSCF address using PCO flag – Bit 11 - PCSCF server address list – Bit 12 - PCSCF domain name list – Bit 13 - MTU – Bit 14 - domain name list – Bit 15 - IP family – Bit 16 - IM_CM flag – Bit 17 - Technology name – Bit 18 - Operator reserved PCO (Not Supported on MC/EM73xx)

8.796.2 Field Documentation

8.796.2.1 uint32_t* pack_wds_SLQSGetRuntimeSettings_t::pReqSettings

8.797 pack_wds_SLQSModifyProfile_t Struct Reference

Data Fields

- uint8_t * pProfileId
- uint8_t * pProfileType
- wds_profileInfo curProfile

8.797.1 Detailed Description

This structure contains pack modify profile information.

Parameters

pProfileId	• 1 to 16 for 3GPP profile (EM/MC73xx or earlier) • 1 to 24 for 3GPP profile (EM/MC74xx onwards) • 101 to 106 for 3GPP2 profile
pProfileType	• Identifies the technology type of the profile – 0x00 - 3GPP – 0x01 - 3GPP2 – NULL is not allowed
curProfile	• union of 3GPP and 3GPP2 profile • See wds_profileInfo

Note

- If profileID is NULL, 3GPP profile will be created and index will be assigned based on availability in device.
- If profileID is not NULL depending on pProfileType 3GPP/3GPP2 relevant profile will be created

8.797.2 Field Documentation

8.797.2.1 wds_profileInfo pack_wds_SLQSModifyProfile_t::curProfile

8.797.2.2 uint8_t* pack_wds_SLQSModifyProfile_t::pProfileId

8.797.2.3 uint8_t* pack_wds_SLQSModifyProfile_t::pProfileType

8.798 pack_wds_SLQSSet3GPPConfigItem_t Struct Reference

Data Fields

- uint16_t * pLTEAttachProfile
- uint16_t * pProfileList
- uint8_t * pDefaultPDNEnabled
- uint8_t * p3gppRelease
- uint16_t * pLTEAttachProfileList
- uint16_t LTEAttachProfileListLen

8.798.1 Detailed Description

This structure contains pack set 3GPP configuration item information.

Parameters

pLTEAttach-Profile	• Optional parameter • LTE Attach Profile – points to a single WORD Value indicating the attached LTE Profile – Optional parameter with possible values 1-16 (EM/MC73xx or earlier) • This setting is deprecated on MC/EM74xx

ProfileList	Profile List • an array of 4 profile configurations • Each element points to a single WORD value indicating profile • Optional parameter with possible values – 1 - 16 (MC/EM73xx and before) – 1 - 24 (MC/EM74xx and onwards) • function SLQSGet3GPPConfigItem() returns a default value 255 if no 3gpp configuration is present
pDefaultPDN-Enabled	• Optional parameter – 0 - disabled – 1 - enabled
p3gppRelease	3GPP release • Optional parameter – 0 - Release_99 – 1 - Release_5 – 2 - Release_6 – 3 - Release_7 – 4 - Release_8 • In 9x30 and onwards – 5 - Release 9 – 6 - Release 10 – 7 - Release 11
pLTEAttach-ProfileList	• pointer to WORD array indicating LTE Attach Profile List – Optional parameter – possible values: 1-24 – This setting is only supported for MC/EM74xx onwards – Please provide attach profiles in order of decreasing priority in this list.
LTEAttach-ProfileListLen	• Number of element in pLTEAttachProfileList – valid range: 1-24 – This setting is only supported for MC/EM74xx onwards

8.798.2 Field Documentation

8.798.2.1 uint16_t pack_wds_SLQSSet3GPPConfigItem_t::LTEAttachProfileListLen

8.798.2.2 uint8_t* pack_wds_SLQSSet3GPPConfigItem_t::p3gppRelease

8.798.2.3 uint8_t* pack_wds_SLQSSet3GPPConfigItem_t::pDefaultPDNEnabled

8.798.2.4 uint16_t* pack_wds_SLQSSet3GPPConfigItem_t::pLTEAttachProfile

8.798.2.5 uint16_t* pack_wds_SLQSSet3GPPConfigItem_t::pLTEAttachProfileList

8.798.2.6 uint16_t* pack_wds_SLQSSet3GPPConfigItem_t::pProfileList

8.799 pack_wds_SLQSSetIPFamilyPreference_t Struct Reference

Data Fields

- uint8_t IPFamilyPreference

8.799.1 Detailed Description

This structure contains pack set IP family preference information

Parameters

IPFamily-Preference	IP Family preference • PACK_WDS_IPV4 IP Version 4 • PACK_WDS_IPV6 IP Version 6

8.799.2 Field Documentation

8.799.2.1 uint8_t pack_wds_SLQSSetIPFamilyPreference_t::IPFamilyPreference

8.800 pack_wds_SLQSSetWdsEventCallback_t Struct Reference

Data Fields

- uint8_t dataBearer
- uint8_t dormancyStatus
- uint8_t mobileIP
- uint8_t transferStats
- uint8_t currentDataBearer
- uint8_t dataSystemStatus
- uint8_t dataBearerTechExt
- uint8_t interval

8.800.1 Detailed Description

This structure contains set WDS event callback information.

Parameters

dataBearer	data bearer
dormancyStatus	dormancy status
mobileIP	mobile IP
currentData-Bearer	current data bearer
dataSystem-Status	data system status
dataBearerTech-Ext	data Bearer Technology Extended
interval	interval

8.800.2 Field Documentation

8.800.2.1 uint8_t pack_wds_SLQSSetWdsEventCallback_t::currentDataBearer

8.800.2.2 uint8_t pack_wds_SLQSSetWdsEventCallback_t::dataBearer

8.800.2.3 uint8_t pack_wds_SLQSSetWdsEventCallback_t::dataBearerTechExt

8.800.2.4 uint8_t pack_wds_SLQSSetWdsEventCallback_t::dataSystemStatus

8.800.2.5 uint8_t pack_wds_SLQSSetWdsEventCallback_t::dormancyStatus

8.800.2.6 uint8_t pack_wds_SLQSSetWdsEventCallback_t::interval

8.800.2.7 uint8_t pack_wds_SLQSSetWdsEventCallback_t::mobileIP

8.800.2.8 uint8_t pack_wds_SLQSSetWdsEventCallback_t::transferStats

8.801 pack_wds_SLQSSGetDHCPv4ClientConfig_t Struct Reference

Data Fields

- wdsDhcpv4ProfileId * pProfileId

8.801.1 Detailed Description

This structure contain get DHCPv4 client configure.

Parameters

pProfileId	pointer to Profile Id structure • See wdsDhcpv4ProfileId

8.801.2 Field Documentation

8.801.2.1 wdsDhcpv4ProfileId* pack_wds_SLQSSGetDHCPv4ClientConfig_t::pProfileId

8.802 pack_wds_SLQSSSetDHCPv4ClientConfig_t Struct Reference

Data Fields

- wds_DHCPv4ProfileId * pProfileId
- wds_DHCPv4HWConfig * pHwConfig
- wds_DHCPv4OptionList * pRequestOptionList

8.802.1 Detailed Description

WDS SWI DHCPv4 Config Structure

Parameters

pProfileId	• pointer to Profile Id structure
pHWConfig	• pointer to HW Config structure
pRequestOption-List	• pointer to Option List structure to be sent in DHCP request

8.802.2 Field Documentation

8.802.2.1 wds_DHCPv4HWConfig∗ pack_wds_SLQSSSetDHCPv4ClientConfig_t::pHwConfig

8.802.2.2 wds_DHCPv4ProfileId∗ pack_wds_SLQSSSetDHCPv4ClientConfig_t::pProfileId

8.802.2.3 wds_DHCPv4OptionList∗ pack_wds_SLQSSSetDHCPv4ClientConfig_t::pRequestOptionList

8.803 pack_wds_SLQSSSetLoopback_t Struct Reference

Data Fields

- uint8_t loopbackMode
- uint8_t loopbackMultiplier

8.803.1 Detailed Description

This structure contains pack set loopback information.

Parameters

loopbackMode	• Loopback Mode. – 0 - Disable – 1 - Enable
loopback-Multiplier	• Loopback multiplier. Number of downlink bytes to send for each uplink byte.

8.803.2 Field Documentation

8.803.2.1 uint8_t pack_wds_SLQSSSetLoopback_t::loopbackMode

8.803.2.2 uint8_t pack_wds_SLQSSSetLoopback_t::loopbackMultiplier

8.804 pack_wds_SLQSStartDataSession_t Struct Reference

Data Fields

- uint8_t ∗ pTech

- uint32_t * pprofileid3gpp
- uint32_t * pprofileid3gpp2
- uint32_t * pAuth
- char * pUser
- char * pPass

8.804.1 Detailed Description

This structure contains pack Start Data Session Information.

Parameters

pTech	• Indicates the technology preference – 1 - UMTS – 2 - CDMA – 3 - eMBMS – 4 - Modem Link Label. Modem Link is an interface for transferring data between entities on AP and modem. • optional
pprofileid3gpp	• pointer to 3GPP profile id • optional
pprofileid3gpp2	• pointer to 3GPP2 profile id • optional
pAuth	• Authentication type, it can be PAP or CHAP • optional
pUser	• username for authentication process • optional
pPass	• password for authentication process • optional

8.804.2 Field Documentation

8.804.2.1 uint32_t* pack_wds_SLQSStartDataSession_t::pAuth

8.804.2.2 char* pack_wds_SLQSStartDataSession_t::pPass

8.804.2.3 uint32_t* pack_wds_SLQSStartDataSession_t::pprofileid3gpp

8.804.2.4 uint32_t* pack_wds_SLQSStartDataSession_t::pprofileid3gpp2

8.804.2.5 uint8_t* pack_wds_SLQSStartDataSession_t::pTech

8.804.2.6 char* pack_wds_SLQSStartDataSession_t::pUser

8.805 pack_wds_SLQSStopDataSession_t Struct Reference

Data Fields

- uint32_t * psid

8.805.1 Detailed Description

This structure contains pack stop data session information.

Parameters

psid	session id

8.805.2 Field Documentation

8.805.2.1 uint32_t* pack_wds_SLQSStopDataSession_t::psid

8.806 pack_wds_SLQSWdsSetEventReport_t Struct Reference

Data Fields

- uint8_t * pCurrChannelRateInd
- wds_TrStatInd * pTransferStatInd
- uint8_t * pDataBearerTechInd
- uint8_t * pDormancyStatusInd
- uint8_t * pMIPStatusInd
- uint8_t * pCurrDataBearerTechInd
- uint8_t * pDataCallStatusChangeInd
- uint8_t * pCurrPrefDataSysInd
- uint8_t * pEVDOPageMonPerChangeInd
- uint8_t * pDataSystemStatusChangeInd

8.806.1 Detailed Description

This structure contains the information about the Set Event Report Request parameters.

Parameters

pCurrChannel-RateInd	(optional) • Current Channel Rate Indicator. – 0 - Do not report – 1 - Report channel rate when it changes
pTransferStatInd	(optional) • See wds_TrStatInd for more information.
pDataBearer-TechInd	(optional) • Data Bearer Technology Indicator. – 0 - Do not report – 1 - Report radio interface used for data transfer when it changes

pDormancy-StatusInd	(optional) • Dormancy Status indicator. – 0 - Do not report – 1 - Report traffic channel state of interface used for data connection
pMIPStatusInd	(optional) • MIP Status Indicator. – 0 - Do not report – 1 - Report MIP status
pCurrData-BearerTechInd	(optional) • Current Data Bearer Technology Indicator. – 0 - Do not report – 1 - Report current data bearer technology when it changes
pDataCallStatus-ChangeInd	(optional) • Data Call Status Change Indicator. – 0 - Do not report – 1 - Report data call status change when it changes
pCurrPrefData-SysInd	(optional) • Current Preferred Data System Indicator. – 0 - Do not report – 1 - Report preferred data system when it changes
pEVDOPage-MonPerChange-Ind	(optional) • EV-DO Page Monitor Period Change Indicator. – 0 - Do not report – 1 - Report EV-DO page monitor period change event
pDataSystem-StatusChange-Ind	(optional) • Data System Status Change Indicator. – 0 - Do not report – 1 - Report data system status change event

Note

At least one parameter should be present.

8.806.2 Field Documentation

8.806.2.1 uint8_t* pack_wds_SLQSWdsSetEventReport_t::pCurrChannelRateInd

8.806.2.2 uint8_t* pack_wds_SLQSWdsSetEventReport_t::pCurrDataBearerTechInd

8.806.2.3 uint8_t* pack_wds_SLQSWdsSetEventReport_t::pCurrPrefDataSysInd

8.806.2.4 uint8_t* pack_wds_SLQSWdsSetEventReport_t::pDataBearerTechInd

8.806.2.5 uint8_t* pack_wds_SLQSWdsSetEventReport_t::pDataCallStatusChangeInd

8.806.2.6 uint8_t* pack_wds_SLQSWdsSetEventReport_t::pDataSystemStatusChangeInd

8.806.2.7 uint8_t* pack_wds_SLQSWdsSetEventReport_t::pDormancyStatusInd

8.806.2.8 uint8_t* pack_wds_SLQSWdsSetEventReport_t::pEVDOPageMonPerChangeInd

8.806.2.9 uint8_t* pack_wds_SLQSWdsSetEventReport_t::pMIPStatusInd

8.806.2.10 wds_TrStatInd* pack_wds_SLQSWdsSetEventReport_t::pTransferStatInd

8.807 pack_wds_SLQSWdsSwiPDPRuntimeSettings_t Struct Reference

Data Fields

- uint8_t contextId
- uint8_t contextType

8.807.1 Detailed Description

This structure contains the PDP Runtime Settings Request parameters.

Parameters

contextId	• Context Identifier
contextType	• Identifies technology type – 0 - 3GPP – 1 - 3GPP2

8.807.2 Field Documentation

8.807.2.1 uint8_t pack_wds_SLQSWdsSwiPDPRuntimeSettings_t::contextId

8.807.2.2 uint8_t pack_wds_SLQSWdsSwiPDPRuntimeSettings_t::contextType

8.808 PackCreateProfileOut Struct Reference

Data Fields

- uint8_t ProfileType
- uint8_t ProfileIndex
- uint16_t ExtErrorCode

8.808.1 Detailed Description

This structure contains out parameter Information

Parameters

ProfileType	• Identifies the type of profile 0x00 = 3GPP 0x01 = 3GPP2
ProfileIndex	• Index identifying the profile that was created
ExtErrorCode	• The extended error code received from DS Profile subsystem

8.808.2 Field Documentation

8.808.2.1 uint16_t PackCreateProfileOut::ExtErrorCode

8.808.2.2 uint8_t PackCreateProfileOut::ProfileIndex

8.808.2.3 uint8_t PackCreateProfileOut::ProfileType

8.809 packgetDyingGaspCfg Struct Reference

Data Fields

- uint8_t ∗ pDestSMSNum
- uint8_t ∗ pDestSMSContent

8.809.1 Detailed Description

This struture contains the TLV required to get the Dysing GASP Config.

Parameters

pDestSMSNum[IN]	• SMS Destination Number as string of 8 bit ASCII Characters Max 20 chars. • Optional parameter.
pDestSMSContent[IN]	• SMS COntent as a string of 8 bit ASCII text characters Max 160 chars. • Optional parameter.

8.809.2 Field Documentation

8.809.2.1 uint8_t∗ packgetDyingGaspCfg::pDestSMSContent

8.809.2.2 uint8_t∗ packgetDyingGaspCfg::pDestSMSNum

8.810 packgetDyingGaspStatistics Struct Reference

Data Fields

- uint32_t ∗ pTimeStamp

- uint8_t * pSMSAttemptedFlag

8.810.1 Detailed Description

This structure contains Get Dysing GASP Statistics

Parameters

pTimeStamp[OUT]	• Timestamp of the last time power loss was detected and Dying Gasp feature was triggered. • UTC time in seconds since Jan 06, 1980 (GPS Epoch).
pSMSAttemptedFlag[OUT]	• Indicates whether device attempted to send SMS in the last power loss event. • 0 - SMS not attempted • 1 - SMS attempted • This only indicates device sent the SMS but does not guarantee network delivery.

8.810.2 Field Documentation

8.810.2.1 uint8_t* packgetDyingGaspStatistics::pSMSAttemptedFlag

8.810.2.2 uint32_t* packgetDyingGaspStatistics::pTimeStamp

8.811 PCMparams Struct Reference

Data Fields

- BYTE iFaceTabLen
- BYTE iFaceTab [255]

8.811.1 Detailed Description

This structure contains the PCM parameters.

Parameters

iFaceTabLen	• Number of sets of iface table
iFaceTab	• Physical Interface Parameters • See qaGobiApiTableSwiAudio.h for more information on physical interface parameters

8.811.2 Field Documentation

8.811.2.1 BYTE PCMparams::iFaceTab[255]

8.811.2.2 BYTE PCMparams::iFaceTabLen

8.812 PCSCFFQDNAddress Struct Reference

Data Fields

- WORD fqdnLen
- CHAR fqdnAddr [256]

8.812.1 Detailed Description

This structure contains the PCSCFFQDNAddress Information

Parameters

fqdnLen	• length of the received FQDN address
fqdnAddr	• FQDN address(Max 256 characters)

8.812.2 Field Documentation

8.812.2.1 CHAR PCSCFFQDNAddress::fqdnAddr[256]

8.812.2.2 WORD PCSCFFQDNAddress::fqdnLen

8.813 PCSCFFQDNAddressList Struct Reference

Data Fields

- BYTE numInstances
- struct PCSCFFQDNAddress pcsfFQDNAddress [10]

8.813.1 Detailed Description

This structure contains the PCSCFFQDNAddressList Information

Parameters

numInstances	• Number of FQDN addresses received
pcsfFQDN-Address	• FQDN address information(Max 10 addresses)

8.813.2 Field Documentation

8.813.2.1 BYTE PCSCFFQDNAddressList::numInstances

8.813.2.2 struct PCSCFFQDNAddress PCSCFFQDNAddressList::pcsfFQDNAddress[10]

8.814 PCSCFIPv4ServerAddressList Struct Reference

Data Fields

- BYTE numInstances
- ULONG pscsfIPv4Addr [64]

8.814.1 Detailed Description

This structure contains the PCSCFIPv4ServerAddressList Information

Parameters

numInstances	• number of address following
pscsfIPv4Addr	• P-CSCF IPv4 server addresses(Max 16 address, 4 bytes each)

8.814.2 Field Documentation

8.814.2.1 BYTE PCSCFIPv4ServerAddressList::numInstances

8.814.2.2 ULONG PCSCFIPv4ServerAddressList::pscsfIPv4Addr[64]

8.815 PDSPositionData Struct Reference

Data Fields

- ULONGLONG * pTimeStamp
- ULONGLONG * pLatitude
- ULONGLONG * pLongitude
- ULONG * pAltitudeWrtEllipsoid
- ULONG * pAltitudeWrtSealevel
- ULONG * pHorizontalUncCircular
- ULONG * pVerticalUnc
- BYTE * pHorizontalConfidence
- BYTE * pVerticalConfidence
- BYTE * pPositionSource
- BYTE * pTimeType

8.815.1 Detailed Description

Position Data Parameters from the external source to be injected to PDS engine.

Parameters

pTimeStamp	• Timestamp of the injected position in msec. The time can be of type UTC, GPS, or Age and is defined in the pTimeType parameter. If the pTimeType is not present, the timestamp shall be assumed to be UTC time

pLatitude	• Latitude position referenced to the WGS-84 reference ellipsoid, counting positive angles north of the equator and negative angles south of the equator. Value (in decimal degrees) in the range from -90 degrees to +90 degrees.Value in double float format (refer toIEEE Std 754-1985)
pLongitude	• Longitude position referenced to the WGS-84 reference ellipsoid, counting positive angles east of the Greenwich Meridian and negative angles west of Greenwich meridian. Value (in decimal degrees) in the range from -180 degrees to +180 degrees.
pAltitudeWrt-Ellipsoid	• Height above the WGS-84 reference ellipsoid. Value conveys height (in meters). When injecting altitude information, the control point should include either this parameter or the pAltitudeWrt-Sealevel parameter. Value in single float format (refer to IEEE Std 754-1985)
pAltitudeWrt-Sealevel	• Height of MS above the mean sea level in units (in meters). When injecting altitude information, the control point should include either this parameter or the pAltitudeWrtEllipsoid parameter. Value in single float format (refer to IEEE Std 754-1985)
pHorizontalUnc-Circular	• Circular horizontal uncertainty (in meters). This parameter must be included if the latitude and longitude parameters are specified. Value in single float format (refer to IEEE Std 754-1985)
pVerticalUnc	• Vertical uncertainty (in meters). This parameter must be included if one of the altitude parameter are specified.Value in single float format (refer to IEEE Std 754-1985)
pHorizontal-Confidence	• Confidence value of the location horizontal uncertainty, specified as percentage, 1 to 100. This parameter must be included if the latitude and longitude parameters are specified.
pVertical-Confidence	• Confidence value of the location vertical uncertainty, specified as percentage, 1 to 100. This parameter must be included if one of the altitude paramters are specified.
pPositionSource	• Source of injected position: – 0x00 - Unknown – 0x01 - GPS – 0x02 - Cell ID – 0x03 - Enhanced cell ID – 0x04 - WiFi – 0x05 - Terrestrial – 0x06 - Terrestrial hybrid – 0x07 - Other
pTimeType	• Defines the time value set in the pTimeStamp parameter. – 0x00 - UTC Time: starting Jan 1, 1970 – 0x01 - GPS Time: starting Jan 6, 1980 – 0x02 - Age: Age of position information

8.815.2 Field Documentation

8.815.2.1 ULONG* PDSPositionData::pAltitudeWrtEllipsoid

8.815.2.2 ULONG* PDSPositionData::pAltitudeWrtSealevel

8.815.2.3 BYTE* PDSPositionData::pHorizontalConfidence

8.815.2.4 ULONG* PDSPositionData::pHorizontalUncCircular

8.815.2.5 ULONGLONG* PDSPositionData::pLatitude

8.815.2.6 ULONGLONG* PDSPositionData::pLongitude

8.815.2.7 BYTE* PDSPositionData::pPositionSource

8.815.2.8 ULONGLONG* PDSPositionData::pTimeStamp

8.815.2.9 BYTE* PDSPositionData::pTimeType

8.815.2.10 BYTE* PDSPositionData::pVerticalConfidence

8.815.2.11 ULONG* PDSPositionData::pVerticalUnc

8.816 PDSPosMethodStateReq Struct Reference

Data Fields

- BYTE * pXtraTimeState
- BYTE * pXtraDataState
- BYTE * pWifiState

8.816.1 Detailed Description

Parameters to Set state of positioning method for a device.

Parameters

pXtraTimeState	• XTRA Time Position Method State. • Values: – 0x00 - Disable – 0x01 - Enable
pXtraDataState	• XTRA Data Position Method State. • Values: – 0x00 - Disable – 0x01 - Enable

Latitude	• WiFi Position Method State • Values: – 0x00 - Disable – 0x01 - Enable

8.816.2 Field Documentation

8.816.2.1 BYTE* PDSPosMethodStateReq::pWifiState

8.816.2.2 BYTE* PDSPosMethodStateReq::pXtraDataState

8.816.2.3 BYTE* PDSPosMethodStateReq::pXtraTimeState

8.817 peerNumberInfo Struct Reference

Data Fields

- BYTE callID
- BYTE numPI
- BYTE numSI
- BYTE numType
- BYTE numPlan
- BYTE numLen
- BYTE number [81]

8.817.1 Detailed Description

This structure contains information for Connected Peer Numbers.

Parameters

callID	• Unique call identifier for the call.
numPI	• Number presentation indicator. – 0x00 - PRESENTATION_ALLOWED - Allowed presentation – 0x01 - PRESENTATION_RESTRICTED - Restricted presentation – 0x02 - PRESENTATION_NUM_UNAVAILABLE - Unavailable presentation – 0x04 - PRESENTATION_PAYPHONE - Payphone presentation (GSM/UMTS specific) – 0xFF - Not Available

numSI	• Number screening indicator. – 0x00 - QMI_VOICE_SI_USER_PROVIDED_NOT_SCREENED - Provided user is not screened – 0x01 - QMI_VOICE_SI_USER_PROVIDED_VERIFIED_PASSED - Provided user passed verification – 0x02 - QMI_VOICE_SI_USER_PROVIDED_VERIFIED_FAILED - Provided user failed verification – 0x03 - QMI_VOICE_SI_NETWORK_PROVIDED - Provided network
numType	• Number type. – 0x00 - QMI_VOICE_NUM_TYPE_UNKNOWN - Unknown – 0x01 - QMI_VOICE_NUM_TYPE_INTERNATIONAL - International – 0x02 - QMI_VOICE_NUM_TYPE_NATIONAL - National – 0x03 - QMI_VOICE_NUM_TYPE_NETWORK_SPECIFIC - Network-specific – 0x04 - QMI_VOICE_NUM_TYPE_SUBSCRIBER - Subscriber – 0x05 - QMI_VOICE_NUM_TYPE_RESERVED - Reserved – 0x06 - QMI_VOICE_NUM_TYPE_ABBREVIATED - Abbreviated – 0x07 - QMI_VOICE_NUM_TYPE_RESERVED_EXTENSION - Reserved extension
numPlan	• Number plan. – 0x00 - QMI_VOICE_NUM_PLAN_UNKNOWN - Unknown – 0x01 - QMI_VOICE_NUM_PLAN_ISDN - ISDN – 0x03 - QMI_VOICE_NUM_PLAN_DATA - Data – 0x04 - QMI_VOICE_NUM_PLAN_TELEX - Telex – 0x08 - QMI_VOICE_NUM_PLAN_NATIONAL - National – 0x09 - QMI_VOICE_NUM_PLAN_PRIVATE - Private – 0x0B - QMI_VOICE_NUM_PLAN_RESERVED_CTS - Reserved cordless telephony system – 0x0F - QMI_VOICE_NUM_PLAN_RESERVED_EXTENSION - Reserved extension
numLen	• Provides the length of number which follow.
number[MAX_CALL_NO_LEN]	• number of numLen length, NULL terminated.

8.817.2 Field Documentation

8.817.2.1 BYTE peerNumberInfo::callID

8.817.2.2 BYTE peerNumberInfo::number[81]

8.817.2.3 BYTE peerNumberInfo::numLen

8.817.2.4 BYTE peerNumberInfo::numPI

8.817.2.5 BYTE peerNumberInfo::numPlan

8.817.2.6 BYTE peerNumberInfo::numSI

8.817.2.7 BYTE peerNumberInfo::numType

8.818 personalizationStatus Struct Reference

Data Fields

- BYTE numFeatures
- BYTE feature [12]
- BYTE verifyLeft [12]
- BYTE unblockLeft [12]

8.818.1 Detailed Description

This structure contains the information about the card result.

Parameters

numFeatures	• Number of active personalization features. The following block is repeated for each feature.
feature	• Indicates the personalization feature to deactivate or unblock. Valid values: – 0 - GW network personalization – 1 - GW network subset personalization – 2 - GW service provider personalization – 3 - GW corporate personalization – 4 - GW UIM personalization – 5 - 1X network type 1 personalization – 6 - 1X network type 2 personalization – 7 - 1X HRPD personalization – 8 - 1X service provider personalization – 9 - 1X corporate personalization – 10 - 1X RUIM personalization
verifyLeft	• Number of the remaining attempts to verify the personalization feature.
unblockLeft	• Number of the remaining attempts to unblock the personalization feature.

8.818.2 Field Documentation

8.818.2.1 BYTE personalizationStatus::feature[12]

8.818.2.2 BYTE personalizationStatus::numFeatures

8.818.2.3 BYTE personalizationStatus::unblockLeft[12]

8.818.2.4 BYTE personalizationStatus::verifyLeft[12]

8.819 PhyCaAggPcellInfo Struct Reference

Data Fields

- int pci
- int freq
- NAS_LTE_CPHY_CA_BW_NRB dl_bw_value
- int iLTEbandValue
- BYTE TlvPresent

8.819.1 Detailed Description

This structure contains the parameters for Physical Carrier aggregation of Pcell Information.

Parameters

pci	• Physical cell ID of the SCell Range. • Range for ID values: 0 to 503.
freq	• Frequency of the absolute cell Range. • Range for ID values: 0 to 65535.
dl_bw_value	• Downlink Bandwidth Values. • See NAS_LTE_CPHY_CA_BW_NRB for more information.
scell_state	• Scell state Values. • See NAS_LTE_CPHY_SCELL_STATE for more information.
TlvPresent	• Tlv Present.

8.819.2 Field Documentation

8.819.2.1 NAS_LTE_CPHY_CA_BW_NRB PhyCaAggPcellInfo::dl_bw_value

8.819.2.2 int PhyCaAggPcellInfo::freq

8.819.2.3 int PhyCaAggPcellInfo::iLTEbandValue

8.819.2.4 int PhyCaAggPcellInfo::pci

8.819.2.5 BYTE PhyCaAggPcellInfo::TlvPresent

8.820 PhyCaAggScellDlBw Struct Reference

Data Fields

- NAS_LTE_CPHY_CA_BW_NRB dl_bw_value

- BYTE TlvPresent

8.820.1 Detailed Description

This structure contains the parameters for Physical Carrier aggregation Downlink Bandwidth of Scell.

Parameters

dl_bw_value	• Downlink Bandwidth Values. • See NAS_LTE_CPHY_CA_BW_NRB for more information.

8.820.2 Field Documentation

8.820.2.1 NAS_LTE_CPHY_CA_BW_NRB PhyCaAggScellDlBw::dl_bw_value

8.820.2.2 BYTE PhyCaAggScellDlBw::TlvPresent

8.821 PhyCaAggScellIndex Struct Reference

Data Fields

- BYTE scell_idx
- BYTE TlvPresent

8.821.1 Detailed Description

This structure contains the parameters for Physical Carrier aggregation of Scell Index.

Parameters

scell_idx	• Physical cell ID of the SCell Range. • Range for ID values: 0 to 503.
TlvPresent	• Tlv Present.

8.821.2 Field Documentation

8.821.2.1 BYTE PhyCaAggScellIndex::scell_idx

8.821.2.2 BYTE PhyCaAggScellIndex::TlvPresent

8.822 PhyCaAggScellIndType Struct Reference

Data Fields

- int pci
- int freq

- NAS_LTE_CPHY_SCELL_STATE scell_state
- BYTE TlvPresent

8.822.1 Detailed Description

This structure contains the parameters for Physical Carrier aggregation of Scell Indeicator Type.

Parameters

pci	• Physical cell ID of the SCell Range. • Range for ID values: 0 to 503.
freq	• Frequency of the absolute cell Range. • Range for ID values: 0 to 65535.
scell_state	• Scell state Values. • See NAS_LTE_CPHY_SCELL_STATE for more information.
TlvPresent	• Tlv Present.

8.822.2 Field Documentation

8.822.2.1 int PhyCaAggScellIndType::freq

8.822.2.2 int PhyCaAggScellIndType::pci

8.822.2.3 NAS_LTE_CPHY_SCELL_STATE PhyCaAggScellIndType::scell_state

8.822.2.4 BYTE PhyCaAggScellIndType::TlvPresent

8.823 PhyCaAggScellInfo Struct Reference

Data Fields

- int pci
- int freq
- NAS_LTE_CPHY_CA_BW_NRB dl_bw_value
- int iLTEbandValue
- NAS_LTE_CPHY_SCELL_STATE scell_state
- BYTE TlvPresent

8.823.1 Detailed Description

This structure contains the parameters for Physical Carrier aggregation of Scell Information.

Parameters

pci	• Physical cell ID of the SCell Range. • Range for ID values: 0 to 503.
freq	• Frequency of the absolute cell Range. • Range for ID values: 0 to 65535.
dl_bw_value	• Downlink Bandwidth Values. • See NAS_LTE_CPHY_CA_BW_NRB for more information.

iLTEbandValue	• Band value. • Range for LTE Band class 120 to 160. – 120 - LTE E-UTRA Operating Band 1 – 121 - LTE E-UTRA Operating Band 2 – 122 - LTE E-UTRA Operating Band 3 – 123 - LTE E-UTRA Operating Band 4 – 124 - LTE E-UTRA Operating Band 5 – 125 - LTE E-UTRA Operating Band 6 – 126 - LTE E-UTRA Operating Band 7 – 127 - LTE E-UTRA Operating Band 8 – 128 - LTE E-UTRA Operating Band 9 – 129 - LTE E-UTRA Operating Band 10 – 130 - LTE E-UTRA Operating Band 11 – 131 - LTE E-UTRA Operating Band 12 – 132 - LTE E-UTRA Operating Band 13 – 133 - LTE E-UTRA Operating Band 14 – 134 - LTE E-UTRA Operating Band 17 – 135 - LTE E-UTRA Operating Band 33 – 136 - LTE E-UTRA Operating Band 34 – 137 - LTE E-UTRA Operating Band 35 – 138 - LTE E-UTRA Operating Band 36 – 139 - LTE E-UTRA Operating Band 37 – 140 - LTE E-UTRA Operating Band 38 – 141 - LTE E-UTRA Operating Band 39 – 142 - LTE E-UTRA Operating Band 40 – 143 - LTE E-UTRA Operating Band 18 – 144 - LTE E-UTRA Operating Band 19 – 145 - LTE E-UTRA Operating Band 20 – 146 - LTE E-UTRA Operating Band 21 – 147 - LTE E-UTRA Operating Band 24 – 148 - LTE E-UTRA Operating Band 25 – 149 - LTE E-UTRA Operating Band 41 – 150 - LTE E-UTRA Operating Band 42 – 151 - LTE E-UTRA Operating Band 43 – 152 - LTE E-UTRA Operating Band 23 – 153 - LTE E-UTRA Operating Band 26 – 154 - LTE E-UTRA Operating Band 32 – 155 - LTE E-UTRA Operating Band 125 – 156 - LTE E-UTRA Operating Band 126 – 157 - LTE E-UTRA Operating Band 127 – 158 - LTE E-UTRA Operating Band 28 – 159 - LTE E-UTRA Operating Band 29 – 160 - LTE E-UTRA Operating Band 30
scell_state	• Scell state Values. • See NAS_LTE_CPHY_SCELL_STATE for more information.

TlvPresent	• Tlv Present.

8.823.2 Field Documentation

8.823.2.1 NAS_LTE_CPHY_CA_BW_NRB PhyCaAggScellInfo::dl_bw_value

8.823.2.2 int PhyCaAggScellInfo::freq

8.823.2.3 int PhyCaAggScellInfo::iLTEbandValue

8.823.2.4 int PhyCaAggScellInfo::pci

8.823.2.5 NAS_LTE_CPHY_SCELL_STATE PhyCaAggScellInfo::scell_state

8.823.2.6 BYTE PhyCaAggScellInfo::TlvPresent

8.824 PilotSetData Struct Reference

Data Fields

- BYTE NumPilots
- PilotSetParams * pPilotSetInfo

8.824.1 Detailed Description

This structure contains Pilot Set Data

Parameters

NumPilots(IN/OUT)	• Number of Pilot Sets • As input specifies number of sets of parameter pPilotSetInfo for which memory has been assigned • As output specifies the actual number of sets of parameter pPilotSetInfo returned by device
pPilotSetInfo	• Pilot Set Parameters • See PilotSetParams for more information.

note A buffer under sized error is returned if the number of sets of pPilotSetInfo returned by the device is greater than the value in NumPilots input parameter.

8.824.2 Field Documentation

8.824.2.1 BYTE PilotSetData::NumPilots

8.824.2.2 PilotSetParams* PilotSetData::pPilotSetInfo

8.825 PilotSetParams Struct Reference

Data Fields

- ULONG PilotType
- WORD PilotPN
- WORD PilotStrength

8.825.1 Detailed Description

This structure contains Pilot Set parameters

Parameters

PilotType	• 0x00 - NAS_HRPD_PILOT_CURR_ACT_PLT Current Active Pilot • 0x01 - NAS_HRPD_PILOT_NEIGHBOR_PLT Neighbor pilot information
PilotPN	• Pilot PN sequence offset index
PilotStrength	• Strength of the pilot (in dB)

8.825.2 Field Documentation

8.825.2.1 WORD PilotSetParams::PilotPN

8.825.2.2 WORD PilotSetParams::PilotStrength

8.825.2.3 ULONG PilotSetParams::PilotType

8.826 pktErrRate Struct Reference

Data Fields

- WORD multiplier
- WORD exponent

8.826.1 Detailed Description

This structure contains the IP flow packet error rate

Parameters

multiplier	Factor m in calculating packet error rate: E = m∗10∗∗(-p)
exponent	Factor p in calculating packet error rate (see above)

8.826.2 Field Documentation

8.826.2.1 WORD pktErrRate::exponent

8.826.2.2 WORD pktErrRate::multiplier

8.827 PlmnID Struct Reference

Data Fields

- WORD mcc
- WORD mnc
- BOOL pcsDigit
- BYTE TlvPresent

8.827.1 Detailed Description

This structure contains PLMN ID information

Parameters

mcc	• A 16-bit integer representation of MCC. Range: 0 to 999
mnc	• A 16-bit integer representation of MNC. Range: 0 to 999
pcsDigit	• This field is used to interpret the length of the corresponding MNC reported in the TLVs (in this table) with an mnc or mobile_network_code field. Values: – TRUE - MNC is a three-digit value; for example, a reported value of 90 corresponds to an MNC value of 090 – FALSE - MNC is a two-digit value; for example, a reported value of 90 corresponds to an MNC value of 90
TlvPresent	• Tlv Present or not

8.827.2 Field Documentation

8.827.2.1 WORD PlmnID::mcc

8.827.2.2 WORD PlmnID::mnc

8.827.2.3 BOOL PlmnID::pcsDigit

8.827.2.4 BYTE PlmnID::TlvPresent

8.828 PLMNNetworkName Struct Reference

Data Fields

- BYTE numInstance
- PLMNNetworkNameData PLMNNetName [255]

8.828.1 Detailed Description

This structure contains PLMN Network Name as defined in 3GPP TS 24.008 (Section 10.5.3.5a) from multiple sources.

Parameters

numInstance	• Number of sets of the elements.
PLMNNetName	• Refer PLMNNetworkNameData for details (Optional).

8.828.2 Field Documentation

8.828.2.1 BYTE PLMNNetworkName::numInstance

8.828.2.2 PLMNNetworkNameData PLMNNetworkName::PLMNNetName[255]

8.829 PLMNNetworkNameData Struct Reference

Data Fields

- BYTE codingScheme
- BYTE countryInitials
- BYTE longNameSpareBits
- BYTE shortNameSpareBits
- BYTE longNameLen
- BYTE longName [255]
- BYTE shortNameLen
- BYTE shortName [255]

8.829.1 Detailed Description

This structure contains PLMN Network Name Data from multiple sources.

Parameters

codingScheme	• Coding scheme: – 0 - CODING_SCHEME_CELL_BROADCAST_GSM - Cell broadcast data coding scheme, GSM default alphabet, language unspecified;defined in 3GPP TS 23.038. – 1 - CODING_SCHEME_UCS2 - UCS2 (16 bit);defined in ISO/IEC 10646
countryInitials	• Country's initials: – 0 - COUNTRY_INITIALS_DO_NOT_ADD - MS should not add the letters for the country's initials to the text string. – 1 - COUNTRY_INITIALS_ADD - MS should add the letters for the country's initials and a separator, e.g., a space, to the text string.

longNameSpare-Bits	• Long Name Spare Bits: – 1 - SPARE_BITS_8 - Bit 8 is spare and set to 0 in octet n – 2 - SPARE_BITS_7_TO_8 - Bits 7 and 8 are spare and set to 0 in octet n. – 3 - SPARE_BITS_6_TO_8 - Bits 6 to 8 (inclusive) are spare and set to 0 in octet n. – 4 - SPARE_BITS_5_TO_8 - Bits 5 to 8 (inclusive) are spare and set to 0 in octet n. – 5 - SPARE_BITS_4_TO_8 - Bits 4 to 8 (inclusive) are spare and set to 0 in octet n. – 6 - SPARE_BITS_3_TO_8 - Bits 3 to 8 (inclusive) are spare and set to 0 in octet n. – 7 - SPARE_BITS_2_TO_8 - Bits 2 to 8 (inclusive) are spare and set to 0 in octet n. – 0 - SPARE_BITS_UNKNOWN - Carries no information about the number of spare bits in octet n.
shortName-SpareBits	• Short Name Spare Bits: – 1 - SPARE_BITS_8 - Bit 8 is spare and set to 0 in octet n. – 2 - SPARE_BITS_7_TO_8 - Bits 7 and 8 are spare and set to 0 in octet n. – 3 - SPARE_BITS_6_TO_8 - Bits 6 to 8 (inclusive) are spare and set to 0 in octet n. – 4 - SPARE_BITS_5_TO_8 - Bits 5 to 8 (inclusive) are spare and set to 0 in octet n. – 5 - SPARE_BITS_4_TO_8 - Bits 4 to 8 (inclusive) are spare and set to 0 in octet n. – 6 - SPARE_BITS_3_TO_8 - Bits 3 to 8 (inclusive) are spare and set to 0 in octet n. – 7 - SPARE_BITS_2_TO_8 - Bits 2 to 8 (inclusive) are spare and set to 0 in octet n. – 0 - SPARE_BITS_UNKNOWN - Carries no information about the number of spare bits in octet n.
longNameLen	• It provides the length of long name.
longName	• Long name string in coding_scheme.
shortNameLen	• It provides the length of short name.
shortName	• Short name string in coding_scheme.

8.829.2 Field Documentation

8.829.2.1 BYTE PLMNNetworkNameData::codingScheme

8.829.2.2 BYTE PLMNNetworkNameData::countryInitials

8.829.2.3 BYTE PLMNNetworkNameData::longName[255]

8.829.2.4 BYTE PLMNNetworkNameData::longNameLen

8.829.2.5 BYTE PLMNNetworkNameData::longNameSpareBits

8.829.2.6 BYTE PLMNNetworkNameData::shortName[255]

8.829.2.7 BYTE PLMNNetworkNameData::shortNameLen

8.829.2.8 BYTE PLMNNetworkNameData::shortNameSpareBits

8.830 Port Struct Reference

Data Fields

- WORD port
- WORD range

8.830.1 Detailed Description

This structure contains the Port Filter

Parameters

port	port value of the filter
range	range specifies the number of ports to be included in the filter starting from port; filter will match if port in the IP packet lies between port and (port + range) Range value of 0 implies that only one value of the port is valid, as specified by the port

8.830.2 Field Documentation

8.830.2.1 WORD Port::port

8.830.2.2 WORD Port::range

8.831 PowerSaveModeConfigReq Struct Reference

Data Fields

- BYTE * pPsmEnableState
- ULONG * pActiveTimer
- ULONG * pPeriodicUpdateTimer

8.831.1 Detailed Description

This structure contains the Power Save Mode (PSM) configuration parameter.

Parameters

pPsmEnable-State	[Optional] • PSM Enable State • Values – 0 - PSM is not enabled – 1 - PSM is enabled
pActiveTimer	[Optional] • Active Timer • PSM active timer value (in seconds). • ActiveTimer encoding is the GPRS timer 2 encoding specified in Table 10.5.172 of 3GPP TS 24.008.

pPeriodic-UpdateTimer	[Optional] • Periodic Update Timer • PSM periodic update timer value (in seconds) • Periodic Update Timer encoding is the GPRS timer 3 encoding specified in Table 10.5.163a of 3GPP TS 24.008.

8.831.2 Field Documentation

8.831.2.1 ULONG∗ PowerSaveModeConfigReq::pActiveTimer

8.831.2.2 ULONG∗ PowerSaveModeConfigReq::pPeriodicUpdateTimer

8.831.2.3 BYTE∗ PowerSaveModeConfigReq::pPsmEnableState

8.832 PowerSaveModeConfigResp Struct Reference

Data Fields

- PSMEnableStateTlv ∗ pPsmEnableState
- PSMDurationThresholdTlv ∗ pDurationThreshold
- PSMDurationDueToOOSTlv ∗ pDurationDueToOOS
- PSMRandomizationWindowTlv ∗ pRandomizationWindow
- PSMActiveTimerTlv ∗ pActiveTimer
- PSMPeriodicUpdateTimerTlv ∗ pPeriodicUpdateTimer
- PSMEarlyWakeupTimeTlv ∗ pEarlyWakeupTime

8.832.1 Detailed Description

This structure contains the Power Save Mode (PSM) configuration parameter.

Parameters

pPsmEnable-State	[Optional] • See PSMEnableStateTlv for more information
pDuration-Threshold	[Optional] • See PSMDurationThresholdTlv for more information
pDurationDueTo-OOS	[Optional] • See PSMDurationDueToOOSTlv for more information
pRandomization-Window	[Optional] • See PSMRandomizationWindowTlv for more information
pActiveTimer	[Optional] • See PSMActiveTimerTlv for more information
pPeriodic-UpdateTimer	[Optional] • See PSMPeriodicUpdateTimerTlv for more information
pEarlyWakeup-Time	[Optional] • See PSMEarlyWakeupTimeTlv for more information

8.832.2 Field Documentation

8.832.2.1 PSMActiveTimerTlv* PowerSaveModeConfigResp::pActiveTimer

8.832.2.2 PSMDurationDueToOOSTlv* PowerSaveModeConfigResp::pDurationDueToOOS

8.832.2.3 PSMDurationThresholdTlv* PowerSaveModeConfigResp::pDurationThreshold

8.832.2.4 PSMEarlyWakeupTimeTlv* PowerSaveModeConfigResp::pEarlyWakeupTime

8.832.2.5 PSMPeriodicUpdateTimerTlv* PowerSaveModeConfigResp::pPeriodicUpdateTimer

8.832.2.6 PSMEnableStateTlv* PowerSaveModeConfigResp::pPsmEnableState

8.832.2.7 PSMRandomizationWindowTlv* PowerSaveModeConfigResp::pRandomizationWindow

8.833 precisionDilution_s Struct Reference

Data Fields

- ULONG PDOP
- ULONG HDOP
- ULONG VDOP

8.833.1 Detailed Description

This structure contains Dilution of precision associated with this position.

Parameters

PDOP	• Position dilution of precision. • Range - 1 (highest accuracy) to 50 (lowest accuracy) • PDOP = square root of (Square of HDOP + Square of VDOP2)
HDOP	• Horizontal dilution of precision. • Range - 1 (highest accuracy) to 50 (lowest accuracy)
VDOP	• Vertical dilution of precision. • Range- 1 (highest accuracy) to 50 (lowest accuracy)

8.833.2 Field Documentation

8.833.2.1 ULONG precisionDilution_s::HDOP

8.833.2.2 ULONG precisionDilution_s::PDOP

8.833.2.3 ULONG precisionDilution_s::VDOP

8.834 PrefImageList Struct Reference

Data Fields

- BYTE listSize
- struct ImageElement listEntries [2]

8.834.1 Detailed Description

This structure contains the Preference Image List information

Parameters

listSize	• The number of elements in the image list
listEntries	• Array of Image entries(Max array size 2) • See ImageElement

8.834.2 Field Documentation

8.834.2.1 struct ImageElement PrefImageList::listEntries[2]

8.834.2.2 BYTE PrefImageList::listSize

8.835 prefVoiceSO Struct Reference

Data Fields

- BYTE namID
- BYTE evrcCapability
- WORD homePageVoiceSO
- WORD homeOrigVoiceSO
- WORD roamOrigVoiceSO

8.835.1 Detailed Description

This structure contains information about the Preferred Voice Service Options.

Parameters

namID	• Index of the NAM(Number Assignment Module) to be configured. • Range 0 to 3. • Some modems support only 1 or 2 NAMs. • 0xFF,if not available.

evrcCapability	• EVRC capability. • Values: – 0x00 - Disable – 0x01 - Enable – 0xFF - Not Available
homePageVoice-SO	• Home page voice SO; most preferred CDMA SO to be requested from the network when receiving an incoming (MT) voice call within the home network. • Values: – 0x0000 - VOICE_SO_WILD - Any service option – 0x0001 - VOICE_SO_IS_96A - IS-96A – 0x0003 - VOICE_SO_EVRC - EVRC – 0x0011 - VOICE_SO_13K_IS733 - 13K_IS733 – 0x0038 - VOICE_SO_SELECTABLE_MODE_VOCODER - Selectable mode vocoder – 0x0044 - VOICE_SO_4GV_NARR0W_BAND - 4GV narrowband – 0x0046 - VOICE_SO_4GV_WIDE_BAND - 4GV wideband – 0x8000 - VOICE_SO_13K - 13K – 0x8001 - VOICE_SO_IS_96 - IS-96 – 0x8023 - VOICE_SO_WVRC - WVRC – 0xFFFF - Not Available
homeOrigVoice-SO	• Home origination voice SO; most preferred CDMA SO to be requested from the network when receiving an incoming (MT) voice call within the home network. • Values: – 0x0000 - VOICE_SO_WILD - Any service option – 0x0001 - VOICE_SO_IS_96A - IS-96A – 0x0003 - VOICE_SO_EVRC - EVRC – 0x0011 - VOICE_SO_13K_IS733 - 13K_IS733 – 0x0038 - VOICE_SO_SELECTABLE_MODE_VOCODER - Selectable mode vocoder – 0x0044 - VOICE_SO_4GV_NARR0W_BAND - 4GV narrowband – 0x0046 - VOICE_SO_4GV_WIDE_BAND - 4GV wideband – 0x8000 - VOICE_SO_13K - 13K – 0x8001 - VOICE_SO_IS_96 - IS-96 – 0x8023 - VOICE_SO_WVRC - WVRC – 0xFFFF - Not Available

roamOrigVoiceSO	• Roaming origination voice SO; most preferred CDMA SO to be requested from the network when receiving an incoming (MT) voice call within the home network. • Values: – 0x0000 - VOICE_SO_WILD - Any service option – 0x0001 - VOICE_SO_IS_96A - IS-96A – 0x0003 - VOICE_SO_EVRC - EVRC – 0x0011 - VOICE_SO_13K_IS733 - 13K_IS733 – 0x0038 - VOICE_SO_SELECTABLE_MODE_VOCODER - Selectable mode vocoder – 0x0044 - VOICE_SO_4GV_NARR0W_BAND - 4GV narrowband – 0x0046 - VOICE_SO_4GV_WIDE_BAND - 4GV wideband – 0x8000 - VOICE_SO_13K - 13K – 0x8001 - VOICE_SO_IS_96 - IS-96 – 0x8023 - VOICE_SO_WVRC - WVRC – 0xFFFF - Not Available

8.835.2 Field Documentation

8.835.2.1 BYTE prefVoiceSO::evrcCapability

8.835.2.2 WORD prefVoiceSO::homeOrigVoiceSO

8.835.2.3 WORD prefVoiceSO::homePageVoiceSO

8.835.2.4 BYTE prefVoiceSO::namID

8.835.2.5 WORD prefVoiceSO::roamOrigVoiceSO

8.836 Profile3GPP Struct Reference

Data Fields

- CHAR * pProfilename
- WORD * pProfilenameSize
- BYTE * pPDPtype
- BYTE * pPdpHdrCompType
- BYTE * pPdpDataCompType
- CHAR * pAPNName
- WORD * pAPNnameSize
- ULONG * pPriDNSIPv4AddPref
- ULONG * pSecDNSIPv4AddPref
- struct UMTSQoS * pUMTSReqQoS
- struct UMTSQoS * pUMTSMinQoS
- struct GPRSRequestedQoS * pGPRSRequestedQos
- struct GPRSRequestedQoS * pGPRSMinimumQoS
- CHAR * pUsername
- WORD * pUsernameSize
- CHAR * pPassword
- WORD * pPasswordSize
- BYTE * pAuthenticationPref
- ULONG * pIPv4AddrPref

- BYTE * pPcscfAddrUsingPCO
- BYTE * pPdpAccessConFlag
- BYTE * pPcscfAddrUsingDhcp
- BYTE * pImCnFlag
- struct TFTIDParams * pTFTID1Params
- struct TFTIDParams * pTFTID2Params
- BYTE * pPdpContext
- BYTE * pSecondaryFlag
- BYTE * pPrimaryID
- USHORT * pIPv6AddPref
- struct UMTSReqQoSSigInd * pUMTSReqQoSSigInd
- struct UMTSReqQoSSigInd * pUMTSMinQosSigInd
- USHORT * pPriDNSIPv6addpref
- USHORT * pSecDNSIPv6addpref
- BYTE * pAddrAllocPref
- struct QosClassID * pQosClassID
- BYTE * pAPNDisabledFlag
- ULONG * pPDNInactivTimeout
- BYTE * pAPNClass
- BYTE * pSupportEmergencyCalls

8.836.1 Detailed Description

This structure contains Input parameters of SLQSCreateProfile and SLQSModifyProfile and output parameters of SLQSGetProfileSettings

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

pProfileName	• One or more bytes describing the profile
pProfilenameSize;	• This parameter is an input parameter and should be initialised to the size of pProfileName field. Size of this parameter is 2 bytes.
pPDPType	• Packet Data Protocol (PDP) type specifies the type of data payload exchanged over the air link when the packet data session is established with this profile – 0x00 - PDP-IP (IPv4) – 0x01 - PDP-PPP – 0x02 - PDP-IPV6 – 0x03 - PDP-IPV4V6
pPdpHdrCompType	• PDP header compression type – 0 - PDP header compression is OFF – 1 - Manufacturer preferred compression – 2 - PDP header compression based on RFC 1144 – 3 - PDP header compression based on RFC 25074 PDP header compression based on RFC 3095

pPdpDataCompType	• PDP data compression type – 0 - PDP data compression is OFF – 1 - Manufacturer preferred compression – 2 - V.42BIS data compression – 3 - V.44 data compression
pAPNName	• Access point name
pAPNnameSize;	• This parameter is an input parameter and should be initialised to the size of pAPNName field. Size of this parameter is 2 bytes.
pPriDNSIPv4AddPref	• Primary DNS IPv4 Address Preference
pSecDNSIPv4AddPref	• Secondary DNS IPv4 Address Preference
pUMTSReqQoS	• UMTS Requested QoS
pUMTSMinQoS	• UMTS Minimum QoS
pGPRSRequestedQoS	• GPRS Minimum QoS
pUsername	• User name
pUsernameSize;	• This parameter is an input parameter and should be initialised to the size of pUsername field. Size of this parameter is 2 bytes.
pPassword	• Password
pPasswordSize;	• This parameter is an input parameter and should be initialised to the size of pPassword field. Size of this parameter is 2 bytes.

pAuthentication-Pref	• Authentication Preference – Bit map that indicates the authentication algorithm preference * Bit 0 - PAP preference · 0 - PAP is never performed · 1 - PAP may be performed * Bit 1 - CHAP preference · 0 - CHAP is never performed · 1 - CHAP may be performed * If more than one bit is set, then the device decides which authentication procedure is performed while setting up the data session. For example, the device may have a policy to select the most secure authentication mechanism.
pIPv4AddrPref	• IPv4 Address Preference
pPcscfAddr-UsingPCO	• P-CSCF Address using PCO Flag – 1 - (TRUE) implies request PCSCF address using PCO – 0 - (FALSE) implies do not request By default, this value is 0
pPdpAccess-ConFlag	• PDP access control flag – 0 - PDP access control none – 1 - PDP access control reject – 2 - PDP access control permission
pPcscfAddr-UsingDhcp	• P-CSCF address using DHCP – 1 - (TRUE) implies Request PCSCF address using DHCP – 0 - (FALSE) implies do not request By default, value is 0
pImCnFlag	• IM CN flag – 1 - (TRUE) implies request IM CN flag for this profile – 0 - (FALSE) implies do not request IM CN flag for this profile
pTFTID1Params	• Traffic Flow Template
pTFTID2Params	• Traffic Flow Template
pPdpContext	• PDP context number
pSecondaryFlag	• PDP context secondary flag – 1 - (TRUE) implies this is secondary profile – 0 - (FALSE) implies this is not secondary profile

pPrimaryID	• PDP context primary ID • function SLQSGetProfileSettings() returns a default value 0xFF if this parameter is not returned by the device
pIPv6AddPref	• IPv6 address preference Preferred IPv6 address to be assigned to the TE; actual assigned address is negotiated with the network and may differ from this value; if not specified, the IPv6 address is obtained automatically from the network
pUMTSReqQoS-SigInd	• UMTS requested QoS with Signalling Indication flag
pUMTSMinQoS-SigInd	• UMTS minimum QoS with Signalling Indication flag
pPrimaryDNSI-Pv6addpref	• Primary DNS IPv6 address preference – The value may be used as a preference during negotiation with the network; if not specified, the wireless device will attempt to obtain the DNS address automatically from the network; the negotiated value is provided to the host via DHCP
pSecondaryDN-SIPv6addpref	• Secondary DNS IPv6 address preference
paddrAllocation-Pref	• DHCP/NAS preference – This enumerated value may be used to indicate the address allocation preference * 0 - NAS signaling is used for address allocation * 1 - DHCP is used for address allocation
pQosClassID	• 3GPP LTE QoS parameters
pAPNDisabled-Flag	• Optional 1 Byte Flag indicating if the APN is disabled/enabled • If set, the profile can not be used for making data calls • Any data call is failed locally • Values: – 0 - FALSE(default) – 1 - True • This parameter is currently read only and can be read by using the function SLQSGetProfile-Settings().
pPDNInactiv-Timeout	• Optional 4 Bytes indicating the duration of inactivity timer in seconds • If the PDP context/PDN connection is inactive for this duration i.e. No data Tx/Rx occurs, the PDP context/PDN connection is disconnected • Default value of zero indicates infinite value • This parameter is currently read only and can be read by using the function SLQSGetProfile-Settings().

pAPNClass	• Optional 1 Byte numeric identifier representing the APN in profile • Can be set and queried but is not used by the modem • This parameter is currently read only and can be read by using the function SLQSGetProfileSettings().
pSupportEmergencyCalls	• Optional 1 Byte Flag indicating if the emergency call support is disabled/enabled • If set, the profile can be used for making emergency calls • Values: – 0 - FALSE(default) – 1 - TRUE

8.836.2 Field Documentation

8.836.2.1 BYTE* Profile3GPP::pAddrAllocPref

8.836.2.2 BYTE* Profile3GPP::pAPNClass

8.836.2.3 BYTE* Profile3GPP::pAPNDisabledFlag

8.836.2.4 CHAR* Profile3GPP::pAPNName

8.836.2.5 WORD* Profile3GPP::pAPNnameSize

8.836.2.6 BYTE* Profile3GPP::pAuthenticationPref

8.836.2.7 struct GPRSRequestedQoS* Profile3GPP::pGPRSMinimumQoS

8.836.2.8 struct GPRSRequestedQoS* Profile3GPP::pGPRSRequestedQos

8.836.2.9 BYTE* Profile3GPP::pImCnFlag

8.836.2.10 ULONG* Profile3GPP::pIPv4AddrPref

8.836.2.11 USHORT* Profile3GPP::pIPv6AddPref

8.836.2.12 CHAR* Profile3GPP::pPassword

8.836.2.13 WORD* Profile3GPP::pPasswordSize

8.836.2.14 BYTE* Profile3GPP::pPcscfAddrUsingDhcp

8.836.2.15 BYTE* Profile3GPP::pPcscfAddrUsingPCO

8.836.2.16 ULONG* Profile3GPP::pPDNInactivTimeout

8.836.2.17 BYTE* Profile3GPP::pPdpAccessConFlag

8.836.2.18 BYTE* Profile3GPP::pPdpContext

8.836.2.19 BYTE* Profile3GPP::pPdpDataCompType

8.836.2.20 **BYTE*** Profile3GPP::pPdpHdrCompType

8.836.2.21 **BYTE*** Profile3GPP::pPDPtype

8.836.2.22 **ULONG*** Profile3GPP::pPriDNSIPv4AddPref

8.836.2.23 **USHORT*** Profile3GPP::pPriDNSIPv6addpref

8.836.2.24 **BYTE*** Profile3GPP::pPrimaryID

8.836.2.25 **CHAR*** Profile3GPP::pProfilename

8.836.2.26 **WORD*** Profile3GPP::pProfilenameSize

8.836.2.27 struct **QosClassID*** Profile3GPP::pQosClassID

8.836.2.28 **ULONG*** Profile3GPP::pSecDNSIPv4AddPref

8.836.2.29 **USHORT*** Profile3GPP::pSecDNSIPv6addpref

8.836.2.30 **BYTE*** Profile3GPP::pSecondaryFlag

8.836.2.31 **BYTE*** Profile3GPP::pSupportEmergencyCalls

8.836.2.32 struct **TFTIDParams*** Profile3GPP::pTFTID1Params

8.836.2.33 struct **TFTIDParams*** Profile3GPP::pTFTID2Params

8.836.2.34 struct **UMTSQoS*** Profile3GPP::pUMTSMinQoS

8.836.2.35 struct **UMTSReqQoSSigInd*** Profile3GPP::pUMTSMinQosSigInd

8.836.2.36 struct **UMTSQoS*** Profile3GPP::pUMTSReqQoS

8.836.2.37 struct **UMTSReqQoSSigInd*** Profile3GPP::pUMTSReqQoSSigInd

8.836.2.38 **CHAR*** Profile3GPP::pUsername

8.836.2.39 **WORD*** Profile3GPP::pUsernameSize

8.837 Profile3GPP2 Struct Reference

Data Fields

- BYTE * pNegoDnsSrvrPref
- ULONG * pPppSessCloseTimerDO
- ULONG * pPppSessCloseTimer1x
- BYTE * pAllowLinger
- USHORT * pLcpAckTimeout
- USHORT * pIpcpAckTimeout
- USHORT * pAuthTimeout
- BYTE * pLcpCreqRetryCount
- BYTE * pIpcpCreqRetryCount
- BYTE * pAuthRetryCount
- BYTE * pAuthProtocol

- CHAR * pUserId
- WORD * pUserIdSize
- CHAR * pAuthPassword
- WORD * pAuthPasswordSize
- BYTE * pDataRate
- ULONG * pAppType
- BYTE * pDataMode
- BYTE * pAppPriority
- CHAR * pApnString
- WORD * pApnStringSize
- BYTE * pPdnType
- BYTE * pIsPcscfAddressNedded
- ULONG * pPrimaryV4DnsAddress
- ULONG * pSecondaryV4DnsAddress
- USHORT * pPriV6DnsAddress
- USHORT * pSecV6DnsAddress
- BYTE * pRATType
- BYTE * pAPNEnabled3GPP2
- ULONG * pPDNInactivTimeout3GPP2
- BYTE * pAPNClass3GPP2

8.837.1 Detailed Description

This structure contains the 3GPP2 profile parameters

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

pNegoDnsSrvr-Pref	• Negotiate DNS Server Preference – 1 - (TRUE)implies request DNS addresses from the PDSN – 0 - (FALSE)implies do not request DNS addresses from the PDSN – Default value is 1 (TRUE)
pPppSessClose-TimerDO	• PPP Session Close Timer for DO – Timer value (in seconds) on DO indicating how long the PPP Session should linger before closing down
pPppSessClose-Timer1x	• PPP Session Close Timer for 1X – Timer value (in seconds) on 1X indicating how long the PPP session should linger before closing down
pAllowLinger	• Allow/disallow lingering of interface – 1 -(TRUE) implies allow lingering – 0 -(FALSE) implies do not allow lingering
pLcpAckTimeout	• LCP ACK Timeout – Value of LCP ACK Timeout in milliseconds

pIpcpAck-Timeout	• IPCP ACK Timeout – Value of IPCP ACK Timeout in milliseconds
pAuthTimeout	• AUTH Timeout – Value of Authentication Timeout in milliseconds
pLcpCreqRetry-Count	• LCP Configuration Request Retry Count
pIpcpCreqRetry-Count	• IPCP Configuration Request Retry Count
pAuthRetry-Count	• Authentication Retry Count value
pAuthProtocol	• Authentication Protocol – 1 - PAP – 2 - CHAP – 3 - PAP or CHAP
pUserId	• User ID to be used during data network authentication • maximum length allowed is 127 bytes; • QMI_ERR_ARG_TOO_LONG will be returned if the storage on the wireless device is insufficient in size to hold the value.
pUserIdSize;	• This parameter is an input parameter and should be initialised to the size of pUserId field. Size of this parameter is 2 bytes.
pAuthPassword	• Password to be used during data network authentication; • maximum length allowed is 127 bytes • QMI_ERR_ARG_TOO_LONG will be returned if the storage on the wireless device is insufficient in size to hold the value.
pAuthPassword-Size;	• This parameter is an input parameter and should be initialised to the size of pAuthPassword field. Size of this parameter is 2 bytes.
pDataRate	• Data Rate Requested – 0 - Low (Low speed Service Options (SO15) only) – 1 - Medium (SO33 + low R-SCH) – 2 - High (SO33 + high R-SCH) – Default is 2

pAppType	• Application Type: – 0x00000001 - Default Application Type – 0x00000020 - LBS Application Type – 0x00000040 - Tethered Application Type – This parameter is not used while creating/modifying a profile
pDataMode	• Data Mode to use: – 0 - CDMA or HDR (Hybrid 1X/1xEV-DO) – 1 - CDMA Only (1X only) – 2 - HDR Only (1xEV-DO only) – Default is 0
pAppPriority	• Application Priority – Numerical 1 byte value defining the application priority; higher value implies higher priority – This parameter is not used while creating/modifying a profile
pApnString	• String representing the Access Point Name • maximum length allowed is 100 bytes • QMI_ERR_ARG_TOO_LONG will be returned if the APN name is too long.
pApnStringSize;	• This parameter is an input parameter and should be initialised to the size of pApnString field. Size of this parameter is 2 bytes.
pPdnType	• Packed Data Network Type Requested: – 0 - IPv4 PDN Type – 1 - IPv6 PDN Type – 2 - IPv4 or IPv6 PDN Type – 3 - Unspecified PDN Type (implying no preference)
pIsPcscf-AddressNedded	• This boolean value is used to control if PCSCF address is requested from PDSN – 1 -(TRUE) implies request for PCSCF value from the PDSN – 0 -(FALSE) implies do not request for PCSCF value from the PDSN
pPrimaryV4Dns-Address	• IPv4 Primary DNS address – The Primary IPv4 DNS address that can be statically assigned to the UE
pSecondaryV4-DnsAddress	• IPv4 Secondary DNS address – The Secondary IPv4 DNS address that can be statically assigned to the UE
pPriV6Dns-Address	• Primary IPv6 DNS address – The Primary IPv6 DNS address that can be statically assigned to the UE

pSecV6Dns-Address	• Secondary IPv6 DNS address – The Secondary IPv6 DNS address that can be statically assigned to the UE
pRATType	• Optional 1 Byte Flag indicating RAT Type • Values: – 1 - HRPD – 2 - EHRPD – 3 - HRPD_EHRPD • This parameter is currently read only and can be read by using the function SLQSGetProfile-Settings().
pAPNEnabled3-GPP2	• Optional 1 Byte Flag indicating if the APN is disabled/enabled • If disabled, the profile can not be used for making data calls • Values: – 0 - Disabled – 1 - Enabled(default value) • This parameter is currently read only and can be read by using the function SLQSGetProfile-Settings().
pPDNInactiv-Timeout3GPP2	• Optional 4 Bytes indicating the duration of inactivity timer in seconds • If the PDP context/PDN connection is inactive for this duration i.e. No data Tx/Rx occurs, the PDP context/PDN connection is disconnected • Default value of zero indicates infinite value • This parameter is currently read only and can be read by using the function SLQSGetProfile-Settings().
pAPNClass3GP-P2	• Optional 1 Byte numeric identifier representing the APN in profile • Can be set and queried but is not used by the modem • This parameter is currently read only and can be read by using the function SLQSGetProfile-Settings().

8.837.2 Field Documentation

8.837.2.1 BYTE* Profile3GPP2::pAllowLinger

8.837.2.2 BYTE* Profile3GPP2::pAPNClass3GPP2

8.837.2.3 BYTE* Profile3GPP2::pAPNEnabled3GPP2

8.837.2.4 CHAR* Profile3GPP2::pApnString

8.837.2.5 WORD* Profile3GPP2::pApnStringSize

8.837.2.6 BYTE* Profile3GPP2::pAppPriority

8.837.2.7 ULONG* Profile3GPP2::pAppType

8.837.2.8 CHAR* Profile3GPP2::pAuthPassword

8.837.2.9 WORD* Profile3GPP2::pAuthPasswordSize

8.837.2.10 BYTE* Profile3GPP2::pAuthProtocol

8.837.2.11 BYTE* Profile3GPP2::pAuthRetryCount

8.837.2.12 USHORT* Profile3GPP2::pAuthTimeout

8.837.2.13 BYTE* Profile3GPP2::pDataMode

8.837.2.14 BYTE* Profile3GPP2::pDataRate

8.837.2.15 USHORT* Profile3GPP2::pIpcpAckTimeout

8.837.2.16 BYTE* Profile3GPP2::pIpcpCreqRetryCount

8.837.2.17 BYTE* Profile3GPP2::pIsPcscfAddressNedded

8.837.2.18 USHORT* Profile3GPP2::pLcpAckTimeout

8.837.2.19 BYTE* Profile3GPP2::pLcpCreqRetryCount

8.837.2.20 BYTE* Profile3GPP2::pNegoDnsSrvrPref

8.837.2.21 ULONG* Profile3GPP2::pPDNInactivTimeout3GPP2

8.837.2.22 BYTE* Profile3GPP2::pPdnType

8.837.2.23 ULONG* Profile3GPP2::pPppSessCloseTimer1x

8.837.2.24 ULONG* Profile3GPP2::pPppSessCloseTimerDO

8.837.2.25 ULONG* Profile3GPP2::pPrimaryV4DnsAddress

8.837.2.26 USHORT* Profile3GPP2::pPriV6DnsAddress

8.837.2.27 BYTE* Profile3GPP2::pRATType

8.837.2.28 ULONG* Profile3GPP2::pSecondaryV4DnsAddress

8.837.2.29 USHORT* Profile3GPP2::pSecV6DnsAddress

8.837.2.30 CHAR* Profile3GPP2::pUserId

8.837.2.31 WORD* Profile3GPP2::pUserIdSize

8.838 ProfileIdentifier Struct Reference

Data Fields

- BYTE profileType
- BYTE profileIndex

8.838.1 Detailed Description

This structure contains the Profile Identifier Information

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

profileType	• Identifies the type of profile 0x00 = 3GPP
profileIndex	• Index of profile whose settings were loaded prior to session parameter negotiation for the current call. If this TLV is not present, data call parameters are based on device default settings for each parameter

8.838.2 Field Documentation

8.838.2.1 BYTE ProfileIdentifier::profileIndex

8.838.2.2 BYTE ProfileIdentifier::profileType

8.839 protocolSubtypeElement Struct Reference

Data Fields

- WORD PhysicalLayer
- WORD ControlMac
- WORD AccessMac
- WORD ForwardMac
- WORD ReverseMac
- WORD KeyExchange
- WORD AuthProt
- WORD EncryptProt
- WORD SecProt
- WORD IdleState
- WORD MultDisc
- WORD VirtStream

8.839.1 Detailed Description

This structure contains Protocol Subtype Elements for Protocol Subtype List

Parameters

PhysicalLayer	• Specifies Physical Layer Protocol subtype
ControlMac	• Specifies Control Channel MAC Protocol subtype

AccessMac	• Specifies Access Channel MAC Protocol subtype
ForwardMac	• Specifies Forward Traffic Channel MAC Protocol subtype
ReverseMac	• Specifies Reverse Traffic Channel MAC Protocol subtype
KeyExchange	• Specifies Key exchange Protocol subtype
AuthProt	• Specifies Authentication Protocol subtype
EncryptProt	• Specifies Encryption Protocol subtype
SecProt	• Specifies Security Protocol subtype
IdleState	• Specifies Idle state Protocol subtype
MultDisc	• Specifies Generic multimode capability discovery Protocol subtype
VirtStream	• Specifies Generic Virtual Stream Protocol subtype

8.839.2 Field Documentation

8.839.2.1 WORD protocolSubtypeElement::AccessMac

8.839.2.2 WORD protocolSubtypeElement::AuthProt

8.839.2.3 WORD protocolSubtypeElement::ControlMac

8.839.2.4 WORD protocolSubtypeElement::EncryptProt

8.839.2.5 WORD protocolSubtypeElement::ForwardMac

8.839.2.6 WORD protocolSubtypeElement::IdleState

8.839.2.7 WORD protocolSubtypeElement::KeyExchange

8.839.2.8 WORD protocolSubtypeElement::MultDisc

8.839.2.9 WORD protocolSubtypeElement::PhysicalLayer

8.839.2.10 WORD protocolSubtypeElement::ReverseMac

8.839.2.11 WORD protocolSubtypeElement::SecProt

8.839.2.12 WORD protocolSubtypeElement::VirtStream

8.840 PSDetachReq Struct Reference

Data Fields

- BYTE * pDetachAction

8.840.1 Detailed Description

This structure contains information about the SLQSSwiPSDetach request parameters.

Parameters

pDetachAction[IN]	• Values – 2- Initiates an immediate packet domain detach.

8.840.2 Field Documentation

8.840.2.1 BYTE* PSDetachReq::pDetachAction

8.841 PSMActiveTimerTlv Struct Reference

Data Fields

- BYTE TlvPresent
- ULONG activeTimer

8.841.1 Detailed Description

This structure contains the parameters for Power Save Mode active timer.

Parameters

TlvPresent	• Tlv Present.
activeTimer	Active Timer • Power Save mode active timer value (in seconds).

8.841.2 Field Documentation

8.841.2.1 ULONG PSMActiveTimerTlv::activeTimer

8.841.2.2 BYTE PSMActiveTimerTlv::TlvPresent

8.842 PSMDurationDueToOOSTlv Struct Reference

Data Fields

- BYTE TlvPresent
- ULONG durationDueToOOS

8.842.1 Detailed Description

This structure contains the parameters for Power Save Mode Duration due to an outage.

Parameters

TlvPresent	• Tlv Present.
durationDueTo-OOS	Duration Due to OOS • Power Save mode duration due to an outage (in seconds).

8.842.2 Field Documentation

8.842.2.1 ULONG PSMDurationDueToOOSTlv::durationDueToOOS

8.842.2.2 BYTE PSMDurationDueToOOSTlv::TlvPresent

8.843 PSMDurationThresholdTlv Struct Reference

Data Fields

- BYTE TlvPresent
- ULONG durationThreshold

8.843.1 Detailed Description

This structure contains the parameters for Power Save Mode Duration Threshold.

Parameters

TlvPresent	• Tlv Present.
duration-Threshold	Duration Threshold • Minimum duration for the device to benefit by entering PSM (in seconds).

8.843.2 Field Documentation

8.843.2.1 ULONG PSMDurationThresholdTlv::durationThreshold

8.843.2.2 BYTE PSMDurationThresholdTlv::TlvPresent

8.844 PSMEarlyWakeupTimeTlv Struct Reference

Data Fields

- BYTE TlvPresent
- ULONG earlyWakeupTime

8.844.1 Detailed Description

This structure contains the parameters for Power Save Mode early wakeup time.

Parameters

TlvPresent	• Tlv Present.
earlyWakeup-Time	Early Wakeup Time • Power Save mode early wakeup time (in seconds) indicating how early the device should exit PSM to offset for bootup and acquisition delay.

8.844.2 Field Documentation

8.844.2.1 ULONG PSMEarlyWakeupTimeTlv::earlyWakeupTime

8.844.2.2 BYTE PSMEarlyWakeupTimeTlv::TlvPresent

8.845 PSMEnableStateTlv Struct Reference

Data Fields

- BYTE TlvPresent
- BYTE enableState

8.845.1 Detailed Description

This structure contains the parameters for Power Save Mode Enable State.

Parameters

TlvPresent	• Tlv Present.
enableState	Power Save Mode Enable State Values • 0 - PSM is not enabled • 1 - PSM is enabled

8.845.2 Field Documentation

8.845.2.1 BYTE PSMEnableStateTlv::enableState

8.845.2.2 BYTE PSMEnableStateTlv::TlvPresent

8.846 PSMPeriodicUpdateTimerTlv Struct Reference

Data Fields

- BYTE TlvPresent
- ULONG periodicUpdateTimer

8.846.1 Detailed Description

This structure contains the parameters for Power Save Mode periodic update timer.

Parameters

TlvPresent	• Tlv Present.
periodicUpdate-Timer	Periodic Update Timer • Power Save mode periodic update timer value (in seconds).

8.846.2 Field Documentation

8.846.2.1 ULONG PSMPeriodicUpdateTimerTlv::periodicUpdateTimer

8.846.2.2 BYTE PSMPeriodicUpdateTimerTlv::TlvPresent

8.847 PSMRandomizationWindowTlv Struct Reference

Data Fields

- BYTE TlvPresent
- ULONG randomizationWindow

8.847.1 Detailed Description

This structure contains the parameters for Power Save Mode wakeup randomization window.

Parameters

TlvPresent	• Tlv Present.
randomization-Window	Randomization Window • Power Save mode wakeup randomization window (in seconds)

8.847.2 Field Documentation

8.847.2.1 ULONG PSMRandomizationWindowTlv::randomizationWindow

8.847.2.2 BYTE PSMRandomizationWindowTlv::TlvPresent

8.848 qaQmi3Gpp2TimeZone Struct Reference

Data Fields

- BYTE leapSeconds
- BYTE localTimeOffset
- BYTE daylightSavings

8.848.1 Detailed Description

This structure contains the 3GPP2TimeZone parameters

Parameters

leapSeconds	• leap seconds - Number of leap seconds since the start of CDMA system time.
localTimeOffset	• Local Time Offset - Offset of system time in units of 30 minutes; the value in this field conveys as 8 bit 2's compliment number.
daylightSavings	• Day Light Savings Indicator – 0x00 - OFF (daylight savings not in effect) – 0x01 - ON (daylight savings in effect)

8.848.2 Field Documentation

8.848.2.1 BYTE qaQmi3Gpp2TimeZone::daylightSavings

8.848.2.2 BYTE qaQmi3Gpp2TimeZone::leapSeconds

8.848.2.3 BYTE qaQmi3Gpp2TimeZone::localTimeOffset

8.849 qaQmiInterfaceInfo Struct Reference

Data Fields

- BYTE qaQmiinstanceid
- eQaQMIService qaQmisvctype
- ULONG v4sessionId
- ULONG v6sessionId

8.849.1 Detailed Description

Structure used to store the service, interface and session information

Parameters

qaQmiinstanceid	• The interface instance ID – 0x00 - PDP instance ID 0 – 0x01 - PDP instance ID 1 – 0x02 - PDP instance ID 2
qaQmisvctype	• The service type information. See eQaQMIService for more information
v4sessionId	• IPv4 QMI client session handle
v6sessionId	• IPv6 QMI client session handle

8.849.2 Field Documentation

8.849.2.1 BYTE qaQmiInterfaceInfo::qaQmiinstanceid

8.849.2.2 eQaQMIService qaQmiInterfaceInfo::qaQmisvctype

8.849.2.3 ULONG qaQmiInterfaceInfo::v4sessionId

8.849.2.4 ULONG qaQmiInterfaceInfo::v6sessionId

8.850 qaQmiServingSystemParam Struct Reference

Data Fields

- servSystem ServingSystem
- BYTE roamIndicatorVal
- dataSrvCapabilities DataSrvCapabilities
- currentPLMN CurrentPLMN
- WORD SystemID
- WORD NetworkID
- WORD BasestationID
- ULONG BasestationLatitude
- ULONG BasestationLongitude
- roamIndList RoamingIndicatorList
- BYTE defaultRoamInd
- qaQmi3Gpp2TimeZone Gpp2TimeZone
- BYTE CDMA_P_Rev
- BYTE GppTimeZone
- BYTE GppNetworkDSTAdjustment
- WORD Lac
- ULONG CellID
- BYTE concSvcInfo
- BYTE PRLInd
- BYTE DTMInd
- detailSvcInfo DetailedSvcInfo
- CDMASysInfoExt CDMASystemInfoExt

- BYTE hdrPersonality
- WORD trackAreaCode
- callBarStatus CallBarStatus

8.850.1 Detailed Description

This structure contains the Serving System parameters

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

ServingSystem	• Serving System • See servSystem for more information
roamIndicatorVal	• Optional parameter indicating Roaming Indicator value • Values: – 0x00 - Roaming – 0x01 - Home – 0x02 - Flashing – 0x03 and above - Operator defined values
DataSrv-Capabilities	• Optional parameter indicating Data services capability • See dataSrvCapabilities for more information
CurrentPLMN	• Optional parameter indicating Current PLMN • See currentPLMN for more information
SystemID	• Optional parameter indicating System ID
NetworkID	• Optional parameter indicating Network ID
BaseStationID	• Optional parameter indicating Base Station Identification Number
BaseStation-Latitude	• Optional parameter indicating Base station latitude in units of 0.25 sec,expressed as a two's complement signed number with positive numbers signifying North latitude
Basestation-Longitude	• Optional parameter indicating Base station longitude in units of 0.25 sec, expressed as a Two's complement signed number with positive numbers signifying East longitude
Roaming-IndicatorList	• Optional parameter indicating Roaming Indicator List • See roamIndList for more information

defaultRoamInd	• Optional parameter indicating Default Roaming Indicator • Values: – 0x00 - Roaming – 0x01 - Home
Gpp2TimeZone	• Optional parameter indicating 3GPP2 Time Zone • See qaQmi3Gpp2TimeZone for more information
CDMA_P_Rev	• Optional parameter indicating CDMA P_Rev in use
GppTimeZone	• Optional parameter indicating Offset from Universal time, i.e., difference between local time and Universal time, in increments of 15 min. (signed value).
GppNetworkDS-TAdjustment	• Optional parameter indicating 3GPP network daylight saving adjustment • Values: – 0x00 - No adjustment for Daylight Saving Time – 0x01 - 1 hr adjustment for Daylight Saving Time – 0x02 - 2 hr adjustment for Daylight Saving Time
Lac	• Optional parameter indicating 3GPP Location Area Code
CellID	• Optional parameter indicating 3GPP Cell ID
concSvcInfo	• Optional parameter indicating 3GPP2 concurrent service Info • Values: – 0x00 - Concurrent service not available – 0x01 - Concurrent service available
PRLInd	• Optional parameter indicating 3GPP2 PRL Indicator • Values: – 0x00 - System not in PRL – 0x01 - System is in PRL
DTMInd	• Optional parameter indicating Dual Transfer Mode Indication(GSM Only) • Values: – 0x00 - DTM not supported – 0x01 - DTM supported
DetailedSvcInfo	• Optional parameter indicating Detailed service information • See detailSvcInfo for more information

CDMASystem-InfoExt	• Optional parameter indicating CDMA System Info Ext • See CDMASysInfoExt for more information
hdrPersonality	• Optional parameter indicating HDR Personality Information • Values: – 0x00 - Unknown – 0x01 - HRPD – 0x02 - eHRPD
trackAreaCode	• Optional parameter indicating Tracking area code information for LTE
CallBarStatus	• Optional parameter indicating Call Barring Status • See callBarStatus for more information

8.850.2 Field Documentation

8.850.2.1 WORD qaQmiServingSystemParam::BasestationID

8.850.2.2 ULONG qaQmiServingSystemParam::BasestationLatitude

8.850.2.3 ULONG qaQmiServingSystemParam::BasestationLongitude

8.850.2.4 callBarStatus qaQmiServingSystemParam::CallBarStatus

8.850.2.5 BYTE qaQmiServingSystemParam::CDMA_P_Rev

8.850.2.6 CDMASysInfoExt qaQmiServingSystemParam::CDMASystemInfoExt

8.850.2.7 ULONG qaQmiServingSystemParam::CellID

8.850.2.8 BYTE qaQmiServingSystemParam::concSvcInfo

8.850.2.9 currentPLMN qaQmiServingSystemParam::CurrentPLMN

8.850.2.10 dataSrvCapabilities qaQmiServingSystemParam::DataSrvCapabilities

8.850.2.11 BYTE qaQmiServingSystemParam::defaultRoamInd

8.850.2.12 detailSvcInfo qaQmiServingSystemParam::DetailedSvcInfo

8.850.2.13 BYTE qaQmiServingSystemParam::DTMInd

8.850.2.14 qaQmi3Gpp2TimeZone qaQmiServingSystemParam::Gpp2TimeZone

8.850.2.15 BYTE qaQmiServingSystemParam::GppNetworkDSTAdjustment

8.850.2.16 BYTE qaQmiServingSystemParam::GppTimeZone

8.850.2.17 BYTE qaQmiServingSystemParam::hdrPersonality

8.850.2.18 WORD qaQmiServingSystemParam::Lac

8.850.2.19 WORD qaQmiServingSystemParam::NetworkID

8.850.2.20 BYTE qaQmiServingSystemParam::PRLInd

8.850.2.21 BYTE qaQmiServingSystemParam::roamIndicatorVal

8.850.2.22 roamIndList qaQmiServingSystemParam::RoamingIndicatorList

8.850.2.23 servSystem qaQmiServingSystemParam::ServingSystem

8.850.2.24 WORD qaQmiServingSystemParam::SystemID

8.850.2.25 WORD qaQmiServingSystemParam::trackAreaCode

8.851 QmiCbkCatEventStatusReportInd Struct Reference

Data Fields

- struct qmTlvResult results
- BYTE event_Index
- struct CatCommonEventTlv CCETlv [11]

8.851.1 Field Documentation

8.851.1.1 struct CatCommonEventTlv QmiCbkCatEventStatusReportInd::CCETlv[11]

8.851.1.2 BYTE QmiCbkCatEventStatusReportInd::event_Index

8.851.1.3 struct qmTlvResult QmiCbkCatEventStatusReportInd::results

8.852 QmiCbkLocBestAvailPosInd Struct Reference

Data Fields

- struct qmTlvResult results
- ULONG status
- ULONG * pXid
- ULONGLONG * pLatitude
- ULONGLONG * pLongitude
- ULONG * pHorUncCircular
- ULONG * pAltitudeWrtEllipsoid
- ULONG * pVertUnc
- ULONGLONG * pTimestampUtc
- ULONG * pTimeUnc
- ULONG * pHorUncEllipseSemiMinor
- ULONG * pHorUncEllipseSemiMajor
- ULONG * pHorUncEllipseOrientAzimuth
- BYTE * pHorCirConf
- BYTE * pHorEllpConf

- ULONG * pHorReliability
- ULONG * pSpeedHorizontal
- ULONG * pSpeedUnc
- ULONG * pAltitudeWrtMeanSeaLevel
- BYTE * pVertConfidence
- ULONG * pVertReliability
- ULONG * pSpeedVertical
- ULONG * pSpeedVerticalUnc
- ULONG * pHeading
- ULONG * pHeadingUnc
- ULONG * pMagneticDeviation
- ULONG * pTechnologyMask
- precisionDilution * pPrecisionDilution
- gpsTime * pGpsTime
- ULONG * pTimeSrc
- sensorDataUsage * pSensorDataUsage
- svUsedforFix * pSvUsedforFix

8.852.1 Detailed Description

This structure contains Best Available Position

Parameters

status	• Valid values: – eQMI_LOC_SUCCESS (0) - Request was completed successfully – eQMI_LOC_GENERAL_FAILURE (1) - Request failed because of a general failure – eQMI_LOC_UNSUPPORTED (2) - Request failed because it is not supported – eQMI_LOC_INVALID_PARAMETER (3) - Request failed because it contained invalid parameters – eQMI_LOC_ENGINE_BUSY (4) - Request failed because the engine is busy – eQMI_LOC_PHONE_OFFLINE (5) - Request failed because the phone is offline – eQMI_LOC_TIMEOUT (6) - Request failed because it timed out – eQMI_LOC_CONFIG_NOT_SUPPORTED (7) - Request failed because an undefined configuration was requested – eQMI_LOC_INSUFFICIENT_MEMORY (8) - Request failed because the engine could not allocate sufficient memory for the request – eQMI_LOC_MAX_GEOFENCE_PROGRAMMED (9) - Request failed because the maximum number of Geofences are already programmed – eQMI_LOC_XTRA_VERSION_CHECK_FAILURE (10) - Location service failed because of an XTRA version-based file format check failure
xid	Transaction ID that was specified in the Get Best Available Position request.
pLatitude	• Latitude (specified in WGS84 datum) • Type - Floating point • Units - Degrees • Range - -90.0 to 90.0 • Positive values indicate northern latitude • Negative values indicate southern latitude

pLongitude	• Longitude (specified in WGS84 datum) • Type - Floating point • Units - Degrees • Range - -180.0 to 180.0 • Positive values indicate eastern latitude • Negative values indicate western latitude
pHorUncCircular	• Horizontal position uncertainty. • Units - Meters
pAltitudeWrt-Ellipsoid	• Altitude With Respect to WGS84 Ellipsoid. • Units - Meters • Range -500 to 15883
pVertUnc	• Vertical uncertainty. • Units - Meters
pTimestampUtc	• UTC timestamp • Units - Milliseconds since Jan. 1, 1970
pTimeUnc	• Time uncertainty. • Units - Milliseconds
pHorUncEllipse-SemiMinor	• Semi-minor axis of horizontal elliptical uncertainty. • Units - Meters
pHorUncEllipse-SemiMajor	• Semi-major axis of horizontal elliptical uncertainty. • Units: Meters
pHorUncEllipse-OrientAzimuth	• Elliptical horizontal uncertainty azimuth of orientation. • Units - Decimal degrees • Range - 0 to 180
pHorCirConf	• Horizontal circular uncertainty confidence • Units: Precent • Range: 0 to 99
pHorEllpConf	• Horizontal elliptical uncertainty confidence • Units: Precent • Range: 0 to 99

pHorReliability	• Values – 0 - Location reliability is not set. – 1 - Location reliability is very low; use it at your own risk – 2 - Location reliability is low; little or no cross-checking is possible. – 3 - Location reliability is medium; limited cross-check passed – 4 - Location reliability is high; strong cross-check passed
pSpeed-Horizontal	• Horizontal speed. • Units - Meters/second
pSpeedUnc	• 3-D Speed uncertainty. • Units - Meters/second.
pAltitudeWrt-MeanSeaLevel	• Altitude With Respect to Sea Level. • Units - Meters
pVertConfidence	• Vertical uncertainty confidence. • Units - Percentage • Range 0 to 99
pVertReliability	• Values – 0 - Location reliability is not set. – 1 - Location reliability is very low; use it at your own risk. – 2 - Location reliability is low; little or no cross-checking is possible – 3 - Location reliability is medium; limited cross-check passed – 4 - Location reliability is high; strong cross-check passed
pSpeedVertical	• Vertical speed. • Units - Meters/second
pSpeedVertical-Unc	• Veritical speed • Units: Meters/second
pHeading	• Heading. • Units - Degree • Range 0 to 359.999
pHeadingUnc	• Heading uncertainty. • Units - Degree • Range 0 to 359.999

pMagnetic-Deviation	• Difference between the bearing to true north and the bearing shown on a magnetic compass. The deviation is positive when the magnetic north is east of true north.
pTechnology-Mask	• Values – 0x00000001 - Satellites were used to generate the fix – 0x00000002 - Cell towers were used to generate the fix – 0x00000004 - Wi-Fi access points were used to generate the fix – 0x00000008 - Sensors were used to generate the fix – 0x00000010 - Reference Location was used to generate the fix – 0x00000020 - Coarse position injected into the location engine was used to generate the fix – 0x00000040 - AFLT was used to generate the fix – 0x00000080 - GNSS and network-provided measurements were used to generate the fix
-pPrecision-Dilution	• See precisionDilution for more information
-pGpsTime	• See gpsTime for more information
pTimeSrc	• Values – 0 - Invalid time. – 1 - Time is set by the 1X system. – 2 - Time is set by WCDMA/GSM time tagging. – 3 - Time is set by an external injection. – 4 - Time is set after decoding over-the-air GPS navigation data from one GPS satellite. – 5 - Time is set after decoding over-the-air GPS navigation data from multiple satellites. – 6 - Both time of the week and the GPS week number are known. – 7 - Time is set by the position engine after the fix is obtained – 8 - Time is set by the position engine after performing SFT, this is done when the clock time uncertainty is large. – 9 - Time is set after decoding GLO satellites. – 10- Time is set after transforming the GPS to GLO time – 11- Time is set by the sleep time tag provided by the WCDMA network. – 12- Time is set by the sleep time tag provided by the GSM network – 13- Source of the time is unknown – 14- Time is derived from the system clock (better known as the slow clock); GNSS time is maintained irrespective of the GNSS receiver state – 15- Time is set after decoding QZSS satellites. – 16- Time is set after decoding BDS satellites.
-pSensorData-Usage	• See sensorDataUsage for more information
-pSvUsedforFix	• See svUsedforFix for more information

8.852.2 Field Documentation

8.852.2.1 ULONG* QmiCbkLocBestAvailPosInd::pAltitudeWrtEllipsoid

8.852.2.2 ULONG* QmiCbkLocBestAvailPosInd::pAltitudeWrtMeanSeaLevel

8.852.2.3 gpsTime* QmiCbkLocBestAvailPosInd::pGpsTime

8.852.2.4 ULONG* QmiCbkLocBestAvailPosInd::pHeading

8.852.2.5 ULONG* QmiCbkLocBestAvailPosInd::pHeadingUnc

8.852.2.6 BYTE* QmiCbkLocBestAvailPosInd::pHorCirConf

8.852.2.7 BYTE* QmiCbkLocBestAvailPosInd::pHorEllpConf

8.852.2.8 ULONG* QmiCbkLocBestAvailPosInd::pHorReliability

8.852.2.9 ULONG* QmiCbkLocBestAvailPosInd::pHorUncCircular

8.852.2.10 ULONG* QmiCbkLocBestAvailPosInd::pHorUncEllipseOrientAzimuth

8.852.2.11 ULONG* QmiCbkLocBestAvailPosInd::pHorUncEllipseSemiMajor

8.852.2.12 ULONG* QmiCbkLocBestAvailPosInd::pHorUncEllipseSemiMinor

8.852.2.13 ULONGLONG* QmiCbkLocBestAvailPosInd::pLatitude

8.852.2.14 ULONGLONG* QmiCbkLocBestAvailPosInd::pLongitude

8.852.2.15 ULONG* QmiCbkLocBestAvailPosInd::pMagneticDeviation

8.852.2.16 precisionDilution* QmiCbkLocBestAvailPosInd::pPrecisionDilution

8.852.2.17 sensorDataUsage* QmiCbkLocBestAvailPosInd::pSensorDataUsage

8.852.2.18 ULONG* QmiCbkLocBestAvailPosInd::pSpeedHorizontal

8.852.2.19 ULONG* QmiCbkLocBestAvailPosInd::pSpeedUnc

8.852.2.20 ULONG* QmiCbkLocBestAvailPosInd::pSpeedVertical

8.852.2.21 ULONG* QmiCbkLocBestAvailPosInd::pSpeedVerticalUnc

8.852.2.22 svUsedforFix* QmiCbkLocBestAvailPosInd::pSvUsedforFix

8.852.2.23 ULONG* QmiCbkLocBestAvailPosInd::pTechnologyMask

8.852.2.24 ULONG* QmiCbkLocBestAvailPosInd::pTimeSrc

8.852.2.25 ULONGLONG* QmiCbkLocBestAvailPosInd::pTimestampUtc

8.852.2.26 ULONG* QmiCbkLocBestAvailPosInd::pTimeUnc

8.852.2.27 BYTE* QmiCbkLocBestAvailPosInd::pVertConfidence

8.852.2.28 ULONG* QmiCbkLocBestAvailPosInd::pVertReliability

8.852.2.29 ULONG* QmiCbkLocBestAvailPosInd::pVertUnc

8.852.2.30 ULONG* QmiCbkLocBestAvailPosInd::pXid

8.852.2.31 struct qmTlvResult QmiCbkLocBestAvailPosInd::results

8.852.2.32 ULONG QmiCbkLocBestAvailPosInd::status

8.853 QmiCbkLocCradleMountInd Struct Reference

Data Fields

- struct qmTlvResult results
- ULONG cradleMountConfigStatus

8.853.1 Detailed Description

This structure contains LOC Cradle Mount Config Status

Parameters

cradleMount-ConfigStatus	• Values – 0 - Request was completed successfully – 1 - Request failed because of a general failure. – 2 - Request failed because it is not supported. – 3 - Request failed because it contained invalid parameters – 4 - Request failed because the engine is busy – 5 - Request failed because the phone is offline – 6 - Request failed because it timed out – 7 - Request failed because an undefined configuration was requested – 8 - engine could not allocate sufficient memory – 9 - Request failed because the maximum number of Geofences are already programmed – 10 -Location service failed because of an XTRA version-based file format check failure

8.853.2 Field Documentation

8.853.2.1 ULONG QmiCbkLocCradleMountInd::cradleMountConfigStatus

8.853.2.2 struct qmTlvResult QmiCbkLocCradleMountInd::results

8.854 QmiCbkLocEngineStateInd Struct Reference

Data Fields

- struct qmTlvResult results
- ULONG engineState

8.854.1 Detailed Description

This structure contains LOC Engine State field.

Parameters

engineState	• Location engine state. • Valid values – 1 - Location engine is on – 2 - Loction engine is off

8.854.2 Field Documentation

8.854.2.1 ULONG QmiCbkLocEngineStateInd::engineState

8.854.2.2 struct qmTlvResult QmiCbkLocEngineStateInd::results

8.855 QmiCbkLocEventNMEAInd Struct Reference

Data Fields

- struct qmTlvResult results
- CHAR * pNMEAData

8.855.1 Detailed Description

NMEA Event Notification callback.

Parameters

pNMEAData	• NMEA string • Type - NULLterminated string • Maximum string length (including NULL terminator) - 201

8.855.2 Field Documentation

8.855.2.1 CHAR* QmiCbkLocEventNMEAInd::pNMEAData

8.855.2.2 struct qmTlvResult QmiCbkLocEventNMEAInd::results

8.856 QmiCbkLocEventTimeSyncInd Struct Reference

Data Fields

- struct qmTlvResult results
- ULONG timeSyncRefCounter

8.856.1 Detailed Description

This structure contains LOC Event Time Sync Reference COunter

Parameters

timeSyncRef-Counter	• Sent by the location engine when it needs to synchronize location engine and control point (sensor processor) times.

8.856.2 Field Documentation

8.856.2.1 struct qmTlvResult QmiCbkLocEventTimeSyncInd::results

8.856.2.2 ULONG QmiCbkLocEventTimeSyncInd::timeSyncRefCounter

8.857 QmiCbkLocGetServerInd Struct Reference

Data Fields

- struct qmTlvResult results
- ULONG serverStatus
- ULONG serverType
- IPv4Info * pIPv4AddrInfo
- IPv6Info * pIPv6AddrInfo
- urlAddr * pURL

8.857.1 Detailed Description

This structure contains LOC Get Server field.

Parameters

serverStatus	• Status of the Get Server request. • Valid values – eQMI_LOC_SUCCESS (0) - Request was completed successfully – eQMI_LOC_GENERAL_FAILURE (1) - Request failed because of a general failure – eQMI_LOC_UNSUPPORTED (2) - Request failed because it is not supported – eQMI_LOC_INVALID_PARAMETER (3) - Request failed because it contained invalid parameters – eQMI_LOC_ENGINE_BUSY (4) - Request failed because the engine is busy – eQMI_LOC_PHONE_OFFLINE (5) - Request failed because the phone is offline – eQMI_LOC_TIMEOUT (6) - Request failed because it timed out – eQMI_LOC_CONFIG_NOT_SUPPORTED (7) - Request failed because an undefined configuration was requested – eQMI_LOC_INSUFFICIENT_MEMORY (8) - Request failed because the engine could not allocate sufficient memory for the request – eQMI_LOC_MAX_GEOFENCE_PROGRAMMED (9) - Request failed because the maximum number of Geofences are already programmed – eQMI_LOC_XTRA_VERSION_CHECK_FAILURE (10) - Location service failed because of an XTRA version-based file format check failure

serverType	• Type of server. • Valid values – eQMI_LOC_SERVER_TYPE_CDMA_PDE (1) - Server type is CDMA PDE – eQMI_LOC_SERVER_TYPE_CDMA_MPC (2) - Server type is CDMA MPC – eQMI_LOC_SERVER_TYPE_UMTS_SLP (3) - Server type is UMTS SLP – eQMI_LOC_SERVER_TYPE_CUSTOM_PDE (4) - Server type is custom PDE
pIPv4AddrInfo	• See IPv4Info for more information.
pIPv6AddrInfo	• See IPv6Info for more information.
pURL	• See urlAddr for more information.

8.857.2 Field Documentation

8.857.2.1 IPv4Info* QmiCbkLocGetServerInd::pIPv4AddrInfo

8.857.2.2 IPv6Info* QmiCbkLocGetServerInd::pIPv6AddrInfo

8.857.2.3 urlAddr* QmiCbkLocGetServerInd::pURL

8.857.2.4 struct qmTlvResult QmiCbkLocGetServerInd::results

8.857.2.5 ULONG QmiCbkLocGetServerInd::serverStatus

8.857.2.6 ULONG QmiCbkLocGetServerInd::serverType

8.858 QmiCbkLocInjectPositionInd Struct Reference

Data Fields

- struct qmTlvResult results
- ULONG status

8.858.1 Detailed Description

Contain the parameters passed for SetLocInjectPositionCallback by the device.

Parameters

status	• UTC Position Injection Status • Valid values: – eQMI_LOC_SUCCESS (0) - Request was completed successfully – eQMI_LOC_GENERAL_FAILURE (1) - Request failed because of a general failure – eQMI_LOC_UNSUPPORTED (2) - Request failed because it is not supported – eQMI_LOC_INVALID_PARAMETER (3) - Request failed because it contained invalid parameters – eQMI_LOC_ENGINE_BUSY (4) - Request failed because the engine is busy – eQMI_LOC_PHONE_OFFLINE (5) - Request failed because the phone is offline – eQMI_LOC_TIMEOUT (6) - Request failed because it timed out – eQMI_LOC_CONFIG_NOT_SUPPORTED (7) - Request failed because an undefined configuration was requested – eQMI_LOC_INSUFFICIENT_MEMORY (8) - Request failed because the engine could not allocate sufficient memory for the request – eQMI_LOC_MAX_GEOFENCE_PROGRAMMED (9) - Request failed because the maximum number of Geofences are already programmed – eQMI_LOC_XTRA_VERSION_CHECK_FAILURE (10) - Location service failed because of an XTRA version-based file format check failure

Note

None

8.858.2 Field Documentation

8.858.2.1 struct qmTlvResult QmiCbkLocInjectPositionInd::results

8.858.2.2 ULONG QmiCbkLocInjectPositionInd::status

8.859 QmiCbkLocInjectSensorDataInd Struct Reference

Data Fields

- struct qmTlvResult results
- ULONG injectSensorDataStatus
- ULONG * pOpaqueIdentifier
- BYTE * pAccelSamplesAccepted
- BYTE * pGyroSamplesAccepted
- BYTE * pAccelTempSamplesAccepted
- BYTE * pGyroTempSamplesAccepted

8.859.1 Detailed Description

This structure contains LOC Inject Sensor Data

Parameters

injectSensor-DataStatus	• Values – 0 - Request was completed successfully – 1 - Request failed because of a general failure. – 2 - Request failed because it is not supported. – 3 - Request failed because it contained invalid parameters – 4 - Request failed because the engine is busy – 5 - Request failed because the phone is offline – 6 - Request failed because it timed out – 7 - Request failed because an undefined configuration was requested – 8 - engine could not allocate sufficient memory – 9 - Request failed because the maximum number of Geofences are already programmed – 10 -Location service failed because of an XTRA version-based file format check failure
pOpaque-Identifier	• Sent in by the client echoed so the client can relate the indication to the request.
pAccelSamples-Accepted	• Lets the client know how many 3-axis accelerometer samples were accepted. • This field is present only if the accelerometer samples were sent in the request.
pGyroSamples-Accepted	• Lets the client know how many 3-axis gyroscope samples were accepted. • This field is present only if the gyroscope samples were sent in the request.
pAccelTemp-Samples-Accepted	• Lets the client know how many accelerometer temperature samples were accepted. • This field is present only if the accelerometer temperature samples were sent in the request.
pGyroTemp-Samples-Accepted	• Lets the client know how many gyroscope temperature samples were accepted. • This field is present only if the gyroscope temperature samples were sent in the request.

8.859.2 Field Documentation

8.859.2.1 ULONG QmiCbkLocInjectSensorDataInd::injectSensorDataStatus

8.859.2.2 BYTE* QmiCbkLocInjectSensorDataInd::pAccelSamplesAccepted

8.859.2.3 BYTE* QmiCbkLocInjectSensorDataInd::pAccelTempSamplesAccepted

8.859.2.4 BYTE* QmiCbkLocInjectSensorDataInd::pGyroSamplesAccepted

8.859.2.5 BYTE* QmiCbkLocInjectSensorDataInd::pGyroTempSamplesAccepted

8.859.2.6 ULONG* QmiCbkLocInjectSensorDataInd::pOpaqueIdentifier

8.859.2.7 struct qmTlvResult QmiCbkLocInjectSensorDataInd::results

8.860 QmiCbkLocInjectTimeInd Struct Reference

Data Fields

- struct qmTlvResult results
- ULONG injectTimeSyncStatus

8.860.1 Detailed Description

This structure contains LOC Inject Time Sync Data Status

Parameters

injectTimeSyncStatus	• Values – 0 - Request was completed successfully – 1 - Request failed because of a general failure. – 2 - Request failed because it is not supported. – 3 - Request failed because it contained invalid parameters – 4 - Request failed because the engine is busy – 5 - Request failed because the phone is offline – 6 - Request failed because it timed out – 7 - Request failed because an undefined configuration was requested – 8 - engine could not allocate sufficient memory – 9 - Request failed because the maximum number of Geofences are already programmed – 10 -Location service failed because of an XTRA version-based file format check failure

8.860.2 Field Documentation

8.860.2.1 ULONG QmiCbkLocInjectTimeInd::injectTimeSyncStatus

8.860.2.2 struct qmTlvResult QmiCbkLocInjectTimeInd::results

8.861 QmiCbkLocInjectUTCTimeInd Struct Reference

Data Fields

- struct qmTlvResult results
- ULONG status

8.861.1 Detailed Description

Contain the parameters passed for SetLocInjectUTCTimeCallback by the device.

Parameters

status	• Status of the UTC Time Injection request • Valid values: – eQMI_LOC_SUCCESS (0) - Request was completed successfully – eQMI_LOC_GENERAL_FAILURE (1) - Request failed because of a general failure – eQMI_LOC_UNSUPPORTED (2) - Request failed because it is not supported – eQMI_LOC_INVALID_PARAMETER (3) - Request failed because it contained invalid parameters – eQMI_LOC_ENGINE_BUSY (4) - Request failed because the engine is busy – eQMI_LOC_PHONE_OFFLINE (5) - Request failed because the phone is offline – eQMI_LOC_TIMEOUT (6) - Request failed because it timed out

Note

None

8.861.2 Field Documentation

8.861.2.1 struct qmTlvResult QmiCbkLocInjectUTCTimeInd::results

8.861.2.2 ULONG QmiCbkLocInjectUTCTimeInd::status

8.862 QmiCbkLocOpModeInd Struct Reference

Data Fields

- struct qmTlvResult results
- ULONG mode

8.862.1 Detailed Description

Operation mode callback function.

Parameters

mode[OUT]	• Status of the Set Operation Mode request. • Valid values – eQMI_LOC_SUCCESS - 0 - Request was completed successfully – eQMI_LOC_GENERAL_FAILURE - 1 - Request failed because of a general failure – eQMI_LOC_UNSUPPORTED - 2 - Request failed because it is not supported – eQMI_LOC_INVALID_PARAMETER -3 - Request failed because it contained invalid parameters – eQMI_LOC_ENGINE_BUSY - 4 - Request failed because the engine is busy – eQMI_LOC_PHONE_OFFLINE - 5 -Request failed because the phone is offline – eQMI_LOC_TIMEOUT - 6 - Request failed because it timed out – eQMI_LOC_CONFIG_NOT_SUPPORTED -7 - Request failed because an undefined configuration was requested – eQMI_LOC_INSUFFICIENT_MEMORY - 8 - Request failed because the engine could not allocate sufficient memory for the request – eQMI_LOC_MAX_GEOFENCE_PROGRAMMED - 9 - Request failed because the maximum number of Geofences are already programmed – eQMI_LOC_XTRA_VERSION_CHECK_FAILURE - 10 - Location service failed because of an XTRA version-based file format check failure

8.862.2 Field Documentation

8.862.2.1 ULONG QmiCbkLocOpModeInd::mode

8.862.2.2 struct qmTlvResult QmiCbkLocOpModeInd::results

8.863 QmiCbkLocPositionReportInd Struct Reference

Data Fields

- struct qmTlvResult results
- ULONG sessionStatus
- BYTE sessionId
- ULONGLONG * pLatitude
- ULONGLONG * pLongitude
- ULONG * pHorUncCircular
- ULONG * pHorUncEllipseSemiMinor
- ULONG * pHorUncEllipseSemiMajor
- ULONG * pHorUncEllipseOrientAzimuth
- BYTE * pHorConfidence
- ULONG * pHorReliability
- ULONG * pSpeedHorizontal
- ULONG * pSpeedUnc
- ULONG * pAltitudeWrtEllipsoid
- ULONG * pAltitudeWrtMeanSeaLevel
- ULONG * pVertUnc
- BYTE * pVertConfidence
- ULONG * pVertReliability
- ULONG * pSpeedVertical
- ULONG * pHeading
- ULONG * pHeadingUnc

- ULONG * pMagneticDeviation
- ULONG * pTechnologyMask
- precisionDilution * pPrecisionDilution
- ULONGLONG * pTimestampUtc
- BYTE * pLeapSeconds
- gpsTime * pGpsTime
- ULONG * pTimeUnc
- ULONG * pTimeSrc
- sensorDataUsage * pSensorDataUsage
- ULONG * pFixId
- svUsedforFix * pSvUsedforFix
- BYTE * pAltitudeAssumed

8.863.1 Detailed Description

This structure contains Event Position Report

Parameters

sessionStatus	• Values – 0 - Session was successful – 1 - Session is still in progress; further position reports will be generated until either the fix criteria specified by the client are met or the client response timeout occurs. – 2 - Session failed.. – 3 - Fix request failed because the session timed out. – 4 - Fix request failed because the session was ended by the user. – 5 - Fix request failed due to bad parameters in the request. – 6 - Fix request failed because the phone is offline. – 7 - Fix request failed because the engine is locked
sessionId	• ID of the session that was specified in the Start request • Range - 0 to 255
pLatitude	• Latitude (specified in WGS84 datum) • Type - Floating point • Units - Degrees • Range - -90.0 to 90.0 • Positive values indicate northern latitude • Negative values indicate southern latitude
pLongitude	• Longitude (specified in WGS84 datum) • Type - Floating point • Units - Degrees • Range - -180.0 to 180.0 • Positive values indicate eastern latitude • Negative values indicate western latitude

pHorUncCircular	• Horizontal position uncertainty. • Units - Meters
pHorUncEllipse-SemiMinor	• Semi-minor axis of horizontal elliptical uncertainty. • Units - Meters
pHorUncEllipse-SemiMajor	• Semi-major axis of horizontal elliptical uncertainty. • Units: Meters
pHorUncEllipse-OrientAzimuth	• Elliptical horizontal uncertainty azimuth of orientation. • Units - Decimal degrees • Range - 0 to 180
pHorConfidence	• Horizontal uncertainty confidence. • If both elliptical and horizontal uncertainties are specified in this message, the confidence corresponds to the elliptical uncertainty. • Units - Percentage • Range 0-99
pHorReliability	• Values – 0 - Location reliability is not set. – 1 - Location reliability is very low; use it at your own risk – 2 - Location reliability is low; little or no cross-checking is possible. – 3 - Location reliability is medium; limited cross-check passed – 4 - Location reliability is high; strong cross-check passed
pSpeed-Horizontal	• Horizontal speed. • Units - Meters/second
pSpeedUnc	• 3-D Speed uncertainty. • Units - Meters/second.
pAltitudeWrt-Ellipsoid	• Altitude With Respect to WGS84 Ellipsoid. • Units - Meters • Range -500 to 15883
pAltitudeWrt-MeanSeaLevel	• Altitude With Respect to Sea Level. • Units - Meters

pVertUnc	• Vertical uncertainty. • Units - Meters
pVertConfidence	• Vertical uncertainty confidence. • Units - Percentage • Range 0 to 99
pVertReliability	• Values – 0 - Location reliability is not set. – 1 - Location reliability is very low; use it at your own risk. – 2 - Location reliability is low; little or no cross-checking is possible – 3 - Location reliability is medium; limited cross-check passed – 4 - Location reliability is high; strong cross-check passed
pSpeedVertical	• Vertical speed. • Units - Meters/second
pHeading	• Heading. • Units - Degree • Range 0 to 359.999
pHeadingUnc	• Heading uncertainty. • Units - Degree • Range 0 to 359.999
pMagnetic-Deviation	• Difference between the bearing to true north and the bearing shown on a magnetic compass. The deviation is positive when the magnetic north is east of true north.
pTechnology-Mask	• Values – 0x00000001 - Satellites were used to generate the fix – 0x00000002 - Cell towers were used to generate the fix – 0x00000004 - Wi-Fi access points were used to generate the fix – 0x00000008 - Sensors were used to generate the fix – 0x00000010 - Reference Location was used to generate the fix – 0x00000020 - Coarse position injected into the location engine was used to generate the fix – 0x00000040 - AFLT was used to generate the fix – 0x00000080 - GNSS and network-provided measurements were used to generate the fix
-pPrecision-Dilution	• See precisionDilution for more information

pTimestampUtc	• UTC timestamp • Units - Milliseconds since Jan. 1, 1970
pLeapSeconds	• Leap second information. If leapSeconds is not available, timestampUtc is calculated based on a hard-coded value for leap seconds. • Units - Seconds
-pGpsTime	• See gpsTime for more information
pTimeUnc	• Time uncertainty. • Units - Milliseconds
pTimeSrc	• Values – 0 - Invalid time. – 1 - Time is set by the 1X system. – 2 - Time is set by WCDMA/GSM time tagging. – 3 - Time is set by an external injection. – 4 - Time is set after decoding over-the-air GPS navigation data from one GPS satellite. – 5 - Time is set after decoding over-the-air GPS navigation data from multiple satellites. – 6 - Both time of the week and the GPS week number are known. – 7 - Time is set by the position engine after the fix is obtained – 8 - Time is set by the position engine after performing SFT, this is done when the clock time uncertainty is large. – 9 - Time is set after decoding GLO satellites. – 10- Time is set after transforming the GPS to GLO time – 11- Time is set by the sleep time tag provided by the WCDMA network. – 12- Time is set by the sleep time tag provided by the GSM network – 13- Source of the time is unknown – 14- Time is derived from the system clock (better known as the slow clock); GNSS time is maintained irrespective of the GNSS receiver state – 15- Time is set after decoding QZSS satellites. – 16- Time is set after decoding BDS satellites.
-pSensorData-Usage	• See sensorDataUsage for more information
pFixId	• Fix count for the session. Starts with 0 and increments by one for each successive position report for a particular session.
-pSvUsedforFix	• See svUsedforFix for more information
pAltitude-Assumed	• Indicates whether altitude is assumed or calculated.

- Value
  - 0x00 - Altitude is calculated
  - 0x01 - Altitude is assumed

8.863.2 Field Documentation

8.863.2.1 BYTE* QmiCbkLocPositionReportInd::pAltitudeAssumed

8.863.2.2 ULONG* QmiCbkLocPositionReportInd::pAltitudeWrtEllipsoid

8.863.2.3 ULONG* QmiCbkLocPositionReportInd::pAltitudeWrtMeanSeaLevel

8.863.2.4 ULONG* QmiCbkLocPositionReportInd::pFixId

8.863.2.5 gpsTime* QmiCbkLocPositionReportInd::pGpsTime

8.863.2.6 ULONG* QmiCbkLocPositionReportInd::pHeading

8.863.2.7 ULONG* QmiCbkLocPositionReportInd::pHeadingUnc

8.863.2.8 BYTE* QmiCbkLocPositionReportInd::pHorConfidence

8.863.2.9 ULONG* QmiCbkLocPositionReportInd::pHorReliability

8.863.2.10 ULONG* QmiCbkLocPositionReportInd::pHorUncCircular

8.863.2.11 ULONG* QmiCbkLocPositionReportInd::pHorUncEllipseOrientAzimuth

8.863.2.12 ULONG* QmiCbkLocPositionReportInd::pHorUncEllipseSemiMajor

8.863.2.13 ULONG* QmiCbkLocPositionReportInd::pHorUncEllipseSemiMinor

8.863.2.14 ULONGLONG* QmiCbkLocPositionReportInd::pLatitude

8.863.2.15 BYTE* QmiCbkLocPositionReportInd::pLeapSeconds

8.863.2.16 ULONGLONG* QmiCbkLocPositionReportInd::pLongitude

8.863.2.17 ULONG* QmiCbkLocPositionReportInd::pMagneticDeviation

8.863.2.18 precisionDilution* QmiCbkLocPositionReportInd::pPrecisionDilution

8.863.2.19 sensorDataUsage* QmiCbkLocPositionReportInd::pSensorDataUsage

8.863.2.20 ULONG* QmiCbkLocPositionReportInd::pSpeedHorizontal

8.863.2.21 ULONG* QmiCbkLocPositionReportInd::pSpeedUnc

8.863.2.22 ULONG* QmiCbkLocPositionReportInd::pSpeedVertical

8.863.2.23 svUsedforFix* QmiCbkLocPositionReportInd::pSvUsedforFix

8.863.2.24 ULONG* QmiCbkLocPositionReportInd::pTechnologyMask

8.863.2.25 ULONG* QmiCbkLocPositionReportInd::pTimeSrc

8.863.2.26 ULONGLONG* QmiCbkLocPositionReportInd::pTimestampUtc

8.863.2.27 ULONG* QmiCbkLocPositionReportInd::pTimeUnc

8.863.2.28 BYTE* QmiCbkLocPositionReportInd::pVertConfidence

8.863.2.29 ULONG* QmiCbkLocPositionReportInd::pVertReliability

8.863.2.30 ULONG* QmiCbkLocPositionReportInd::pVertUnc

8.863.2.31 struct qmTlvResult QmiCbkLocPositionReportInd::results

8.863.2.32 BYTE QmiCbkLocPositionReportInd::sessionId

8.863.2.33 ULONG QmiCbkLocPositionReportInd::sessionStatus

8.864 QmiCbkLocSensorStreamingInd Struct Reference

Data Fields

- struct qmTlvResult results
- accelAcceptReady * pAccelAcceptReady
- gyroAcceptReady * pGyroAcceptReady
- accelTempAcceptReady * pAccelTempAcceptReady
- gyroTempAcceptReady * pGyroTempAcceptReady

8.864.1 Detailed Description

This structure contains LOC Event Sensor Streaming Ready Status

Parameters

-pAccelAcceptReady	• See accelAcceptReady for more information
-pGyroAcceptReady	• See gyroAcceptReady for more information
-pAccelTempAcceptReady	• See accelTempAcceptReady for more information
-pGyroTempAcceptReady	• See gyroTempAcceptReady for more information

8.864.2 Field Documentation

8.864.2.1 accelAcceptReady* QmiCbkLocSensorStreamingInd::pAccelAcceptReady

8.864.2.2 accelTempAcceptReady* QmiCbkLocSensorStreamingInd::pAccelTempAcceptReady

8.864.2.3 gyroAcceptReady* QmiCbkLocSensorStreamingInd::pGyroAcceptReady

8.864.2.4 gyroTempAcceptReady* QmiCbkLocSensorStreamingInd::pGyroTempAcceptReady

8.864.2.5 struct qmTlvResult QmiCbkLocSensorStreamingInd::results

8.865 QmiCbkLocSetExtPowerConfigInd Struct Reference

Data Fields

- struct qmTlvResult results
- ULONG status

8.865.1 Detailed Description

This structure contains LOC Set External Power Config Status

Parameters

status	• Values – 0 - Request was completed successfully – 1 - Request failed because of a general failure. – 2 - Request failed because it is not supported. – 3 - Request failed because it contained invalid parameters – 4 - Request failed because the engine is busy – 5 - Request failed because the phone is offline – 6 - Request failed because it timed out – 7 - Request failed because an undefined configuration was requested – 8 - engine could not allocate sufficient memory – 9 - Request failed because the maximum number of Geofences are already programmed – 10 -Location service failed because of an XTRA version-based file format check failure

8.865.2 Field Documentation

8.865.2.1 struct qmTlvResult QmiCbkLocSetExtPowerConfigInd::results

8.865.2.2 ULONG QmiCbkLocSetExtPowerConfigInd::status

8.866 QmiCbkLocSetServerInd Struct Reference

Data Fields

- ULONG serverStatus

8.866.1 Detailed Description

This structure contains LOC Set Server field.

Parameters

serverStatus	• Status of the Get Server request. • Valid values – eQMI_LOC_SUCCESS (0) - Request was completed successfully – eQMI_LOC_GENERAL_FAILURE (1) - Request failed because of a general failure – eQMI_LOC_UNSUPPORTED (2) - Request failed because it is not supported – eQMI_LOC_INVALID_PARAMETER (3) - Request failed because it contained invalid parameters – eQMI_LOC_ENGINE_BUSY (4) - Request failed because the engine is busy – eQMI_LOC_PHONE_OFFLINE (5) - Request failed because the phone is offline – eQMI_LOC_TIMEOUT (6) - Request failed because it timed out – eQMI_LOC_CONFIG_NOT_SUPPORTED (7) - Request failed because an undefined configuration was requested – eQMI_LOC_INSUFFICIENT_MEMORY (8) - Request failed because the engine could not allocate sufficient memory for the request – eQMI_LOC_MAX_GEOFENCE_PROGRAMMED (9) - Request failed because the maximum number of Geofences are already programmed – eQMI_LOC_XTRA_VERSION_CHECK_FAILURE (10) - Location service failed because of an XTRA version-based file format check failure

8.866.2 Field Documentation

8.866.2.1 ULONG QmiCbkLocSetServerInd::serverStatus

8.867 QmiCbkNasLTECphyCaInfo Struct Reference

Data Fields

- PhyCaAggScellIndType sPhyCaAggScellIndType
- PhyCaAggScellDlBw sPhyCaAggScellDlBw
- PhyCaAggScellInfo sPhyCaAggScellInfo
- PhyCaAggPcellInfo sPhyCaAggPcellInfo
- PhyCaAggScellIndex sPhyCaAggScellIndex

8.867.1 Detailed Description

Structure for storing the LTEC PHY CA indication parameters.

Parameters

pPhyCaAggScellIndType	• See PhyCaAggScellIndType for more information.
sPhyCaAggScellDlBw	• See PhyCaAggScellDlBw for more information.
sPhyCaAggScellInfo	• See PhyCaAggScellInfo for more information.

sPhyCaAgg-PcellInfo	• See PhyCaAggPcellInfo for more information.
sPhyCaAgg-ScellIndex	• See PhyCaAggScellIndex for more information.

8.867.2 Field Documentation

8.867.2.1 PhyCaAggPcellInfo QmiCbkNasLTECphyCaInfo::sPhyCaAggPcellInfo

8.867.2.2 PhyCaAggScellDlBw QmiCbkNasLTECphyCaInfo::sPhyCaAggScellDlBw

8.867.2.3 PhyCaAggScellIndex QmiCbkNasLTECphyCaInfo::sPhyCaAggScellIndex

8.867.2.4 PhyCaAggScellIndType QmiCbkNasLTECphyCaInfo::sPhyCaAggScellIndType

8.867.2.5 PhyCaAggScellInfo QmiCbkNasLTECphyCaInfo::sPhyCaAggScellInfo

8.868 QmiCbkSwiOmaDmEventStatusReportInd Struct Reference

Data Fields

- struct sessionInfoTlv SITlv

8.868.1 Field Documentation

8.868.1.1 struct sessionInfoTlv QmiCbkSwiOmaDmEventStatusReportInd::SITlv

8.869 QmiCbkSwiOmaDmEventStatusReportIndExt Struct Reference

Data Fields

- struct sessionInfoTlvExt SITlv

8.869.1 Field Documentation

8.869.1.1 struct sessionInfoTlvExt QmiCbkSwiOmaDmEventStatusReportIndExt::SITlv

8.870 QmiCbkTmdMitiLvlRptInd Struct Reference

Data Fields

- _MitigationDevInfo MitigationDevInfo
- BYTE currentMitigationLvl

8.870.1 Detailed Description

This structure contains LOC Cradle Mount Config Status

Parameters

MitigationDevInfo	• See MitigationDevInfo for more information.
currentMitigationLvl	• Current Thermal Mitigation Level

8.870.2 Field Documentation

8.870.2.1 BYTE QmiCbkTmdMitiLvlRptInd::currentMitigationLvl

8.870.2.2 _MitigationDevInfo QmiCbkTmdMitiLvlRptInd::MitigationDevInfo

8.871 QmiCbkWdsStatisticsIndState Struct Reference

Data Fields

- DataULongTlv TxOkConutTlv
- DataULongTlv RxOkConutTlv
- DataULongLongTlv TxOkByteCountTlv
- DataULongLongTlv RxOkByteCountTlv
- DataULongTlv TxDropConutTlv
- DataULongTlv RxDropConutTlv

8.871.1 Detailed Description

WDS Pkt RM Transfer Statistics data structure for individual session

Parameters

TxOkConutTlv	• Tx Ok Packet Tlv Value.
RxOkConutTlv	• Rx Ok Packet Tlv Value.
TxOkByteCountTlv	• Tx Ok Byte Count Packet Tlv Value.
RxOkByteCountTlv	• Rx Ok Byte Count Packet Tlv Value.
TxDropConutTlv	• Tx Drop Count Packet Tlv Value.
RxDropConutTlv	• Rx Drop Count Packet Tlv Value.

8.871.2 Field Documentation

8.871.2.1 DataULongTlv QmiCbkWdsStatisticsIndState::RxDropConutTlv

8.871.2.2 DataULongLongTlv QmiCbkWdsStatisticsIndState::RxOkByteCountTlv

8.871.2.3 DataULongTlv QmiCbkWdsStatisticsIndState::RxOkConutTlv

8.871.2.4 DataULongTlv QmiCbkWdsStatisticsIndState::TxDropConutTlv

8.871.2.5 DataULongLongTlv QmiCbkWdsStatisticsIndState::TxOkByteCountTlv

8.871.2.6 DataULongTlv QmiCbkWdsStatisticsIndState::TxOkConutTlv

8.872 qmifwinfo_s Struct Reference

Data Fields

- union {
  struct fwinfo_s g
  struct slqsfwinfo_s s
  } dev

8.872.1 Detailed Description

Top level structure for storing information about firmware images. union of structures depending on device type, MC77xx or MC83xx

Parameters

g	- structure for MC83xx devices
s	- structure for devices with SPKG CWE file support

- List of various Firmware Images Supported

```
Technology  Initials  Carrier                      Region                Network Technology
----------  --------  ---------------------------  -------------------  --------------------
D3600       S         eGOBI_IMG_CAR_SPRINT         eGOBI_IMG_REG_NA      eGOBI_IMG_TECH_CDMA
D3600       V         eGOBI_IMG_CAR_VERIZON        eGOBI_IMG_REG_NA      eGOBI_IMG_TECH_CDMA
D3600       C         eGOBI_IMG_CAR_CHINA_TELECOM  eGOBI_IMG_REG_ASIA    eGOBI_IMG_TECH_CDMA
D3600       G         eGOBI_IMG_CAR_GENERIC_CDMA   eGOBI_IMG_REG_GLOBAL  eGOBI_IMG_TECH_CDMA (item for Generic
D3600       H         eGOBI_IMG_CAR_GENERIC_CDMA   eGOBI_IMG_REG_GLOBAL  eGOBI_IMG_TECH_CDMA (item for Generic
D3200       V         eGOBI_IMG_CAR_VODAFONE       eGOBI_IMG_REG_NA      eGOBI_IMG_TECH_UMTS
D3200       A         eGOBI_IMG_CAR_ATT            eGOBI_IMG_REG_NA      eGOBI_IMG_TECH_UMTS
D3200       L         eGOBI_IMG_CAR_TMOBILE        eGOBI_IMG_REG_EU      eGOBI_IMG_TECH_UMTS
D3200       G         eGOBI_IMG_CAR_GENERIC        eGOBI_IMG_REG_GLOBAL  eGOBI_IMG_TECH_UMTS
D3200       H         eGOBI_IMG_CAR_TELEFONICA     eGOBI_IMG_REG_EU      eGOBI_IMG_TECH_UMTS
D3200       I         eGOBI_IMG_CAR_TELCOM_ITALIA  eGOBI_IMG_REG_NA      eGOBI_IMG_TECH_UMTS
D3200       O         eGOBI_IMG_CAR_ORANGE         eGOBI_IMG_REG_NA      eGOBI_IMG_TECH_UMTS
D3200       U         eGOBI_IMG_CAR_GENERIC        eGOBI_IMG_REG_GLOBAL  eGOBI_IMG_TECH_UMTS
D3200       R         eGOBI_IMG_CAR_ROGERS         eGOBI_IMG_REG_NA      eGOBI_IMG_TECH_UMTS
D3600       A         eGOBI_IMG_CAR_AERIS          eGOBI_IMG_REG_NA      eGOBI_IMG_TECH_CDMA
```

See Also

fwinfo_s
slqsfwinfo_s

8.872.2 Field Documentation

8.872.2.1 union { ... } qmifwinfo_s::dev

8.872.2.2 struct fwinfo_s qmifwinfo_s::g

8.872.2.3 struct slqsfwinfo_s qmifwinfo_s::s

8.873 QmiNas3GppNetworkInfo Struct Reference

Data Fields

- WORD pMCC
- WORD pMNC
- ULONG pInUse
- ULONG pRoaming
- ULONG pForbidden
- ULONG pPreferred
- CHAR pDesription [255]

8.873.1 Detailed Description

This structure contains the PerformNetworkScan response parameters. This structure will hold the array of the netwok scan information.

Parameters

pMCC	• Mobile Country Code
pMNC	• Mobile Networ Code
pInUse	• Is the Network the current serving Network – 0 – Unknown – 1 – Current serving network – 2 – Not current serving network, available
pRoaming	• Home/Roam Status of the Network – 0 – Unknown – 1 – Home – 2 – Roam
pForbidden	• Is the Network in the forbidden network list – 0 – Unknown – 1 – Forbidden – 2 – Not Forbidden

pPreferred	• Is the Network in the Preferred network list – 0 – Unknown – 1 – Preferred – 2 – Not Preferred
pDesription	• Network Name/Description

8.873.2 Field Documentation

8.873.2.1 CHAR QmiNas3GppNetworkInfo::pDesription[255]

8.873.2.2 ULONG QmiNas3GppNetworkInfo::pForbidden

8.873.2.3 ULONG QmiNas3GppNetworkInfo::pInUse

8.873.2.4 WORD QmiNas3GppNetworkInfo::pMCC

8.873.2.5 WORD QmiNas3GppNetworkInfo::pMNC

8.873.2.6 ULONG QmiNas3GppNetworkInfo::pPreferred

8.873.2.7 ULONG QmiNas3GppNetworkInfo::pRoaming

8.874 QmiNasGetRFBandInfoResp Struct Reference

Data Fields

- struct qmTlvResult results
- BYTE ∗ pInstancesSize
- struct RFBandInfoElements ∗ pRFBandInfoElements
- RfDedicatedBandInfo ∗ pRfDedicatedBandInfo
- RfBandInfoExtFormat ∗ pRfBandInfoExtFormat
- RfBandwidthInfo ∗ pRfBandwidthInfo
- LTEOperationMode ∗ pLTEOperationMode

8.874.1 Field Documentation

8.874.1.1 BYTE∗ QmiNasGetRFBandInfoResp::pInstancesSize

8.874.1.2 LTEOperationMode∗ QmiNasGetRFBandInfoResp::pLTEOperationMode

8.874.1.3 struct RFBandInfoElements∗ QmiNasGetRFBandInfoResp::pRFBandInfoElements

8.874.1.4 RfBandInfoExtFormat∗ QmiNasGetRFBandInfoResp::pRfBandInfoExtFormat

8.874.1.5 RfBandwidthInfo∗ QmiNasGetRFBandInfoResp::pRfBandwidthInfo

8.874.1.6 RfDedicatedBandInfo∗ QmiNasGetRFBandInfoResp::pRfDedicatedBandInfo

8.874.1.7 struct qmTlvResult QmiNasGetRFBandInfoResp::results

8.875 QmiNasPerformNetworkScanResp Struct Reference

Data Fields

- struct qmTlvResult results
- BYTE * pInstanceSize
- struct QmiNas3GppNetworkInfo * pInstances

8.875.1 Field Documentation

8.875.1.1 struct QmiNas3GppNetworkInfo* QmiNasPerformNetworkScanResp::pInstances

8.875.1.2 BYTE* QmiNasPerformNetworkScanResp::pInstanceSize

8.875.1.3 struct qmTlvResult QmiNasPerformNetworkScanResp::results

8.876 qmiSmsMessageList Struct Reference

Data Fields

- uint32_t messageIndex
- uint32_t messageTag

8.876.1 Detailed Description

This structure contains SMS message list.

Parameters

messageIndex	• Message index of each matched message
messageTag	• Messagetag

8.876.2 Field Documentation

8.876.2.1 uint32_t qmiSmsMessageList::messageIndex

8.876.2.2 uint32_t qmiSmsMessageList::messageTag

8.877 qmiWDSDataBearerTechnology Struct Reference

Data Fields

- uint8_t currentNetwork
- uint32_t ratMask
- uint32_t soMask

8.877.1 Detailed Description

Structure to hold the current data bearer technology values

Parameters

currentNetwork[-OUT]	• current selected network – 0 - UNKNOWN – 1 - 3GPP2 – 2 - 3GPP – 0xff - Invalid data.
ratMask[OUT]	• Radio Access Technology (RAT) mask to indicate the type of technology (RAT mask value of zero indicates that this field is ignored) – 0x8000 - NULL Bearer – 0x0000 - DO_NOT_CARE CDMA RAT mask – 0x01 - CDMA_1X – 0x02 - EVDO_REV0 – 0x04 - EVDO_REVA UMTS RAT mask – 0x01 - WCDMA – 0x02 - GPRS – 0x04 - HSDPA – 0x08 - HSUPA – 0x10 - EDGE – 0x20 - LTE – 0x40 - HSDPA+ – 0x80 - DC_HSDPA+ – 0xffffffff - Invalid data.
soMask[OUT]	• Service Option (SO) mask to indicate the SO or type of application (SO mask value of zero indicates that this field is ignored) – 0x00 - DO_NOT_CARE CDMA 1X SO mask – 0x01 - CDMA_1X_IS95 – 0x02 - CDMA_1X_IS2000 – 0x04 - CDMA_1X_IS2000_REL_A CDMA EV-DO Rev A SO mask – 0x01 - EVDO_REVA_DPA – 0x02 - EVDO_REVA_MFPA – 0x04 - EVDO_REVA_EMPA – 0x08 - EVDO_REVA_EMPA_EHRPD – 0xffffffff - Invalid data.

8.877.2 Field Documentation

8.877.2.1 uint8_t qmiWDSDataBearerTechnology::currentNetwork

8.877.2.2 uint32_t qmiWDSDataBearerTechnology::ratMask

8.877.2.3 uint32_t qmiWDSDataBearerTechnology::soMask

8.878 QmiWdsIpAddressInfo Struct Reference

Data Fields

- ULONG * pIPAddressV4
- USHORT * pIPAddressV6
- BYTE * pIPv6prefixlen

8.878.1 Detailed Description

Parameters

pIPAddressV4[-OUT]	• Current IPv4 address • default value of 0 if not reported by the device.
pIPAddressV6[-OUT]	• Current IPv6 address Space for storing the 8 element array of type USHORT for the IPv6 address is allocated by the application. The IP Address is stored in the user supplied buffer as follows: User buffer: [<U0>..<U7>] IPv6 address from the network: 1234:2A01:....:5678 User buffer contents: U0 corresponds to 1234 U1 corresponds to 2A01 – ----------— – -— – ----------— – -— U7 corresponds to 5678
pIPv6prefixlen[-OUT]	• IPv6 prefix length in number of bits

8.878.2 Field Documentation

8.878.2.1 ULONG* QmiWdsIpAddressInfo::pIPAddressV4

8.878.2.2 USHORT* QmiWdsIpAddressInfo::pIPAddressV6

8.878.2.3 BYTE* QmiWdsIpAddressInfo::pIPv6prefixlen

8.879 qmiWdsRunTimeSettings Struct Reference

Data Fields

- CHAR * pProfileName
- ULONG * pPDPType
- CHAR * pAPNName
- ULONG * pPrimaryDNSV4
- ULONG * pSecondaryDNSV4
- struct UMTSQoS * pUMTSGrantedQoS

- struct GPRSQoS * pGPRSGrantedQoS
- CHAR * pUsername
- ULONG * pAuthentication
- ULONG * pIPAddressV4
- struct ProfileIdentifier * pProfileID
- ULONG * pGWAddressV4
- ULONG * pSubnetMaskV4
- BYTE * pPCSCFAddrPCO
- struct PCSCFIPv4ServerAddressList * pServerAddrList
- struct PCSCFFQDNAddressList * pPCSCFFQDNAddrList
- USHORT * pPrimaryDNSV6
- USHORT * pSecondaryDNSV6
- ULONG * pMtu
- struct DomainNameList * pDomainList
- BYTE * pIPFamilyPreference
- BYTE * pIMCNflag
- WORD * pTechnology
- struct IPV6AddressInfo * pIPV6AddrInfo
- struct IPV6GWAddressInfo * pIPV6GWAddrInfo

8.879.1 Detailed Description

This structure contains the WdsRunTimeSettings Information

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

pProfileName	• Profile name One or more bytes describing the profile. Description may be a user-defined name for the profile. QMI_ERR_ARG_TOO_LONG is returned if profile_name is too long.
pPDPType	• PDP type – 0 - PDP-IP (IPv4) – 1 - PDP-PPP – 2 - PDP-IPv6 – 3 - PDP-IPv4v6 – 0xffffffff - invalid
pAPNName	• Access point name String parameter that is a logical name used to select the GGSN and external packet data network. If value is NULL or omitted, then the subscription default value is requested. QMI_ERR_ARG_TOO_LONG is returned if the APN name is too long.
pPrimaryDNSV4	• Primary DNS IPv4 Address
pSecondaryDNSV4	• Secondary DNS IPv4 Address

pUMTSGranted-QoS	• UMTS Granted QoS
pGPRSGranted-QoS	• GPRS Granted QoS
pUsername	• User name used during data network authentication
pAuthentication	• Authentication preference – Bit 0 - PAP preference * 0 - PAP is never performed * 1 - PAP may be performed – Bit 1 - CHAP preference * 0 - CHAP is never performed * 1 - CHAP may be performed
pIPAddressV4	• IPV4 Address assigned to the TE
pProfileID	• Profile Identifier
pGWAddressV4	• IPV4 Gateway Address
pSubnetMaskV4	• IPV4 Subnet Mask
pPCSCFAddrP-CO	• PCSCF address using PCO values – 1 - (TRUE) implies request PCSCF address using PCO – 0 - (FALSE) implies do not request. This is the default value.
pServerAddrList	• P-CSCF IPv4 Server Address List
pPCSCFFQDN-AddrList	• P-CSCF FQDN Address List
pPrimaryDNSV6	• Primary DNS IPv6 Address
pSecondaryDN-SV6	• Secondary DNS IPv6 Address
pMtu	• actual (runtime) MTU size
pDomainList	• Domain-Name List

pIPFamily-Preference	• IP family – 0x04 - IPV4 ADDR – 0x06 - IPV6 ADDR
pIMCNflag	• IM CN Flag – 0x00 - FALSE – 0x01 - TRUE
pTechnology	• Technology – CDMA - 0x8001 – UMTS - 0x8004
pIPV6Address-Info	• IPV6 Address Information
pIPV6GW-AddressInfo	• IPV6 Gateway Address Information

8.879.2 Field Documentation

8.879.2.1 CHAR∗ qmiWdsRunTimeSettings::pAPNName

8.879.2.2 ULONG∗ qmiWdsRunTimeSettings::pAuthentication

8.879.2.3 struct DomainNameList∗ qmiWdsRunTimeSettings::pDomainList

8.879.2.4 struct GPRSQoS∗ qmiWdsRunTimeSettings::pGPRSGrantedQoS

8.879.2.5 ULONG∗ qmiWdsRunTimeSettings::pGWAddressV4

8.879.2.6 BYTE∗ qmiWdsRunTimeSettings::pIMCNflag

8.879.2.7 ULONG∗ qmiWdsRunTimeSettings::pIPAddressV4

8.879.2.8 BYTE∗ qmiWdsRunTimeSettings::pIPFamilyPreference

8.879.2.9 struct IPV6AddressInfo∗ qmiWdsRunTimeSettings::pIPV6AddrInfo

8.879.2.10 struct IPV6GWAddressInfo∗ qmiWdsRunTimeSettings::pIPV6GWAddrInfo

8.879.2.11 ULONG∗ qmiWdsRunTimeSettings::pMtu

8.879.2.12 BYTE∗ qmiWdsRunTimeSettings::pPCSCFAddrPCO

8.879.2.13 struct PCSCFFQDNAddressList∗ qmiWdsRunTimeSettings::pPCSCFFQDNAddrList

8.879.2.14 ULONG∗ qmiWdsRunTimeSettings::pPDPType

8.879.2.15 ULONG∗ qmiWdsRunTimeSettings::pPrimaryDNSV4

8.879.2.16 USHORT* qmiWdsRunTimeSettings::pPrimaryDNSV6

8.879.2.17 struct ProfileIdentifier* qmiWdsRunTimeSettings::pProfileID

8.879.2.18 CHAR* qmiWdsRunTimeSettings::pProfileName

8.879.2.19 ULONG* qmiWdsRunTimeSettings::pSecondaryDNSV4

8.879.2.20 USHORT* qmiWdsRunTimeSettings::pSecondaryDNSV6

8.879.2.21 struct PCSCFIPv4ServerAddressList* qmiWdsRunTimeSettings::pServerAddrList

8.879.2.22 ULONG* qmiWdsRunTimeSettings::pSubnetMaskV4

8.879.2.23 WORD* qmiWdsRunTimeSettings::pTechnology

8.879.2.24 struct UMTSQoS* qmiWdsRunTimeSettings::pUMTSGrantedQoS

8.879.2.25 CHAR* qmiWdsRunTimeSettings::pUsername

8.880 qos_BindDataPortMuxID_t Struct Reference

Data Fields

- uint8_t MuxID

8.880.1 Detailed Description

Structure that contains the request Binds a control point to a data port Mux ID data.

Parameters

MuxID	Mux ID: • 0x80-0x8F : valid value

8.880.2 Field Documentation

8.880.2.1 uint8_t qos_BindDataPortMuxID_t::MuxID

8.881 qos_BindDataPortPeripheralEndPointID_t Struct Reference

Data Fields

- uint32_t EndPointType
- uint32_t IfaceID

8.881.1 Detailed Description

Structure that contains the request Binds a control point to a data port Periapheral End Point Type data.

Parameters

EndPointType	Peripheral end point type. Values: • 0 - Reserved • 1 - HSIC • 2 - HSUSB • 3 - PCIE • 4 - Embedded
IfaceID	Peripheral interface number.

8.881.2 Field Documentation

8.881.2.1 uint32_t qos_BindDataPortPeripheralEndPointID_t::EndPointType

8.881.2.2 uint32_t qos_BindDataPortPeripheralEndPointID_t::IfaceID

8.882 qos_BindDataPortSIODataPort_t Struct Reference

Data Fields

- uint16_t SIODataPort

8.882.1 Detailed Description

Structure that contains the request Binds a control point to a data port SIO Data Port data.

Parameters

u16SIODataPort	SIO Data Port to which the client binds

8.882.2 Field Documentation

8.882.2.1 uint16_t qos_BindDataPortSIODataPort_t::SIODataPort

8.883 QosClassID Struct Reference

Data Fields

- BYTE QCI
- ULONG gDlBitRate
- ULONG maxDlBitRate
- ULONG gUlBitRate
- ULONG maxUlBitRate

8.883.1 Detailed Description

structure contains 3GPP LTE QoS parameters

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

QCI	• QOS specified using the QOS Class Identifier (QOS) values QCI value 0 - Requests the network to assign the appropriate QCI value QCI values 1-4 - Associated with guaranteed bit rates QCI values 5-9 - Associated with non-guaranteed bit rates
gDlBitRate	• Guaranteed DL bit rate
maxDlBitRate	• maxDlBitRate
gUlBitRate	• Guaranteed UL bit rate
maxUlBitRate	• Maximum UL bit rate

8.883.2 Field Documentation

8.883.2.1 ULONG QosClassID::gDlBitRate

8.883.2.2 ULONG QosClassID::gUlBitRate

8.883.2.3 ULONG QosClassID::maxDlBitRate

8.883.2.4 ULONG QosClassID::maxUlBitRate

8.883.2.5 BYTE QosClassID::QCI

8.884 QosEventInfo Struct Reference

Data Fields

- ULONG * pDataBearer
- ULONG * pPacketsCountTX
- ULONG * pPacketsCountRX
- ULONGLONG * pTotalBytesTX
- ULONGLONG * pTotalBytesRX

8.884.1 Detailed Description

Contains the WDS event information and information about the interface

Parameters

pQmiInterface-Info	• See qaQmiInterfaceInfo for more information
pDataBearer	• Data bearer technology (NULL if not present) – 0x00 - Indicates that this field is ignored – 0x01 - CDMA 1X – 0x02 - EV-DO Rev 0 – 0x03 - GPRS – 0x04 - WCDMA – 0x05 - EV-DO Rev A – 0x06 - EDGE – 0x07 - HSDPA and WCDMA – 0x08 - WCDMA and HSUPA – 0x09 - HSDPA and HSUPA – 0x0A - LTE – 0x0B - EV-DO Rev A EHRPD – 0x0C - HSDPA+ and WCDMA – 0x0D - HSDPA+ and HSUPA – 0x0E - DC_HSDPA+ and WCDMA – 0x0F - DC_HSDPA+ and HSUPA – 0x8000 - NULL Bearer – 0xFF - Unknown Technology
pDormancy-Status	• Dormancy status (NULL if not present) – 1 - traffic channel dormant – 2 - traffic channel active
pPacketsCount-TX	• Packets transmitted without error (NULL if not present)
pPacketsCount-RX	• Packets received without error (NULL if not present)
pTotalBytesTX	• Bytes transmitted without error (NULL if not present)
pTotalBytesRX	• Bytes received without error (NULL if not present)

8.884.2 Field Documentation

8.884.2.1 ULONG* QosEventInfo::pDataBearer

8.884.2.2 ULONG* QosEventInfo::pPacketsCountRX

8.884.2.3 ULONG* QosEventInfo::pPacketsCountTX

8.884.2.4 ULONGLONG* QosEventInfo::pTotalBytesRX

8.884.2.5 ULONGLONG* QosEventInfo::pTotalBytesTX

8.885 QosFlowInfo Struct Reference

Data Fields

- QosFlowInfoState * pQFlowState
- swiQosFlow * pTxQFlowGranted
- swiQosFlow * pRxQFlowGranted
- swiQosFilter * pTxQFilter [MAX_QOS_FILTER_TLV]
- swiQosFilter * pRxQFilter [MAX_QOS_FILTER_TLV]
- BYTE * pBearerID

8.885.1 Detailed Description

This structure contains QoS flow info

Parameters

pQFlowState	• QoS flow state information, please check QosFlowInfoState for more information
pTxQFlow-Granted	• pointer to the Tx Qos flow granted, please check swiQosFlow for more information
pRxQFlow-Granted	• pointer to the Rx Qos flow granted
pTxQFilter	• pointer to the Tx Qos filter
pRxQFilter	• pointer to the Rx Qos flow
pBearerID	• pointer to the bearer ID • Bearer ID or Radio Link Protocol (RLP) ID of the activated flow. • Valid Values - 0 to 16 • 0xFF - Invalid value.

8.885.2 Field Documentation

8.885.2.1 BYTE* QosFlowInfo::pBearerID

8.885.2.2 QosFlowInfoState* QosFlowInfo::pQFlowState

8.885.2.3 swiQosFilter* QosFlowInfo::pRxQFilter[MAX_QOS_FILTER_TLV]

8.885.2.4 swiQosFlow* QosFlowInfo::pRxQFlowGranted

8.885.2.5 swiQosFilter* QosFlowInfo::pTxQFilter[MAX_QOS_FILTER_TLV]

8.885.2.6 swiQosFlow* QosFlowInfo::pTxQFlowGranted

8.886 QosFlowInfoState Struct Reference

Data Fields

- ULONG id
- BYTE isNewFlow
- BYTE state

8.886.1 Detailed Description

This structure contains QoS flow state

Parameters

id	QoS identifier
isNewFlow	• 1 – Newly added flow • 0 – Existing flow
state	This indicates that the flow that was added/modified/deleted: • 0x01 – Flow activated • 0x02 – Flow modified • 0x03 – Flow deleted • 0x04 – Flow suspended • 0x05 – Flow enabled • 0x06 – Flow disabled

8.886.2 Field Documentation

8.886.2.1 ULONG QosFlowInfoState::id

8.886.2.2 BYTE QosFlowInfoState::isNewFlow

8.886.2.3 BYTE QosFlowInfoState::state

8.887 QosMap Struct Reference

Data Fields

- BYTE dscp
- ULONG qos_id
- BYTE state

8.887.1 Detailed Description

This structure contains the SLQSQosDumpMap Information

Parameters

dscp	• Differential Service Code Point(DSCP) value
qos_id	• QoS identifier
state	• QoS Flow state

8.887.2 Field Documentation

8.887.2.1 BYTE QosMap::dscp

8.887.2.2 ULONG QosMap::qos_id

8.887.2.3 BYTE QosMap::state

8.888 RankIndicatorInd Struct Reference

Data Fields

- WORD Count1
- WORD Count2

8.888.1 Field Documentation

8.888.1.1 WORD RankIndicatorInd::Count1

8.888.1.2 WORD RankIndicatorInd::Count2

8.889 RatDisabledMaskTlv Struct Reference

Data Fields

- WORD ratDisabledMask
- BYTE TlvPresent

8.889.1 Detailed Description

Contain the RAT disabled mask

Parameters

ratDisabledMask	• Bitmask representing the radio technologies that are disabled. • Bit values: – Bit 0 (0x01) - cdma2000 ® 1X – Bit 1 (0x02) - cdma2000 ® HRPD(1xEV-DO) – Bit 2 (0x04) - GSM – Bit 3 (0x08) - UMTS – Bit 4 (0x10) - LTE – Bit 5 (0x20) - TD-SCDMA – Bit 6 (0x40) - NR5G All unlisted bits are reserved for future use and the service point ignores them if used.
TlvPresent	• Tlv Present

8.889.2 Field Documentation

8.889.2.1 WORD RatDisabledMaskTlv::ratDisabledMask

8.889.2.2 BYTE RatDisabledMaskTlv::TlvPresent

8.890 readResult Struct Reference

Data Fields

- WORD contentLen
- BYTE content [255+1]

8.890.1 Detailed Description

This structure contains the information for write operation.

Parameters

contentLen	• Number of sets of content.
content[MAX_DESCRIPTION_LENGTH]	• Read content. • The content is the sequence of bytes as read from the card.

8.890.2 Field Documentation

8.890.2.1 BYTE readResult::content[255+1]

8.890.2.2 WORD readResult::contentLen

8.891 readTransparentInfo Struct Reference

Data Fields

- WORD offset
- WORD length

8.891.1 Detailed Description

This structure contains the information for read operation.

Parameters

offset	• Offset for the read operation.
length	• Length of the content to be read. • The value 0 is used to read the complete file.

8.891.2 Field Documentation

8.891.2.1 WORD readTransparentInfo::length

8.891.2.2 WORD readTransparentInfo::offset

8.892 redirNumInfo Struct Reference

Data Fields

- BYTE PI
- BYTE SI
- BYTE numType
- BYTE numPlan
- BYTE reason
- BYTE numLen
- BYTE number [255]

8.892.1 Detailed Description

This structure contains Redirecting Number Information

Parameters

PI	• Presentation indicator; refer to [S1, Table 2.7.4.4-1] for valid values.
SI	• Number of sets of following elements – Caller Id

SI	• Number screening indicator. • Values: – 0x00 - QMI_VOICE_SI_USER_PROVIDED_NOT_SCREENED - Provided user is not screened – 0x01 - QMI_VOICE_SI_USER_PROVIDED_VERIFIED_PASSED - Provided user passed verification – 0x02 - QMI_VOICE_SI_USER_PROVIDED_VERIFIED_FAILED - Provided user failed verification – 0x03 - QMI_VOICE_SI_NETWORK_PROVIDED - Provided network
numType	• Number type. • Values: – 0x00 - QMI_VOICE_NUM_TYPE_UNKNOWN - Unknown – 0x01 - QMI_VOICE_NUM_TYPE_INTERNATIONAL - International – 0x02 - QMI_VOICE_NUM_TYPE_NATIONAL - National – 0x03 - QMI_VOICE_NUM_TYPE_NETWORK_SPECIFIC - Network-specific – 0x04 - QMI_VOICE_NUM_TYPE_SUBSCRIBER - Subscriber – 0x05 - QMI_VOICE_NUM_TYPE_RESERVED - Reserved – 0x06 - QMI_VOICE_NUM_TYPE_ABBREVIATED - Abbreviated – 0x07 - QMI_VOICE_NUM_TYPE_RESERVED_EXTENSION - Reserved extension
numPlan	• Number plan. • Values: – 0x00 - QMI_VOICE_NUM_PLAN_UNKNOWN - Unknown – 0x01 - QMI_VOICE_NUM_PLAN_ISDN - ISDN – 0x03 - QMI_VOICE_NUM_PLAN_DATA - Data – 0x04 - QMI_VOICE_NUM_PLAN_TELEX - Telex – 0x08 - QMI_VOICE_NUM_PLAN_NATIONAL - National – 0x09 - QMI_VOICE_NUM_PLAN_PRIVATE - Private – 0x0B - QMI_VOICE_NUM_PLAN_RESERVED_CTS - Reserved cordless telephony system – 0x0F - QMI_VOICE_NUM_PLAN_RESERVED_EXTENSION - Reserved extension
reason	-Redirecting reason; refer to [S1, Table 3.7.5.11-1] for valid values
numLen	• Provides the length of number which follow.
number[255]	• number of numLen length, NULL terminated.

8.892.2 Field Documentation

8.892.2.1 BYTE redirNumInfo::number[255]

8.892.2.2 BYTE redirNumInfo::numLen

8.892.2.3 BYTE redirNumInfo::numPlan

8.892.2.4 BYTE redirNumInfo::numType

8.892.2.5 BYTE redirNumInfo::PI

8.892.2.6 BYTE redirNumInfo::reason

8.892.2.7 BYTE redirNumInfo::SI

8.893 registerRefresh Struct Reference

Data Fields

- BYTE registerFlag
- BYTE voteForInit
- WORD numFiles
- fileInfo arrfileInfo [255]

8.893.1 Detailed Description

This structure contains paramaters of refresh Information

Parameters

registerFlag	• Flag that indicates whether to register or deregister for refresh indications. Valid values: – 0 - Deregister – 1 - Register
voteForInit	• Flag that indicates whether to vote for the init when there is a refresh. Valid values: – 0 - Client does not vote for initialization – 1 - Client votes for initialization
numFiles	• Number of sets of the following elements: – file_id – path_len – path
arrfileInfo	• Array of file Information structure. • See /ref fileInfo for more information

8.893.2 Field Documentation

8.893.2.1 fileInfo registerRefresh::arrfileInfo[255]

8.893.2.2 WORD registerRefresh::numFiles

8.893.2.3 BYTE registerRefresh::registerFlag

8.893.2.4 BYTE registerRefresh::voteForInit

8.894 remainingRetries Struct Reference

Data Fields

- BYTE verifyLeft
- BYTE unblockLeft

8.894.1 Detailed Description

This structure contains the information about the retries remaining.

Parameters

verifyLeft	• Number of remaining attempts to verify the PIN. • 0xFF, if unavailable.
unblockLeft	• Number of remaining attempts to unblock the PIN. • 0xFF, if unavailable.

Note

This value is returned only when the enable/disable operation has failed. This information is not sent for a hidden key PIN type.

8.894.2 Field Documentation

8.894.2.1 BYTE remainingRetries::unblockLeft

8.894.2.2 BYTE remainingRetries::verifyLeft

8.895 remotePartyName Struct Reference

Data Fields

- BYTE namePI
- BYTE codingScheme
- BYTE nameLen
- BYTE callerName [255]

8.895.1 Detailed Description

This structure contains information about the names that are dialed from the device or from which a call is received on the device.

Parameters

namePI	• Name presentation indicator. – 0x00 - PRESENTATION_NAME_PRESENTATION_ALLOWED - Allowed presentation – 0x01 - PRESENTATION_NAME_PRESENTATION_RESTRICTED - Restricted presentation – 0x02 - PRESENTATION_NAME_UNAVAILABLE - Unavailable presentation – 0x03 - PRESENTATION_NAME_NAME_PRESENTATION_RESTRICTED - Restricted name presentation – 0xFF - Not Available
codingScheme	• Refer to Table10 qaGobiApiTableCodingScheme.h for coding schemes • 0xFF - Not Available
nameLen	• Provides the length of name which follow. • If zero(0) then no further information exists.
callerName[MAX_DESCRIPTION_LENGTH]	• Name in ASCII, NULL ending.

8.895.2 Field Documentation

8.895.2.1 BYTE remotePartyName::callerName[255]

8.895.2.2 BYTE remotePartyName::codingScheme

8.895.2.3 BYTE remotePartyName::nameLen

8.895.2.4 BYTE remotePartyName::namePI

8.896 remotePartyNum Struct Reference

Data Fields

- BYTE presentationInd
- BYTE numLen
- BYTE remPartyNumber [81]

8.896.1 Detailed Description

This structure contains information about the numbers that are dialed from the device or from which a call is received on the device.

Parameters

presentationInd	• Presentation indicator. – 0x00 - PRESENTATION_ALLOWED - Allowed presentation – 0x01 - PRESENTATION_RESTRICTED - Restricted presentation – 0x02 - PRESENTATION_NUM_UNAVAILABLE - Unavailable presentation – 0x04 - PRESENTATION_PAYPHONE - Payphone presentation (GSM/UMTS specific) – 0xFF - Not Available
numLen	• Provides the length of number which follow. • If zero(0) then no further information exists.
remParty-Number[MAX_-CALL_NO_LEN]	• Array of numbers in ASCII, NULL ending.

8.896.2 Field Documentation

8.896.2.1 BYTE remotePartyNum::numLen

8.896.2.2 BYTE remotePartyNum::presentationInd

8.896.2.3 BYTE remotePartyNum::remPartyNumber[81]

8.897 ReqFieldsList Struct Reference

Data Fields

- BYTE requestFieldsLen
- BYTE requestFields [256]

8.897.1 Detailed Description

This structure contains the Supported Request Fields List Information

Parameters

requestFields-Len	• Number of sets of the request fields.
requestFields	• Describes which optional field IDs are supported in QMI Request. • Array of uint8 is a bitmask where each bit represents a field ID. • Field 0-15 are mandatory, First Bit represents field ID 16, • Starting with the LSB, bit 0 represents Field ID 16, bit 1 represents ID 17.

8.897.2 Field Documentation

8.897.2.1 BYTE ReqFieldsList::requestFields[256]

8.897.2.2 BYTE ReqFieldsList::requestFieldsLen

8.898 RespFieldsList Struct Reference

Data Fields

- BYTE responseFieldsLen
- BYTE responseFields [256]

8.898.1 Detailed Description

This structure contains the Supported Response Fields List Information

Parameters

responseFields-Len	• Number of sets of the response fields.
responseFields	• Describes which optional field IDs are supported in QMI Response. • Format is same as request field.

8.898.2 Field Documentation

8.898.2.1 BYTE RespFieldsList::responseFields[256]

8.898.2.2 BYTE RespFieldsList::responseFieldsLen

8.899 RFBandInfoElements Struct Reference

Data Fields

- BYTE radioInterface
- WORD activeBandClass
- WORD activeChannel
- uint8_t radioInterface
- uint16_t activeBandClass
- uint16_t activeChannel

8.899.1 Detailed Description

This structure contains the RFBandInfo response parameters.

Parameters

radioInterface	• Radio interface technology – See Tables for Radio Interface
activeBandClass	• Active Band Class – See Tables for Band Classes

activeChannel	• Active channel (0 if channel is not relevant to the reported technology)

This structure contains the RFBandInfo response parameters.

Parameters

radioInterface	• Radio interface technology – See Tables for Radio Interface
activeBandClass	• Active Band Class – See Tables for Band Classes
activeChannel	• Active channel (0 if channel is not relevant to the reported technology)

8.899.2 Field Documentation

8.899.2.1 WORD RFBandInfoElements::activeBandClass

8.899.2.2 uint16_t RFBandInfoElements::activeBandClass

8.899.2.3 WORD RFBandInfoElements::activeChannel

8.899.2.4 uint16_t RFBandInfoElements::activeChannel

8.899.2.5 BYTE RFBandInfoElements::radioInterface

8.899.2.6 uint8_t RFBandInfoElements::radioInterface

8.900 RfBandInfoExtFormat Struct Reference

Data Fields

- BYTE TlvPresent
- BYTE * pInstancesSize
- struct RfBandInfoExtFormatElements * pRfBandInfoExtFormatParam

8.900.1 Detailed Description

This structure contains the RfBandInfoExtFormat response parameters.

Parameters

TlvPresent	• Tlv Present

pInstancesSize[-IN/OUT]	• Number of sets of the RFBandInfoElements • Upon input, maximum number of elements that the RF info instances array can contain. • Upon successful output, actual number of elements in RF info instances array.
pRfBandInfoExt-FormatParam	• See RfBandInfoExtFormatElements for more information

8.900.2 Field Documentation

8.900.2.1 BYTE* RfBandInfoExtFormat::pInstancesSize

8.900.2.2 struct RfBandInfoExtFormatElements* RfBandInfoExtFormat::pRfBandInfoExtFormatParam

8.900.2.3 BYTE RfBandInfoExtFormat::TlvPresent

8.901 RfBandInfoExtFormatElements Struct Reference

Data Fields

- BYTE radioInterface
- WORD activeBand
- ULONG activeChannel

8.901.1 Detailed Description

This structure contains the RfBandInfoExtFormatElements response parameters.

Parameters

radioInterface	• Radio interface technology – See Tables for Radio Interface
activeBand	• Active Band Class – See Tables for Band Classes
activeChannel	• Active channel (0 if channel is not relevant to the reported technology)

8.901.2 Field Documentation

8.901.2.1 WORD RfBandInfoExtFormatElements::activeBand

8.901.2.2 ULONG RfBandInfoExtFormatElements::activeChannel

8.901.2.3 BYTE RfBandInfoExtFormatElements::radioInterface

8.902 RfBandInfoList Struct Reference

Data Fields

- BYTE * pInstanceSize
- struct RFBandInfoElements * pRFBandInfoParam

8.902.1 Detailed Description

This structure contains the RfBandInfoList response parameters.

Parameters

pInstanceSize[IN/OUT]	• Number of sets of the RFBandInfoElements • Upon input, maximum number of elements that the RF info instances array can contain. • Upon successful output, actual number of elements in RF info instances array.
pRFBandInfoParam	• See RFBandInfoElements for more information

8.902.2 Field Documentation

8.902.2.1 BYTE* RfBandInfoList::pInstanceSize

8.902.2.2 struct RFBandInfoElements* RfBandInfoList::pRFBandInfoParam

8.903 RfBandwidthInfo Struct Reference

Data Fields

- BYTE TlvPresent
- BYTE * pInstancesSize
- struct RfBandwidthInfoElements * pRfBandwidthInfoParam

8.903.1 Detailed Description

This structure contains the RfBandwidthInfo response parameters.

Parameters

TlvPresent	• Tlv Present
pInstancesSize[IN/OUT]	• Number of sets of the RFBandInfoElements • Upon input, maximum number of elements that the RF info instances array can contain. • Upon successful output, actual number of elements in RF info instances array.
pRfBandwidthInfoParam	• See RfBandwidthInfoElements for more information

8.903.2 Field Documentation

8.903.2.1 BYTE* RfBandwidthInfo::pInstancesSize

8.903.2.2 struct RfBandwidthInfoElements* RfBandwidthInfo::pRfBandwidthInfoParam

8.903.2.3 BYTE RfBandwidthInfo::TlvPresent

8.904 RfBandwidthInfoElements Struct Reference

Data Fields

- BYTE radioInterface
- ULONG bandwidth

8.904.1 Detailed Description

This structure contains the RfBandwidthInfoElements response parameters.

Parameters

radioInterface	• Radio interface technology – See Tables for Radio Interface
bandwidth	• Bandwidth – Values * NAS_LTE_BW_NRB_6 (0) - LTE 1.4 MHz bandwidth * NAS_LTE_BW_NRB_15 (1) - LTE 3 MHz bandwidth * NAS_LTE_BW_NRB_25 (2) - LTE 5 MHz bandwidth * NAS_LTE_BW_NRB_50 (3) - LTE 10 MHz bandwidth * NAS_LTE_BW_NRB_75 (4) - LTE 15 MHz bandwidth * NAS_LTE_BW_NRB_100 (5) - LTE 20 MHz bandwidth * NAS_NR5G_BW_NRB_6 (6) - NR5G 1.4 MHz bandwidth * NAS_NR5G_BW_NRB_15 (7) - NR5G 3 MHz bandwidth * NAS_NR5G_BW_NRB_25 (8) - NR5G 5 MHz bandwidth * NAS_NR5G_BW_NRB_50 (9) - NR5G 10 MHz bandwidth * NAS_NR5G_BW_NRB_75 (10) - NR5G 15 MHz bandwidth * NAS_NR5G_BW_NRB_100 (11) - NR5G 20 MHz bandwidth

8.904.2 Field Documentation

8.904.2.1 ULONG RfBandwidthInfoElements::bandwidth

8.904.2.2 BYTE RfBandwidthInfoElements::radioInterface

8.905 RfDedicatedBandInfo Struct Reference

Data Fields

- BYTE TlvPresent
- BYTE * pInstancesSize
- struct RfDedicatedBandInfoElements * pRfDedicatedBandInfoParam

8.905.1 Detailed Description

This structure contains the RfDedicatedBandInfo response parameters.

Parameters

TlvPresent	• Tlv Present
pInstancesSize[-IN/OUT]	• Number of sets of the RFBandInfoElements • Upon input, maximum number of elements that the RF info instances array can contain. • Upon successful output, actual number of elements in RF info instances array.
pRfDedicated-BandInfoParam	• See RfDedicatedBandInfoElements for more information

8.905.2 Field Documentation

8.905.2.1 BYTE* RfDedicatedBandInfo::pInstancesSize

8.905.2.2 struct RfDedicatedBandInfoElements* RfDedicatedBandInfo::pRfDedicatedBandInfoParam

8.905.2.3 BYTE RfDedicatedBandInfo::TlvPresent

8.906 RfDedicatedBandInfoElements Struct Reference

Data Fields

- BYTE radioInterface
- WORD dedicatedBand

8.906.1 Detailed Description

This structure contains the RfDedicatedBandInfoElements response parameters.

Parameters

radioInterface	• Radio interface technology – See Tables for Radio Interface
dedicatedBand	• Active Band Class – See Tables for Band Classes

8.906.2 Field Documentation

8.906.2.1 WORD RfDedicatedBandInfoElements::dedicatedBand

8.906.2.2 BYTE RfDedicatedBandInfoElements::radioInterface

8.907 rmTrasnferStaticsReq Struct Reference

Data Fields

- uint8_t bResetStatistics
- uint32_t ulMask

8.907.1 Detailed Description

RM Transfer Satistics Structure

Parameters

bResetStatistics	• Reset Statistics • Values: • 0 - Not Reset • Other - Reset
ulMask	• Enable/Disable RM Transfer Satatistics Indiscation Mask • Bit 0: Tx Packet Ok • Bit 1: Rx Packet Ok • Bit 2: Tx Bytes Ok • Bit 3: Rx Bytes Ok • Bit 4: Tx Packets Dropped • Bit 5: Rx Packets Dropped • Value: -0 - Disable -1 - Enable

8.907.2 Field Documentation

8.907.2.1 uint8_t rmTrasnferStaticsReq::bResetStatistics

8.907.2.2 uint32_t rmTrasnferStaticsReq::ulMask

8.908 roamIndList Struct Reference

Data Fields

- BYTE numInstances
- BYTE radioInterface [0x0A]
- BYTE roamIndicator [0x0A]

8.908.1 Detailed Description

This structure contains the Roaming Indicator List

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

numInstances	• number of sets of radio interface currently in use and roaming indicator – defaults to zero
radioInterface	• Radio Interface currently in use • Values: – 0x01 - RADIO_IF_CDMA_1X - cdma2000 1X – 0x02 - RADIO_IF_CDMA_1XEVDO - cdma2000 HRPD (1xEV-DO) – 0x03 - RADIO_IF_AMPS - AMPS – 0x04 - RADIO_IF_GSM - GSM – 0x05 - RADIO_IF_UMTS - UMTS – 0x08 - RADIO_IF_LTE - LTE
roamIndicator	• Roaming Indicator • Values: – 0x00 - Roaming – 0x01 - Home

8.908.2 Field Documentation

8.908.2.1 BYTE roamIndList::numInstances

8.908.2.2 BYTE roamIndList::radioInterface[0x0A]

8.908.2.3 BYTE roamIndList::roamIndicator[0x0A]

8.909 RoamingInfo Struct Reference

Data Fields

- BYTE TlvPresent
- BYTE roaming_ind

8.909.1 Field Documentation

8.909.1.1 BYTE RoamingInfo::roaming_ind

8.909.1.2 BYTE RoamingInfo::TlvPresent

8.910 roamTimer Struct Reference

Data Fields

- BYTE namID
- ULONG roamTimerValue

8.910.1 Detailed Description

This structure contains information about the Roam Timer.

Parameters

namID	• Index of the NAM(Number Assignment Module) to be configured. • Range 0 to 3. • Some modems support only 1 or 2 NAMs. • 0xFF,if not available.
roamTimerValue	• Time in minutes. • Cumulative air time is slammed. • 0xFFFFFFFF,if not available.

8.910.2 Field Documentation

8.910.2.1 BYTE roamTimer::namID

8.910.2.2 ULONG roamTimer::roamTimerValue

8.911 RSRPThresh Struct Reference

Data Fields

- BYTE RSRPThresListLen
- SHORT * pRSRPThresList

8.911.1 Detailed Description

This structure contains RSRP threshold related parameters.

Parameters

RSRPThresList-Len	• Length of the LTE RSRP threshold list parameter to follow
pRSRPThresList	• Sequence of thresholds delimiting current RSRP event reporting bands • Every time a new RSRP value crosses a specified threshold value, an event report indication message with the new RSRQ value is sent to the requesting control point. For this field – RSRP values are applicable only for LTE – RSRP values are measured in dBm, with a range of -44 dBm to -140 dBm – Each RSRP threshold value is a signed byte value – Maximum number of threshold values is 16 – At least one value must be specified

8.911.2 Field Documentation

8.911.2.1 SHORT* RSRPThresh::pRSRPThresList

8.911.2.2 BYTE RSRPThresh::RSRPThresListLen

8.912 rsrqInformation Struct Reference

Data Fields

- INT8 rsrq
- BYTE radioIf

8.912.1 Detailed Description

This structure contains the RSRQ Information

Parameters

rsrq	• RSRQ value in dB (signed integer value); valid range is -3 to -20 (-3 means -3 dB, -20 means -20 dB)
radioIf	• Radio interface technology of the signal being measured – 0x08 - LTE

8.912.2 Field Documentation

8.912.2.1 BYTE rsrqInformation::radioIf

8.912.2.2 INT8 rsrqInformation::rsrq

8.913 RSRQThresh Struct Reference

Data Fields

- BYTE RSRQThresListLen
- INT8 * pRSRQThresList

8.913.1 Detailed Description

This structure contains RSRQ threshold related parameters.

Parameters

RSRQThresList-Len	• Length of the LTE RSRQ threshold list parameter to follow
pRSRQThresList	• Sequence of thresholds delimiting current RSRQ event reporting bands • Every time a new RSRQ value crosses a threshold value, an event report indication message with the new RSRQ value is sent to the requesting control point. For this field – RSRQ values are applicable only for LTE – RSRQ values are measured in dBm, with a range of -20 dBm to -3 dBm – Each RSRQ threshold value is a signed byte value – Maximum number of threshold values is 16 – At least one value must be specified

8.913.2 Field Documentation

8.913.2.1 INT8* RSRQThresh::pRSRQThresList

8.913.2.2 BYTE RSRQThresh::RSRQThresListLen

8.914 RSSIThresh Struct Reference

Data Fields

- BYTE RSSIThresListLen
- INT8 * pRSSIThresList

8.914.1 Detailed Description

This structure contains RSSI threshold related parameters.

Parameters

RSSIThresList-Len	• Length of the RSSI threshold list parameter to follow
pRSSIThresList	• RSSI in dBm(signed bytes) • A value of -125 dBm or lower is used to indicate No Signal • RSSI values have the following ranges (in dBm) – CDMA is -105 to -21 – HDR is -118 to -13 – GSM is -111 to -48 – WCDMA is -121 to 0 – LTE is -120 to 0 • Threshold values specified above are used for all RATs • The maximum number of threshold values is 16, each a signed byte value.

8.914.2 Field Documentation

8.914.2.1 INT8∗ RSSIThresh::pRSSIThresList

8.914.2.2 BYTE RSSIThresh::RSSIThresListLen

8.915 RXAGCList Struct Reference

Data Fields

- WORD ∗ pRXStaticGain
- WORD ∗ pRXAIG
- WORD ∗ pRXExpThres
- WORD ∗ pRXExpSlope
- WORD ∗ pRXComprThres
- WORD ∗ pRXComprSlope

8.915.1 Detailed Description

This structure contains the SLQSGetAudioPathConfig parameters related to AV_RXAGCLIST.

Parameters

pRXStaticGain	• RX pre-compressor static gain
pRXAIG	• RX pre-compressor gain selection flag
pRXExpThres	• RX expansion threshold
pRXExpSlope	• RX expansion slope

pRXComprThres	• RX compression threshold
pRXComprSlope	• RX compression slope

8.915.2 Field Documentation

8.915.2.1 WORD* RXAGCList::pRXAIG

8.915.2.2 WORD* RXAGCList::pRXComprSlope

8.915.2.3 WORD* RXAGCList::pRXComprThres

8.915.2.4 WORD* RXAGCList::pRXExpSlope

8.915.2.5 WORD* RXAGCList::pRXExpThres

8.915.2.6 WORD* RXAGCList::pRXStaticGain

8.916 RXAVCList Struct Reference

Data Fields

- WORD * pAVRXAVCSens
- WORD * pAVRXAVCHeadroom

8.916.1 Detailed Description

This structure contains the SLQSGetAudioPathConfig parameters related to AV_RXAVCLIST.

Parameters

pAVRXAVC-Sens	• AVC variation from nominal sensitivity
pAVRXAVC-Headroom	• AVC headroom

8.916.2 Field Documentation

8.916.2.1 WORD* RXAVCList::pAVRXAVCHeadroom

8.916.2.2 WORD* RXAVCList::pAVRXAVCSens

8.917 rxInfo Struct Reference

Data Fields

- BYTE isRadioTuned

- INT32 rxPower
- INT32 ecio
- INT32 rscp
- INT32 rsrp
- ULONG phase

8.917.1 Detailed Description

This structure contains the Rx Information.

Parameters

isRadioTuned	• Whether Rx is tuned to a channel: – 0x00 - Not tuned – 0x01 - Tuned – 0xFF - Not Available • If the radio is tuned, instantaneous values are set for the signal information fields below. • If the radio is not tuned, or is delayed or invalid, the values are set depending on each technology.
rx_pwr	• Rx power value in 1/10 dbm resolution.
ecio	• ECIO in 1/10 dB; valid for CDMA, HDR, GSM, WCDMA, and LTE.
rscp	• Received signal code power in 1/10 dbm. • Valid for WCDMA.
rsrp	• Current reference signal received power in 1/10 dbm valid for LTE.
phase	• Phase in 1/100 degrees; valid for LTE. • When the phase is unknown, 0xFFFFFFFF is used.

8.917.2 Field Documentation

8.917.2.1 INT32 rxInfo::ecio

8.917.2.2 BYTE rxInfo::isRadioTuned

8.917.2.3 ULONG rxInfo::phase

8.917.2.4 INT32 rxInfo::rscp

8.917.2.5 INT32 rxInfo::rsrp

8.917.2.6 INT32 rxInfo::rxPower

8.918 RXPCMIIRFltr Struct Reference

Data Fields

- WORD * pFlag
- WORD * pStageCnt
- BYTE * pStage0Val
- BYTE * pStage1Val
- BYTE * pStage2Val
- BYTE * pStage3Val
- BYTE * pStage4Val

8.918.1 Detailed Description

This structure contains the SLQSGetAudioPathConfig parameters related to AV_RXPCMIIRFLTR.

Parameters

pFlag	• Flag – 0x0000 - IIR filter disable – 0xffff - IIR filter enable
pStageCnt	• Stage Count – 0-4
pStage0Val	• A 20 BYTE sized parameter indicating Stage 0 value – A1 – A2 – B0 – B1 – B2
pStage1Val	• A 20 BYTE sized parameter indicating Stage 1 value – A1 – A2 – B0 – B1 – B2
pStage2Val	• A 20 BYTE sized parameter indicating Stage 2 value – A1 – A2 – B0 – B1 – B2

pStage3Val	• A 20 BYTE sized parameter indicating Stage 3 value – A1 – A2 – B0 – B1 – B2
pStage4Val	• A 20 BYTE sized parameter indicating Stage 4 value – A1 – A2 – B0 – B1 – B2

8.918.2 Field Documentation

8.918.2.1 WORD* RXPCMIIRFItr::pFlag

8.918.2.2 BYTE* RXPCMIIRFItr::pStage0Val

8.918.2.3 BYTE* RXPCMIIRFItr::pStage1Val

8.918.2.4 BYTE* RXPCMIIRFItr::pStage2Val

8.918.2.5 BYTE* RXPCMIIRFItr::pStage3Val

8.918.2.6 BYTE* RXPCMIIRFItr::pStage4Val

8.918.2.7 WORD* RXPCMIIRFItr::pStageCnt

8.919 RxSigInfo Struct Reference

Data Fields

- BYTE rxChainIndex
- BYTE isRadioTuned
- INT32 rxPower
- INT32 rsrp

8.919.1 Detailed Description

This structure contains the parameters for Rx Signal Info.

Parameters

rxChainIndex	• Rx antenna path • Valid Values – 0 - Primary Rx – 1 - Diversity Rx
isRadioTuned	• Rx path is tuned to a channel or Not • Values – 0x00 - Not tuned – 0x01 - Tuned

Note

If the radio is tuned, the instantaneous values are set for the fields below. If the radio is not tuned, the values set below may be invalid.

Parameters

rxPower	• Rx power value in 1/10 dBm resolution
rsrp	• Current reference signal received power in 1/10 dBm resolution

8.919.2 Field Documentation

8.919.2.1 BYTE RxSigInfo::isRadioTuned

8.919.2.2 INT32 RxSigInfo::rsrp

8.919.2.3 BYTE RxSigInfo::rxChainIndex

8.919.2.4 INT32 RxSigInfo::rxPower

8.920 rxSignalStrengthListElement Struct Reference

Data Fields

- SHORT rxSignalStrength
- BYTE radioIf

8.920.1 Detailed Description

This structure contains the Received Signal Strength Information

Parameters

rxSignalStrength	• Received signal strength in dBm – For CDMA and UMTS, this indicates forward link pilotEc. – For GSM, the received signal strength. – For LTE, this indicates the total received wideband power observed by UE.
radioIf	• Radio interface technology of the signal being radio_if measured – 0x00 - RADIO_IF_NO_SVC - None (no service) – 0x01 - RADIO_IF_CDMA_1X - cdma2000Â® 1X – 0x02 - RADIO_IF_CDMA_1XEVDO - cdma2000 HRPD (1xEV-DO) – 0x03 - RADIO_IF_AMPS - AMPS – 0x04 - RADIO_IF_GSM - GSM – 0x05 - RADIO_IF_UMTS - UMTS – 0x08 - RADIO_IF_LTE - LTE

Note

First element of the RSSI list always contains the current Signal strength and Radio Interface.

8.920.2 Field Documentation

8.920.2.1 BYTE rxSignalStrengthListElement::radioIf

8.920.2.2 SHORT rxSignalStrengthListElement::rxSignalStrength

8.921 sApnExtraParams Struct Reference

Data Fields

- ULONG apnId
- BYTE ambr_ul
- BYTE ambr_dl
- BYTE ambr_ul_ext
- BYTE ambr_dl_ext
- BYTE ambr_ul_ext2
- BYTE ambr_dl_ext2

8.921.1 Detailed Description

This structure contains the Extra Apn Params

Parameters

apnId	• APN id • ID identifying the APN that the client would like to query the AMBR params
ambr_ul	• APN AMBR uplink • APN AMBR uplink values from 1 kbps to 8640 kbps

ambr_dl	• APN AMBR downlink • APN AMBR downlink values from 1 kbps to 8640 kbps
ambr_ul_ext	• Extended APN AMBR uplink • APN AMBR uplink values from 8700 kbps to 256 Mbps
ambr_dl_ext	• Extended APN AMBR downlink • APN AMBR downlink values from 8700 kbps to 256 Mbps
ambr_ul_ext2	• Second extended APN AMBR uplink • APN AMBR uplink values from 256 Mbps to 65280 Mbps
ambr_dl_ext2	• Second extended APN AMBR downlink • APN AMBR downlink values from 256 Mbps to 65280 Mbps

8.921.2 Field Documentation

8.921.2.1 BYTE sApnExtraParams::ambr_dl

8.921.2.2 BYTE sApnExtraParams::ambr_dl_ext

8.921.2.3 BYTE sApnExtraParams::ambr_dl_ext2

8.921.2.4 BYTE sApnExtraParams::ambr_ul

8.921.2.5 BYTE sApnExtraParams::ambr_ul_ext

8.921.2.6 BYTE sApnExtraParams::ambr_ul_ext2

8.921.2.7 ULONG sApnExtraParams::apnId

8.922 satelliteInfo Struct Reference

Data Fields

- BYTE svListLen
- ULONG validMask
- ULONG system
- WORD gnssSvId
- BYTE healthStatus
- ULONG svStatus
- BYTE svInfoMask
- FLOAT elevation
- FLOAT azimuth
- FLOAT snr

8.922.1 Detailed Description

Contain fields in struct satelliteInfo

Parameters

svListLen	• number of sets of the following elements: – validMask – system – gnssSvid – healthStatus – svStatus – svInfoMask – elevation – azimuth – snr
validMask	• Bitmask indicating which of the fields in this TLV are valid. Valid bitmasks: – 0x00000001 - VALID_SYSTEM – 0x00000002 - VALID_GNSS_SVID – 0x00000004 - VALID_HEALTH_STATUS – 0x00000008 - VALID_PROCESS_STATUS – 0x00000010 - VALID_SVINFO_MASK – 0x00000020 - VALID_ELEVATION – 0x00000040 - VALID_AZIMUTH – 0x00000080 - VALID_SNR
system	• Indicates to which constellation this SV belongs. Valid values: – eQMI_LOC_SV_SYSTEM_GPS (1) - GPS satellite – eQMI_LOC_SV_SYSTEM_GALILEO (2) - GALILEO satellite – eQMI_LOC_SV_SYSTEM_SBAS (3) - SBAS satellite – eQMI_LOC_SV_SYSTEM_COMPASS (4) - COMPASS satellite – eQMI_LOC_SV_SYSTEM_GLONASS (5) - GLONASS satellite – eQMI_LOC_SV_SYSTEM_BDS (6) - BDS satellite
gnssSvId	• GNSS SV ID. The GPS and GLONASS SVs can be disambiguated using the system field. Range: – FOR GPS: 1 to 32 – FOR GLONASS: 1 to 32 – FOR SBAS: 120 to 151 – for BDS: 201 to 237
healthStatus	• health status. Range: 0 - 1 – 0 - unhealthy – 1 - healthy

svStatus	• SV process status. Valid values: – eQMI_LOC_SV_STATUS_IDLE (1) - SV is not being actively processed – eQMI_LOC_SV_STATUS_SEARCH (2) - The system is searching for this SV – eQMI_LOC_SV_STATUS_TRACK (3) - SV is being tracked
svInfoMask	• Indicates whether almanac and ephemeris information is available. Valid bitmasks: – 0x01 - SVINFO_HAS_EPHEMERIS – 0x02 - SVINFO_HAS_ALMANAC
elevation	• SV elevation angle. – Units: Degrees – Range: 0 to 90
azimuth	• SV azimuth angle. – Units: Degrees – Range: 0 to 360
snr	• SV signal-to-noise ratio – Units: dB-Hz

Note

None

8.922.2 Field Documentation

8.922.2.1 FLOAT satelliteInfo::azimuth

8.922.2.2 FLOAT satelliteInfo::elevation

8.922.2.3 WORD satelliteInfo::gnssSvId

8.922.2.4 BYTE satelliteInfo::healthStatus

8.922.2.5 FLOAT satelliteInfo::snr

8.922.2.6 BYTE satelliteInfo::svInfoMask

8.922.2.7 BYTE satelliteInfo::svListLen

8.922.2.8 ULONG satelliteInfo::svStatus

8.922.2.9 ULONG satelliteInfo::system

8.922.2.10 ULONG satelliteInfo::validMask

8.923 SccRxInfo Struct Reference

Data Fields

- INT32 rsrq
- SHORT snr
- BYTE numInstances
- RxSigInfo sigInfo [255]
- BYTE TlvPresent

8.923.1 Detailed Description

This structure contains information about the SccRxInfo parameters.

Parameters

rsrq	• Current reference signal • Receive quality in 1/10 dB resolution
snr	• Reference signal signal-to-noise ratio in dB. • Range -10 to 30
numInstances	• Number of sets of the following – rxChainIndex – isRadioTuned – rxPower – rsrp
sigInfo	• See RxSigInfo for more information
TlvPresent	• Tlv Present.

8.923.2 Field Documentation

8.923.2.1 BYTE SccRxInfo::numInstances

8.923.2.2 INT32 SccRxInfo::rsrq

8.923.2.3 RxSigInfo SccRxInfo::sigInfo[255]

8.923.2.4 SHORT SccRxInfo::snr

8.923.2.5 BYTE SccRxInfo::TlvPresent

8.924 sensorData Struct Reference

Data Fields

- ULONG timeOfFirstSample
- BYTE flags
- BYTE sensorDataLen
- WORD timeOffset [64]
- ULONG xAxis [64]
- ULONG yAxis [64]
- ULONG zAxis [64]

8.924.1 Detailed Description

This structure specifies information regarding the 3-Axis Sensor Data.

Parameters

timeOfFirst-Sample	• Denotes a full 32-bit time stamp of the first (oldest) sample in this message. • The time stamp is in the time reference scale that is used by the sensor time source. • Units - Milliseconds
flags	• Flags to indicate any deviation from the default measurement assumptions. • All unused bits in this field must be set to 0. • Valid bitmasks – 0x01 - Bitmask to specify that a sign reversal is required while interpreting the sensor data; only applies to the accelerometer samples – 0x02 - Bitmask to specify that the sensor time stamp is the same as the modem time stamp
sensorDataLen	• Number of sets of the following elements – timeOffset – xAxis – yAxis – zAxis
timeOffset	• Sample time offset • Units - Milliseconds
xAxis	• Sensor x-axis sample. • Units Accelerometer - Meters/seconds square • Units Gyroscope - Radians/second
yAxis	• Sensor Y-axis sample. • Units Accelerometer - Meters/seconds square • Units Gyroscope - Radians/second

xAxis	• Sensor Z-axis sample. • Units Accelerometer - Meters/seconds square • Units Gyroscope - Radians/second

8.924.2 Field Documentation

8.924.2.1 BYTE sensorData::flags

8.924.2.2 BYTE sensorData::sensorDataLen

8.924.2.3 ULONG sensorData::timeOfFirstSample

8.924.2.4 WORD sensorData::timeOffset[64]

8.924.2.5 ULONG sensorData::xAxis[64]

8.924.2.6 ULONG sensorData::yAxis[64]

8.924.2.7 ULONG sensorData::zAxis[64]

8.925 sensorData_t Struct Reference

Data Fields

- uint32_t timeOfFirstSample
- uint8_t flags
- uint8_t sensorDataLen
- uint16_t timeOffset [64]
- uint32_t xAxis [64]
- uint32_t yAxis [64]
- uint32_t zAxis [64]

8.925.1 Detailed Description

This structure specifies information regarding the 3-Axis Sensor Data. Please check has_<Param_Name> field for presence of optional parameters

Parameters

timeOfFirst-Sample	• Denotes a full 32-bit time stamp of the first (oldest) sample in this message. • The time stamp is in the time reference scale that is used by the sensor time source. • Units - Milliseconds

flags	• Flags to indicate any deviation from the default measurement assumptions. • All unused bits in this field must be set to 0. • Valid bitmasks – 0x01 - Bitmask to specify that a sign reversal is required while interpreting the sensor data; only applies to the accelerometer samples – 0x02 - Bitmask to specify that the sensor time stamp is the same as the modem time stamp
sensorDataLen	• Number of sets of the following elements – timeOffset – xAxis – yAxis – zAxis
timeOffset	• Sample time offset • Units - Milliseconds
xAxis	• Sensor x-axis sample. • Units Accelerometer - Meters/seconds square • Units Gyroscope - Radians/second
yAxis	• Sensor Y-axis sample. • Units Accelerometer - Meters/seconds square • Units Gyroscope - Radians/second
xAxis	• Sensor Z-axis sample. • Units Accelerometer - Meters/seconds square • Units Gyroscope - Radians/second

8.925.2 Field Documentation

8.925.2.1 uint8_t sensorData_t::flags

8.925.2.2 uint8_t sensorData_t::sensorDataLen

8.925.2.3 uint32_t sensorData_t::timeOfFirstSample

8.925.2.4 uint16_t sensorData_t::timeOffset[64]

8.925.2.5 uint32_t sensorData_t::xAxis[64]

8.925.2.6 uint32_t sensorData_t::yAxis[64]

8.925.2.7 uint32_t sensorData_t::zAxis[64]

8.926 sensorDataUsage_s Struct Reference

Data Fields

- ULONG usageMask
- ULONG aidingIndicatorMask

8.926.1 Detailed Description

This structure contains Sensor Data Usage info.

Parameters

usageMask	• Specifies which sensors were used in calculating the position in the position report.

- Value
  - 0x00000001 - Accelerometer used
  - 0x00000002 - Gyroscope used

Parameters

aidingIndicator-Mask	

  - Specifies which results were aided by sensors.

- Value
  - 0x00000001 - AIDED_HEADING
  - 0x00000002 - AIDED_SPEED
  - 0x00000004 - AIDED_POSITION
  - 0x00000008 - AIDED_VELOCITY

8.926.2 Field Documentation

8.926.2.1 ULONG sensorDataUsage_s::aidingIndicatorMask

8.926.2.2 ULONG sensorDataUsage_s::usageMask

8.927 serialNumbersInfo Struct Reference

Data Fields

- BYTE esnSize
- CHAR * pESNString
- BYTE imeiSize
- CHAR * pIMEIString
- BYTE meidSize
- CHAR * pMEIDString
- BYTE imeiSvnSize
- CHAR * pImeiSvnString

8.927.1 Detailed Description

Returns all the serial numbers assigned to the device. These serial numbers include the ESN (Electronic serial number of the device), the IMEI (International Mobile Equipment Identity) and MEID (Mobile Equipment Identifier).

Parameters

esnSize	• The maximum number of characters (including NULL terminator) that the ESN string array can contain
pESNString[OUT]	• NULL-terminated ESN string. Empty string is returned when ESN is not supported/programmed
imeiSize	• The maximum number of characters (including NULL terminator) that the IMEI string array can contain
pIMEIString[OUT]	• NULL terminated IMEI string. Empty string is returned when IMEI is not supported/programmed
meidSize	• The maximum number of characters (including NULL terminator) that the MEID string array can contain
pMEIDString[OUT]	• NULL-terminated MEID string. Empty string is returned when MEID is not supported/programmed
imeiSvnSize	• The maximum number of characters (including NULL terminator) that the IMEI SVN string array can contain.
pImeiSvnString[OUT]	• NULL-terminated IMEI SVN string. Empty string is returned when IMEI SVN is not supported/programmed.

8.927.2 Field Documentation

8.927.2.1 BYTE serialNumbersInfo::esnSize

8.927.2.2 BYTE serialNumbersInfo::imeiSize

8.927.2.3 BYTE serialNumbersInfo::imeiSvnSize

8.927.2.4 BYTE serialNumbersInfo::meidSize

8.927.2.5 CHAR* serialNumbersInfo::pESNString

8.927.2.6 CHAR* serialNumbersInfo::pIMEIString

8.927.2.7 CHAR* serialNumbersInfo::pImeiSvnString

8.927.2.8 CHAR* serialNumbersInfo::pMEIDString

8.928 serviceProviderName Struct Reference

Data Fields

- BYTE displayCondition
- BYTE spnLength
- BYTE spn [255]

8.928.1 Detailed Description

This structure contains Service Provider Name as defined in 3GPP TS 31.102 (Section 4.2.12) from multiple sources.

Parameters

displayCondition	• Display condition.
spnLength	• It provides length of spn.
spn	• Service provider name string must use: The SMS default 7-bit coded alphabet as defined in 3GPP TS 23.038 with bit 8 set to 9.

8.928.2 Field Documentation

8.928.2.1 BYTE serviceProviderName::displayCondition

8.928.2.2 BYTE serviceProviderName::spn[255]

8.928.2.3 BYTE serviceProviderName::spnLength

8.929 ServingSystemInfo Struct Reference

Data Fields

- BYTE registrationState
- BYTE csAttachState
- BYTE psAttachState
- BYTE selectedNetwork
- BYTE radioInterfaceNo
- BYTE radioInterfaceList [255]
- BYTE hdrPersonality

8.929.1 Detailed Description

This structure will hold the serving system parameters information

Parameters

registrationState	- Registration state of the mobile • 0 - QMI_NAS_NOT_REGISTERED Not registered;mobile is not currently searching for a new network to provide service • 1 - QMI_NAS_REGISTERED Registered with a network • 2 - QMI_NAS_NOT_REGISTERED_SEARCHING Not registered, but mobile is currently searching for a new network to provide service • 3 - QMI_NAS_REGISTRATION_DENIED Registration denied by the visible network • 4 - QMI_NAS_REGISTRATION_UNKNOWN Registration state is unknown
csAttachState	- Circuit Switch domain attach state of the mobile • 0 - Unknown or not applicable • 1 - Attached • 2 - Detached
psAttachState	- Packet domain attach state of the mobile • 0 - Unknown or not applicable • 1 - Attached • 2 - Detached
selectedNetwork	- Type of selected radio access network • 0x00 - Unknown • 0x01 - 3GPP2 network • 0x02 - 3GPP network
radioInterfaceNo	- Number of radio interfaces currently in use; this indicates how many radio_if identifiers follow this field
radioInterface-List	- Radio interface currently in use (each is 1 byte) • 0x00 - None (no service) • 0x01 - cdma2000 1X • 0x02 - cdma2000 HRPD (1xEV-DO) • 0x03 - AMPS • 0x04 - GSM • 0x05 - UMTS • 0x08 - LTE
hdrPersonality	- HDR personality information (valid only for EVDO) • 0x00 - Unknown • 0x01 - HRPD • 0x02 - eHRPD

Note: None

8.929.2 Field Documentation

8.929.2.1 BYTE ServingSystemInfo::csAttachState

8.929.2.2 BYTE ServingSystemInfo::hdrPersonality

8.929.2.3 BYTE ServingSystemInfo::psAttachState

8.929.2.4 BYTE ServingSystemInfo::radioInterfaceList[255]

8.929.2.5 BYTE ServingSystemInfo::radioInterfaceNo

8.929.2.6 BYTE ServingSystemInfo::registrationState

8.929.2.7 BYTE ServingSystemInfo::selectedNetwork

8.930 servSystem Struct Reference

Data Fields

- BYTE regState
- BYTE csAttachState
- BYTE psAttachState
- BYTE selNetwork
- BYTE numRadioInterfaces
- BYTE radioInterface [0x0A]

8.930.1 Detailed Description

This structure contains the Serving System parameters

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

regState	• Registration state - Registration state of the mobile • Values: – 0 - Not Registered; mobile is not currently searching for a new network to provide service – 1 - Registered with a network – 2 - Not registered, but mobile is currently searching for a new network to provide service – 3 - Registration denied by visible network – 4 - Registration state is unknown
csAttachState	• CS Attach State - Circuit-switched domain attach state of the mobile • Values: – 0 - Unknown or not applicable – 1 - Attached – 2 - Detached
psAttachState	• PS Attach State - Packet-switched domain attach state of the mobile • Values: – 0 - Unknown or not applicable – 1 - Attached – 2 - Detached

selNetwork	• Selected Network - Type of selected radio access network • Values: – 0 - Unknown – 1 - 3GPP2 network – 2 - 3GPP network
numRadio-Interfaces	• In Use Radio Interfaces Number – Number of radio interfaces currently in use – defaults to zero
radioInterface	• Radio Interface(s) modem discovered • Values: – 0x00 - RADIO_IF_NO_SVC - None(no service) – 0x01 - RADIO_IF_CDMA_1X - cdma2000 1X – 0x02 - RADIO_IF_CDMA_1XEVDO - cdma2000 HRPD (1xEV-DO) – 0x03 - RADIO_IF_AMPS - AMPS – 0x04 - RADIO_IF_GSM - GSM – 0x05 - RADIO_IF_UMTS - UMTS – 0x08 - RADIO_IF_LTE - LTE

8.930.2 Field Documentation

8.930.2.1 BYTE servSystem::csAttachState

8.930.2.2 BYTE servSystem::numRadioInterfaces

8.930.2.3 BYTE servSystem::psAttachState

8.930.2.4 BYTE servSystem::radioInterface[0x0A]

8.930.2.5 BYTE servSystem::regState

8.930.2.6 BYTE servSystem::selNetwork

8.931 sessionInfo Union Reference

Data Fields

- struct omaDmFotaTlv omaDmFota
- struct omaDmConfigTlv omaDmConfig
- struct omaDmNotificationsTlv omaDmNotifications

8.931.1 Detailed Description

This union sessionInfo consist of omaDmFotaTlv, omaDmConfigTlv and omaDmNotificationsTlv, out of which one will be unpacked against pEventFields.

8.931.2 Field Documentation

8.931.2.1 struct omaDmConfigTlv sessionInfo::omaDmConfig

8.931.2.2 struct omaDmFotaTlv sessionInfo::omaDmFota

8.931.2.3 struct omaDmNotificationsTlv sessionInfo::omaDmNotifications

8.932 sessionInfoExt Union Reference

Data Fields

- struct omaDmFotaTlvExt omaDmFota
- struct omaDmConfigTlvExt omaDmConfig

8.932.1 Detailed Description

This union sessionInfo consist of omaDmFotaTlv and omaDmConfigTlv, out of which one will be unpacked against pEventFields.

8.932.2 Field Documentation

8.932.2.1 struct omaDmConfigTlvExt sessionInfoExt::omaDmConfig

8.932.2.2 struct omaDmFotaTlvExt sessionInfoExt::omaDmFota

8.933 sessionInfoTlv Struct Reference

Data Fields

- BYTE TlvPresent
- ULONG sessionType
- sessionInformation sessionInfo

8.933.1 Detailed Description

Structure used to store all sessionInfo(Union)TLV Value.

Parameters

TlvPresent	- Boolean indicating the presence of the TLV in the QMI response
sessionType	- sessiontype Value

8.933.2 Field Documentation

8.933.2.1 sessionInformation sessionInfoTlv::sessionInfo

8.933.2.2 ULONG sessionInfoTlv::sessionType

8.933.2.3 BYTE sessionInfoTlv::TlvPresent

8.934 sessionInfoTlvExt Struct Reference

Data Fields

- BYTE TlvPresent
- ULONG sessionType
- sessionInformationExt sessionInfo

8.934.1 Detailed Description

Structure used to store all sessionInfo(Union)TLV Value.

Parameters

TlvPresent	- Boolean indicating the presence of the TLV in the QMI response
sessionType	- sessiontype Value

8.934.2 Field Documentation

8.934.2.1 sessionInformationExt sessionInfoTlvExt::sessionInfo

8.934.2.2 ULONG sessionInfoTlvExt::sessionType

8.934.2.3 BYTE sessionInfoTlvExt::TlvPresent

8.935 SetAudioPathConfigReq Struct Reference

Data Fields

- BYTE Profile
- BYTE * pECMode
- BYTE * pNSEnable
- WORD * pTXGain
- WORD * pDTMFTXGain
- WORD * pCodecSTGain
- TXPCMIIRFltr * pTXPCMIIRFltr
- RXPCMIIRFltr * pRXPCMIIRFltr
- BYTE * pRXAVCAGCSwitch
- BYTE * pTXAVCSwitch
- RXAGCList * pRXAGCList
- RXAVCList * pRXAVCList
- TXAGCList * pTXAGCList

8.935.1 Detailed Description

This structure contains the SLQSSetAudioPathConfig request parameters.

Parameters

Profile	[Mandatory] • Audio Profile – 0-9

pECMode	[Optional] • AV_EC – 0 - Echo cancellation off – 1 - Handset echo mode – 2 - Headset mode – 3 - Car kit mode – 4 - Speaker Mode
pNSEnable	[Optional] • Noise Suppression – 0 - Noise suppression off – 1 - Noise suppression on
pTXGain	[Optional] • TX Voice volume – 0x0000 - 0xffff
pDTMFTXGain	[Optional] • AV_DTMFTXG – 0x0000 - 0xffff
pCodecSTGain	[Optional] • AV_CODECSTG – 0x0000 - 0xffff
pTXPCMIIRFltr	[Optional] • See TXPCMIIRFltr for more information
pRXPCMIIRFltr	[Optional] • See RXPCMIIRFltr for more information
pRXAVCAGC-Switch	[Optional] • RX AVC/AGC Switch
pTXAVCSwitch	[Optional] • TX AVC Switch
pRXAGCList	[Optional] • See RXAGCList for more information
pRXAVCList	[Optional] • See RXAVCList for more information
pTXAGCList	[Optional] • See TXAGCList for more information

8.935.2 Field Documentation

8.935.2.1 WORD* SetAudioPathConfigReq::pCodecSTGain

8.935.2.2 WORD* SetAudioPathConfigReq::pDTMFTXGain

8.935.2.3 BYTE* SetAudioPathConfigReq::pECMode

8.935.2.4 BYTE* SetAudioPathConfigReq::pNSEnable

8.935.2.5 BYTE SetAudioPathConfigReq::Profile

8.935.2.6 RXAGCList* SetAudioPathConfigReq::pRXAGCList

8.935.2.7 BYTE* SetAudioPathConfigReq::pRXAVCAGCSwitch

8.935.2.8 RXAVCList* SetAudioPathConfigReq::pRXAVCList

8.935.2.9 RXPCMIIRFltr* SetAudioPathConfigReq::pRXPCMIIRFltr

8.935.2.10 TXAGCList* SetAudioPathConfigReq::pTXAGCList

8.935.2.11 BYTE* SetAudioPathConfigReq::pTXAVCSwitch

8.935.2.12 WORD* SetAudioPathConfigReq::pTXGain

8.935.2.13 TXPCMIIRFltr* SetAudioPathConfigReq::pTXPCMIIRFltr

8.936 SetAudioProfileReq Struct Reference

Data Fields

- BYTE Profile
- BYTE EarMute
- BYTE MicMute
- BYTE Generator
- BYTE Volume

8.936.1 Detailed Description

This structure contains the SLQSSetAudioProfile request parameters.

Parameters

Profile	• Audio Profile – 0 - Handset – 1 - Headset – 2 - Car Kit – 3 - Speaker phone – 4 - Auxiliary – 5 - TTY – 6 - Auxiliary external PCM – 7 - Primary external PCM – 8 - External slave PCM – 9 - I2S

EarMute	• Ear Mute Setting – 0 - unmuted – 1 - muted
MicMute	• MIC Mute Setting – 0 - unmuted – 1 - muted
Generator	• Audio Generator – 0 - Voice – 1 - Key Beep – 2 - MIDI
Volume	• Audio Volume Level – 0 to 7

8.936.2 Field Documentation

8.936.2.1 BYTE SetAudioProfileReq::EarMute

8.936.2.2 BYTE SetAudioProfileReq::Generator

8.936.2.3 BYTE SetAudioProfileReq::MicMute

8.936.2.4 BYTE SetAudioProfileReq::Profile

8.936.2.5 BYTE SetAudioProfileReq::Volume

8.937 SetAudioVolTLBConfigReq Struct Reference

Data Fields

- BYTE Profile
- BYTE Generator
- BYTE Volume
- BYTE Item
- WORD VolValue

8.937.1 Detailed Description

This structure contains the SLQSSetAudioVolTLBConfig request parameters

Parameters

Profile	• Audio Profile – 0-9

Generator	• Audio Generator – 0-2
Volume	• Audio Volume Level – 0-7
Item	• Item – 13 - AV_RXVOLDB – 14 - AV_DTMFVOLDB – 15 - AV_PAD
Value	• Value to be set to the volume table

8.937.2 Field Documentation

8.937.2.1 BYTE SetAudioVolTLBConfigReq::Generator

8.937.2.2 BYTE SetAudioVolTLBConfigReq::Item

8.937.2.3 BYTE SetAudioVolTLBConfigReq::Profile

8.937.2.4 BYTE SetAudioVolTLBConfigReq::Volume

8.937.2.5 WORD SetAudioVolTLBConfigReq::VolValue

8.938 SetAudioVolTLBConfigResp Struct Reference

Data Fields

- WORD ResCode

8.938.1 Detailed Description

This structure contains the SLQSSetAudioVolTLBConfig response parameters.

Parameters

ResCode	• Result of requested item

8.938.2 Field Documentation

8.938.2.1 WORD SetAudioVolTLBConfigResp::ResCode

8.939 setCustomSettingV2 Struct Reference

Data Fields

- CHAR cust_id [64+1]
- WORD value_length
- BYTE cust_value [8+1]

8.939.1 Detailed Description

This structure contains customization settings set to modem

Parameters

cust_id[IN]	• Customization ID (Maximum 64 bytes)
value_length[IN]	• length of cust_value field
cust_value[IN]	• Customization Setting Value (Maximum 8 bytes)

8.939.2 Field Documentation

8.939.2.1 CHAR setCustomSettingV2::cust_id[64+1]

8.939.2.2 BYTE setCustomSettingV2::cust_value[8+1]

8.939.2.3 WORD setCustomSettingV2::value_length

8.940 setDyingGaspCfg Struct Reference

Data Fields

- BYTE * pDestSMSNum
- BYTE * pDestSMSContent

8.940.1 Detailed Description

This struture contains the TLV required to get the Dysing GASP Config.

Parameters

pDestSMSNum[-OUT]	• SMS Destination Number as string of 8 bit ASCII Characters Max 20 chars. • Optional parameter.
pDestSMS-Content[OUT]	• SMS COntent as a string of 8 bit ASCII text characters Max 160 chars. • Optional parameter.

8.940.2 Field Documentation

8.940.2.1 BYTE* setDyingGaspCfg::pDestSMSContent

8.940.2.2 BYTE* setDyingGaspCfg::pDestSMSNum

8.941 SetIMSSMSConfigReq Struct Reference

Data Fields

- BYTE * pSMSFormat
- BYTE * pSMSOverIPNwInd
- BYTE * pPhoneCtxtURILen
- BYTE * pPhoneCtxtURI

8.941.1 Detailed Description

This structure contains the SLQSSetIMSSMSConfig request parameters.

Parameters

pSMSFormat	• SMS format – 0 - 3GPP – 1 - 3GPP2
pSMSOverIPNw-Ind	• SMS over IP Network Indication Flag – TRUE - Turn on mobile-originated SMS – FALSE - Turn off mobile-originated SMS
pPhoneCtxtURI-Len	• Length of Phone context Universal Resource Identifier to follow
pPhoneCtxtURI	• Phone context universal resource identifier • Length of this string must be specified in pPhoneCtxtURILen parameter

8.941.2 Field Documentation

8.941.2.1 BYTE* SetIMSSMSConfigReq::pPhoneCtxtURI

8.941.2.2 BYTE* SetIMSSMSConfigReq::pPhoneCtxtURILen

8.941.2.3 BYTE* SetIMSSMSConfigReq::pSMSFormat

8.941.2.4 BYTE* SetIMSSMSConfigReq::pSMSOverIPNwInd

8.942 SetIMSSMSConfigResp Struct Reference

Data Fields

- BYTE * pSettingResp

8.942.1 Detailed Description

This structure contains the SLQSSetIMSSMSConfig response parameters.

Parameters

pSettingResp	• Settings standard response type. A settings specific error code is returned when the standard response error type is QMI_ERR_CAUSE_CODE

8.942.2 Field Documentation

8.942.2.1 BYTE* SetIMSSMSConfigResp::pSettingResp

8.943 SetIMSUserConfigReq Struct Reference

Data Fields

- BYTE * pIMSDomainLen
- BYTE * pIMSDomain

8.943.1 Detailed Description

This structure contains the SLQSSetIMSUserConfig request parameters.

Parameters

pIMSDomainLen	• Length of IMS Domain Name to follow
pIMSDomain	• IMS domain name

8.943.2 Field Documentation

8.943.2.1 BYTE* SetIMSUserConfigReq::pIMSDomain

8.943.2.2 BYTE* SetIMSUserConfigReq::pIMSDomainLen

8.944 SetIMSUserConfigResp Struct Reference

Data Fields

- BYTE * pSettingResp

8.944.1 Detailed Description

This structure contains the SLQSSetIMSUserConfig response parameters.

Parameters

pSettingResp	• Settings standard response type. A settings specific error code is returned when the standard response error type is QMI_ERR_CAUSE_CODE

8.944.2 Field Documentation

8.944.2.1 BYTE* SetIMSUserConfigResp::pSettingResp

8.945 SetIMSVoIPConfigReq Struct Reference

Data Fields

- WORD * pSessionExpiryTimer
- WORD * pMinSessionExpiryTimer
- BYTE * pAmrWbEnable
- BYTE * pScrAmrEnable
- BYTE * pScrAmrWbEnable
- BYTE * pAmrMode
- WORD * pAmrWBMode
- BYTE * pAmrOctetAligned
- BYTE * pAmrWBOctetAligned
- WORD * pRingingTimer
- WORD * pRingBackTimer
- WORD * pRTPRTCPInactTimer

8.945.1 Detailed Description

This structure contains the SLQSSetIMSVoIPConfig request parameters.

Parameters

pSessionExpiry-Timer	• Session duration, in seconds
pMinSession-ExpiryTimer	• Minimum allowed value for session expiry timer, in seconds
pAmrWbEnable	• Flag to enable/disable Adaptive Multirate Codec(AMR) WideBand(WB) audio • Values: – True - Enable – False - Disable

pScrAmrEnable	• Flag to enable/disable Source Control Rate(SCR) for AMR NarrowBand (NB) • Values: – True - Enable – False - Disable
pScrAmrWb-Enable	• Flag to enable/disable SCR for AMR WB Audio • Values: – True - Enable – False - Disable
pAmrMode	• BitMask for AMR NB modes allowed • Values: – 0x1 - 4.75 kbps – 0x2 - 5.15 kbps – 0x4 - 5.9 kbps – 0x8 - 6.17 kbps – 0x10 - 7.4 kbps – 0x20 - 7.95 kbps – 0x40 - 10.2 kbps – 0x80 - 12.2 kbps
pAmrWBMode	• BitMask for AMR WB modes allowed • Values: – 0x1 - 6.60 kbps – 0x2 - 8.85 kbps – 0x4 - 12.65 kbps – 0x8 - 14.25 kbps – 0x10 - 15.85 kbps – 0x20 - 18.25 kbps – 0x40 - 19.85 kbps – 0x80 - 23.05 kbps – 0x100 - 23.85 kbps
pAmrOctet-Aligned	• Flag to indicate if the octet is aligned for AMR NB Audio • Values: – True - Aligned – False - Not aligned, Bandwidth Efficient mode
pAmrWBOctet-Aligned	• Flag to indicate if the octet is aligned for AMR WB Audio • Values: – True - Aligned – False - Not aligned, Bandwidth Efficient mode

pRingingTimer	• Duration of ringing timer, in seconds. The ringing timer starts on the ringing event. If the call is not answered within the duration of this timer, the call is disconnected.
pRingBackTimer	• Duration of ringback timer, in seconds. The ringback timer starts on the ringback event. If the call is not answered within the duration of this timer, the call is disconnected.
pRTPRTCP-InactTimer	• Duration of RTP/RTCP inactivity timer, in seconds. If no RTP/RTCP packet is received prior to the expiry of this timer, the call is disconnected.

8.945.2 Field Documentation

8.945.2.1 BYTE∗ SetIMSVoIPConfigReq::pAmrMode

8.945.2.2 BYTE∗ SetIMSVoIPConfigReq::pAmrOctetAligned

8.945.2.3 BYTE∗ SetIMSVoIPConfigReq::pAmrWbEnable

8.945.2.4 WORD∗ SetIMSVoIPConfigReq::pAmrWBMode

8.945.2.5 BYTE∗ SetIMSVoIPConfigReq::pAmrWBOctetAligned

8.945.2.6 WORD∗ SetIMSVoIPConfigReq::pMinSessionExpiryTimer

8.945.2.7 WORD∗ SetIMSVoIPConfigReq::pRingBackTimer

8.945.2.8 WORD∗ SetIMSVoIPConfigReq::pRingingTimer

8.945.2.9 WORD∗ SetIMSVoIPConfigReq::pRTPRTCPInactTimer

8.945.2.10 BYTE∗ SetIMSVoIPConfigReq::pScrAmrEnable

8.945.2.11 BYTE∗ SetIMSVoIPConfigReq::pScrAmrWbEnable

8.945.2.12 WORD∗ SetIMSVoIPConfigReq::pSessionExpiryTimer

8.946 SetIMSVoIPConfigResp Struct Reference

Data Fields

- BYTE ∗ pSettingResp

8.946.1 Detailed Description

This structure contains the SLQSSetIMSVoIPConfig response parameters.

Parameters

pSettingResp	• Settings standard response type. A settings specific error code is returned when the standard response error type is QMI_ERR_CAUSE_CODE

8.946.2 Field Documentation

8.946.2.1 BYTE* SetIMSVoIPConfigResp::pSettingResp

8.947 SetM2MAudioAVCFGReq Struct Reference

Data Fields

- BYTE Profile
- BYTE Device
- BYTE PIFACEId
- PCMparams * pPCMParams

8.947.1 Detailed Description

This structure contains the SLQSSetM2MAudioAVCFG request parameters.

Parameters

Profile	• Audio Profile – 0-5
Device	• ACDB Device • See qaGobiApiTableSwiAudio.h for more information on ACDB Device
PIFACEId	• Physical Interface • See qaGobiApiTableSwiAudio.h for more information on physical interface
pPCMParams	• PCM parameters • See PCMparams for more information

8.947.2 Field Documentation

8.947.2.1 BYTE SetM2MAudioAVCFGReq::Device

8.947.2.2 BYTE SetM2MAudioAVCFGReq::PIFACEId

8.947.2.3 PCMparams* SetM2MAudioAVCFGReq::pPCMParams

8.947.2.4 BYTE SetM2MAudioAVCFGReq::Profile

8.948 SetM2MAudioLPBKReq Struct Reference

Data Fields

- BYTE Enable

8.948.1 Detailed Description

This structure contains the SLQSSetM2MAudioLPBK request parameters.

Parameters

Enable	• Operation to be performed – 0 - stop – 1 - VOCODER loop – 2 - internal codec loop

8.948.2 Field Documentation

8.948.2.1 BYTE SetM2MAudioLPBKReq::Enable

8.949 SetM2MAudioProfileReq Struct Reference

Data Fields

- BYTE Profile
- BYTE * pEarMute
- BYTE * pMicMute
- BYTE * pGenerator
- BYTE * pVolume
- BYTE * pCwtMute

8.949.1 Detailed Description

This structure contains the SLQSSetM2MAudioProfile request parameters.

Parameters

Profile	• Audio Profile Number – 0-5
pEarMute	• Ear Mute – 0 - mute – 1 - unmute
pMicMute	• Mic Mute – 0 - mute – 1 - unmute

pGenerator	• Generator – 0 - voice
pVolume	• Set RX Volume level – 0-5
pCwtMute	• Call Waiting Tone Mute – 0 - Mute – 1 - UnMute

8.949.2 Field Documentation

8.949.2.1 BYTE* SetM2MAudioProfileReq::pCwtMute

8.949.2.2 BYTE* SetM2MAudioProfileReq::pEarMute

8.949.2.3 BYTE* SetM2MAudioProfileReq::pGenerator

8.949.2.4 BYTE* SetM2MAudioProfileReq::pMicMute

8.949.2.5 BYTE SetM2MAudioProfileReq::Profile

8.949.2.6 BYTE* SetM2MAudioProfileReq::pVolume

8.950 SetM2MAudioVolumeReq Struct Reference

Data Fields

- BYTE Profile
- BYTE Generator
- BYTE Level

8.950.1 Detailed Description

This structure contains the SLQSSetM2MAudioProfile request parameters.

Parameters

Profile	• Audio Profile Number – 0-5
Generator	• Generator – 0 - voice

Level	• Audio volume level – 0-5

8.950.2 Field Documentation

8.950.2.1 BYTE SetM2MAudioVolumeReq::Generator

8.950.2.2 BYTE SetM2MAudioVolumeReq::Level

8.950.2.3 BYTE SetM2MAudioVolumeReq::Profile

8.951 SetM2MAVMuteReq Struct Reference

Data Fields

- BYTE Profile
- BYTE EarMute
- BYTE MicMute
- BYTE * pCwtMute

8.951.1 Detailed Description

This structure contains the SLQSSetM2MAVMute request parameters.

Parameters

Profile	• Audio Profile Number – 0-5
EarMute	• Ear Mute – 0-1
MicMute	• Mic Mute – 0-1
pCwtMute	[Optional] • Call Waiting Tone Mute – 0-1

8.951.2 Field Documentation

8.951.2.1 BYTE SetM2MAVMuteReq::EarMute

8.951.2.2 BYTE SetM2MAVMuteReq::MicMute

8.951.2.3 BYTE* SetM2MAVMuteReq::pCwtMute

8.951.2.4 BYTE SetM2MAVMuteReq::Profile

8.952 SetM2MSpkrGainReq Struct Reference

Data Fields

- BYTE Profile
- WORD Value

8.952.1 Detailed Description

This structure contains the SLQSSetM2MSpkrGain request parameters.

Parameters

Profile	• Audio Profile Number – 0-5
Value	• RX speakerphone gain – 0x0 - 0x7fff

8.952.2 Field Documentation

8.952.2.1 BYTE SetM2MSpkrGainReq::Profile

8.952.2.2 WORD SetM2MSpkrGainReq::Value

8.953 setPINProtection Struct Reference

Data Fields

- BYTE pinID
- BYTE pinOperation
- BYTE pinLength
- BYTE pinValue [255]

8.953.1 Detailed Description

This structure contains the information about the pin protection parameters that need to be set.

Parameters

pinID	• Indicates the PIN ID to be enabled or disabled. – 1 - PIN1 (also called PIN) – 2 - PIN2 – 3 - Universal PIN – 4 - Hidden key
pinOperation	• Indicates whether the PIN is enabled or disabled. – 0 - Disable the PIN – 1 - Enable the PIN
pinLength	• Length of the following elements i.e. pin value.
pinValue[MAX_-DESCRIPTION-_LENGTH]	• PIN value. • This value is a sequence of ASCII characters.

8.953.2 Field Documentation

8.953.2.1 BYTE setPINProtection::pinID

8.953.2.2 BYTE setPINProtection::pinLength

8.953.2.3 BYTE setPINProtection::pinOperation

8.953.2.4 BYTE setPINProtection::pinValue[255]

8.954 SetRegMgrConfigReq Struct Reference

Data Fields

- WORD * pPriCSCFPort
- BYTE * pCSCFPortNameLen
- BYTE * pCSCFPortName
- BYTE * pIMSTestMode

8.954.1 Detailed Description

This structure contains the SLQSSetRegMgrConfig request parameters.

Parameters

pPriCSCFPort	• Primary call session control function port
pCSCFPort-NameLen	• Length of the CSCF Port name parameter to follow

pCSCFPort-Name	• Call Session control port, fully qualified domain name • Length of this string must be specified in pCSCFPortNameLen parameter
pIMSTestMode	• IMS Test mode Enabled. – TRUE - Enable, no IMS registration – FALSE - Disable, IMS registration is initiated

8.954.2 Field Documentation

8.954.2.1 BYTE∗ SetRegMgrConfigReq::pCSCFPortName

8.954.2.2 BYTE∗ SetRegMgrConfigReq::pCSCFPortNameLen

8.954.2.3 BYTE∗ SetRegMgrConfigReq::pIMSTestMode

8.954.2.4 WORD∗ SetRegMgrConfigReq::pPriCSCFPort

8.955 SetRegMgrConfigResp Struct Reference

Data Fields

- BYTE ∗ pSettingResp

8.955.1 Detailed Description

This structure contains the SLQSSetRegMgrConfig response parameters.

Parameters

pSettingResp	• Settings standard response type. A settings specific error code is returned when the standard response error type is QMI_ERR_CAUSE_CODE

8.955.2 Field Documentation

8.955.2.1 BYTE∗ SetRegMgrConfigResp::pSettingResp

8.956 setSignalStrengthInfo Struct Reference

Data Fields

- CDMARSSIThresh ∗ pCDMARSSIThresh
- WORD ∗ pCDMARSSIDelta
- CDMAECIOThresh ∗ pCDMAECIOThresh
- WORD ∗ pCDMAECIODelta
- HDRRSSIThresh ∗ pHDRRSSIThresh
- WORD ∗ pHDRRSSIDelta

- HDRECIOThresh * pHDRECIOThresh
- WORD * pHDRECIODelta
- HDRSINRThreshold * pHDRSINRThresh
- WORD * pHDRSINRDelta
- HDRIOThresh * pHDRIOThresh
- WORD * pHDRIODelta
- GSMRSSIThresh * pGSMRSSIThresh
- WORD * pGSMRSSIDelta
- WCDMARSSIThresh * pWCDMARSSIThresh
- WORD * pWCDMARSSIDelta
- WCDMAECIOThresh * pWCDMAECIOThresh
- WORD * pWCDMAECIODelta
- LTERSSIThresh * pLTERSSIThresh
- WORD * pLTERSSIDelta
- LTESNRThreshold * pLTESNRThresh
- WORD * pLTESNRDelta
- LTERSRQThresh * pLTERSRQThresh
- WORD * pLTERSRQDelta
- LTERSRPThresh * pLTERSRPThresh
- WORD * pLTERSRPDelta
- LTESigRptConfig * pLTESigRptConfig
- TDSCDMARSCPThresh * pTDSCDMARSCPThresh
- WORD * pTDSCDMARSCPDelta
- TDSCDMARSSIThresh * pTDSCDMARSSIThresh
- ULONG * pTDSCDMARSSIDelta
- TDSCDMAECIOThresh * pTDSCDMAECIOThresh
- ULONG * pTDSCDMAECIODelta
- TDSCDMASINRThresh * pTDSCDMASINRThresh
- ULONG * pTDSCDMASINRDelta

8.956.1 Detailed Description

This structure contains the Signal Strength reporting thresholds Item information.

Parameters

pCDMARSSI-Thresh	• CDMA RSSI threshold List • See CDMARSSIThresh for more details
pCDMARSSI-Delta	• RSSI delta (in units of 0.1 dBm). • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.
pCDMAECIO-Thresh	• CDMA ECIO Threshold List • See CDMAECIOThresh for more details
pCDMAECIO-Delta	• ECIO delta (in units of 0.1 dB). • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.

pHDRRSSI-Thresh	• HDR RSSI Threshold List • See HDRRSSIThresh for more details
pHDRRSSIDelta	• RSSI delta (in units of 0.1 dBm) • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.
pHDRECIO-Thresh	• HDR ECIO Threshold List • See HDRECIOThresh for more details
pHDRECIODelta	• ECIO delta (in units of 0.1 dB) • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.
pHDRSINR-Thresh	• HDR SINR Threshold List • See HDRSINRThreshold for more details
pHDRSINRDelta	• SINR delta (in units of 1 SINR level) • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.
pHDRIOThresh	• HDR IO Threshold List • See HDRIOThresh for more details
pHDRIODelta	• IO delta (in units of 0.1 dBm) • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.
pGSMRSSI-Thresh	• GSM RSSI Threshold List • See GSMRSSIThresh for more details
pGSMRSSIDelta	• RSSI delta (in units of 0.1 dBm) • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.
pWCDMARSSI-Thresh	• WCDMA RSSI Threshold List • See WCDMARSSIThresh for more details
pWCDMARSSI-Delta	• RSSI delta (in units of 0.1 dBm). • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.
pWCDMAECIO-Thresh	• WCDMA ECIO Threshold List • See WCDMAECIOThresh for more details

pWCDMAECIO-Delta	• ECIO delta (in units of 0.1 dB) • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.
pLTERSSI-Thresh	• LTE RSSI Threshold List • See LTERSSIThresh for more details
pLTERSSIDelta	• RSSI delta (in units of 0.1 dBm) • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.
pLTESNR-Thresh	• LTE SNR Threshold List • See LTESNRThreshold for more details
pLTESNRDelta	• SNR delta (in units of 0.1 dBm) • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.
pLTERSRQ-Thresh	• LTE RSRQ Threshold List • See LTERSRQThresh for more details
pLTERSRQ-Delta	• RSRQ delta (in units of 0.1 dBm) • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.
pLTERSRP-Thresh	• LTE RSRP Threshold List • See LTERSRPThresh for more details
pLTERSRPDelta	• RSRP delta (in units of 0.1 dBm). • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.
pLTESigRpt-Config	• LTE Signal Report Config • See LTESigRptConfig for more details
pTDSCDMARS-CPThresh	• TDSCDMA RSCP Threshold List • See TDSCDMARSCPThresh for more details
pTDSCDMARS-CPDelta	• RSCP delta (in units of 0.1 dBm) • A value of 0 is rejected with a QMI_ERR_INVALID_ARG error.
pTDSCDMARS-SIThresh	• TDSCDMA RSSI Threshold List • See TDSCDMARSSIThresh for more details

pTDSCDMARSSIDelta	• RSSI delta (in dBm) used by TD-SCDMA.
pTDSCDMAECIOThresh	• TDSCDMA ECIO Threshold List • See TDSCDMAECIOThresh for more details
pTDSCDMAECIODelta	• ECIO delta (in dB) used by TD-SCDMA
pTDSCDMASINRThresh	• TDSCDMA SINR Threshold List • See TDSCDMASINRThresh for more details
pTDSCDMASINRDelta	• SINR delta (in dB) used by TD-SCDMA.

8.956.2 Field Documentation

8.956.2.1 WORD* setSignalStrengthInfo::pCDMAECIODelta

8.956.2.2 CDMAECIOThresh* setSignalStrengthInfo::pCDMAECIOThresh

8.956.2.3 WORD* setSignalStrengthInfo::pCDMARSSIDelta

8.956.2.4 CDMARSSIThresh* setSignalStrengthInfo::pCDMARSSIThresh

8.956.2.5 WORD* setSignalStrengthInfo::pGSMRSSIDelta

8.956.2.6 GSMRSSIThresh* setSignalStrengthInfo::pGSMRSSIThresh

8.956.2.7 WORD* setSignalStrengthInfo::pHDRECIODelta

8.956.2.8 HDRECIOThresh* setSignalStrengthInfo::pHDRECIOThresh

8.956.2.9 WORD* setSignalStrengthInfo::pHDRIODelta

8.956.2.10 HDRIOThresh* setSignalStrengthInfo::pHDRIOThresh

8.956.2.11 WORD* setSignalStrengthInfo::pHDRRSSIDelta

8.956.2.12 HDRRSSIThresh* setSignalStrengthInfo::pHDRRSSIThresh

8.956.2.13 WORD* setSignalStrengthInfo::pHDRSINRDelta

8.956.2.14 HDRSINRThreshold* setSignalStrengthInfo::pHDRSINRThresh

8.956.2.15 WORD* setSignalStrengthInfo::pLTERSRPDelta

8.956.2.16 LTERSRPThresh* setSignalStrengthInfo::pLTERSRPThresh

8.956.2.17 WORD* setSignalStrengthInfo::pLTERSRQDelta

8.956.2.18 LTERSRQThresh∗ setSignalStrengthInfo::pLTERSRQThresh

8.956.2.19 WORD∗ setSignalStrengthInfo::pLTERSSIDelta

8.956.2.20 LTERSSIThresh∗ setSignalStrengthInfo::pLTERSSIThresh

8.956.2.21 LTESigRptConfig∗ setSignalStrengthInfo::pLTESigRptConfig

8.956.2.22 WORD∗ setSignalStrengthInfo::pLTESNRDelta

8.956.2.23 LTESNRThreshold∗ setSignalStrengthInfo::pLTESNRThresh

8.956.2.24 ULONG∗ setSignalStrengthInfo::pTDSCDMAECIODelta

8.956.2.25 TDSCDMAECIOThresh∗ setSignalStrengthInfo::pTDSCDMAECIOThresh

8.956.2.26 WORD∗ setSignalStrengthInfo::pTDSCDMARSCPDelta

8.956.2.27 TDSCDMARSCPThresh∗ setSignalStrengthInfo::pTDSCDMARSCPThresh

8.956.2.28 ULONG∗ setSignalStrengthInfo::pTDSCDMARSSIDelta

8.956.2.29 TDSCDMARSSIThresh∗ setSignalStrengthInfo::pTDSCDMARSSIThresh

8.956.2.30 ULONG∗ setSignalStrengthInfo::pTDSCDMASINRDelta

8.956.2.31 TDSCDMASINRThresh∗ setSignalStrengthInfo::pTDSCDMASINRThresh

8.956.2.32 WORD∗ setSignalStrengthInfo::pWCDMAECIODelta

8.956.2.33 WCDMAECIOThresh∗ setSignalStrengthInfo::pWCDMAECIOThresh

8.956.2.34 WORD∗ setSignalStrengthInfo::pWCDMARSSIDelta

8.956.2.35 WCDMARSSIThresh∗ setSignalStrengthInfo::pWCDMARSSIThresh

8.957 SetSIPConfigReq Struct Reference

Data Fields

- WORD ∗ pSIPLocalPort
- ULONG ∗ pTimerSIPReg
- ULONG ∗ pSubscribeTimer
- ULONG ∗ pTimerT1
- ULONG ∗ pTimerT2
- ULONG ∗ pTimerTf
- BYTE ∗ pSigCompEnabled

8.957.1 Detailed Description

This structure contains the SLQSSetSIPConfig request parameters.

Parameters

pSIPLocalPort	• Primary call session control function SIP port number
pTimerSIPReg	• Initial SIP registration duration from the User equipment, in seconds
pSubscribeTimer	• Duration of the subscription by the UE for IMS registration notifications, in seconds
pTimerT1	• RTT estimate, in milliseconds
pTimerT2	• The maximum retransmit interval for non-invite requests and invite responses, in milliseconds
pTimerTf	• Non-invite transaction timeout timer, in milliseconds
pSigComp-Enabled	• Sig Comp Status – TRUE - Enable – FALSE - Disable

8.957.2 Field Documentation

8.957.2.1 BYTE∗ SetSIPConfigReq::pSigCompEnabled

8.957.2.2 WORD∗ SetSIPConfigReq::pSIPLocalPort

8.957.2.3 ULONG∗ SetSIPConfigReq::pSubscribeTimer

8.957.2.4 ULONG∗ SetSIPConfigReq::pTimerSIPReg

8.957.2.5 ULONG∗ SetSIPConfigReq::pTimerT1

8.957.2.6 ULONG∗ SetSIPConfigReq::pTimerT2

8.957.2.7 ULONG∗ SetSIPConfigReq::pTimerTf

8.958 SetSIPConfigResp Struct Reference

Data Fields

- BYTE ∗ pSettingResp

8.958.1 Detailed Description

This structure contains the SLQSSetSIPConfig response parameters.

Parameters

pSettingResp	• Settings standard response type. A settings specific error code is returned when the standard response error type is QMI_ERR_CAUSE_CODE

8.958.2 Field Documentation

8.958.2.1 BYTE* SetSIPConfigResp::pSettingResp

8.959 sGetDeviceSeriesResult Struct Reference

Data Fields

- enum eGobiDeviceSeries eDevice
- ULONG uResult

8.959.1 Detailed Description

This structure contains the Device Series

Parameters

eGobiDevice-Series	• The number of device in the device series
uResult	-eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

8.959.2 Field Documentation

8.959.2.1 enum eGobiDeviceSeries sGetDeviceSeriesResult::eDevice

8.959.2.2 ULONG sGetDeviceSeriesResult::uResult

8.960 sidNid Struct Reference

Data Fields

- WORD nid
- WORD sid

8.960.1 Detailed Description

This structure contains the parameters for SidNid Information

Parameters

nid	• Network ID
sid	• System ID

8.960.2 Field Documentation

8.960.2.1 WORD sidNid::nid

8.960.2.2 WORD sidNid::sid

8.961 sigInfo Struct Reference

Data Fields

- RSSIThresh * pRSSIThresh
- ECIOThresh * pECIOThresh
- HDRSINRThresh * pHDRSINRThresh
- LTESNRThresh * pLTESNRThresh
- IOThresh * pIOThresh
- RSRQThresh * pRSRQThresh
- RSRPThresh * pRSRPThresh
- LTESigRptCfg * pLTESigRptCfg
- TDSCDMASINRCONFThresh * pTDSCDMASINRCONFThresh

8.961.1 Detailed Description

This structure contains the 3gpp Configuration Item information.

Parameters

pRSSIThresh	• RSSI threshold List • See RSSIThresh for more details
pECIOThresh	• ECIO Threshold List • See ECIOThresh for more details
pHDRSINR-Thresh	• HDR SINR Threshold List • See HDRSINRThresh for more details
pLTESNR-Thresh	• LTE SNR Threshold List • See LTESNRThresh for more details
pIOThresh	• IO Threshold List • See IOThresh for more details
pRSRQThresh	• RSRQ Threshold List • See RSRQThresh for more details
pRSRPThresh	• RSRP Threshold List • See RSRPThresh for more details

pLTESigRptCfg	• LTE signal report config • See LTESigRptCfg for more details
pTDSCDMASIN-RCONFThresh	• TD-SCDMA SINR Threshold List • See TDSCDMASINRCONFThresh for more details

8.961.2 Field Documentation

8.961.2.1 ECIOThresh* sigInfo::pECIOThresh

8.961.2.2 HDRSINRThresh* sigInfo::pHDRSINRThresh

8.961.2.3 IOThresh* sigInfo::pIOThresh

8.961.2.4 LTESigRptCfg* sigInfo::pLTESigRptCfg

8.961.2.5 LTESNRThresh* sigInfo::pLTESNRThresh

8.961.2.6 RSRPThresh* sigInfo::pRSRPThresh

8.961.2.7 RSRQThresh* sigInfo::pRSRQThresh

8.961.2.8 RSSIThresh* sigInfo::pRSSIThresh

8.961.2.9 TDSCDMASINRCONFThresh* sigInfo::pTDSCDMASINRCONFThresh

8.962 signalInfo Struct Reference

Data Fields

- BYTE signalType
- BYTE alertPitch
- BYTE signal

8.962.1 Detailed Description

This structure contains Signal Information

Parameters

signalType	• Call identifier for the call.
alertPitch	• Signal Information
signal	• Caller ID Information

8.962.2 Field Documentation

8.962.2.1 BYTE signalInfo::alertPitch

8.962.2.2 BYTE signalInfo::signal

8.962.2.3 BYTE signalInfo::signalType

8.963 SignalStrengthDataType Struct Reference

Data Fields

- BYTE thresholdsSize
- INT8 thresholds [5]

8.963.1 Field Documentation

8.963.1.1 INT8 SignalStrengthDataType::thresholds[5]

8.963.1.2 BYTE SignalStrengthDataType::thresholdsSize

8.964 slot_t Struct Reference

Data Fields

- uint32_t uPhyCardStatus
- uint32_t uPhySlotStatus
- uint8_t bLogicalSlot
- uint8_t bICCIDLength
- uint8_t bICCID [255]

8.964.1 Detailed Description

This structure contains information of the response parameters associated with a Get Slots Status API.

Parameters

uPhyCardStatus	• State of the card in the Pyhsical Slot Status. – 0x00 - Unknown. – 0x01 - Absent. – 0x02 - Present.
uPhySlotStatus	• State of the Physical Slot status. – 0x00 Inactive. – 0x01 Activate.

bLogicalSlot	• Logical Slot associated with this physical slot. THis is valid if the physical slot is active. – 1 - Slot 1. – 2 - Slot 2. – 3 - Slot 3. – 4 - Slot 4. – 5 - Slot 5.
bLogicalSlot	• Number of sets the sets of ICCCID
bICCID[MAX_ICCID_LENGTH]	• Contains the ICCID of the card in the physical slot.

8.964.2 Field Documentation

8.964.2.1 uint8_t slot_t::bICCID[255]

8.964.2.2 uint8_t slot_t::bICCIDLength

8.964.2.3 uint8_t slot_t::bLogicalSlot

8.964.2.4 uint32_t slot_t::uPhyCardStatus

8.964.2.5 uint32_t slot_t::uPhySlotStatus

8.965 slotInf Struct Reference

Data Fields

- uint8_t cardState
- uint8_t upinState
- uint8_t upinRetries
- uint8_t upukRetries
- uint8_t errorState
- uint8_t numApp
- appStats AppStatus [10]

8.965.1 Detailed Description

This structure contains information about the SLOTS present.

Parameters

cardState	• Indicates the state of the card for each slot. – 0 - Absent – 1 - Present – 2 - Error

upinState	• Indicates the state of UPIN. – 0 - Unknown – 1 - Enabled and not verified – 2 - Enabled and verified – 3 - Disabled – 4 - Blocked – 5 - Permanently blocked – 0xFF - Not Available
upinRetries	• Indicates the number of retries remaining to verify the UPIN. • If 0xFF, information not available.
upukRetries	• Indicates the number of retries remaining to unblock the UPIN. • If 0xFF, information not available.
errorState	• Indicates the reason for the card error, and is valid only when the card state is Error – 0 - Unknown – 1 - Power down – 2 - Poll error – 3 - No ATR received – 4 - Volt mismatch – 5 - Parity error – 6 - Unknown; possibly removed – 7 - Card returned technical problems – 0xFF - Not Available • Other values are possible and reserved for future use. • When an unknown value is received, it is to be handled as "Unknown".
numApp	• Indicates the number of applications available on the card. • The following block is repeated for each application. i.e. AppStatus. • If zero(0) then no AppStatus information exists.
AppStatus[MAX_NO_OF_APPLICATIONS]	• See appStats for more information.

8.965.2 Field Documentation

8.965.2.1 appStats slotInf::AppStatus[10]

8.965.2.2 uint8_t slotInf::cardState

8.965.2.3 uint8_t slotInf::errorState

8.965.2.4 uint8_t slotInf::numApp

8.965.2.5 uint8_t slotInf::upinRetries

8.965.2.6 uint8_t slotInf::upinState

8.965.2.7 uint8_t slotInf::upukRetries

8.966 slotInfo Struct Reference

Data Fields

- BYTE cardState
- BYTE upinState
- BYTE upinRetries
- BYTE upukRetries
- BYTE errorState
- BYTE numApp
- appStatus AppStatus [10]

8.966.1 Detailed Description

This structure contains information about the SLOTS present.

Parameters

cardState	• Indicates the state of the card for each slot. – 0 - Absent – 1 - Present – 2 - Error
upinState	• Indicates the state of UPIN. – 0 - Unknown – 1 - Enabled and not verified – 2 - Enabled and verified – 3 - Disabled – 4 - Blocked – 5 - Permanently blocked – 0xFF - Not Available
upinRetries	• Indicates the number of retries remaining to verify the UPIN. • If 0xFF, information not available.
upukRetries	• Indicates the number of retries remaining to unblock the UPIN. • If 0xFF, information not available.

errorState	• Indicates the reason for the card error, and is valid only when the card state is Error – 0 - Unknown – 1 - Power down – 2 - Poll error – 3 - No ATR received – 4 - Volt mismatch – 5 - Parity error – 6 - Unknown; possibly removed – 7 - Card returned technical problems – 0xFF - Not Available • Other values are possible and reserved for future use. • When an unknown value is received, it is to be handled as "Unknown".
numApp	• Indicates the number of applications available on the card. • The following block is repeated for each application. i.e. AppStatus. • If zero(0) then no AppStatus information exists.
AppStatus[MAX_NO_OF_APPLICATIONS]	• See appStatus for more information.

8.966.2 Field Documentation

8.966.2.1 appStatus slotInfo::AppStatus[10]

8.966.2.2 BYTE slotInfo::cardState

8.966.2.3 BYTE slotInfo::errorState

8.966.2.4 BYTE slotInfo::numApp

8.966.2.5 BYTE slotInfo::upinRetries

8.966.2.6 BYTE slotInfo::upinState

8.966.2.7 BYTE slotInfo::upukRetries

8.967 slots_t Struct Reference

Data Fields

- slot_t uimSlotStatus [255]

8.967.1 Detailed Description

This structure contains slots status.

Parameters

uimSlotStatus	• See slot_t

8.967.2 Field Documentation

8.967.2.1 slot_t slots_t::uimSlotStatus[255]

8.968 slqsautoconnect Struct Reference

Data Fields

- BOOL action
- BYTE acsetting
- BYTE acroamsetting

8.968.1 Detailed Description

structure contains autoconnect settings parameters

Parameters

action	• 0 - get autoconnect settings • 1 - set autoconnect settings
acsetting	• Current autoconnect setting: – 0x00 - Autoconnect disabled – 0x01 - Autoconnect enabled – 0x02 - Autoconnect paused (resume on powercycle)
acroamsetting	• Current autoconnect roaming status – 0x00 - Autoconnect always allowed – 0x01 - Autoconnect while in home service area only

8.968.2 Field Documentation

8.968.2.1 BYTE slqsautoconnect::acroamsetting

8.968.2.2 BYTE slqsautoconnect::acsetting

8.968.2.3 BOOL slqsautoconnect::action

8.969 SLQSDeleteProfileParams Struct Reference

Data Fields

- BYTE profileType

- BYTE profileIndex

8.969.1 Detailed Description

This structure contains the information about the profile to be deleted.

Parameters

profileType	• Identifies the type of profile – 0x00 - 3GPP • Note: Deletion of 3GPP2 profiles is not supported.

profileIndex	• Index of the configured profile to be deleted
	  – Value between 1 - 16 (EM/MC73xx or earlier)
	  – Value between 1 - 24 (EM/MC74xx onwards)

8.969.2 Field Documentation

8.969.2.1 BYTE SLQSDeleteProfileParams::profileIndex

8.969.2.2 BYTE SLQSDeleteProfileParams::profileType

8.970 slqsfwinfo_s Struct Reference

Data Fields

- CHAR modelid_str [20]
- CHAR bootversion_str [85]
- CHAR appversion_str [85]
- CHAR sku_str [15]
- CHAR packageid_str [85]
- CHAR carrier_str [20]
- CHAR priversion_str [16]
- CHAR cur_carr_name [17]
- CHAR cur_carr_rev [13]

8.970.1 Detailed Description

SPKG CWE firmware image info structure

Parameters

modelid_str	• device model identifier string
bootversion_str	• firmware boot version string
appversion_str	• firmware application version string

sku_str	• SKU(PRI) string
packageid_str	• package identifier string • deprecated on EM/MC74xx(9x30) devices
carrier_str	• carrier string • See qaGobiApiTableCarrierCodes.h for carrier codes
priversion_str	• PRI version string
cur_carr_name	• Current PRI Carrier Name
cur_carr_rev	• Current PRI Carrier Revision

8.970.2 Field Documentation

8.970.2.1 CHAR slqsfwinfo_s::appversion_str[85]

8.970.2.2 CHAR slqsfwinfo_s::bootversion_str[85]

8.970.2.3 CHAR slqsfwinfo_s::carrier_str[20]

8.970.2.4 CHAR slqsfwinfo_s::cur_carr_name[17]

8.970.2.5 CHAR slqsfwinfo_s::cur_carr_rev[13]

8.970.2.6 CHAR slqsfwinfo_s::modelid_str[20]

8.970.2.7 CHAR slqsfwinfo_s::packageid_str[85]

8.970.2.8 CHAR slqsfwinfo_s::priversion_str[16]

8.970.2.9 CHAR slqsfwinfo_s::sku_str[15]

8.971 SlqsNas3GppNetworkInfo Struct Reference

Data Fields

- WORD MCC
- WORD MNC
- ULONG InUse
- ULONG Roaming
- ULONG Forbidden
- ULONG Preferred
- CHAR Description [255]

8.971.1 Detailed Description

Contain the 3GPP network information.

Parameters

MCC	• Mobile Country Code
MNC	• Mobile Network Code
InUse	• Is the Network the current serving Network – 0 - Unknown – 1 - Current serving network – 2 - Not current serving network, available
Roaming	• Home/Roam Status of the Network – 0 - Unknown – 1 - Home – 2 - Roam
Forbidden	• Is the Network in the forbidden network list – 0 - Unknown – 1 - Forbidden – 2 - Not Forbidden
Preferred	• Is the Network in the Preferred network list – 0 - Unknown – 1 - Preferred – 2 - Not Preferred
Description	• Network Name/Description • This is a NULL terminated string.

8.971.2 Field Documentation

8.971.2.1 CHAR SlqsNas3GppNetworkInfo::Description[255]

8.971.2.2 ULONG SlqsNas3GppNetworkInfo::Forbidden

8.971.2.3 ULONG SlqsNas3GppNetworkInfo::InUse

8.971.2.4 WORD SlqsNas3GppNetworkInfo::MCC

8.971.2.5 WORD SlqsNas3GppNetworkInfo::MNC

8.971.2.6 ULONG SlqsNas3GppNetworkInfo::Preferred

8.971.2.7 ULONG SlqsNas3GppNetworkInfo::Roaming

8.972 SlqsNasPcsDigit Struct Reference

Data Fields

- WORD MCC
- WORD MNC
- BYTE includes_pcs_digit

8.972.1 Detailed Description

Contain the PCS Digit information

Parameters

MCC	• Mobile Country Code
MNC	• Mobile Network Code
includes_pcs_digit	• this field is use to interpret the length of corresponding MNC reported • 0x01 - MNC is a three-digit value • 0x00 - MNC is a two-digit value

8.972.2 Field Documentation

8.972.2.1 BYTE SlqsNasPcsDigit::includes_pcs_digit

8.972.2.2 WORD SlqsNasPcsDigit::MCC

8.972.2.3 WORD SlqsNasPcsDigit::MNC

8.973 slqssendasyncsmsparams_s Struct Reference

Data Fields

- ULONG messageFormat
- ULONG messageSize
- BYTE * pMessage
- BYTE * pForceOnDC
- BYTE * pServiceOption
- BYTE * pFollowOnDC
- BYTE * pLinktimer
- BYTE * pSmsOnIms
- BYTE * pRetryMessage
- ULONG * pRetryMessageId
- ULONG * pUserData

8.973.1 Detailed Description

This structure contains SMS parameters

Parameters

messageFormat	• Message format • Values: – 0 - CDMA (IS-637B) – 1 - 5 (Reserved) – 6 - GSM/WCDMA PP
messageSize	• The length of the message contents in bytes
pMessage	• The message contents
pForceOnDC	• Force the message to be sent on the CDMA dedicated channel. • Values: – 0x00 - Do not care about the channel on which the message is sent – 0x01 - Request to send the message over the dedicated channel
pServiceOption	• Service option: • Values: – 0x00 - SO_AUTO - AUTO (choose the best service option) – 0x06 - SO_6 - Service option 6 – 0x0E - SO_14 - Service option 14
pFollowOnDC	• Flag to request not to disconnect the CDMA dedicated channel after the send operation is complete. • This TLV can be included if more messages are expected to follow. • Values: – 0x01 - FOLLOW_ON_DC_ON - On (don't disconnect after send operation) Any value other than 0x01 is treated as an absence of this TLV.
pLinktimer	• Keeps the GW SMS link open for the specified number of seconds; can be enabled if more messages are expected to follow
pSmsOnIms	• Indicates whether the message is to be sent on IMS. • Values: – 0x00 - Message is not to be sent on IMS – 0x01 - Message is to be sent on IMS – 0x02 to 0xFF - Reserved

pRetryMessage	• Indicates this message is a retry message. • Values: – 0x01 - WMS_MESSAGE_IS_A_RETRY - Message is a retry message Note: Any value other than 0x01 in this field is treated as an absence of this TLV.
pRetryMessageId	• Message ID to be used in the retry message. • The message ID specified here is used instead of the messsage ID encoded in the raw message.
pUserData	• Enables the control point to associate the request with the corresponding indication. • The control point might send numerous requests. • This TLV will help the control point to identify the request for which the received indication belongs.

8.973.2 Field Documentation

8.973.2.1 ULONG slqssendasyncsmsparams_s::messageFormat

8.973.2.2 ULONG slqssendasyncsmsparams_s::messageSize

8.973.2.3 BYTE* slqssendasyncsmsparams_s::pFollowOnDC

8.973.2.4 BYTE* slqssendasyncsmsparams_s::pForceOnDC

8.973.2.5 BYTE* slqssendasyncsmsparams_s::pLinktimer

8.973.2.6 BYTE* slqssendasyncsmsparams_s::pMessage

8.973.2.7 BYTE* slqssendasyncsmsparams_s::pRetryMessage

8.973.2.8 ULONG* slqssendasyncsmsparams_s::pRetryMessageId

8.973.2.9 BYTE* slqssendasyncsmsparams_s::pServiceOption

8.973.2.10 BYTE* slqssendasyncsmsparams_s::pSmsOnIms

8.973.2.11 ULONG* slqssendasyncsmsparams_s::pUserData

8.974 slqssendsmsparams_s Struct Reference

Data Fields

- ULONG messageFormat
- ULONG messageSize
- BYTE * pMessage
- USHORT messageID
- ULONG messageFailureCode
- BYTE * pLinktimer
- BYTE * pSmsOnIms

8.974.1 Detailed Description

This structure contains SMS parameters

Parameters

messageFormat[IN]	• Message format – 0 - CDMA (IS-637B) – 1 - 5 (Reserved) – 6 - GSM/WCDMA PP
messageSize[IN]	• The length of the message contents in bytes
pMessage[IN]	• The message contents in PDU format contains SMS header and payload message
pMessageID[OUT]	• message reference ID
pMessageFailureCode[OUT]	• (Optional) Message Failure Code • If cause code is not provided, then value will be 0xFFFFFFFF
pSmsOnIms[IN]	• (Optional) SMS on IMS • Indicates whether the message is to be sent on IMS. • Values: – 0x00 - Message is not to be sent on IMS – 0x01 - Message is to be sent on IMS – 0x02 to 0xFF - Reserved
pLinktimer[IN]	• (Optional) Link Timer • Keeps the GW SMS link open for the specified number of seconds; can be enabled if more messages are expected to follow

8.974.2 Field Documentation

8.974.2.1 ULONG slqssendsmsparams_s::messageFailureCode

8.974.2.2 ULONG slqssendsmsparams_s::messageFormat

8.974.2.3 USHORT slqssendsmsparams_s::messageID

8.974.2.4 ULONG slqssendsmsparams_s::messageSize

8.974.2.5 BYTE* slqssendsmsparams_s::pLinktimer

8.974.2.6 BYTE* slqssendsmsparams_s::pMessage

8.974.2.7 BYTE* slqssendsmsparams_s::pSmsOnIms

8.975 slqsSessionStateInfo Struct Reference

Data Fields

- qaQmiInterfaceInfo * pQmiInterfaceInfo
- ULONG reconfiguration_required
- ULONG state
- ULONG sessionEndReason

8.975.1 Detailed Description

Contains the session state information and information about the interface

Parameters

pQmiInterface-Info	• See qaQmiInterfaceInfo for more information
state	• Current Link Status – 1 Disconnected – 2 Connected – 3 Suspended (Unsupported) – 4 Authenticating
reconfiguration_-required	• Indicates if host needs to be reconfigured – 0 No need to reconfigure – 1 Reconfiguration required
sessionEnd-Reason	• See qaGobiApiTableCallEndReasons.h for Call End Reason

8.975.2 Field Documentation

8.975.2.1 qaQmiInterfaceInfo* slqsSessionStateInfo::pQmiInterfaceInfo

8.975.2.2 ULONG slqsSessionStateInfo::reconfiguration_required

8.975.2.3 ULONG slqsSessionStateInfo::sessionEndReason

8.975.2.4 ULONG slqsSessionStateInfo::state

8.976 slqsSignalStrengthInfo Struct Reference

Data Fields

- USHORT signalStrengthReqMask
- USHORT rxSignalStrengthListLen
- struct rxSignalStrengthListElement rxSignalStrengthList [18]
- USHORT ecioListLen
- struct ecioListElement ecioList [18]

- INT32 Io
- BYTE sinr
- USHORT errorRateListLen
- struct errorRateListElement errorRateList [18]
- struct rsrqInformation rsrqInfo
- SHORT ltesnr
- SHORT ltersrp

8.976.1 Detailed Description

This structure contains the Signal Strength Information

Parameters

signalStrength-ReqMask[IN]	• Request Mask – Request additional signal information for: Bit 0 - RSSI Information bit Valid values are: 0 - Do Not Request Additional Info for RSSI 1 - Request Additional Info for RSSI Bit 1 - ECIO Information bit Valid values are: 0 - Do Not Request Additional Info for ECIO 1 - Request Additional Info for ECIO Bit 2 - IO Information bit Valid values are: 0 - Do Not Request Additional Info for IO 1 - Request Additional Info for IO Bit 3 - SINR Information bit Valid values are: 0 - Do Not Request Additional Info for SINR 1 - Request Additional Info for SINR Bit 4 - ERROR RATE Information bit Valid values are: 0 - Do Not Request Additional Info for Error Rate 1 - Request Additional Info for Error Rate Bit 5 - RSRQ Information bit Valid values are: 0 - Do Not Request Additional Info for RSRQ 1 - Request Additional Info for RSRQ Bit 6 - LTE SNR information bit Valid values are: 0 - Do not request additional information for LTE SNR 1 - Request additional information for LTE SNR Bit 7 - LTE RSRP Information bit Valid values are: 0 - Do not request additional information for LTE RSRP 1 - Request additional information for LTE RSRP
rxSignal-StrengthList-Len[OUT]	• Number of elements in Receive Signal Strength List
rxSignal-StrengthList[OU-T]	• See rxSignalStrengthListElement for more information
ecioListLen[OU-T]	• Number of elements in ECIO List

ecioList[OUT]	• See ecioListElement for more information
Io[OUT]	• Received Io in dBm; IO is only applicable for 1xEV-DO
sinr[OUT]	• SINR level – SINR is only applicable for 1xEV-DO; valid levels are 0 to 8 where maximum value for 0 - SINR_LEVEL_0 is -9 dB 1 - SINR_LEVEL_1 is -6 dB 2 - SINR_LEVEL_2 is -4.5 dB 3 - SINR_LEVEL_3 is -3 dB 4 - SINR_LEVEL_4 is -2 dB 5 - SINR_LEVEL_5 is +1 dB 6 - SINR_LEVEL_6 is +3 dB 7 - SINR_LEVEL_7 is +6 dB 8 - SINR_LEVEL_8 is +9 dB
errorRateList-Len[OUT]	• Number of elements in Error Rate List
errorRateList[O-UT]	• See errorRateListElement for more information
rsrqInfo[OUT]	• See rsrqInformation for more information
ltesnr[OUT]	• LTE SNR level as a scaled integer in units of 0.1 dB; e.g., -16 dB has a value of -160 and 24.6 dB has a value of 246. LTE SNR is included only when the current serving system is LTE
ltersrp[OUT]	• LTE SNR level as a scaled integer in units of 0.1 dB; e.g., -16 dB has a value of -160 and 24.6 dB has a value of 246. LTE SNR is included only when the current serving system is LTE

8.976.2 Field Documentation

8.976.2.1 struct ecioListElement slqsSignalStrengthInfo::ecioList[18]

8.976.2.2 USHORT slqsSignalStrengthInfo::ecioListLen

8.976.2.3 struct errorRateListElement slqsSignalStrengthInfo::errorRateList[18]

8.976.2.4 USHORT slqsSignalStrengthInfo::errorRateListLen

8.976.2.5 INT32 slqsSignalStrengthInfo::Io

8.976.2.6 SHORT slqsSignalStrengthInfo::ltersrp

8.976.2.7 SHORT slqsSignalStrengthInfo::ltesnr

8.976.2.8 struct rsrqInformation slqsSignalStrengthInfo::rsrqInfo

8.976.2.9 struct rxSignalStrengthListElement slqsSignalStrengthInfo::rxSignalStrengthList[18]

8.976.2.10 USHORT slqsSignalStrengthInfo::rxSignalStrengthListLen

8.976.2.11 USHORT slqsSignalStrengthInfo::signalStrengthReqMask

8.976.2.12 BYTE slqsSignalStrengthInfo::sinr

8.977 SLQSSignalStrengthsIndReq Struct Reference

Data Fields

- BYTE rxSignalStrengthDelta
- BYTE ecioDelta
- BYTE ioDelta
- BYTE sinrDelta
- BYTE rsrqDelta
- BYTE ecioThresholdListLen
- SHORT ecioThresholdList [10]
- BYTE sinrThresholdListLen
- BYTE sinrThresholdList [5]
- WORD lteSnrDelta
- BYTE lteRsrpDelta

8.977.1 Detailed Description

Structure for storing the input parameters passed for SLQSSetSignalStrengthsCallback by the user.

Parameters

rxSignal-StrengthDelta	• RSSI delta(in dBm) at which an event report indication, including the current RSSI, will be sent to the requesting control point.
ecioDelta	• ECIO delta at which an event report indication, ecioDelta including the current ECIO, will be sent to the requesting control point. • ECIO delta is an unsigned 1 byte value that increments in negative 0.5 dBm, e.g., ecio_delta of 2 means a change of -1 dBm.
ioDelta	• IO delta (in dBm) at which an event report indication, ioDelta including the current IO, will be sent to the requesting control point.
sinrDelta	• SINR delta level at which an event report indication, sinrDelta including the current SINR, will be sent to the requesting control point.
rsrqDelta	• RSRQ delta level at which an event report indication, including the current RSRQ, will be sent to the requesting control point.
ecioThreshold-ListLen	• Number of elements in the ECIO threshold list.

ecioThreshold-List	• A sequence of thresholds delimiting EcIo event reporting bands. Every time a new EcIo value crosses a threshold value, an event report indication message with the new ECIO value is sent to the requesting control point. For this field: – Maximum number of threshold values is 10 – At least one value must be specified.
sinrThreshold-ListLen	• Number of elements in the SINR threshold list.
sinrThreshold-List	• A sequence of thresholds delimiting SINR event reporting bands. Every time a new SINR value crosses a threshold value, an event report indication message with the new sinr value is sent to the requesting control point. For this field: – Maximum number of threshold values is 5 – At least one value must be specified.
ltesnrdelta	• LTE SNR delta level at which an event report indication, including the current SNR, will be sent to the requesting control point. LTE SNR delta level is an unsigned 2 byte value, representing the delta in units of 0.1 dB, e.g., lte_snr_delta of 3 means a change 0.3dB.
ltersrpdelta	-LTE RSRP delta level at which an event report -indication, including the current RSRP, will be sent -to the requesting control point. LTE RSRP delta -level is an unsigned 1 byte value, representing the -delta in dB.

Note

None

8.977.2 Field Documentation

8.977.2.1 BYTE SLQSSignalStrengthsIndReq::ecioDelta

8.977.2.2 SHORT SLQSSignalStrengthsIndReq::ecioThresholdList[10]

8.977.2.3 BYTE SLQSSignalStrengthsIndReq::ecioThresholdListLen

8.977.2.4 BYTE SLQSSignalStrengthsIndReq::ioDelta

8.977.2.5 BYTE SLQSSignalStrengthsIndReq::lteRsrpDelta

8.977.2.6 WORD SLQSSignalStrengthsIndReq::lteSnrDelta

8.977.2.7 BYTE SLQSSignalStrengthsIndReq::rsrqDelta

8.977.2.8 BYTE SLQSSignalStrengthsIndReq::rxSignalStrengthDelta

8.977.2.9 BYTE SLQSSignalStrengthsIndReq::sinrDelta

8.977.2.10 BYTE SLQSSignalStrengthsIndReq::sinrThresholdList[5]

8.977.2.11 BYTE SLQSSignalStrengthsIndReq::sinrThresholdListLen

8.978 SLQSSignalStrengthsInformation Struct Reference

Data Fields

- struct rxSignalStrengthListElement rxSignalStrengthInfo
- struct ecioListElement ecioInfo
- ULONG io
- BYTE sinr
- struct errorRateListElement errorRateInfo
- struct rsrqInformation rsrqInfo
- struct lteSnrinformation lteSnrinfo
- struct lteRsrpinformation lteRsrpinfo

8.978.1 Detailed Description

Structure for Received Signal Strength Information.

Parameters

rxSignal-StrengthInfo	• See rxSignalStrengthListElement for more information.
ecioInfo	• See ecioListElement for more information.
io	• Received IO in dBm; IO is only applicable for 1xEV-DO.
sinr	• SINR level – SINR is only applicable for 1xEV-DO; valid levels are 0 to 8 where maximum value for 0 - SINR_LEVEL_0 is -9 dB 1 - SINR_LEVEL_1 is -6 dB 2 - SINR_LEVEL_2 is -4.5 dB 3 - SINR_LEVEL_3 is -3 dB 4 - SINR_LEVEL_4 is -2 dB 5 - SINR_LEVEL_5 is +1 dB 6 - SINR_LEVEL_6 is +3 dB 7 - SINR_LEVEL_7 is +6 dB 8 - SINR_LEVEL_8 is +9 dB
errorRateInfo	• See errorRateListElement for more information.
rsrqInfo	• See rsrqInformation for more information.
lteSnrinfo	• See lteSnrinformation for more information.
lteRsrpinfo	• See lteRsrpinformation for more information.

Note

None

8.978.2 Field Documentation

8.978.2.1 struct ecioListElement SLQSSignalStrengthsInformation::ecioInfo

8.978.2.2 struct errorRateListElement SLQSSignalStrengthsInformation::errorRateInfo

8.978.2.3 ULONG SLQSSignalStrengthsInformation::io

8.978.2.4 struct lteRsrpinformation SLQSSignalStrengthsInformation::lteRsrpinfo

8.978.2.5 struct lteSnrinformation SLQSSignalStrengthsInformation::lteSnrinfo

8.978.2.6 struct rsrqInformation SLQSSignalStrengthsInformation::rsrqInfo

8.978.2.7 struct rxSignalStrengthListElement SLQSSignalStrengthsInformation::rxSignalStrengthInfo

8.978.2.8 BYTE SLQSSignalStrengthsInformation::sinr

8.979 sIqsWdsEventInfo Struct Reference

Data Fields

- qaQmiInterfaceInfo * pQmiInterfaceInfo
- ULONG * pDormancyStatus
- ULONG * pDataBearer
- ULONG * pPacketsCountTX
- ULONG * pPacketsCountRX
- ULONGLONG * pTotalBytesTX
- ULONGLONG * pTotalBytesRX

8.979.1 Detailed Description

Contains the WDS event information and information about the interface

Parameters

pQmiInterface-Info	• See qaQmiInterfaceInfo for more information
pDataBearer,-	Data bearer technology (NULL if not present) • 0x00 - Indicates that this field is ignored • 0x01 - CDMA 1X • 0x02 - EV-DO Rev 0 • 0x03 - GPRS • 0x04 - WCDMA • 0x05 - EV-DO Rev A • 0x06 - EDGE • 0x07 - HSDPA and WCDMA • 0x08 - WCDMA and HSUPA • 0x09 - HSDPA and HSUPA • 0x0A - LTE • 0x0B - EV-DO Rev A EHRPD • 0x0C - HSDPA+ and WCDMA • 0x0D - HSDPA+ and HSUPA • 0x0E - DC_HSDPA+ and WCDMA • 0x0F - DC_HSDPA+ and HSUPA • 0x8000 - NULL Bearer • 0xFF - Unknown Technology
pDormancy-Status	• Dormancy status (NULL if not present) – 1 - traffic channel dormant – 2 - traffic channel active
pPacketsCount-TX	• Packets transmitted without error (NULL if not present)
pPacketsCount-RX	• Packets received without error (NULL if not present)
pTotalBytesTX	• Bytes transmitted without error (NULL if not present)
pTotalBytesRX	• Bytes received without error (NULL if not present)

8.979.2 Field Documentation

8.979.2.1 ULONG* slqsWdsEventInfo::pDataBearer

8.979.2.2 ULONG* slqsWdsEventInfo::pDormancyStatus

8.979.2.3 ULONG* slqsWdsEventInfo::pPacketsCountRX

8.979.2.4 ULONG* slqsWdsEventInfo::pPacketsCountTX

8.979.2.5 qaQmiInterfaceInfo* slqsWdsEventInfo::pQmiInterfaceInfo

8.979.2.6 ULONGLONG* slqsWdsEventInfo::pTotalBytesRX

8.979.2.7 ULONGLONG* slqsWdsEventInfo::pTotalBytesTX

8.980 sms_BroadcastConfig Struct Reference

Data Fields

- uint16_t fromServiceId
- uint16_t toServiceId
- uint8_t selected

8.980.1 Detailed Description

This structure contains BroadcastConfig parameters

Parameters

fromServiceId	• Starting point of range of CBM message identifiers
toServiceId	• Ending point of range of CBM message identifiers
selected	• Range of CBM message identifiers indicated by from_service_id and to_service_id – 0x00 – Not selected – 0x01 – Selected

8.980.2 Field Documentation

8.980.2.1 uint16_t sms_BroadcastConfig::fromServiceId

8.980.2.2 uint8_t sms_BroadcastConfig::selected

8.980.2.3 uint16_t sms_BroadcastConfig::toServiceId

8.981 sms_CDMABroadcastConfig Struct Reference

Data Fields

- uint16_t serviceCategory
- uint16_t language
- uint8_t selected

8.981.1 Detailed Description

This structure contains CDMABroadcastConfig parameters

Parameters

serviceCategory	• Service category
language	• Language
selected	• Specified service_category and language – 0x00 – Not selected – 0x01 – Selected

8.981.2 Field Documentation

8.981.2.1 uint16_t sms_CDMABroadcastConfig::language

8.981.2.2 uint8_t sms_CDMABroadcastConfig::selected

8.981.2.3 uint16_t sms_CDMABroadcastConfig::serviceCategory

8.982 sms_getIndicationReg Struct Reference

Data Fields

- uint8_t ∗ pRegTransLayerInfoEvt
- uint8_t ∗ pRegTransNWRegInfoEvt
- uint8_t ∗ pRegCallStatInfoEvt

8.982.1 Detailed Description

This structure contains Get Indication Register Response parameters

Parameters

pRegTrans-LayerInfoEvt	- • Optional parameter indicating registration status of transport layer information events • Values: – 0x00 - Disabled – 0x01 - Enabled • returns a default value 0xFF if this parameter is allocated memory in the structure and no response is received from the device.
pRegTransNW-RegInfoEvt	- • Optional parameter indicating registration status of transport network registration information events • Values: – 0x00 - Disabled – 0x01 - Enabled • returns a default value 0xFF if this parameter is allocated memory in the structure and no response is received from the device.

pRegCallStat-InfoEvt	- • Optional parameter indicating registration status of call status information events • Values: – 0x00 - Disabled – 0x01 - Enabled • returns a default value 0xFF if this parameter is allocated memory in the structure and no response is received from the device.

8.982.2 Field Documentation

8.982.2.1 uint8_t∗ sms_getIndicationReg::pRegCallStatInfoEvt

8.982.2.2 uint8_t∗ sms_getIndicationReg::pRegTransLayerInfoEvt

8.982.2.3 uint8_t∗ sms_getIndicationReg::pRegTransNWRegInfoEvt

8.983 sms_getMsgWaitingInfo Struct Reference

Data Fields

- uint8_t numInstances
- sms_messageWaitingInfoContent msgWaitInfo [0xFF]

8.983.1 Detailed Description

This structure contains Get Message Waiting Info Response parameters

Parameters

numInstances	• Number of sets of the elements in structure sms_messageWaitingInfoContent
pMsgWaitInfo	• Pointer to structure of sms_messageWaitingInfoContent. – See sms_messageWaitingInfoContent for more information.

8.983.2 Field Documentation

8.983.2.1 sms_messageWaitingInfoContent sms_getMsgWaitingInfo::msgWaitInfo[0xFF]

8.983.2.2 uint8_t sms_getMsgWaitingInfo::numInstances

8.984 sms_getTransLayerInfo Struct Reference

Data Fields

- uint8_t ∗ pRegInd
- sms_transLayerInfo ∗ pTransLayerInfo

8.984.1 Detailed Description

This structure contains Get Transport Layer Info Response parameters

Parameters

pRegInd	- • Optional parameter indicating if transport layer is registered • Values: – 0x00 - Transport layer is not registered – 0x01 - Transport layer is registered • returns a default value 0xFF if no response is received from the device. • NULL pointer - Invalid data.
pTransLayerInfo	• Pointer to structure of sms_transLayerInfo. – Optional parameter – See sms_transLayerInfo for more information • returns a default value 0xFF for parameter values if no response is received from the device. • NULL pointer - Invalid data.

8.984.2 Field Documentation

8.984.2.1 uint8_t∗ sms_getTransLayerInfo::pRegInd

8.984.2.2 sms_transLayerInfo∗ sms_getTransLayerInfo::pTransLayerInfo

8.985 sms_getTransNWRegInfo Struct Reference

Data Fields

- uint8_t ∗ pRegStatus

8.985.1 Detailed Description

This structure contains transport network registration info parameter

Parameters

pRegStatus	- • Optional parameter indicating transport layer network registration status • Values: – 0x00 - No service – 0x01 - In progress – 0x02 - Failed – 0x03 - Limited Service – 0x04 - Full Service • returns a default value 0xFF if no response is received from the device.

8.985.2 Field Documentation

8.985.2.1 uint8_t* sms_getTransNWRegInfo::pRegStatus

8.986 sms_maxStorageSizeReq Struct Reference

Data Fields

- uint8_t storageType
- uint8_t * pMessageMode

8.986.1 Detailed Description

This structure contains get store max size request parameters

Parameters

storageType	• SMS message storage type – 0 - UIM - Invalid in case of CDMA device that does not require SIM – 1 - NV
pMessage-Mode(optional	parameter) • 0x00 - CDMA, LTE (if network type is CDMA) • 0x01 - GW, LTE (if network type is UMTS)

Note

The Message Mode TLV must be included if the device is capable of supporting more than one protocol

8.986.2 Field Documentation

8.986.2.1 uint8_t* sms_maxStorageSizeReq::pMessageMode

8.986.2.2 uint8_t sms_maxStorageSizeReq::storageType

8.987 sms_maxStorageSizeResp Struct Reference

Data Fields

- uint32_t maxStorageSize
- uint32_t freeSlots

8.987.1 Detailed Description

This structure contains get store max size response parameters

Parameters

maxStorageSize	- • Memory Store Size

freeSlots	- • Optional parameter indicating how much Memory is available • returns a default value 0xFFFFFFFF for parameter values if no response is received from the device.

8.987.2 Field Documentation

8.987.2.1 uint32_t sms_maxStorageSizeResp::freeSlots

8.987.2.2 uint32_t sms_maxStorageSizeResp::maxStorageSize

8.988 sms_messageWaitingInfoContent Struct Reference

Data Fields

- uint8_t msgType
- uint8_t activeInd
- uint8_t msgCount

8.988.1 Detailed Description

This structure contains message waiting information per instance

Parameters

msgType	• Message type – 0x00 - MWI_MESSAGE_TYPE_VOICMAIL - Voicemail – 0x01 - MWI_MESSAGE_TYPE_FAX - Fax – 0X02 - MWI_MESSAGE_TYPE_EMAIL - Email – 0x03 - MWI_MESSAGE_TYPE_OTHER - Other – 0x04 - MWI_MESSAGE_TYPE_VIDEOMAIL - Videomail
activeInd	• Indicates whether the indication is active – 0x00 - Inactive – 0x01 - Active
msgCount	• Number of messages

8.988.2 Field Documentation

8.988.2.1 uint8_t sms_messageWaitingInfoContent::activeInd

8.988.2.2 uint8_t sms_messageWaitingInfoContent::msgCount

8.988.2.3 uint8_t sms_messageWaitingInfoContent::msgType

8.989 sms_msgProtocolResp Struct Reference

Data Fields

- uint8_t msgProtocol

8.989.1 Detailed Description

This structure contains get message protocol response parameters

Parameters

msgProtocol	- • Message Protocol • Values: – 0x00 - MESSAGE_PROTOCOL_CDMA – 0x01 - MESSAGE_PROTOCOL_WCDMA

8.989.2 Field Documentation

8.989.2.1 uint8_t sms_msgProtocolResp::msgProtocol

8.990 sms_qaQmi3GPP2BroadcastCfgInfo Struct Reference

Data Fields

- uint8_t activated_ind
- uint16_t num_instances
- sms_CDMABroadcastConfig CDMABroadcastConfig [0x05]

8.990.1 Detailed Description

This structure contains the 3GPP2 Broadcast Configuration Information parameters

Parameters

activated_ind	• Broadcast SMS – 0x00 - Deactivated – 0x01 - Activated
num_instances	• Number of sets (N) of parameters Following each set describes one entry in the broadcast configuration table. – serviceCategory – language – selected
broadcastConfig	• A CDMABroadcastConfig structure array. • Further defined by the structure sms_CDMABroadcastConfig

8.990.2 Field Documentation

8.990.2.1 uint8_t sms_qaQmi3GPP2BroadcastCfgInfo::activated_ind

8.990.2.2 sms_CDMABroadcastConfig sms_qaQmi3GPP2BroadcastCfgInfo::CDMABroadcastConfig[0x05]

8.990.2.3 uint16_t sms_qaQmi3GPP2BroadcastCfgInfo::num_instances

8.991 sms_qaQmi3GPPBroadcastCfgInfo Struct Reference

Data Fields

- uint8_t activated_ind
- uint16_t num_instances
- sms_BroadcastConfig broadcastConfig [0x05]

8.991.1 Detailed Description

This structure contains the 3GPP Broadcast Configuration Information parameters

Parameters

activated_ind	• Broadcast SMS – 0x00 - Deactivated – 0x01 - Activated
num_instances	• Number of sets (N) of parameters Following each set describes one entry in the broadcast configuration table. – fromServiceId – toServiceId – selected
broadcastConfig	• A BroadcastConfig structure array. • Further defined by the structure sms_BroadcastConfig

8.991.2 Field Documentation

8.991.2.1 uint8_t sms_qaQmi3GPPBroadcastCfgInfo::activated_ind

8.991.2.2 sms_BroadcastConfig sms_qaQmi3GPPBroadcastCfgInfo::broadcastConfig[0x05]

8.991.2.3 uint16_t sms_qaQmi3GPPBroadcastCfgInfo::num_instances

8.992 sms_routeEntry Struct Reference

Data Fields

- uint8_t messageType
- uint8_t messageClass

- uint8_t routeStorage
- uint8_t receiptAction

8.992.1 Detailed Description

This structure contains SMS route entry details

Parameters

messageType	- • Message type matching this route • Values: – 0x00 - MESSAGE_TYPE_POINT_TO_POINT
messageClass	- • Message Class • Values: – 0x00 - MESSAGE_CLASS_0 – 0x01 - MESSAGE_CLASS_1 – 0x02 - MESSAGE_CLASS_2 – 0x03 - MESSAGE_CLASS_3 – 0x04 - MESSAGE_CLASS_NONE – 0x05 - MESSAGE_CLASS_CDMA
routeStorage	- • If the receiptAction is store where to store the message • Values: – 0x00 - STORAGE_TYPE_UIM – 0x01 - STORAGE_TYPE_NV – 0xFF - STORAGE_TYPE_NONE
receiptAction	- • Action to be taken on receipt of a message matching the specified type and class for this route • Values: – 0x00 - DISCARD (discarded without notification) – 0x01 - STORE AND NOTIFY (stored and notified to the registered clients) – 0x02 - TRANSFER ONLY (transferred to the client, client expected to send the ACK) – 0x03 - TRANSFER AND ACK (transferred to the client, device expected to send the ACK)

8.992.2 Field Documentation

8.992.2.1 uint8_t sms_routeEntry::messageClass

8.992.2.2 uint8_t sms_routeEntry::messageType

8.992.2.3 uint8_t sms_routeEntry::receiptAction

8.992.2.4 uint8_t sms_routeEntry::routeStorage

8.993 sms_sendAsyncsmsParams Struct Reference

Data Fields

- uint32_t messageFormat
- uint32_t messageSize
- uint8_t * pMessage
- uint8_t * pForceOnDC
- uint8_t * pServiceOption
- uint8_t * pFollowOnDC
- uint8_t * pLinktimer
- uint8_t * pSmsOnIms
- uint8_t * pRetryMessage
- uint32_t * pRetryMessageId
- uint32_t * pUserData

8.993.1 Detailed Description

This structure contains SMS parameters

Parameters

messageFormat	• Message format • Values: – 0 - CDMA (IS-637B) – 1 - 5 (Reserved) – 6 - GSM/WCDMA PP
messageSize	• The length of the message contents in bytes
pMessage	• The message contents
pForceOnDC	• Force the message to be sent on the CDMA dedicated channel. • Values: – 0x00 - Do not care about the channel on which the message is sent – 0x01 - Request to send the message over the dedicated channel
pServiceOption	• Service option: • Values: – 0x00 - SO_AUTO - AUTO (choose the best service option) – 0x06 - SO_6 - Service option 6 – 0x0E - SO_14 - Service option 14
pFollowOnDC	• Flag to request not to disconnect the CDMA dedicated channel after the send operation is complete. • This TLV can be included if more messages are expected to follow. • Values: – 0x01 - FOLLOW_ON_DC_ON - On (don't disconnect after send operation) Any value other than 0x01 is treated as an absence of this TLV.

pLinktimer	• Keeps the GW SMS link open for the specified number of seconds; can be enabled if more messages are expected to follow
pSmsOnIms	• Indicates whether the message is to be sent on IMS. • Values: – 0x00 - Message is not to be sent on IMS – 0x01 - Message is to be sent on IMS – 0x02 to 0xFF - Reserved
pRetryMessage	• Indicates this message is a retry message. • Values: – 0x01 - WMS_MESSAGE_IS_A_RETRY - Message is a retry message Note: Any value other than 0x01 in this field is treated as an absence of this TLV.
pRetryMessageId	• Message ID to be used in the retry message. • The message ID specified here is used instead of the messsage ID encoded in the raw message.
pUserData	• Enables the control point to associate the request with the corresponding indication. • The control point might send numerous requests. • This TLV will help the control point to identify the request for which the received indication belongs.

8.993.2 Field Documentation

8.993.2.1 uint32_t sms_sendAsyncsmsParams::messageFormat

8.993.2.2 uint32_t sms_sendAsyncsmsParams::messageSize

8.993.2.3 uint8_t* sms_sendAsyncsmsParams::pFollowOnDC

8.993.2.4 uint8_t* sms_sendAsyncsmsParams::pForceOnDC

8.993.2.5 uint8_t* sms_sendAsyncsmsParams::pLinktimer

8.993.2.6 uint8_t* sms_sendAsyncsmsParams::pMessage

8.993.2.7 uint8_t* sms_sendAsyncsmsParams::pRetryMessage

8.993.2.8 uint32_t* sms_sendAsyncsmsParams::pRetryMessageId

8.993.2.9 uint8_t* sms_sendAsyncsmsParams::pServiceOption

8.993.2.10 uint8_t* sms_sendAsyncsmsParams::pSmsOnIms

8.993.2.11 uint32_t* sms_sendAsyncsmsParams::pUserData

8.994 sms_setIndicationReg Struct Reference

Data Fields

- uint8_t * pRegTransLayerInfoEvt
- uint8_t * pRegTransNWRegInfoEvt
- uint8_t * pRegCallStatInfoEvt

8.994.1 Detailed Description

This structure contains Indication Register request parameters

Parameters

pRegTrans-LayerInfoEvt	- • Optional parameter indicating registration status of transport layer information events • Values: – 0x00 - Disabled – 0x01 - Enabled – NULL - No change - specifying NULL indicates that the device will continue to use the existing setting (disable/enable) which has been previously set for the device
pRegTransNW-RegInfoEvt	- • Optional parameter indicating registration status of transport network registration information events • Values: – 0x00 - Disabled – 0x01 - Enabled – NULL - No change - specifying NULL indicates that the device will continue to use the existing setting (disable/enable) which has been previously set for the device
pRegCallStat-InfoEvt	- • Optional parameter indicating registration status of call status information events • Values: – 0x00 - Disabled – 0x01 - Enabled – NULL - No change - specifying NULL indicates that the device will continue to use the existing setting (disable/enable) which has been previously set for the device

8.994.2 Field Documentation

8.994.2.1 uint8_t* sms_setIndicationReg::pRegCallStatInfoEvt

8.994.2.2 uint8_t* sms_setIndicationReg::pRegTransLayerInfoEvt

8.994.2.3 uint8_t* sms_setIndicationReg::pRegTransNWRegInfoEvt

8.995 sms_setRoutesReq Struct Reference

Data Fields

- uint16_t numOfRoutes

- sms_routeEntry routeList [0x0A]
- uint8_t * pTransferStatusReport

8.995.1 Detailed Description

This structure contains SMS route request parameters

Parameters

numOfRoutes	- • Number of sets of the following element
routeList	- • Array containing the set of sms_routeEntry
pTransferStatus-Report	- • 0x01 - Status report are transferred to the client (optional)

8.995.2 Field Documentation

8.995.2.1 uint16_t sms_setRoutesReq::numOfRoutes

8.995.2.2 uint8_t* sms_setRoutesReq::pTransferStatusReport

8.995.2.3 sms_routeEntry sms_setRoutesReq::routeList[0x0A]

8.996 sms_transLayerInfo Struct Reference

Data Fields

- uint8_t TransType
- uint8_t TransCap

8.996.1 Detailed Description

This structure contains Transport Layer Information

Parameters

TransType	• Transport Type – 0x00 - IMS

TransCap	• Transport Capability
	• Values:
	  – 0x00 - CDMA
	  – 0x01 - GW

8.996.2 Field Documentation

8.996.2.1 uint8_t sms_transLayerInfo::TransCap

8.996.2.2 uint8_t sms_transLayerInfo::TransType

8.997 SMSAsyncRawSend_s Struct Reference

Data Fields

- WORD sendStatus
- WORD messageID
- WORD causeCode
- BYTE errorClass
- WORD RPCause
- BYTE TPCause
- BYTE msgDelFailureType
- BYTE msgDelFailureCause
- BYTE alphaIDLen
- BYTE * pAlphaID
- ULONG userData

8.997.1 Detailed Description

This structure contains SMS parameters

Parameters

sendStatus	• Send Status • Values: – QMI_ERR_NONE – No error in the request – QMI_ERR_CAUSE_CODE - SMS cause code – QMI_ERR_MESSAGE_DELIVERY_FAILURE - Message could not be delivered – QMI_ERR_NO_MEMORY - Device could not allocate memory to formulate a response
messageID	• Unique ID assigned by WMS for non-retry messages.
causeCode	• WMS cause code
errorClass	• Error Class • Values: – 0x00 - ERROR_CLASS_TEMPORARY – 0x01 - ERROR_CLASS_PERMANENT
RPCause	• GW RP cause
TPCause	• GW TP Cause

msgDelFailure-Type	• Message delivery failure type • Values: – 0x00 - WMS_MESSAGE_DELIVERY_FAILURE_TEMPORARY – 0x01 - WMS_MESSAGE_DELIVERY_FAILURE_PERMANENT
msgDelFailure-Cause	• Message delivery failure cause • Values: – 0x00 - WMS_MESSAGE_BLOCKED_DUE_TO_CALL_CONTROL
alphaIDLen	• Number of sets of the pAlphaID
pAlphaID	• Alpha ID
userData	• Identifies the request associated with this indication.

8.997.2 Field Documentation

8.997.2.1 BYTE SMSAsyncRawSend_s::alphaIDLen

8.997.2.2 WORD SMSAsyncRawSend_s::causeCode

8.997.2.3 BYTE SMSAsyncRawSend_s::errorClass

8.997.2.4 WORD SMSAsyncRawSend_s::messageID

8.997.2.5 BYTE SMSAsyncRawSend_s::msgDelFailureCause

8.997.2.6 BYTE SMSAsyncRawSend_s::msgDelFailureType

8.997.2.7 BYTE* SMSAsyncRawSend_s::pAlphaID

8.997.2.8 WORD SMSAsyncRawSend_s::RPCause

8.997.2.9 WORD SMSAsyncRawSend_s::sendStatus

8.997.2.10 BYTE SMSAsyncRawSend_s::TPCause

8.997.2.11 ULONG SMSAsyncRawSend_s::userData

8.998 SMSCAddress Struct Reference

Data Fields

- BYTE length
- BYTE data [256]

8.998.1 Detailed Description

This structure holds SMSC information

Parameters

length	• Number of sets of following element
data	• SMSC address

8.998.2 Field Documentation

8.998.2.1 BYTE SMSCAddress::data[256]

8.998.2.2 BYTE SMSCAddress::length

8.999 sMSCAddressInfo Struct Reference

Data Fields

- uint8_t length
- uint8_t data [256]

8.999.1 Detailed Description

This structure contains SMSC information

Parameters

length	• Number of sets of following element
data	• SMSC address

8.999.2 Field Documentation

8.999.2.1 uint8_t sMSCAddressInfo::data[256]

8.999.2.2 uint8_t sMSCAddressInfo::length

8.1000 sMSCAddressTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- sMSCAddressInfo SMSCInfo

8.1000.1 Detailed Description

This structure contains SMSC TLV information

Parameters

TlvPresent	• Boolean indicating the presence of the TLV in the QMI response
SMSCInfo	• SMSC Address • See sMSCAddressInfo for more information

8.1000.2 Field Documentation

8.1000.2.1 sMSCAddressInfo sMSCAddressTlv::SMSCInfo

8.1000.2.2 uint8_t sMSCAddressTlv::TlvPresent

8.1001 SMSEtwsMessage Struct Reference

Data Fields

- BYTE notificationType
- WORD length
- BYTE data [1254]

8.1001.1 Detailed Description

This structure holds information related earthquake and Tsunami warning system

Parameters

notificationType	• Message mode 0x00 - Primary 0x01 - Secondary GSM 0x02 - Secondary UMTS
length	• Number of sets of following elements
data	• Raw message data

8.1001.2 Field Documentation

8.1001.2.1 BYTE SMSEtwsMessage::data[1254]

8.1001.2.2 WORD SMSEtwsMessage::length

8.1001.2.3 BYTE SMSEtwsMessage::notificationType

8.1002 sMSEtwsMessageInfo Struct Reference

Data Fields

- uint8_t notificationType
- uint16_t length
- uint8_t data [1254]

8.1002.1 Detailed Description

This structure contains ETWS information

Parameters

notificationType	• Message mode 0x00 - Primary 0x01 - Secondary GSM 0x02 - Secondary UMTS
length	• Number of sets of following elements
data	• Raw message data

8.1002.2 Field Documentation

8.1002.2.1 uint8_t sMSEtwsMessageInfo::data[1254]

8.1002.2.2 uint16_t sMSEtwsMessageInfo::length

8.1002.2.3 uint8_t sMSEtwsMessageInfo::notificationType

8.1003 sMSEtwsMessageTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- sMSEtwsMessageInfo EtwsMessageInfo

8.1003.1 Detailed Description

This structure contains ETWS TLV information

Parameters

TlvPresent	• Boolean indicating the presence of the TLV in the QMI response
EtwsMessage-Info	• ETWS Message • See sMSEtwsMessageInfo for more information

8.1003.2 Field Documentation

8.1003.2.1 sMSEtwsMessageInfo sMSEtwsMessageTlv::EtwsMessageInfo

8.1003.2.2 uint8_t sMSEtwsMessageTlv::TlvPresent

8.1004 SMSEtwsPlmn Struct Reference

Data Fields

- WORD mobileCountryCode
- WORD mobileNetworkCode

8.1004.1 Detailed Description

This structure holds information related ETWS PLMN

Parameters

mobileCountry-Code	• 16 bit representation of MCC value range : 0 -999
mobileNetwork-Code	• 16 bit representation of MNC value range : 0 -999

8.1004.2 Field Documentation

8.1004.2.1 WORD SMSEtwsPlmn::mobileCountryCode

8.1004.2.2 WORD SMSEtwsPlmn::mobileNetworkCode

8.1005 sMSEtwsPlmnInfo Struct Reference

Data Fields

- uint16_t mobileCountryCode
- uint16_t mobileNetworkCode

8.1005.1 Detailed Description

This structure contains ETWS PLMN information

Parameters

mobileCountry-Code	• 16 bit representation of MCC value range : 0 -999
mobileNetwork-Code	• 16 bit representation of MNC value range : 0 -999

8.1005.2 Field Documentation

8.1005.2.1 uint16_t sMSEtwsPlmnInfo::mobileCountryCode

8.1005.2.2 uint16_t sMSEtwsPlmnInfo::mobileNetworkCode

8.1006 SMSEventInfo_s Struct Reference

Data Fields

- BYTE smsEventType
- SMSMTMessageInfo * pMTMessageInfo
- SMSTransferRouteMTMessageInfo * pTransferRouteMTMessageInfo
- SMSMessageModeInfo * pMessageModeInfo
- SMSEtwsMessageInfo * pEtwsMessageInfo
- SMSEtwsPlmnInfo * pEtwsPlmnInfo
- SMSCAddressInfo * pSMSCAddressInfo
- SMSOnIMSInfo * pSMSOnIMSInfo

8.1006.1 Detailed Description

This structure will hold the information related to received SMS events

Parameters

smsEventType	• Type of the SMS events that are received. This is a bit map of SMSEventType. Only the parameters (which follows) related to the events received would be filled, and the rest of the parameters would be NULL
pMTMessageInfo	• pointer to the SMSMTMessageInfo structure NULL, if this event is not present in the smsEventType parameter
pTransferRouteMTMessageInfo	• pointer to the SMSTransferRouteMTMessageInfo structure . NULL, if this event is not present in the smsEventType parameter
pMessageModeInfo	• pointer to the SMSMessageModeInfo structure NULL, if this event is not present in the smsEventType parameter
pEtwsMessageInfo	• pointer to the SMSEtwsMessageInfo structure NULL, if this event is not present in the smsEventType parameter
pEtwsPlmnInfo	• pointer to the SMSEtwsPlmnInfo structure NULL, if this event is not present in the smsEventType parameter
pSMSCAddressInfo	• pointer to the SMSCAddressInfo structure NULL, if this event is not present in the smsEventType parameter

pSMSOnIMSInfo	• pointer to the SMSOnIMSInfo structure NULL, if this event is not present in the smsEventType parameter Note: None

8.1006.2 Field Documentation

8.1006.2.1 SMSEtwsMessageInfo∗ SMSEventInfo_s::pEtwsMessageInfo

8.1006.2.2 SMSEtwsPlmnInfo∗ SMSEventInfo_s::pEtwsPlmnInfo

8.1006.2.3 SMSMessageModeInfo∗ SMSEventInfo_s::pMessageModeInfo

8.1006.2.4 SMSMTMessageInfo∗ SMSEventInfo_s::pMTMessageInfo

8.1006.2.5 SMSCAddressInfo∗ SMSEventInfo_s::pSMSCAddressInfo

8.1006.2.6 SMSOnIMSInfo∗ SMSEventInfo_s::pSMSOnIMSInfo

8.1006.2.7 SMSTransferRouteMTMessageInfo∗ SMSEventInfo_s::pTransferRouteMTMessageInfo

8.1006.2.8 BYTE SMSEventInfo_s::smsEventType

8.1007 smsMaxStorageSizeReq Struct Reference

Data Fields

- BYTE storageType
- BYTE ∗ pMessageMode

8.1007.1 Detailed Description

This structure contains get store max size resquest parameters

Parameters

storageType	• SMS message storage type – 0 - UIM - Invalid in case of CDMA device that does not require SIM – 1 - NV
pMessage-Mode(optional	parameter) • 0x00 - CDMA, LTE (if network type is CDMA) • 0x01 - GW, LTE (if network type is UMTS)

Note

The Message Mode TLV must be included if the device is capable of supporting more than one protocol

8.1007.2 Field Documentation

8.1007.2.1 BYTE* smsMaxStorageSizeReq::pMessageMode

8.1007.2.2 BYTE smsMaxStorageSizeReq::storageType

8.1008 smsMaxStorageSizeResp Struct Reference

Data Fields

- ULONG maxStorageSize
- ULONG freeSlots

8.1008.1 Detailed Description

This structure contains get store max size response parameters

Parameters

maxStorageSize	- • Memory Store Size
freeSlots	- • Optional parameter indicating how much Memory is available • function SLQSSmsGetMaxStorageSize() returns a default value 0xFFFFFFFF for parameter values if no response is received from the device.

8.1008.2 Field Documentation

8.1008.2.1 ULONG smsMaxStorageSizeResp::freeSlots

8.1008.2.2 ULONG smsMaxStorageSizeResp::maxStorageSize

8.1009 SMSMemoryInfo Struct Reference

Data Fields

- BYTE storageType
- BYTE messageMode

8.1009.1 Detailed Description

This structure holds information related to memory

Parameters

storageType	• Indicates the type of memory storage 0x00 - STORAGE_TYPE_UIM 0x01 - STORAGE_TYPE_NV
messageMode	• Indicates the type of memory mode 0x00 - MESSAGE_MODE_CDMA - CDMA 0x01 - MESSAGE_MODE_GW - GW

8.1009.2 Field Documentation

8.1009.2.1 BYTE SMSMemoryInfo::messageMode

8.1009.2.2 BYTE SMSMemoryInfo::storageType

8.1010 SMSMessageMode Struct Reference

Data Fields

- BYTE messageMode

8.1010.1 Detailed Description

This structure holds information related to message mode

Parameters

messageMode	• Message mode 0x00 - CDMA 0x01 - GW

8.1010.2 Field Documentation

8.1010.2.1 BYTE SMSMessageMode::messageMode

8.1011 sMSMessageModeInfo Struct Reference

Data Fields

- uint8_t messageMode

8.1011.1 Detailed Description

This structure contains message mode information.

Parameters

messageMode	Message Mode

8.1011.2 Field Documentation

8.1011.2.1 uint8_t sMSMessageModeInfo::messageMode

8.1012 smsMsgprotocolResp Struct Reference

Data Fields

- BYTE msgProtocol

8.1012.1 Detailed Description

This structure contains get message protocol response parameters

Parameters

msgProtocol	- • Message Protocol • Values: – 0x00 - MESSAGE_PROTOCOL_CDMA – 0x01 - MESSAGE_PROTOCOL_WCDMA

8.1012.2 Field Documentation

8.1012.2.1 BYTE smsMsgprotocolResp::msgProtocol

8.1013 SMSMTMessage Struct Reference

Data Fields

- ULONG storageType
- ULONG messageIndex

8.1013.1 Detailed Description

This structure holds information related to MT SMS

Parameters

storageType	• SMS message storage type for the new message 0 - UIM 1 - NV
messageIndex	• Index of the new message

8.1013.2 Field Documentation

8.1013.2.1 ULONG SMSMTMessage::messageIndex

8.1013.2.2 ULONG SMSMTMessage::storageType

8.1014 sMSMTMessageInfo Struct Reference

Data Fields

- uint32_t storageType
- uint32_t messageIndex

8.1014.1 Detailed Description

This structure contains MT message information.

Parameters

storageType	memory storage 0x00-UIM 0x01-NV
messageIndex	MT Message index

8.1014.2 Field Documentation

8.1014.2.1 uint32_t sMSMTMessageInfo::messageIndex

8.1014.2.2 uint32_t sMSMTMessageInfo::storageType

8.1015 SMSOnIMS Struct Reference

Data Fields

- BYTE smsOnIMS

8.1015.1 Detailed Description

This structure holds information related to message mode

Parameters

smsOnIMS	• Indicates whether the message is received from IMS 0x00 - Message is not received from IMS 0x01 - Message is received from IMS 0x02-0xFF - Reserved Note: In multiple modem solutions, this TLV may be used to help the client determine with which modem to communicate. This TLV may not be supported on all implementations.

8.1015.2 Field Documentation

8.1015.2.1 BYTE SMSOnIMS::smsOnIMS

8.1016 sMSOnIMSInfo Struct Reference

Data Fields

- uint8_t smsOnIMS

8.1016.1 Detailed Description

This structure contains SMS on IMS information

Parameters

smsOnIMS	SMS on IMS

8.1016.2 Field Documentation

8.1016.2.1 uint8_t sMSOnIMSInfo::smsOnIMS

8.1017 sMSOnIMSTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- sMSOnIMSInfo IMSInfo

8.1017.1 Detailed Description

This structure contains SMS on IMS TLV information.

Parameters

TlvPresent	• Boolean indicating the presence of the TLV in the QMI response
IMSInfo	• SMS on IMS • See sMSOnIMSInfo for more information

8.1017.2 Field Documentation

8.1017.2.1 sMSOnIMSInfo sMSOnIMSTlv::IMSInfo

8.1017.2.2 uint8_t sMSOnIMSTlv::TlvPresent

8.1018 smsRouteEntry Struct Reference

Data Fields

- BYTE messageType
- BYTE messageClass
- BYTE routeStorage
- BYTE receiptAction

8.1018.1 Detailed Description

This structure contains SMS route entry details

Parameters

messageType	- • Message type matching this route • Values: – 0x00 - MESSAGE_TYPE_POINT_TO_POINT

messageClass	- • Message Class • Values: – 0x00 - MESSAGE_CLASS_0 – 0x01 - MESSAGE_CLASS_1 – 0x02 - MESSAGE_CLASS_2 – 0x03 - MESSAGE_CLASS_3 – 0x04 - MESSAGE_CLASS_NONE – 0x05 - MESSAGE_CLASS_CDMA
routeStorage	- • If the receiptAction is store where to store the message • Values: – 0x00 - STORAGE_TYPE_UIM – 0x01 - STORAGE_TYPE_NV – 0xFF - STORAGE_TYPE_NONE
receiptAction	- • Action to be taken on receipt of a message matching the specified type and class for this route • Values: – 0x00 - DISCARD (discarded without notification) – 0x01 - STORE AND NOTIFY (stored and notified to the registered clients) – 0x02 - TRANSFER ONLY (transferred to the client, client expected to send the ACK) – 0x03 - TRANSFER AND ACK (transferred to the client, device expected to send the ACK)

8.1018.2 Field Documentation

8.1018.2.1 BYTE smsRouteEntry::messageClass

8.1018.2.2 BYTE smsRouteEntry::messageType

8.1018.2.3 BYTE smsRouteEntry::receiptAction

8.1018.2.4 BYTE smsRouteEntry::routeStorage

8.1019 smsSetRoutesReq Struct Reference

Data Fields

- WORD numOfRoutes
- smsRouteEntry routeList [0x0A]
- BYTE * pTransferStatusReport

8.1019.1 Detailed Description

This structure contains SMS route request parameters

Parameters

numOfRoutes	- • Number of sets of the following element
routeList	- • Array containing the set of smsRouteEntry
pTransferStatus-Report	- • 0x01 - Status reoprt are transferred to the client (optional)

8.1019.2 Field Documentation

8.1019.2.1 WORD smsSetRoutesReq::numOfRoutes

8.1019.2.2 BYTE* smsSetRoutesReq::pTransferStatusReport

8.1019.2.3 smsRouteEntry smsSetRoutesReq::routeList[0x0A]

8.1020 SMSTransferRouteMTMessage Struct Reference

Data Fields

- BYTE ackIndicator
- ULONG transactionID
- BYTE format
- WORD length
- BYTE data [256]

8.1020.1 Detailed Description

This structure holds information related to transfer route MT SMS

Parameters

ackIndicator	• Parameter to indicate if ACK must be sent by the control point 0x00 - Send ACK 0x01 - Do not send ACK
transactionID	• Transaction ID of the message
format	• Message format 0x00 - CDMA 0x02 - 0x05 - Reserved 0x06 - GW_PP 0x07 - GW_BC
length	• Length of the raw message. This length should not exceed the maximum WMS payload length of 256 bytes
data	• Raw message data

8.1020.2 Field Documentation

8.1020.2.1 BYTE SMSTransferRouteMTMessage::ackIndicator

8.1020.2.2 BYTE SMSTransferRouteMTMessage::data[256]

8.1020.2.3 BYTE SMSTransferRouteMTMessage::format

8.1020.2.4 WORD SMSTransferRouteMTMessage::length

8.1020.2.5 ULONG SMSTransferRouteMTMessage::transactionID

8.1021 sMSTransferRouteMTMessageInfo Struct Reference

Data Fields

- uint8_t ackIndicator
- uint32_t transactionID
- uint8_t format
- uint16_t length
- uint8_t data [256]

8.1021.1 Detailed Description

This structure contains Transfer route MT message information.

Parameters

ackIndicator	• Parameter to indicate if ACK must be sent by the control point 0x00 - Send ACK 0x01 - Do not send ACK
transactionID	• Transaction ID of the message
format	• Message format 0x00 - CDMA 0x02 - 0x05 - Reserved 0x06 - GW_PP 0x07 - GW_BC
length	• Length of the raw message. This length should not exceed the maximum WMS payload length of 256 bytes
data	• Raw message data

8.1021.2 Field Documentation

8.1021.2.1 uint8_t sMSTransferRouteMTMessageInfo::ackIndicator

8.1021.2.2 uint8_t sMSTransferRouteMTMessageInfo::data[256]

8.1021.2.3 uint8_t sMSTransferRouteMTMessageInfo::format

8.1021.2.4 uint16_t sMSTransferRouteMTMessageInfo::length

8.1021.2.5 uint32_t sMSTransferRouteMTMessageInfo::transactionID

8.1022 sQosFlowStat Struct Reference

Data Fields

- ULONG bearerId
- ULONG tx_pkt
- ULONG tx_pkt_drp
- ULONGLONG tx_bytes
- ULONGLONG tx_bytes_drp

8.1022.1 Detailed Description

This structure contains the Data statistic per QoS flow

Parameters

bearerId	• Bearer ID
tx_pkt	• number of sent packets for the QoS flow ID
tx_pkt_drp	• number of dropped(TX) packets for the QoS flow ID
tx_bytes	• number of sent bytes for the QoS flow ID
tx_bytes_drp	• number of dropped(TX) bytes for the QoS flow ID

8.1022.2 Field Documentation

8.1022.2.1 ULONG sQosFlowStat::bearerId

8.1022.2.2 ULONGLONG sQosFlowStat::tx_bytes

8.1022.2.3 ULONGLONG sQosFlowStat::tx_bytes_drp

8.1022.2.4 ULONG sQosFlowStat::tx_pkt

8.1022.2.5 ULONG sQosFlowStat::tx_pkt_drp

8.1023 sQosStat Struct Reference

Data Fields

- ULONG apnId

- ULONG total_tx_pkt
- ULONG total_tx_pkt_drp
- ULONG total_rx_pkt
- ULONGLONG total_tx_bytes
- ULONGLONG total_tx_bytes_drp
- ULONGLONG total_rx_bytes
- ULONG numQosFlow
- sQosFlowStat qosFlow [(10)]

8.1023.1 Detailed Description

This structure contains the Data statistic per QoS flow

Parameters

apnId	• APN id • ID identifing the connected APN that the client would like to query the data statistic for
total_tx_pkt	• sum of all packets sent
total_tx_pkt_drp	• sum of all(TX) packets dropped
total_rx_pkt	• sum of all packets received
total_tx_bytes	• sum of all bytes sent
toal_tx_bytes_drp	• sum of all(TX) bytes dropped
total_rx_bytes	• number of received bytes for the QoS flow ID
numQosFlow	• pointer to number of QoS flow Stat
qosFlow[MAX_QOS_SPEC_PER_APN]	• Data statistic per QoS flow • See sQosFlowStat for more information • See MAX_QOS_SPEC_PER_APN for more information

8.1023.2 Field Documentation

8.1023.2.1 ULONG sQosStat::apnId

8.1023.2.2 ULONG sQosStat::numQosFlow

8.1023.2.3 sQosFlowStat sQosStat::qosFlow[(10)]

8.1023.2.4 ULONGLONG sQosStat::total_rx_bytes

8.1023.2.5 ULONG sQosStat::total_rx_pkt

8.1023.2.6 ULONGLONG sQosStat::total_tx_bytes

8.1023.2.7 ULONGLONG sQosStat::total_tx_bytes_drp

8.1023.2.8 ULONG sQosStat::total_tx_pkt

8.1023.2.9 ULONG sQosStat::total_tx_pkt_drp

8.1024 SrvStatusInfo Struct Reference

Data Fields

- BYTE srvStatus
- BYTE isPrefDataPath

8.1024.1 Detailed Description

Structure for storing the service status information for CDMA and HDR networks.

Parameters

srvStatus	• Service status of the system. – 0x00 - No service – 0x01 - Limited service – 0x02 - Service – 0x03 - Limited regional service – 0x04 - Power save – 0xFF - Not Available
isPrefDataPath	• Whether the RAT is the preferred data path. – 0x00 - Not preferred – 0x01 - Preferred – 0xFF - Not Available

8.1024.2 Field Documentation

8.1024.2.1 BYTE SrvStatusInfo::isPrefDataPath

8.1024.2.2 BYTE SrvStatusInfo::srvStatus

8.1025 ssdatasession_params Struct Reference

Data Fields

- BOOL action

- BYTE instanceId
- ULONG * pTechnology
- ULONG * pProfileId3GPP
- ULONG * pProfileId3GPP2
- ULONG sessionId
- ULONG failureReason
- ULONG failureReasonv4
- ULONG failureReasonv6
- ULONG rcv4
- ULONG rcv6
- ULONG v4sessionId
- ULONG v6sessionId
- BYTE ipfamily
- ULONG * pAuthentication
- CHAR * pUsername
- CHAR * pPassword
- ULONG verbFailReasonType
- ULONG verbFailReason

8.1025.1 Detailed Description

This structure contains the start/stop data session params Information

Parameters

action	• 1 - Start Session • 0 - Stop Session
instanceId	• PDP Instance. • Instance ID corresponding to the session ID
pTechnology	• Indicates the technology preference (optional) – 1 - UMTS – 2 - CDMA – 3 - eMBMS – 4 - Modem Link Label. Modem Link is an interface for transferring data between entities on AP and modem.
pProfileId3GPP	• configured 3GPP profile identifier
pProfileId3GPP2	• configured 3GPP2 profile identifier
sessionId[IN\OUT]	• [IN] - Passed session ID when stopping the data session • [OUT] - Assigned session ID when starting a data session
failureReason	• Reason data session failed to be established • See qaGobiApiTableCallEndReasons.h for Call End Reason

failureReasonv4	• Reason v4 data session failed to be established • See qaGobiApiTableCallEndReasons.h for Call End Reason
failureReasonv6	• Reason v6 data session failed to be established • See qaGobiApiTableCallEndReasons.h for Call End Reason
rc4	• v4 result code • See qmerrno.h
rc6	• v6 result code • See qmerrno.h
v4sessionId	• Do not modify - used for internal management of data sessions • Non zero value indicates that a session is active
v6sessionId	• Do not modify - used for internal management of data sessions • Non zero value indicates that a session is active
ipfamily	• 4 for an IPv4 data session • 6 for an IPv6 data session • 7 for an IPv4v6 data session
pAuthentication	• Authentication type, it can be PAP or CHAP
pUsername	• username for authentication process
pPassword	• password for authentication process
verbFailReason-Type	• Parameter describing type of verbose failure reason • See qaGobiApiTableCallEndReasons.h for Call End Reason Type
verbFailReason	• Verbose reason explaining why call failed. Depends on verbFailReasonType parameter • See qaGobiApiTableCallEndReasons.h for Call End Reason

8.1025.2 Field Documentation

8.1025.2.1 BOOL ssdatasession_params::action

8.1025.2.2 ULONG ssdatasession_params::failureReason

8.1025.2.3 ULONG ssdatasession_params::failureReasonv4

8.1025.2.4 ULONG ssdatasession_params::failureReasonv6

8.1025.2.5 BYTE ssdatasession_params::instanceId

8.1025.2.6 BYTE ssdatasession_params::ipfamily

8.1025.2.7 ULONG* ssdatasession_params::pAuthentication

8.1025.2.8 CHAR* ssdatasession_params::pPassword

8.1025.2.9 ULONG* ssdatasession_params::pProfileId3GPP

8.1025.2.10 ULONG* ssdatasession_params::pProfileId3GPP2

8.1025.2.11 ULONG* ssdatasession_params::pTechnology

8.1025.2.12 CHAR* ssdatasession_params::pUsername

8.1025.2.13 ULONG ssdatasession_params::rcv4

8.1025.2.14 ULONG ssdatasession_params::rcv6

8.1025.2.15 ULONG ssdatasession_params::sessionId

8.1025.2.16 ULONG ssdatasession_params::v4sessionId

8.1025.2.17 ULONG ssdatasession_params::v6sessionId

8.1025.2.18 ULONG ssdatasession_params::verbFailReason

8.1025.2.19 ULONG ssdatasession_params::verbFailReasonType

8.1026 SupportedMsgList Struct Reference

Data Fields

- WORD supportedMsgLen
- BYTE supportedMsgs [256]

8.1026.1 Detailed Description

This structure contains the Supported Messages List Information

Parameters

supportedMsgLen	• Number of sets of the supported messages
supportedMsgs	• Array of uint8 is a bitmask where each bit represents a message ID. • Starting with the LSB, bit 0 represents message ID 0, bit 1 represents message ID 1.

8.1026.2 Field Documentation

8.1026.2.1 WORD SupportedMsgList::supportedMsgLen

8.1026.2.2 BYTE SupportedMsgList::supportedMsgs[256]

8.1027 SUPSInfo Struct Reference

Data Fields

- BYTE svcType
- BYTE isModByCC

8.1027.1 Detailed Description

This structure contains information about the Supplementary Services.

Parameters

svcType	• Service type. – 0x01 - SERVICE_TYPE_ACTIVATE - Activate – 0x02 - SERVICE_TYPE_DEACTIVATE - Deactivate – 0x03 - SERVICE_TYPE_REGISTER - Register – 0x04 - SERVICE_TYPE_ERASE - Erase – 0x05 - SERVICE_TYPE_INTERROGATE - Interrogate – 0x06 - SERVICE_TYPE_REGISTER_PASSWORD - Register password – 0x07 - SERVICE_TYPE_USSD - USSD
isModByCC	• Indicates whether the supplementary service data is modified by the card (SIM/USIM) as part of the call control: – 0 - False – 1 - True

8.1027.2 Field Documentation

8.1027.2.1 BYTE SUPSInfo::isModByCC

8.1027.2.2 BYTE SUPSInfo::svcType

8.1028 SV Struct Reference

Data Fields

- WORD id
- ULONG system
- BYTE mask

8.1028.1 Detailed Description

This structure contains the Delete SV Info

Parameters

id	• SV ID of the satellite whose data is to be deleted • Range: – For GPS: 1 to 32 – For SBAS: 33 to 64 – For GLONASS: 65 to 96
system	• Indicates to which constellation this SV belongs • Valid values: – eQMI_LOC_SV_SYSTEM_GPS (1) - GPS satellite – eQMI_LOC_SV_SYSTEM_GALILEO (2) - GALILEO satellite – eQMI_LOC_SV_SYSTEM_SBAS (3) - SBAS satellite – eQMI_LOC_SV_SYSTEM_COMPASS (4) - COMPASS satellite – eQMI_LOC_SV_SYSTEM_GLONASS (5) - GLONASS satellite – eQMI_LOC_SV_SYSTEM_BDS (6) - BDS satellite
mask	• Indicates if the ephemeris or almanac for a satellite is to be deleted • Valid values: – 0x01 - DELETE_EPHEMERIS – 0x02 - DELETE_ALMANAC

8.1028.2 Field Documentation

8.1028.2.1 WORD SV::id

8.1028.2.2 BYTE SV::mask

8.1028.2.3 ULONG SV::system

8.1029 SVInfo Struct Reference

Data Fields

- BYTE len
- SV * pSV

8.1029.1 Detailed Description

This structure contains the elements of Delete SV Info

Parameters

len	• Number of sets of the following elements in struct SV: – gnssSvId – system – deleteSvInfoMask
pSV	• Pointer to struct SV. See SV for more information

8.1029.2 Field Documentation

8.1029.2.1 BYTE SVInfo::len

8.1029.2.2 SV* SVInfo::pSV

8.1030 svUsedforFix_s Struct Reference

Data Fields

- BYTE gnssSvUsedList_len
- WORD gnssSvUsedList [255]

8.1030.1 Detailed Description

This structure contains SVs Used to Calculate the Fix.

Parameters

gnssSvUsedList-_len	• Number of sets of gnssSvUsedList
pGnssSvUsed-List	• Entry in the list contains the SV ID of a satellite used for calculating this position report. • Following information is associated with each SV ID: – GPS - 1 to 32 – SBAS - 33 to 64 – GLONASS - 65 to 96 – QZSS - 193 to 197 – BDS - 201 to 237

8.1030.2 Field Documentation

8.1030.2.1 WORD svUsedforFix_s::gnssSvUsedList[255]

8.1030.2.2 BYTE svUsedforFix_s::gnssSvUsedList_len

8.1031 SWI_STRUCT_CarrierImage Struct Reference

Data Fields

- ULONG m_nCarrierId
- ULONG m_nFolderId
- ULONG m_nStorage
- BYTE m_FwImageId [16]
- BYTE m_FwBuildId [100]
- BYTE m_PriImageId [16]
- BYTE m_PriBuildId [100]

8.1031.1 Detailed Description

This structure contains the Carrier Image parameters.

Parameters

m_nCarrierId	• Unique numeric carrier ID indicating the carrier that the following images belong to
m_nFolderId	• Unique numeric folder ID indicating the folder where the images should reside on the host storage.
m_nStorage	• Information of storage type • Values – 0 - Device – 1 - Host
m_FwImageId	• Firmware image ID
m_FwBuildId	• Firmware build ID
m_PriImageId	• PRI image ID
m_PriBuildId	• PRI build ID

8.1031.2 Field Documentation

8.1031.2.1 BYTE SWI_STRUCT_CarrierImage::m_FwBuildId[100]

8.1031.2.2 BYTE SWI_STRUCT_CarrierImage::m_FwImageId[16]

8.1031.2.3 ULONG SWI_STRUCT_CarrierImage::m_nCarrierId

8.1031.2.4 ULONG SWI_STRUCT_CarrierImage::m_nFolderId

8.1031.2.5 ULONG SWI_STRUCT_CarrierImage::m_nStorage

8.1031.2.6 BYTE SWI_STRUCT_CarrierImage::m_PriBuildId[100]

8.1031.2.7 BYTE SWI_STRUCT_CarrierImage::m_PriImageId[16]

8.1032 swidms_ehrpdMTUSizeTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint16_t ehrpdMTUSize

8.1032.1 Detailed Description

This structure contains the parameters for EHRPD MTU Size.

Parameters

TlvPresent	• Tlv Present.
ehrpdMTUSize	EHRPD size • Size of EHRPD MTU

8.1032.2 Field Documentation

8.1032.2.1 uint16_t swidms_ehrpdMTUSizeTlv::ehrpdMTUSize

8.1032.2.2 uint8_t swidms_ehrpdMTUSizeTlv::TlvPresent

8.1033 swidms_hrpdMTUSizeTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint16_t hrpdMTUSize

8.1033.1 Detailed Description

This structure contains the parameters for HRPD MTU Size.

Parameters

TlvPresent	• Tlv Present.
hrpdMTUSize	HRPD size • Size of HRPD MTU

8.1033.2 Field Documentation

8.1033.2.1 uint16_t swidms_hrpdMTUSizeTlv::hrpdMTUSize

8.1033.2.2 uint8_t swidms_hrpdMTUSizeTlv::TlvPresent

8.1034 swidms_mtuSize3gppTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint16_t MTUSize3gpp

8.1034.1 Detailed Description

This structure contains the parameters for 3GPP MTU Size.

Parameters

TlvPresent	• Tlv Present.
MTUSize3gpp	3GPP MTU size • Size of 3GPP MTU

8.1034.2 Field Documentation

8.1034.2.1 uint16_t swidms_mtuSize3gppTlv::MTUSize3gpp

8.1034.2.2 uint8_t swidms_mtuSize3gppTlv::TlvPresent

8.1035 swidms_usbMTUSizeTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint16_t UsbMTUSize

8.1035.1 Detailed Description

This structure contains the parameters for USB MTU Size

Parameters

TlvPresent	• Tlv Present.
UsbMTUSize	USB MTU size • Size of USB MTU

8.1035.2 Field Documentation

8.1035.2.1 uint8_t swidms_usbMTUSizeTlv::TlvPresent

8.1035.2.2 uint16_t swidms_usbMTUSizeTlv::UsbMTUSize

8.1036 SwiDmsGetMTUResp Struct Reference

Data Fields

- mtuSize3gppTlv * pMTUSize3gpp
- hrpdMTUSizeTlv * pHrpdMTUSize
- ehrpdMTUSizeTlv * pEhrpdMTUSize
- usbMTUSizeTlv * pUsbMTUSize

8.1036.1 Detailed Description

This structure contains the Get MTU Response parameter.

Parameters

pMTUSize3gpp	[Optional] • See mtuSize3gppTlv for more information
pHrpdMTUSize	[Optional] • See hrpdMTUSizeTlv for more information
pEhrpdMTUSize	[Optional] • See ehrpdMTUSizeTlv for more information
pUsbMTUSize	[Optional] • See usbMTUSizeTlv for more information

8.1036.2 Field Documentation

8.1036.2.1 ehrpdMTUSizeTlv* SwiDmsGetMTUResp::pEhrpdMTUSize

8.1036.2.2 hrpdMTUSizeTlv* SwiDmsGetMTUResp::pHrpdMTUSize

8.1036.2.3 mtuSize3gppTlv* SwiDmsGetMTUResp::pMTUSize3gpp

8.1036.2.4 usbMTUSizeTlv* SwiDmsGetMTUResp::pUsbMTUSize

8.1037 SwiDmsSLQSGetUsbNetNum Struct Reference

Data Fields

- BYTE usbNetNum

8.1037.1 Detailed Description

This structure contains QMAP configuration

Parameters

usbNetNum	• Number of usb net • Range is 0-8

8.1037.2 Field Documentation

8.1037.2.1 BYTE SwiDmsSLQSGetUsbNetNum::usbNetNum

8.1038 SwiLocGetAutoStartResp Struct Reference

Data Fields

- BYTE function
- BOOL function_reported
- BYTE fix_type
- BOOL fix_type_reported
- BYTE max_time
- BOOL max_time_reported
- ULONG max_dist
- BOOL max_dist_reported
- ULONG fix_rate
- BOOL fix_rate_reported

8.1038.1 Detailed Description

This structure contains SWI LOC Get Auto Start setting

Parameters

function	• Setting to indicate when modem should start an automatic GNSS fix – 0 - disabled – 1 - At bootup – 2 - When NMEA port is opened
function_reported	• 0 - not reported by modem • 1 - reported by modem
fix_type	• Type of GNSS fix: – 1 - Default Engine mode – 2 - MS-Based – 3 - MS-Assisted – 4 - Standalone
fix_type_reported	• 0 - not reported by modem • 1 - reported by modem

max_time	• Maximum time allowed for the receiver to get a fix in seconds • Valid range: 1-255
max_time_-reported	• 0 - not reported by modem • 1 - reported by modem
max_dist	• Maximum uncertainty of a fix measured by distance in meters • Valid range: 1 - 4294967280
max_dist_-reported	• 0 - not reported by modem • 1 - reported by modem
fix_rate	• Time between fixes in seconds • Valid range: 1–65535
fix_rate_-reported	• 0 - not reported by modem • 1 - reported by modem

8.1038.2 Field Documentation

8.1038.2.1 ULONG SwiLocGetAutoStartResp::fix_rate

8.1038.2.2 BOOL SwiLocGetAutoStartResp::fix_rate_reported

8.1038.2.3 BYTE SwiLocGetAutoStartResp::fix_type

8.1038.2.4 BOOL SwiLocGetAutoStartResp::fix_type_reported

8.1038.2.5 BYTE SwiLocGetAutoStartResp::function

8.1038.2.6 BOOL SwiLocGetAutoStartResp::function_reported

8.1038.2.7 ULONG SwiLocGetAutoStartResp::max_dist

8.1038.2.8 BOOL SwiLocGetAutoStartResp::max_dist_reported

8.1038.2.9 BYTE SwiLocGetAutoStartResp::max_time

8.1038.2.10 BOOL SwiLocGetAutoStartResp::max_time_reported

8.1039 SwiLocSetAutoStartReq Struct Reference

Data Fields

- BYTE function
- BOOL set_function

- BYTE fix_type
- BOOL set_fix_type
- BYTE max_time
- BOOL set_max_time
- ULONG max_dist
- BOOL set_max_dist
- ULONG fix_rate
- BOOL set_fix_rate

8.1039.1 Detailed Description

This structure contains SWI LOC Get Auto Start setting

Parameters

function	• Setting to indicate when modem should start an automatic GNSS fix – 0 - disabled – 1 - At bootup – 2 - When NMEA port is opened
set_function	• 0 - do not set to modem • 1 - set to modem
fix_type	• Type of GNSS fix: – 1 - Default Engine mode – 2 - MS-Based – 3 - MS-Assisted – 4 - Standalone
set_fix_type	• 0 - do not set to modem • 1 - set to modem
max_time	• Maximum time allowed for the receiver to get a fix in seconds • Valid range: 1-255
set_max_time	• 0 - do not set to modem • 1 - set to modem
max_dist	• Maximum uncertainty of a fix measured by distance in meters • Valid range: 1 - 4294967280
set_max_dist	• 0 - do not set to modem • 1 - set to modem

fix_rate	• Time between fixes in seconds • Valid range: 1–65535
set_fix_rate	• 0 - do not set to modem • 1 - set to modem

8.1039.2 Field Documentation

8.1039.2.1 ULONG SwiLocSetAutoStartReq::fix_rate

8.1039.2.2 BYTE SwiLocSetAutoStartReq::fix_type

8.1039.2.3 BYTE SwiLocSetAutoStartReq::function

8.1039.2.4 ULONG SwiLocSetAutoStartReq::max_dist

8.1039.2.5 BYTE SwiLocSetAutoStartReq::max_time

8.1039.2.6 BOOL SwiLocSetAutoStartReq::set_fix_rate

8.1039.2.7 BOOL SwiLocSetAutoStartReq::set_fix_type

8.1039.2.8 BOOL SwiLocSetAutoStartReq::set_function

8.1039.2.9 BOOL SwiLocSetAutoStartReq::set_max_dist

8.1039.2.10 BOOL SwiLocSetAutoStartReq::set_max_time

8.1040 swiModemStatusResp Struct Reference

Data Fields

- CommInfo commonInfo
- LTEInfo * pLTEInfo

8.1040.1 Detailed Description

Structure for storing the SLQS Nas Swi Modem Status response parameters.

Parameters

commonInfo	(mandatory) • See CommInfo for more information
pLTEInfo	(optional) • See LTEInfo for more information

8.1040.2 Field Documentation

8.1040.2.1 CommInfo swiModemStatusResp::commonInfo

8.1040.2.2 LTEInfo* swiModemStatusResp::pLTEInfo

8.1041 SwiOTAMsg_s Struct Reference

Data Fields

- ULONG type
- WORD data_len
- BYTE data [2048]
- LteNasReleaseInfo * pLteNasRelInfo
- ULONGLONG * pTime

8.1041.1 Detailed Description

This structure contains OTA message

Parameters

type	• message type – 0 - LTE ESM uplink – 1 - LTE ESM downlink – 2 - LTE EMM uplink – 3 - LTE EMM downlink – 4 - GSM/UMTS uplink – 5 - GSM/UMTS downlink
data_len	• OTA Message Content Length
data	• OTA Message Content
pLteNasRelInfo	• LTE NAS Release Info • see LteNasReleaseInfo for details
pTime	• Seconds in local time since Jan. 6th 1980 00:00:00 UTC

8.1041.2 Field Documentation

8.1041.2.1 BYTE SwiOTAMsg_s::data[2048]

8.1041.2.2 WORD SwiOTAMsg_s::data_len

8.1041.2.3 LteNasReleaseInfo* SwiOTAMsg_s::pLteNasRelInfo

8.1041.2.4 ULONGLONG* SwiOTAMsg_s::pTime

8.1041.2.5 ULONG SwiOTAMsg_s::type

8.1042 swiPDPRuntimeSettingsReq Struct Reference

Data Fields

- BYTE contextId
- BYTE contextType

8.1042.1 Detailed Description

This structure contains the PDP Runtime Settings Request parameters.

Parameters

contextId	• Context Identifier
contextType	• Identifies technology type – 0 - 3GPP – 1 - 3GPP2

8.1042.2 Field Documentation

8.1042.2.1 BYTE swiPDPRuntimeSettingsReq::contextId

8.1042.2.2 BYTE swiPDPRuntimeSettingsReq::contextType

8.1043 swiPDPRuntimeSettingsResp Struct Reference

Data Fields

- BYTE * pContextId
- BYTE * pBearerId
- CHAR * pAPNName
- ULONG * pIPv4Address
- ULONG * pIPv4GWAddress
- ULONG * pPrDNSIPv4Address
- ULONG * pSeDNSIPv4Address
- struct IPV6AddressInfo * pIPv6Address
- struct IPV6AddressInfo * pIPv6GWAddress
- WORD * pPrDNSIPv6Address
- WORD * pSeDNSIPv6Address
- ULONG * pPrPCSCFIPv4Address
- ULONG * pSePCSCFIPv4Address
- WORD * pPrPCSCFIPv6Address
- WORD * pSePCSCFIPv6Address

8.1043.1 Detailed Description

This structure contains the response parameters retrieved by the API SLQSWdsSwiPDPRuntimeSettings

Parameters

pContextId	(optional) • Context Identifier – 0xFF - Not Available
pBearerId	(optional) • Bearer Identity • An EPS bearer identity uniquely identifies an EPS bearer for one UE accessing via E-UTRAN. The EPS Bearer Identity is allocated by the MME. – 0xFF - Not Available
pAPNName	(optional) • APN name associated with the context id – NULL terminated by default.
pIPv4Address	(optional) • IPv4 Address – 0xFFFF - Not Available
pIPv4GW-Address	(optional) • IPv4 Gateway Address – 0xFFFF - Not Available
pPrDNSIPv4-Address	(optional) • Primary DNS IPv4 Address – 0xFFFF - Not Available
pSeDNSIPv4-Address	(optional) • Secondary DNS IPv4 Address – 0xFFFF - Not Available
pIPv6Address	(optional) • IPv6 Address • See IPV6AddressInfo for more information
pIPv6GW-Address	(optional) • IPv6 Gateway Address • See IPV6AddressInfo for more information
pPrDNSIPv6-Address	(optional) • Primary IPv6 DNS Address(in network byte order) • This is an 8-element array of 16-bit numbers, each of which is in big-endian format
pSeDNSIPv6-Address	(optional) • Secondary IPv6 DNS Address(in network byte order) • This is an 8-element array of 16-bit numbers, each of which is in big-endian format
pPrPCSCFIPv4-Address	(optional) • Primary PCSCF IPv4 Address

pSePCSCFIPv4-Address	(optional) • Secondary PCSCF IPv4 Address
pPrPCSCFIPv6-Address	(optional) • Primary PCSCF IPv6 Address • This is an 8-element array of 16-bit numbers, each of which is in big-endian format
pSePCSCFIPv6-Address	(optional) • Secondary PCSCF IPv6 Address • This is an 8-element array of 16-bit numbers, each of which is in big-endian format

Note

Parameters which are mentioned as NULL will be ignored.

8.1043.2 Field Documentation

8.1043.2.1 CHAR* swiPDPRuntimeSettingsResp::pAPNName

8.1043.2.2 BYTE* swiPDPRuntimeSettingsResp::pBearerId

8.1043.2.3 BYTE* swiPDPRuntimeSettingsResp::pContextId

8.1043.2.4 ULONG* swiPDPRuntimeSettingsResp::pIPv4Address

8.1043.2.5 ULONG* swiPDPRuntimeSettingsResp::pIPv4GWAddress

8.1043.2.6 struct IPV6AddressInfo* swiPDPRuntimeSettingsResp::pIPv6Address

8.1043.2.7 struct IPV6AddressInfo* swiPDPRuntimeSettingsResp::pIPv6GWAddress

8.1043.2.8 ULONG* swiPDPRuntimeSettingsResp::pPrDNSIPv4Address

8.1043.2.9 WORD* swiPDPRuntimeSettingsResp::pPrDNSIPv6Address

8.1043.2.10 ULONG* swiPDPRuntimeSettingsResp::pPrPCSCFIPv4Address

8.1043.2.11 WORD* swiPDPRuntimeSettingsResp::pPrPCSCFIPv6Address

8.1043.2.12 ULONG* swiPDPRuntimeSettingsResp::pSeDNSIPv4Address

8.1043.2.13 WORD* swiPDPRuntimeSettingsResp::pSeDNSIPv6Address

8.1043.2.14 ULONG* swiPDPRuntimeSettingsResp::pSePCSCFIPv4Address

8.1043.2.15 WORD* swiPDPRuntimeSettingsResp::pSePCSCFIPv6Address

8.1044 swiQosFilter Struct Reference

Data Fields

- BYTE index

- BYTE version
- IPv4Addr * pIPv4SrcAddr
- IPv4Addr * pIPv4DstAddr
- BYTE * pNxtHdrProto
- Tos * pTos
- IPv6Addr * pIPv6SrcAddr
- IPv6Addr * pIPv6DstAddr
- IPv6TrafCls * pIPv6TrafCls
- ULONG * pIPv6Label
- Port * pTCPSrcPort
- Port * pTCPDstPort
- Port * pUDPSrcPort
- Port * pUDPDstPort
- ULONG * pEspSpi
- WORD * pPrecedence
- WORD * pId
- Port * pTranSrcPort
- Port * pTranDstPort

8.1044.1 Detailed Description

This structure contains the QoS Filter Request

Parameters

index	IP filter index Integer that uniquely identifies each filter instance This TLV must be present in the request
version	IP filter version Identifies whether the filter is associated with IPv4 or IPv6; value specified also implies that only TLVs defined for that IP version, i.e., TLVs with IPv4 or IPv6 in the name, can be specified • 0x04 – IPv4 • 0x06 – Ipv6
pIPv4SrcAddr	IPv4 filter soruce address See IPv4Addr for more information • Implemented only for unsolicited indication
pIPv4DstAddr	IPv4 filter destination address See IPv4Addr for more information • Implemented only for unsolicited indication
pNxtHdrProto	IP filter next header protocol This TLV must be present if any non-IP filter TLV(s) are provided If this field is specified, only IP packets belonging to specified higher layer protocol are considered when filtering The following protocols may be specified: • 0x01 = ICMP • 0x06 = TCP • 0x11 = UDP • 0x32 = ESP Note: The next header protocol field will be set to 0xFD (TCP & UDP) if a TFT is received specifying a source or destination port number, but IP next header type is not specified.
pTos	IPv4 filter type of service See Tos for more information
pIPv6SrcAddr	IPv6 filter soruce address See IPv6Addr for more information • Implemented only for unsolicited indication
pIPv6DstAddr	IPv6 filter destination address See IPv6Addr for more information • Implemented only for unsolicited indication

pIPv6TrafCls	IPv6 filter traffic class See IPv6TrafCls for more information
pIPv6Label	IPv6 flow label Packet matches the IPv6 flow label filter if: (∗pIPv6Label == flow label in the IPv6 header) • Implemented only for unsolicited indication
pTCPSrcPort	TCP filter source port filter See Port for more information • Implemented only for unsolicited indication
pTCPDstPort	TCP filter destination port filter See Port for more information • Implemented only for unsolicited indication
pUDPSrcPort	UDP filter source port filter See Port for more information • Implemented only for unsolicited indication
pUDPDstPort	UDP filter destination port filter See Port for more information • Implemented only for unsolicited indication
pEspSpi	ESP filter security policy index Security policy index to uniquely identify each IP flow for filtering encrypted packets for encapsulating security payload • Implemented only for unsolicited indication
pPrecedence	Filter Precedence Specifies the order in which filters are applied; lower numerical value has higher precedence Note: This TLV only applies to network-initiated QoS; QoS requests containing this TLV from control points will be ignored
pId	Filter ID Unique identifier for each filter;filter ID is assigned by the modem Note: This TLV only applies to network-initiated QoS; QoS requests containing this TLV from control points will be ignored
pTranSrcPort	Transport protocolfilter source port See Port for more information • Implemented only for unsolicited indication
pUDPDstPort	Transport protocol filter destination port See Port for more information • Implemented only for unsolicited indication

8.1044.2 Field Documentation

8.1044.2.1 BYTE swiQosFilter::index

8.1044.2.2 ULONG∗ swiQosFilter::pEspSpi

8.1044.2.3 WORD∗ swiQosFilter::pId

8.1044.2.4 IPv4Addr∗ swiQosFilter::pIPv4DstAddr

8.1044.2.5 IPv4Addr∗ swiQosFilter::pIPv4SrcAddr

8.1044.2.6 IPv6Addr∗ swiQosFilter::pIPv6DstAddr

8.1044.2.7 ULONG∗ swiQosFilter::pIPv6Label

8.1044.2.8 IPv6Addr∗ swiQosFilter::pIPv6SrcAddr

8.1044.2.9 IPv6TrafCls∗ swiQosFilter::pIPv6TrafCls

8.1044.2.10 BYTE* swiQosFilter::pNxtHdrProto

8.1044.2.11 WORD* swiQosFilter::pPrecedence

8.1044.2.12 Port* swiQosFilter::pTCPDstPort

8.1044.2.13 Port* swiQosFilter::pTCPSrcPort

8.1044.2.14 Tos* swiQosFilter::pTos

8.1044.2.15 Port* swiQosFilter::pTranDstPort

8.1044.2.16 Port* swiQosFilter::pTranSrcPort

8.1044.2.17 Port* swiQosFilter::pUDPDstPort

8.1044.2.18 Port* swiQosFilter::pUDPSrcPort

8.1044.2.19 BYTE swiQosFilter::version

8.1045 swiQosFlow Struct Reference

Data Fields

- BYTE index
- WORD * pProfileId3GPP2
- BYTE * p3GPP2Pri
- BYTE * pTrafficClass
- dataRate * pDataRate
- tokenBucket * pTokenBucket
- ULONG * pLatency
- ULONG * pJitter
- pktErrRate * pPktErrRate
- ULONG * pMinPolicedPktSz
- ULONG * pMaxAllowedPktSz
- WORD * p3GPPResResidualBER
- BYTE * p3GPPTraHdlPri
- BYTE * p3GPPImCn
- BYTE * p3GPPSigInd
- BYTE * pLteQci

8.1045.1 Detailed Description

This structure contains the QoS Flow Request

Parameters

index	• IP flow index • Integer that uniquely identifies each flow instance • Unique index must be assigned by the control point to every flow_spec instance

pProfileId3GPP2	• IP flow 3GPP2 profile ID • A profile ID is shorthand for a defined set of QoS flow parameters specified by the network; to be present while requesting QoS for a CDMA device
p3GPP2Pri	• IP flow 3GPP2 flow priority • Flow priority used by the network in case of contention between flows with same QoS; this parameter applies for CDMA devices
pTrafficClass	• IP flow traffic class • Integer that designates the requested traffic class: • 0 – Conversational • 1 – Streaming • 2 – Interactive • 3 – Background
pDataRate	• IP flow data rate min max • See dataRate for more information
pTokenBucket	• IP flow data rate token bucket • See tokenBucket for more information
pLatency	• IP flow latency • Maximum delay (in milliseconds) that can be tolerated by an IP packet during transfer through the wireless link
pJitter	• IP flow jitter • Difference between the maximum and minimum latency (in milliseconds) that can be tolerated by an IP packet during the transfer through the wireless link
pPktErrRate	• IP flow packet error rate • See pktErrRate for more information
pMinPolicedPkt-Sz	• IP flow minimum policed packet size • Integer that defines the minimum packet size (in bytes) that will be policed for QoS guarantees; any IP packets that are smaller than the minimum specified policed size may not receive requested QoS
pMaxAllowed-PktSz	• IP flow maximum allowed packet size • Integer that defines the maximum packet size (in bytes) allowed in the IP flow; any IP packets greater in size than the maximum allowed packet size are not queued for transmission

p3GPPRes-ResidualBER	• IP flow 3GPP residual bit error rate • residual_bit_error_rate • 0 = 5∗10-2 residual BER • 1 = 1∗10-2 residual BER • 2 = 5∗10-3 residual BER • 3 = 4∗10-3 residual BER • 4 = 1∗10-3 residual BER • 5 = 1∗10-4 residual BER • 6 = 1∗10-5 residual BER • 7 = 1∗10-6 residual BER • 8 = 6∗10-8 residual BER • Integer that indicates the undetected BER for each IP flow in the delivered packets; Tapplies only to 3GPP networks
p3GPPTraHdlPri	• 3GPP traffic handling priority • 0 – Relative traffic handling priority 1 • 1 – Relative traffic handling priority 2 • 2 – Relative traffic handling priority 3 • Defines the relative priority of the flow; applies only to 3GPP networks
p3GPPImCn	• IP flow 3GPP IM CN flag • IM CN subsystem signaling flag: • 0x00 – FALSE • 0x01 – TRUE • This parameter applies only to 3GPP networks
p3GPPSigInd	• IP flow 3GPP signaling indication • 0x00 – FALSE • 0x01 – TRUE • This parameter applies only to 3GPP networks

pLteQci	• LTE QoS Class Identifier
	• QoS Class Identifier(QCI) is a required parameter to request QoS in LTE
	• QCI values:
	  – QCI value 0 requests the network to assign the appropriate QCI value
	  – QCI values 1-4 are associated with guaranteed bitrates
	  – QCI values 5-9 are associated with nonguaranteed bitrates, so the values specified as guaranteed and maximum bitrates are ignored

8.1045.2 Field Documentation

8.1045.2.1 BYTE swiQosFlow::index

8.1045.2.2 BYTE∗ swiQosFlow::p3GPP2Pri

8.1045.2.3 BYTE* swiQosFlow::p3GPPImCn

8.1045.2.4 WORD* swiQosFlow::p3GPPResResidualBER

8.1045.2.5 BYTE* swiQosFlow::p3GPPSigInd

8.1045.2.6 BYTE* swiQosFlow::p3GPPTraHdlPri

8.1045.2.7 dataRate* swiQosFlow::pDataRate

8.1045.2.8 ULONG* swiQosFlow::pJitter

8.1045.2.9 ULONG* swiQosFlow::pLatency

8.1045.2.10 BYTE* swiQosFlow::pLteQci

8.1045.2.11 ULONG* swiQosFlow::pMaxAllowedPktSz

8.1045.2.12 ULONG* swiQosFlow::pMinPolicedPktSz

8.1045.2.13 pktErrRate* swiQosFlow::pPktErrRate

8.1045.2.14 WORD* swiQosFlow::pProfileId3GPP2

8.1045.2.15 tokenBucket* swiQosFlow::pTokenBucket

8.1045.2.16 BYTE* swiQosFlow::pTrafficClass

8.1046 swiQosGranted Struct Reference

Data Fields

- swiQosFlow * pTxFlow
- swiQosFlow * pRxFlow

8.1046.1 Detailed Description

This structure contains the QoS granted flow

Parameters

pTxFlow	See swiQosFlow for more information
pRxFlow	See swiQosFlow for more information

8.1046.2 Field Documentation

8.1046.2.1 swiQosFlow* swiQosGranted::pRxFlow

8.1046.2.2 swiQosFlow* swiQosGranted::pTxFlow

8.1047 swiQosIds Struct Reference

Data Fields

- BYTE sz
- ULONG * pIds

8.1047.1 Detailed Description

This structure contains the QoS Response parameters.

Parameters

sz	Number of QoS identifiers
pIds	Identifier for the QoS flow requested; number of QoS identifiers present will be equal to number of QoS specs requested in the QoS Request message

8.1047.2 Field Documentation

8.1047.2.1 ULONG* swiQosIds::pIds

8.1047.2.2 BYTE swiQosIds::sz

8.1048 swiQosModifyReq Struct Reference

Data Fields

- ULONG id
- swiQosFlow * pTxFlow
- swiQosFlow * pRxFlow
- swiQosFilter * pTxFilter
- swiQosFilter * pRxFilter

8.1048.1 Detailed Description

This structure contains the QoS Request parameters.

Parameters

id	Identifier for the QoS flow/instance that has been negotiated and that needs to be modified The QoS_identifier is used to reference the actual flow/filter specifications that are in effect as a result of the negotiation triggered by QMI_QOS_REQUEST_QOS_REQ
pTxFlow	See swiQosFlow for more information
pRxFlow	See swiQosFlow for more information
pTxFilter	See swiQosFilter for more information
pRxFilter	See swiQosFilter for more information

8.1048.2 Field Documentation

8.1048.2.1 ULONG swiQosModifyReq::id

8.1048.2.2 swiQosFilter* swiQosModifyReq::pRxFilter

8.1048.2.3 swiQosFlow* swiQosModifyReq::pRxFlow

8.1048.2.4 swiQosFilter* swiQosModifyReq::pTxFilter

8.1048.2.5 swiQosFlow* swiQosModifyReq::pTxFlow

8.1049 swiQosReq Struct Reference

Data Fields

- BYTE index
- swiQosFlow * pTxFlow
- swiQosFlow * pRxFlow
- swiQosFilter * pTxFilter
- swiQosFilter * pRxFilter

8.1049.1 Detailed Description

This structure contains the QoS Request parameters.

Parameters

index	• An integer that uniquely identifies each QoS spec included in the QoS request message
pTxFlow	• See swiQosFlow for more information
pRxFlow	• See swiQosFlow for more information
pTxFilter	• See swiQosFilter for more information
pRxFilter	• See swiQosFilter for more information

8.1049.2 Field Documentation

8.1049.2.1 BYTE swiQosReq::index

8.1049.2.2 swiQosFilter* swiQosReq::pRxFilter

8.1049.2.3 swiQosFlow* swiQosReq::pRxFlow

8.1049.2.4 swiQosFilter* swiQosReq::pTxFilter

8.1049.2.5 swiQosFlow* swiQosReq::pTxFlow

8.1050 swiRMTrasnferStaticsReq Struct Reference

Data Fields

- BYTE bResetStatistics

- ULONG ulMask

8.1050.1 Detailed Description

RM Transfer Satistics Structure

Parameters

bResetStatistics	• Reset Statistics • Values: • 0 - Not Reset • Other - Reset
ulMask	• Enable/Disable RM Transfer Satatistics Indiscation Mask • Bit 0: Tx Packet Ok • Bit 1: Rx Packet Ok • Bit 2: Tx Bytes Ok • Bit 3: Rx Bytes Ok • Bit 4: Tx Packets Dropped • Bit 5: Rx Packets Dropped • Value: -0 - Disable -1 - Enable

8.1050.2 Field Documentation

8.1050.2.1 BYTE swiRMTrasnferStaticsReq::bResetStatistics

8.1050.2.2 ULONG swiRMTrasnferStaticsReq::ulMask

8.1051 sysInfoCommon Struct Reference

Data Fields

- BYTE srvDomainValid
- BYTE srvDomain
- BYTE srvCapabilityValid
- BYTE srvCapability
- BYTE roamStatusValid
- BYTE roamStatus
- BYTE isSysForbiddenValid
- BYTE isSysForbidden

8.1051.1 Detailed Description

Structure for storing the System Information common to CDMA, HDR, GSM, WCDMA and LTE networks.

Parameters

srvDomainValid	• Indicates whether the service domain is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
srvDomain	• Service domain registered on the system. – 0x00 - No service – 0x01 - Circuit-switched only – 0x02 - Packet-switched only – 0x03 - Circuit-switched and packet-switched – 0x04 - Camped – 0xFF - Not Available
srvCapability-Valid	• Indicates whether the service capability is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
srvCapability	• Current system's service capability. – 0x00 - No service – 0x01 - Circuit-switched only – 0x02 - Packet-switched only – 0x03 - Circuit-switched and packet-switched – 0x04 - Camped – 0xFF - Not Available
roamStatusValid	• Indicates whether the roaming status is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available

roamStatus	• Current roaming status. – 0x00 - Off – 0x01 - On – 0x02 - Blinking – 0x03 - Out of the neighborhood – 0x04 - Out of the building – 0x05 - Preferred system – 0x06 - Available system – 0x07 - Alliance partner – 0x08 - Premium partner – 0x09 - Full service – 0x0A - Partial service – 0x0B - Banner is on – 0x0C - Banner is off – 0x0D to 0x3F - Reserved for Standard Enhanced Roaming Indicator Numbers – 0x40 to 0x7F - Reserved for Non-Standard Enhanced Roaming Indicator Numbers – 0x40 to 0xFF - Reserved. – 0xFF - Not Available • Values from 0x02 onward are only applicable for 3GPP2
isSysForbidden-Valid	• Indicates whether the forbidden system is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
isSysForbidden	• Whether the system is forbidden. – 0x00 - Not forbidden – 0x01 - Forbidden – 0xFF - Not Available

8.1051.2 Field Documentation

8.1051.2.1 BYTE sysInfoCommon::isSysForbidden

8.1051.2.2 BYTE sysInfoCommon::isSysForbiddenValid

8.1051.2.3 BYTE sysInfoCommon::roamStatus

8.1051.2.4 BYTE sysInfoCommon::roamStatusValid

8.1051.2.5 BYTE sysInfoCommon::srvCapability

8.1051.2.6 BYTE sysInfoCommon::srvCapabilityValid

8.1051.2.7 BYTE sysInfoCommon::srvDomain

8.1051.2.8 BYTE sysInfoCommon::srvDomainValid

8.1052 sysSelectPrefParamsExt Struct Reference

Data Fields

- sysSelectPrefParams * pSysSelectPrefParams
- ULONGLONG * pCiotLteOpModePref
- ULONGLONG * pLteM1BandPref
- ULONGLONG * pLteNb1BandPref
- ULONG * pCiotLteOpMode
- struct ciotAcqOrderPref * pCiotAcqOrderPref
- struct nr5gBandPref * pNr5gBandPref

8.1052.1 Detailed Description

Contain the system selection preferences.

Parameters

pSysSelectPref-Params[IN]	• See sysSelectPrefParams for more information
pCiotLteOp-ModePref[IN]	• CIOT LTE Operational Mode Preference • Bitmask representing the CIoT LTE operational mode preference to be set. • Values : – Bit 0 - LTE wideband – Bit 1 - LTE M1 – Bit 2 - LTE NB1 All unlisted bits are reserved for future use and the service point ignores them if used. If this TLV is not present, the modem will use the value read from the NV during bootup.

pLteM1Band-Pref[IN]	• Bitmask representing the LTE M1 band preference to be set. • Bit Values – Bit 0 - E-UTRA Operating Band 1 – Bit 1 - E-UTRA Operating Band 2 – Bit 2 - E-UTRA Operating Band 3 – Bit 3 - E-UTRA Operating Band 4 – Bit 4 - E-UTRA Operating Band 5 – Bit 5 - E-UTRA Operating Band 6 – Bit 6 - E-UTRA Operating Band 7 – Bit 7 - E-UTRA Operating Band 8 – Bit 8 - E-UTRA Operating Band 9 – Bit 9 - E-UTRA Operating Band 10 – Bit 10 - E-UTRA Operating Band 11 – Bit 11 - E-UTRA Operating Band 12 – Bit 12 - E-UTRA Operating Band 13 – Bit 13 - E-UTRA Operating Band 14 – Bit 16 - E-UTRA Operating Band 17 – Bit 17 - E-UTRA Operating Band 18 – Bit 18 - E-UTRA Operating Band 19 – Bit 19 - E-UTRA Operating Band 20 – Bit 20 - E-UTRA Operating Band 21 – Bit 22 - E-UTRA Operating Band 23 – Bit 23 - E-UTRA Operating Band 24 – Bit 24 - E-UTRA Operating Band 25 – Bit 25 - E-UTRA Operating Band 26 – Bit 27 - E-UTRA Operating Band 28 – Bit 28 - E-UTRA Operating Band 29 – Bit 29 - E-UTRA Operating Band 32 – Bit 32 - E-UTRA Operating Band 33 – Bit 33 - E-UTRA Operating Band 34 – Bit 34 - E-UTRA Operating Band 35 – Bit 35 - E-UTRA Operating Band 36 – Bit 36 - E-UTRA Operating Band 37 – Bit 37 - E-UTRA Operating Band 38 – Bit 38 - E-UTRA Operating Band 39 – Bit 39 - E-UTRA Operating Band 40 – Bit 40 - E-UTRA Operating Band 41 – Bit 41 - E-UTRA Operating Band 42 – Bit 42 - E-UTRA Operating Band 43 – Bit 60 - E-UTRA Operating Band 125 – Bit 61 - E-UTRA Operating Band 126 – Bit 62 - E-UTRA Operating Band 127

- If this field is not present, the modem will use the M1 band preference value read from the NV.

Parameters

pLteNb1Band-Pref[IN]	• Bitmask representing the LTE NB1 band preference to be set. • Bit Values – Bit 0 - E-UTRA Operating Band 1 – Bit 1 - E-UTRA Operating Band 2 – Bit 2 - E-UTRA Operating Band 3 – Bit 3 - E-UTRA Operating Band 4 – Bit 4 - E-UTRA Operating Band 5 – Bit 5 - E-UTRA Operating Band 6 – Bit 6 - E-UTRA Operating Band 7 – Bit 7 - E-UTRA Operating Band 8 – Bit 8 - E-UTRA Operating Band 9 – Bit 9 - E-UTRA Operating Band 10 – Bit 10 - E-UTRA Operating Band 11 – Bit 11 - E-UTRA Operating Band 12 – Bit 12 - E-UTRA Operating Band 13 – Bit 13 - E-UTRA Operating Band 14 – Bit 16 - E-UTRA Operating Band 17 – Bit 17 - E-UTRA Operating Band 18 – Bit 18 - E-UTRA Operating Band 19 – Bit 19 - E-UTRA Operating Band 20 – Bit 20 - E-UTRA Operating Band 21 – Bit 22 - E-UTRA Operating Band 23 – Bit 23 - E-UTRA Operating Band 24 – Bit 24 - E-UTRA Operating Band 25 – Bit 25 - E-UTRA Operating Band 26 – Bit 27 - E-UTRA Operating Band 28 – Bit 28 - E-UTRA Operating Band 29 – Bit 29 - E-UTRA Operating Band 32 – Bit 32 - E-UTRA Operating Band 33 – Bit 33 - E-UTRA Operating Band 34 – Bit 34 - E-UTRA Operating Band 35 – Bit 35 - E-UTRA Operating Band 36 – Bit 36 - E-UTRA Operating Band 37 – Bit 37 - E-UTRA Operating Band 38 – Bit 38 - E-UTRA Operating Band 39 – Bit 39 - E-UTRA Operating Band 40 – Bit 40 - E-UTRA Operating Band 41 – Bit 41 - E-UTRA Operating Band 42 – Bit 42 - E-UTRA Operating Band 43 – Bit 60 - E-UTRA Operating Band 125 – Bit 61 - E-UTRA Operating Band 126 – Bit 62 - E-UTRA Operating Band 127 • If this field is not present, the modem will use the NB1 band preference value read from the NV.

pCiotLteOpMode	• This TLV is used when the net_sel_pref is MANUAL and RAT TLV is LTE. • This TLV indicates the the operational mode to be used during the manual LTE PLMN selection. • Values : – 0x00 - No service – 0x01 - Camped on LTE wideband – 0x02 - Camped on LTE M1 – 0x03 - Camped on LTE NB1
pCiotAcqOrder-Pref[IN]	• CIOT Acquisition Order Preference • see ciotAcqOrderPref for more information
pNr5gBandPref[-IN]	• NR5G Band Preference • see nr5gBandPref for more information

8.1052.2 Field Documentation

8.1052.2.1 struct ciotAcqOrderPref* sysSelectPrefParamsExt::pCiotAcqOrderPref

8.1052.2.2 ULONG* sysSelectPrefParamsExt::pCiotLteOpMode

8.1052.2.3 ULONGLONG* sysSelectPrefParamsExt::pCiotLteOpModePref

8.1052.2.4 ULONGLONG* sysSelectPrefParamsExt::pLteM1BandPref

8.1052.2.5 ULONGLONG* sysSelectPrefParamsExt::pLteNb1BandPref

8.1052.2.6 struct nr5gBandPref* sysSelectPrefParamsExt::pNr5gBandPref

8.1052.2.7 sysSelectPrefParams* sysSelectPrefParamsExt::pSysSelectPrefParams

8.1053 t_gpsTime Struct Reference

Data Fields

- USHORT gpsWeek
- ULONG gpsTimeOfWeekMs

8.1053.1 Field Documentation

8.1053.1.1 ULONG t_gpsTime::gpsTimeOfWeekMs

8.1053.1.2 USHORT t_gpsTime::gpsWeek

8.1054 t_sensor Struct Reference

Data Fields

- ULONG usageMask
- ULONG aidingIndicatorMask

8.1054.1 Field Documentation

8.1054.1.1 ULONG t_sensor::aidingIndicatorMask

8.1054.1.2 ULONG t_sensor::usageMask

8.1055 t_Sv Struct Reference

Data Fields

- BYTE len
- USHORT entries [255]

8.1055.1 Field Documentation

8.1055.1.1 USHORT t_Sv::entries[255]

8.1055.1.2 BYTE t_Sv::len

8.1056 TDSCDMAECIOThresh Struct Reference

Data Fields

- BYTE TDSCDMAECIOThreshListLen
- ULONG * pTDSCDMAECIOThreshList

8.1056.1 Detailed Description

This structure contains TDSCDMA ECIO threshold related parameters.

Parameters

TDSCDMAECIOThreshListLen	• Length of the TDSCDMA ECIO threshold list parameter to follow
pTDSCDMAECIOThreshList	• Array of ECIO thresholds (in dB) used by TD-SCDMA • Maximum of 32 values.

8.1056.2 Field Documentation

8.1056.2.1 ULONG* TDSCDMAECIOThresh::pTDSCDMAECIOThreshList

8.1056.2.2 BYTE TDSCDMAECIOThresh::TDSCDMAECIOThreshListLen

8.1057 TDSCDMARSCPThresh Struct Reference

Data Fields

- BYTE TDSCDMARSCPThreshListLen
- WORD * pTDSCDMARSCPThreshList

8.1057.1 Detailed Description

This structure contains TDSCDMA RSCP threshold related parameters.

Parameters

TDSCDMARSCPThreshListLen	• Length of the TDSCDMA RSCP threshold list parameter to follow
pTDSCDMARSCPThreshList	• Array of RSCP thresholds (in units of 0.1 dBm) • Maximum of 32 values • Range for RSCP values: -120 to -25 (in dBm).

8.1057.2 Field Documentation

8.1057.2.1 WORD* TDSCDMARSCPThresh::pTDSCDMARSCPThreshList

8.1057.2.2 BYTE TDSCDMARSCPThresh::TDSCDMARSCPThreshListLen

8.1058 TDSCDMARSSIThresh Struct Reference

Data Fields

- BYTE TDSCDMARSSIThreshListLen
- ULONG * pTDSCDMARSSIThreshList

8.1058.1 Detailed Description

This structure contains TDSCDMA RSSI threshold related parameters.

Parameters

TDSCDMARSSIThreshListLen	• Length of the TDSCDMA RSSI threshold list parameter to follow
pTDSCDMARSSIThreshList	• Array of RSSI thresholds (in dBm) used by TD-SCDMA • Maximum of 32 values.

8.1058.2 Field Documentation

8.1058.2.1 ULONG* TDSCDMARSSIThresh::pTDSCDMARSSIThreshList

8.1058.2.2 BYTE TDSCDMARSSIThresh::TDSCDMARSSIThreshListLen

8.1059 tdscdmaSigInfoExt Struct Reference

Data Fields

- float rssi
- float rscp
- float ecio
- float sinr

8.1059.1 Detailed Description

This structure contains the TDSCDMA Signal Strength Info Extended

Parameters

rssi	• Measured RSSI in dB
rscp[Optional]	• Measured RSCP in dBm
ecio[Optional]	• Measured ECIO in dBm.
sinr[Optional]	• Measured SINR in dB. -15 dB is sent to clients if the actual SINR is less than -15 dB

8.1059.2 Field Documentation

8.1059.2.1 float tdscdmaSigInfoExt::ecio

8.1059.2.2 float tdscdmaSigInfoExt::rscp

8.1059.2.3 float tdscdmaSigInfoExt::rssi

8.1059.2.4 float tdscdmaSigInfoExt::sinr

8.1060 TDSCDMASigInfoExt Struct Reference

Data Fields

- FLOAT rssi
- FLOAT rscp
- FLOAT ecio
- FLOAT sinr

8.1060.1 Detailed Description

This structure contains the TDSCDMA Signal Strength Info Extended

Parameters

rssi	• Measured RSSI in dB
rscp[Optional]	• Measured RSCP in dBm
ecio[Optional]	• Measured ECIO in dBm.
sinr[Optional]	• Measured SINR in dB. -15 dB is sent to clients if the actual SINR is less than -15 dB

8.1060.2 Field Documentation

8.1060.2.1 FLOAT TDSCDMASigInfoExt::ecio

8.1060.2.2 FLOAT TDSCDMASigInfoExt::rscp

8.1060.2.3 FLOAT TDSCDMASigInfoExt::rssi

8.1060.2.4 FLOAT TDSCDMASigInfoExt::sinr

8.1061 TDSCDMASINRCONFThresh Struct Reference

Data Fields

- BYTE TDSCDMASINRCONFThreshListLen
- FLOAT * pTDSCDMASINRCONFThreshList

8.1061.1 Detailed Description

This structure contains TDSCDMA SINR threshold related parameters.

Parameters

TDSCDMASINRCONFThreshListLen	• Length of the TDSCDMA SINR threshold list parameter to follow
pTDSCDMASINRCONFThreshList	• Array of SINR thresholds (in dB) used by TD-SCDMA • Maximum of 32 values

8.1061.2 Field Documentation

8.1061.2.1 FLOAT* TDSCDMASINRCONFThresh::pTDSCDMASINRCONFThreshList

8.1061.2.2 BYTE TDSCDMASINRCONFThresh::TDSCDMASINRCONFThreshListLen

8.1062 TDSCDMASINRThresh Struct Reference

Data Fields

- BYTE TDSCDMASINRThreshListLen
- ULONG * pTDSCDMASINRThreshList

8.1062.1 Detailed Description

This structure contains TDSCDMA SINR threshold related parameters.

Parameters

TDSCDMASINRThreshListLen	• Length of the TDSCDMA SINR threshold list parameter to follow
pTDSCDMASINRThreshList	• Array of SINR thresholds (in dB) used by TD-SCDMA • Maximum of 32 values

8.1062.2 Field Documentation

8.1062.2.1 ULONG* TDSCDMASINRThresh::pTDSCDMASINRThreshList

8.1062.2.2 BYTE TDSCDMASINRThresh::TDSCDMASINRThreshListLen

8.1063 tempData_t Struct Reference

Data Fields

- uint32_t timeSource
- uint32_t timeOfFirstSample
- uint8_t temperatureDataLen
- uint16_t timeOffset [64]
- uint32_t temperature [64]

8.1063.1 Detailed Description

This structure specifies information regarding the Temperature Data. Please check has_<Param_Name> field for presence of optional parameters

Parameters

timeSource	• Time source of the sensor data • Valid values – 0 - Sensor time source is unspecified – 1 - Time source is common between the sensors and the location engine

timeOfFirst-Sample	• Denotes a full 32-bit time stamp of the first (oldest) sample in this message. • The time stamp is in the time reference scale that is used by the sensor time source. • Units - Milliseconds
temperature-DataLen	• Number of sets of the following elements – timeOffset – temperature
timeOffset	• Sample time offset • Units - Milliseconds
temperature	• Sensor temperature. • Type - Floating point • Units - Degrees Celsius • Range -50 to +100.00

8.1063.2 Field Documentation

8.1063.2.1 uint32_t tempData_t::temperature[64]

8.1063.2.2 uint8_t tempData_t::temperatureDataLen

8.1063.2.3 uint32_t tempData_t::timeOfFirstSample

8.1063.2.4 uint16_t tempData_t::timeOffset[64]

8.1063.2.5 uint32_t tempData_t::timeSource

8.1064 tempratureData Struct Reference

Data Fields

- ULONG timeSource
- ULONG timeOfFirstSample
- BYTE temperatureDataLen
- WORD timeOffset [64]
- ULONG temperature [64]

8.1064.1 Detailed Description

This structure specifies information regarding the Temperature Data.

Parameters

timeSource	• Time source of the sensor data • Valid values – 0 - Sensor time source is unspecified – 1 - Time source is common between the sensors and the location engine
timeOfFirst-Sample	• Denotes a full 32-bit time stamp of the first (oldest) sample in this message. • The time stamp is in the time reference scale that is used by the sensor time source. • Units - Milliseconds
temperature-DataLen	• Number of sets of the following elements – timeOffset – temperature
timeOffset	• Sample time offset • Units - Milliseconds
temperature	• Sensor temperature. • Type - Floating point • Units - Degrees Celsius • Range -50 to +100.00

8.1064.2 Field Documentation

8.1064.2.1 ULONG tempratureData::temperature[64]

8.1064.2.2 BYTE tempratureData::temperatureDataLen

8.1064.2.3 ULONG tempratureData::timeOfFirstSample

8.1064.2.4 WORD tempratureData::timeOffset[64]

8.1064.2.5 ULONG tempratureData::timeSource

8.1065 TFTIDParams Struct Reference

Data Fields

- BYTE filterId
- BYTE eValid
- BYTE ipVersion
- WORD * pSourceIP
- BYTE sourceIPMask
- BYTE nextHeader
- WORD destPortRangeStart
- WORD destPortRangeEnd
- WORD srcPortRangeStart

- WORD srcPortRangeEnd
- ULONG IPSECSPI
- WORD tosMask
- ULONG flowLabel

8.1065.1 Detailed Description

structure contains traffic flow template parameters

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

filterId	• Filter identifier
eValid	• Evaluation precedence index
pVersion	• IP version number – 4 - IPv4 – 6 - IPv6
sourceIP	• Source IP address – IPv4 - Fill the first 4 bytes – IPv6 - Fill all the 16 bytes
sourceIPMask	• Mask value for the source address
nextHeader	• Next header/protocol value
destPortRange-Start	• Start value of the destination port range
destPortRange-End	• End value of the destination port range
srcPortRange-Start	• Start value of the source port range
srcPortRange-End	• End value of the source port range
IPSECSPI	• IPSEC security parameter index
tosMask	• TOS mask (Traffic class for IPv6)

flowLabel	• Flow label

8.1065.2 Field Documentation

8.1065.2.1 WORD TFTIDParams::destPortRangeEnd

8.1065.2.2 WORD TFTIDParams::destPortRangeStart

8.1065.2.3 BYTE TFTIDParams::eValid

8.1065.2.4 BYTE TFTIDParams::filterId

8.1065.2.5 ULONG TFTIDParams::flowLabel

8.1065.2.6 ULONG TFTIDParams::IPSECSPI

8.1065.2.7 BYTE TFTIDParams::ipVersion

8.1065.2.8 BYTE TFTIDParams::nextHeader

8.1065.2.9 WORD* TFTIDParams::pSourceIP

8.1065.2.10 BYTE TFTIDParams::sourceIPMask

8.1065.2.11 WORD TFTIDParams::srcPortRangeEnd

8.1065.2.12 WORD TFTIDParams::srcPortRangeStart

8.1065.2.13 WORD TFTIDParams::tosMask

8.1066 timeInfo Struct Reference

Data Fields

- WORD year
- BYTE month
- BYTE day
- BYTE hour
- BYTE minute
- BYTE second
- BYTE dayOfWeek
- INT8 timeZone
- BYTE dayLtSavingAdj
- BYTE radioInterface
- BYTE TlvPresent

8.1066.1 Detailed Description

This structure contains the parameters for Network Time.

Parameters

year	• Year
month	• Month • 1 is January and 12 is December
day	• Day • Range - 1 to 31
hour	• Hour • Range - 0 to 59
minute	• Minute • Range - 0 to 59
second	• Second • Range - 0 to 59
dayOfWeek	• Day of the week • 0 is Monday and 6 is Sunday
timeZone	• Offset from Universal time • The difference between local time and Universal time, in increments of 15 min • Signed Value
dayLtSavingAdj	• Daylight saving adjustment in hours • Possible values - 0, 1, and 2. • This field is ignored if radio_if is NAS_RADIO_IF_CDMA_1XEVDO
radioInterface	• Radio interface from which the information comes • Values – 0x01 - NAS_RADIO_IF_CDMA_1X - cdma2000 1X – 0x02 - NAS_RADIO_IF_CDMA_1XEVDO - cdma2000 HRPD (1xEV-DO) – 0x04 - NAS_RADIO_IF_GSM - GSM – 0x05 - NAS_RADIO_IF_UMTS - UMTS – 0x08 - NAS_RADIO_IF_LTE - LTE – 0x09 - NAS_RADIO_IF_TDSCDMA -TD-SCDMA
TlvPresent	• Tlv Present.

8.1066.2 Field Documentation

8.1066.2.1 BYTE timeInfo::day

8.1066.2.2 BYTE timeInfo::dayLtSavingAdj

8.1066.2.3 BYTE timeInfo::dayOfWeek

8.1066.2.4 BYTE timeInfo::hour

8.1066.2.5 BYTE timeInfo::minute

8.1066.2.6 BYTE timeInfo::month

8.1066.2.7 BYTE timeInfo::radioInterface

8.1066.2.8 BYTE timeInfo::second

8.1066.2.9 INT8 timeInfo::timeZone

8.1066.2.10 BYTE timeInfo::TlvPresent

8.1066.2.11 WORD timeInfo::year

8.1067 TmdDeRegNotMitigationLvlReq Struct Reference

Data Fields

- BYTE mitigationDevIDLen
- CHAR mitigationDevID [255]

8.1067.1 Detailed Description

This structure contains mitigation devices Level deregister request parameters

Parameters

mitigationDevID-Len	• Number of sets of the following elements – mitigation_dev_id
mitigationDevID	• Mitigation device ID

8.1067.2 Field Documentation

8.1067.2.1 CHAR TmdDeRegNotMitigationLvlReq::mitigationDevID[255]

8.1067.2.2 BYTE TmdDeRegNotMitigationLvlReq::mitigationDevIDLen

8.1068 TmdGetMitigationDevListResp Struct Reference

Data Fields

- BYTE * pMitigationDevListLen
- mitigationDevList * pMitigationDevList

8.1068.1 Detailed Description

This structure contains mitigation devices list from the remote endpoint

Parameters

pMitigationDevListLen	• Mitigation Device List Length (Optional) • Number of sets of the following elements • pMitigationDevList
pMitigationDevList	• Mitigation Device List (Optional) • See mitigationDevList for more information.

8.1068.2 Field Documentation

8.1068.2.1 mitigationDevList* TmdGetMitigationDevListResp::pMitigationDevList

8.1068.2.2 BYTE* TmdGetMitigationDevListResp::pMitigationDevListLen

8.1069 TmdGetMitigationLvlReq Struct Reference

Data Fields

- BYTE mitigationDevIDLen
- CHAR mitigationDevID [255]

8.1069.1 Detailed Description

This structure contains mitigation devices Level request parameters

Parameters

mitigationDevIDLen	• Number of sets of the following elements – mitigation_dev_id
mitigationDevID	• Mitigation device ID

8.1069.2 Field Documentation

8.1069.2.1 CHAR TmdGetMitigationLvlReq::mitigationDevID[255]

8.1069.2.2 BYTE TmdGetMitigationLvlReq::mitigationDevIDLen

8.1070 TmdGetMitigationLvlResp Struct Reference

Data Fields

- BYTE * pCurrentmitigationLvl
- BYTE * pReqMitigationLvl

8.1070.1 Detailed Description

This structure contains mitigation devices Level request parameters

Parameters

pCurrentmitigationLvl	• Current thermal mitigation level (Optional)
pReqMitigationLvl	• Requested Thermal Mitigation Level (Optional) • The requested thermal mitigation level from the client. The default is zero if the client has not previously set the mitigation level.

8.1070.2 Field Documentation

8.1070.2.1 BYTE* TmdGetMitigationLvlResp::pCurrentmitigationLvl

8.1070.2.2 BYTE* TmdGetMitigationLvlResp::pReqMitigationLvl

8.1071 TmdMitigationLvlIndReq Struct Reference

Data Fields

- BYTE mitigationDevIDLen
- CHAR mitigationDevID [255]

8.1071.1 Detailed Description

This structure contains mitigation Level Indication request parameters

Parameters

mitigationDevIDLen	• Number of sets of the following elements – mitigation_dev_id
mitigationDevID	• Mitigation device ID

8.1071.2 Field Documentation

8.1071.2.1 CHAR TmdMitigationLvlIndReq::mitigationDevID[255]

8.1071.2.2 BYTE TmdMitigationLvlIndReq::mitigationDevIDLen

8.1072 TmdRegNotMitigationLvlReq Struct Reference

Data Fields

- BYTE mitigationDevIDLen
- CHAR mitigationDevID [255]

8.1072.1 Detailed Description

This structure contains mitigation devices Level register request parameters

Parameters

mitigationDevID-Len	• Number of sets of the following elements – mitigation_dev_id
mitigationDevID	• Mitigation device ID

8.1072.2 Field Documentation

8.1072.2.1 CHAR TmdRegNotMitigationLvlReq::mitigationDevID[255]

8.1072.2.2 BYTE TmdRegNotMitigationLvlReq::mitigationDevIDLen

8.1073 tokenBucket Struct Reference

Data Fields

- ULONG peakRate
- ULONG tokenRate
- ULONG bucketSz

8.1073.1 Detailed Description

This structure contains the TP flow data rate token bucket

Parameters

peakRate	Maximum rate at which data can be transmitted when the token bucket is full (bits per second)
tokenRate	Rate at which tokens will be put in the token bucket (bits per second); a token is required to be present in the bucket to send a byte of data
bucketSz	Maximum number of tokens that can be accumulated at any instance (bytes); controls the size of the burst that is allowed at any given time

8.1073.2 Field Documentation

8.1073.2.1 ULONG tokenBucket::bucketSz

8.1073.2.2 ULONG tokenBucket::peakRate

8.1073.2.3 ULONG tokenBucket::tokenRate

8.1074 Tos Struct Reference

Data Fields

- BYTE val
- BYTE mask

8.1074.1 Detailed Description

This structure contains the IPv4 filter type of service

Parameters

val	Type of service value
mask	Packet matches the TOS filter if: (IPv4_filter_tos_val and IPv4_filter_tos_mask) == (TOS value in the IP packet & IPv4_filter_tos_mask) Example: • IPv4_filter_tos_val = 00101000 • IPv4_filter_tos_mask = 11111100 The filter will compare only the first 6 bits in the IPv4_filter_-type_of_service with the first 6 bits in the TOS field of the IP packet. The first 6 bits in the TOS field of the IP packet must be 001010 to match the filter. The last 2 bits can be anything since they are ignored by filtering.

8.1074.2 Field Documentation

8.1074.2.1 BYTE Tos::mask

8.1074.2.2 BYTE Tos::val

8.1075 transferRouteMessageTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- sMSTransferRouteMTMessageInfo TransferRouteMTMessageInfo

8.1075.1 Detailed Description

This structure contains Transfer route MT message TLV information.

Parameters

TlvPresent	• Boolean indicating the presence of the TLV in the QMI response

TransferRouteMTMessageInfo	• Transfer Route MT Message • See sMSTransferRouteMTMessageInfo for more information

8.1075.2 Field Documentation

8.1075.2.1 uint8_t transferRouteMessageTlv::TlvPresent

8.1075.2.2 sMSTransferRouteMTMessageInfo transferRouteMessageTlv::TransferRouteMTMessageInfo

8.1076 TransferStatInd Struct Reference

Data Fields

- BYTE StatsPeriod
- ULONG StatsMask

8.1076.1 Detailed Description

This structure contains Transfer Statistcics Indicator

Parameters

StatsPeriod	• Period between transfer statistics reports – 0 - Do not report – Other - Period between reports (seconds)
StatsMask	• Requested statistic bit mask. Each bit set causes the corresponding optional TLV to be sent in the indication. All unlisted bits are reserviced for future use and must be set to zero. – 0x00000040 - Tx bytes OK – 0x00000080 - Rx bytes OK

8.1076.2 Field Documentation

8.1076.2.1 ULONG TransferStatInd::StatsMask

8.1076.2.2 BYTE TransferStatInd::StatsPeriod

8.1077 TransferStatsDataType Struct Reference

Data Fields

- BYTE interval

8.1077.1 Field Documentation

8.1077.1.1 BYTE TransferStatsDataType::interval

8.1078 TrStatInd Struct Reference

Data Fields

- BYTE statsPeriod
- ULONG statsMask

8.1078.1 Detailed Description

This structure contains the information about the Transfer Statistics Indicator parameters.

Parameters

statsPeriod	• Period between transfer statistics reports. – 0 - Do not report – Other - Period between reports (seconds)
statsMask	• Requested statistic bit mask. – 0x00000001 - Tx packets OK – 0x00000002 - Rx packets OK – 0x00000004 - Tx packet errors – 0x00000008 - Rx packet errors – 0x00000010 - Tx overflows – 0x00000020 - Rx overflows – 0x00000040 - Tx bytes OK – 0x00000080 - Rx bytes OK • Each bit set causes the corresponding optional information to be sent in SLQSWdsEventReportCallBack. • All unlisted bits are reserved for future use and must be set to zero.

8.1078.2 Field Documentation

8.1078.2.1 ULONG TrStatInd::statsMask

8.1078.2.2 BYTE TrStatInd::statsPeriod

8.1079 trueIMSI Struct Reference

Data Fields

- BYTE mccT [3]
- WORD imsiT1112
- BYTE imsiTS1 [7]
- BYTE imsiTS2 [3]
- BYTE imsiTaddrNum

8.1079.1 Detailed Description

This structure contains the parameters for True IMSI Information

Parameters

mccT	• ASCII character representation of MCC_T
imsiT1112	• ASCII character representation of IMSI_T_11_12 value – 0xFFFF - Not Available
imsiTS1	• ASCII character representation of IMSI_T_S1 value
imsiTS2	• ASCII character representation of IMSI_T_S2 value
imsiTaddrNum	• Value of IMSI_T_ADDR_NUM – 0xFF - Not Available

8.1079.2 Field Documentation

8.1079.2.1 WORD truelMSI::imsiT1112

8.1079.2.2 BYTE truelMSI::imsiTaddrNum

8.1079.2.3 BYTE truelMSI::imsiTS1[7]

8.1079.2.4 BYTE truelMSI::imsiTS2[3]

8.1079.2.5 BYTE truelMSI::mccT[3]

8.1080 TXAGCList Struct Reference

Data Fields

- WORD * pTXStaticGain
- WORD * pTXAIG
- WORD * pTXExpThres
- WORD * pTXExpSlope
- WORD * pTXComprThres
- WORD * pTXComprSlope

8.1080.1 Detailed Description

This structure contains the SLQSGetAudioPathConfig parameters related to AV_TXAGCLIST.

Parameters

pTXStaticGain	• TX pre-compressor static gain
pTXAIG	• TX pre-compressor gain selection flag
pTXExpThres	• TX expansion threshold
pTXExpSlope	• TX expansion slope
pTXComprThres	• TX compression threshold
pTXComprSlope	• TX compression slope

8.1080.2 Field Documentation

8.1080.2.1 WORD* TXAGCList::pTXAIG

8.1080.2.2 WORD* TXAGCList::pTXComprSlope

8.1080.2.3 WORD* TXAGCList::pTXComprThres

8.1080.2.4 WORD* TXAGCList::pTXExpSlope

8.1080.2.5 WORD* TXAGCList::pTXExpThres

8.1080.2.6 WORD* TXAGCList::pTXStaticGain

8.1081 txInfo Struct Reference

Data Fields

- BYTE isInTraffic
- INT32 txPower

8.1081.1 Detailed Description

This structure contains the Tx Information.

Parameters

isInTraffic	• Whether the device is in traffic. – 0x00 - not in traffic – 0x01 - in traffic • The txPower field is only meaningful when in the device is in traffic.

txPower	• Tx power value in 1/10 dbm.

8.1081.2 Field Documentation

8.1081.2.1 BYTE txInfo::isInTraffic

8.1081.2.2 INT32 txInfo::txPower

8.1082 TXPCMIIRFltr Struct Reference

Data Fields

- WORD * pFlag
- WORD * pStageCnt
- BYTE * pStage0Val
- BYTE * pStage1Val
- BYTE * pStage2Val
- BYTE * pStage3Val
- BYTE * pStage4Val

8.1082.1 Detailed Description

This structure contains the SLQSGetAudioPathConfig parameters related to AV_TXPCMIIRFLTR.

Parameters

pFlag	• Flag – 0x0000 - IIR filter disable – 0xffff - IIR filter enable
pStageCnt	• Stage Count – 0-4
pStage0Val	• A 20 BYTE sized parameter indicating Stage 0 value – A1 – A2 – B0 – B1 – B2

pStage1Val	• A 20 BYTE sized parameter indicating Stage 1 value – A1 – A2 – B0 – B1 – B2
pStage2Val	• A 20 BYTE sized parameter indicating Stage 2 value – A1 – A2 – B0 – B1 – B2
pStage3Val	• A 20 BYTE sized parameter indicating Stage 3 value – A1 – A2 – B0 – B1 – B2
pStage4Val	• A 20 BYTE sized parameter indicating Stage 4 value – A1 – A2 – B0 – B1 – B2

8.1082.2 Field Documentation

8.1082.2.1 WORD* TXPCMIIRFItr::pFlag

8.1082.2.2 BYTE* TXPCMIIRFItr::pStage0Val

8.1082.2.3 BYTE* TXPCMIIRFItr::pStage1Val

8.1082.2.4 BYTE* TXPCMIIRFItr::pStage2Val

8.1082.2.5 BYTE* TXPCMIIRFItr::pStage3Val

8.1082.2.6 BYTE* TXPCMIIRFItr::pStage4Val

8.1082.2.7 WORD* TXPCMIIRFItr::pStageCnt

8.1083 uim_appStatus Struct Reference

Data Fields

- uint8_t appType
- uint8_t appState
- uint8_t persoState
- uint8_t persoFeature
- uint8_t persoRetries
- uint8_t persoUnblockRetries
- uint8_t aidLength
- uint8_t aidVal [255]
- uint8_t univPin
- uint8_t pin1State
- uint8_t pin1Retries
- uint8_t puk1Retries
- uint8_t pin2State
- uint8_t pin2Retries
- uint8_t puk2Retries

8.1083.1 Detailed Description

This structure contains Application Status Information loaded on the card.

Parameters

appType	• Indicates the type of the application. – 0 - Unknown – 1 - SIM card – 2 - USIM application – 3 - RUIM card – 4 - CSIM application – 5 - ISIM application • Other values are reserved for the future and are to be handled as "Unknown".
appState	• Indicates the state of the application. – 0 - Unknown – 1 - Detected – 2 - PIN1 or UPIN is required – 3 - PUK1 or PUK for UPIN is required – 4 - Personalization state must be checked – 5 - PIN1 is blocked – 6 - Illegal – 7 - Ready
persoState	• Indicates the state of the personalization for the application. – 0 - Unknown – 1 - Personalization operation is in progress – 2 - Ready – 3 - Personalization code is required – 4 - PUK for personalization code is required – 5 - Permanently blocked

persoFeature	• Indicates the personalization feature. • This applies only when a personalization code is required to deactivate or unblock personalization. – 0 - GW network personalization – 1 - GW network subset personalization – 2 - GW service provider personalization – 3 - GW corporate personalization – 4 - GW UIM personalization – 5 - 1X network type 1 personalization – 6 - 1X network type 2 personalization – 7 - 1X HRPD personalization – 8 - 1X service provider personalization – 9 - 1X corporate personalization – 10 - 1X RUIM personalization – 11 - Unknown
persoRetries	• Indicates the number of retries remaining to disable the personalization.
persoUnblockRetries	• Indicates the number of retries remaining to unblock the personalization.
aidLength	• Number of sets of the following elements. i.e. aidVal • If zero(0) then no aidVal information exists.
aidVal[MAX_DESCRIPTION_LENGTH]	• Application identifier value.
univPin	• Indicates whether UPIN replaces PIN1. – 0 - PIN1 is used – 1 - UPIN replaces PIN1
pin1State	• Indicates the state of PIN1. – 0 - Unknown – 1 - Enabled and not verified – 2 - Enabled and verified – 3 - Disabled – 4 - Blocked – 5 - Permanently blocked
pin1Retries	• Indicates the number of retries remaining to verify PIN1.
puk1Retries	• Indicates the number of retries remaining to unblock PIN1.

pin2State	• Indicates the state of PIN2. – 0 - Unknown – 1 - Enabled and not verified – 2 - Enabled and verified – 3 - Disabled – 4 - Blocked – 5 - Permanently blocked
pin2Retries	• Indicates the number of retries remaining to verify PIN2.
puk2Retries	• Indicates the number of retries remaining to unblock PIN2.

8.1083.2 Field Documentation

8.1083.2.1 uint8_t uim_appStatus::aidLength

8.1083.2.2 uint8_t uim_appStatus::aidVal[255]

8.1083.2.3 uint8_t uim_appStatus::appState

8.1083.2.4 uint8_t uim_appStatus::appType

8.1083.2.5 uint8_t uim_appStatus::persoFeature

8.1083.2.6 uint8_t uim_appStatus::persoRetries

8.1083.2.7 uint8_t uim_appStatus::persoState

8.1083.2.8 uint8_t uim_appStatus::persoUnblockRetries

8.1083.2.9 uint8_t uim_appStatus::pin1Retries

8.1083.2.10 uint8_t uim_appStatus::pin1State

8.1083.2.11 uint8_t uim_appStatus::pin2Retries

8.1083.2.12 uint8_t uim_appStatus::pin2State

8.1083.2.13 uint8_t uim_appStatus::puk1Retries

8.1083.2.14 uint8_t uim_appStatus::puk2Retries

8.1083.2.15 uint8_t uim_appStatus::univPin

8.1084 uim_authenticateResult Struct Reference

Data Fields

- uint16_t contentLen

- uint8_t content [1024]

8.1084.1 Detailed Description

This structure contains the information about the authenticate result.

Parameters

contentLen	• Length of the following elements i.e. content.
content[UIM_MAX_CONTENT_LENGTH]	• Authenticate data. • This value is a sequence of bytes returned from the card.

8.1084.2 Field Documentation

8.1084.2.1 uint8_t uim_authenticateResult::content[1024]

8.1084.2.2 uint16_t uim_authenticateResult::contentLen

8.1085 uim_authenticationData Struct Reference

Data Fields

- uint8_t context
- uint16_t dataLen
- uint8_t data [1024]

8.1085.1 Detailed Description

This structure contains the Session Information.

Parameters

context	• Authenticate context. – 0 - Runs the GSM algorithm (valid only on a 2GSIM card) – 1 - Runs the CAVE algorithm (valid only on a RUIM card) – 2 - GSM security context (valid only on a USIM application) – 3 - 3G security context (valid only on a USIM application) – 4 - VGCS/VBS security context (valid only on aUSIM application) – 5 - GBA security context, Bootstrapping mode (valid only on a USIM or ISIM application) – 6 - GBA security context, NAF Derivation mode (valid only on a USIM or ISIM application) – 7 - MBMS security context, MSK Update mode (valid only on a USIM application) – 8 - MBMS security context, MTK Generation mode (valid only on a USIM application) – 9 - MBMS security context, MSK Deletion mode (valid only on a USIM application) – 10 - MBMS security context, MUK Deletion mode (valid only on a USIM application) – 11 - IMS AKA security context (valid only on aISIM application) – 12 - HTTP-digest security context (valid only onan ISIM application) – 13 - Compute IP authentication, CHAP (valid onlyon RUIM or CSIM) – 14 - Compute IP authentication, MN-HA authenticator (valid only on RUIM or CSIM) – 15 - Compute IP authentication, MIP-RRQ hash (valid only on RUIM or CSIM) – 16 - Compute IP authentication, MN-AAA authenticator (valid only on RUIM or CSIM) – 17 - Compute IP authentication, HRPD access authenticator (valid only on RUIM or CSIM) • Other values are possible and reserved for future use.
dataLen	• Length of the following elements i.e. data.
data[UIM_MAX_DESCRIPTION_LENGTH]	• Authenticate Data.

8.1085.2 Field Documentation

8.1085.2.1 uint8_t uim_authenticationData::context

8.1085.2.2 uint8_t uim_authenticationData::data[1024]

8.1085.2.3 uint16_t uim_authenticationData::dataLen

8.1086 uim_cardResult Struct Reference

Data Fields

- uint8_t sw1
- uint8_t sw2

8.1086.1 Detailed Description

This structure contains the information about the card result.

Parameters

sw1	• SW1 received from the card.
sw2	• SW2 received from the card.

8.1086.2 Field Documentation

8.1086.2.1 uint8_t uim_cardResult::sw1

8.1086.2.2 uint8_t uim_cardResult::sw2

8.1087 uim_cardStatus Struct Reference

Data Fields

- uint16_t indexGwPri
- uint16_t index1xPri
- uint16_t indexGwSec
- uint16_t index1xSec
- uint8_t numSlot
- uim_slotInfo SlotInfo [5]

8.1087.1 Detailed Description

This structure contains Card Status Information.

Parameters

indexGwPri	• Index of the primary GW provisioning application. • The most significant byte indicates the slot (starting from 0), while the least significant byte indicates the application for that slot (starting from 0). • The value 0xFFFF identifies when the session does not exist.
index1xPri	• Index of the primary 1X provisioning application. • The most significant byte indicates the slot (starting from 0), while the least significant byte indicates the application for that slot (starting from 0). • The value 0xFFFF identifies when the session does not exist.
indexGwSec	• Index of the secondary GW provisioning application. • The most significant byte indicates the slot (starting from 0), while the least significant byte indicates the application for that slot (starting from 0). • The value 0xFFFF identifies when the session does not exist.

index1xSec	• Index of the secondary GW provisioning application. • The most significant byte indicates the slot (starting from 0), while the least significant byte indicates the application for that slot (starting from 0). • The value 0xFFFF identifies when the session does not exist.
numSlot	• Indicates the number of slots available on the device. • The following block is repeated for each slot. i.e. cardState • If zero(0) then no cardState information exists.
SlotInfo	• See uim_slotInfo for more information.

8.1087.2 Field Documentation

8.1087.2.1 uint16_t uim_cardStatus::index1xPri

8.1087.2.2 uint16_t uim_cardStatus::index1xSec

8.1087.2.3 uint16_t uim_cardStatus::indexGwPri

8.1087.2.4 uint16_t uim_cardStatus::indexGwSec

8.1087.2.5 uint8_t uim_cardStatus::numSlot

8.1087.2.6 uim_slotInfo uim_cardStatus::SlotInfo[5]

8.1088 uim_changeUIMPIN Struct Reference

Data Fields

- uint8_t pinID
- uint8_t oldPINLen
- uint8_t oldPINVal [255]
- uint8_t pinLen
- uint8_t pinVal [255]

8.1088.1 Detailed Description

This structure contains the information about the pin parameters that need to be verified.

Parameters

pinID	• Indicates the PIN ID to be changed. – 1 - PIN1 (also called PIN) – 2 - PIN2 – 3 - Universal PIN – 4 - Hidden key

oldPINLen	• Length of the following elements i.e. old pin value.
oldPINVal[MAX_DESCRIPTION_LENGTH]	• Old PIN value. • This value is a sequence of ASCII characters.
pinLen	• Length of the following elements i.e. new pin value.
pinVal[MAX_DESCRIPTION_LENGTH]	• New PIN value. • This value is a sequence of ASCII characters.

8.1088.2 Field Documentation

8.1088.2.1 uint8_t uim_changeUIMPIN::oldPINLen

8.1088.2.2 uint8_t uim_changeUIMPIN::oldPINVal[255]

8.1088.2.3 uint8_t uim_changeUIMPIN::pinID

8.1088.2.4 uint8_t uim_changeUIMPIN::pinLen

8.1088.2.5 uint8_t uim_changeUIMPIN::pinVal[255]

8.1089 uim_depersonalizationInformation Struct Reference

Data Fields

- uint8_t feature
- uint8_t operation
- uint8_t ckLen
- uint8_t ckVal [255]

8.1089.1 Detailed Description

This structure contains the Depersonalization Information.

Parameters

feature	• Indicates the personalization feature to de-activate or unblock. – 0 - GW network personalization – 1 - GW network subset personalization – 2 - GW service provider personalization – 3 - GW corporate personalization – 4 - GW UIM personalization – 5 - 1X network type 1 personalization – 6 - 1X network type 2 personalization – 7 - 1X HRPD personalization – 8 - 1X service provider personalization – 9 - 1X corporate personalization – 10 - 1X RUIM personalization
operation	• Indicates the operation to perform. – 0 - Deactivate personalization. – 1 - Unblock personalization.
ckLen	• Length of the following elements i.e. control key value.
ckVal[MAX_DESCRIPTION_LENGTH]	• Control key value. • This value is a sequence of ASCII characters.

8.1089.2 Field Documentation

8.1089.2.1 uint8_t uim_depersonalizationInformation::ckLen

8.1089.2.2 uint8_t uim_depersonalizationInformation::ckVal[255]

8.1089.2.3 uint8_t uim_depersonalizationInformation::feature

8.1089.2.4 uint8_t uim_depersonalizationInformation::operation

8.1090 uim_encryptedPIN1 Struct Reference

Data Fields

- uint8_t pin1Len
- uint8_t pin1Val [255]

8.1090.1 Detailed Description

This structure contains the encrypted PIN1 Information.

Parameters

pin1Len	• Number of sets of the following elements ie encrypted PIN1 value. • If zero(0), no information follows.
pin1Val	• Encrypted PIN1 value.

Note

This value is returned only when PIN1 is enabled successfully and the feature is supported.

8.1090.2 Field Documentation

8.1090.2.1 uint8_t uim_encryptedPIN1::pin1Len

8.1090.2.2 uint8_t uim_encryptedPIN1::pin1Val[255]

8.1091 uim_fileAttributes Struct Reference

Data Fields

- uint16_t fileSize
- uint16_t fileID
- uint8_t fileType
- uint16_t recordSize
- uint16_t recordCount
- uint8_t secRead
- uint16_t secReadMask
- uint8_t secWrite
- uint16_t secWriteMask
- uint8_t secIncrease
- uint16_t secIncreaseMask
- uint8_t secDeactivate
- uint16_t secDeactivateMask
- uint8_t secActivate
- uint16_t secActivateMask
- uint16_t rawLen
- uint8_t rawValue [255]

8.1091.1 Detailed Description

This structure contains the information about the File Attributes.

Parameters

fileSize	• Indicates the size of the file.
fileID	• Indicates the ID of the file.

fileType	• Indicates the type of the file. – 0 - Transparent – 1 - Cyclic – 2 - Linear fixed – 3 - Dedicated file – 4 - Master file
recordSize	• Indicates the size of the records. • Only for cyclic and linear fixed files
recordCount	• Indicates the total no. of the records. • Only for linear fixed files
secRead	• Read security attributes. – 0 - Always – 1 - Never – 2 - AND condition – 3 - OR condition – 4 - Single condition
secReadMask	• Mask with read security attributes. • This field is valid only when required by security attributes. – Bit 0 - PIN1 – Bit 1 - PIN2 – Bit 2 - UPIN – Bit 3 - ADM
secWrite	• Write security attributes. – 0 - Always – 1 - Never – 2 - AND condition – 3 - OR condition – 4 - Single condition
secWriteMask	• Mask with write security attributes. • This field is valid only when required by security attributes. – Bit 0 - PIN1 – Bit 1 - PIN2 – Bit 2 - UPIN – Bit 3 - ADM

secIncrease	• Increase security attributes. – 0 - Always – 1 - Never – 2 - AND condition – 3 - OR condition – 4 - Single condition
secIncrease-Mask	• Mask with increase security attributes. • This field is valid only when required by security attributes. – Bit 0 - PIN1 – Bit 1 - PIN2 – Bit 2 - UPIN – Bit 3 - ADM
secDeactivate	• Deactivate security attributes. – 0 - Always – 1 - Never – 2 - AND condition – 3 - OR condition – 4 - Single condition
secDeactivate-Mask	• Mask with deactivate security attributes. • This field is valid only when required by security attributes. – Bit 0 - PIN1 – Bit 1 - PIN2 – Bit 2 - UPIN – Bit 3 - ADM
secActivate	• Activate security attributes. – 0 - Always – 1 - Never – 2 - AND condition – 3 - OR condition – 4 - Single condition
secActivateMask	• Mask with activate security attributes. • This field is valid only when required by security attributes. – Bit 0 - PIN1 – Bit 1 - PIN2 – Bit 2 - UPIN – Bit 3 - ADM
rawLen	• Length of the following elements i.e. raw value.

rawValue[MAX_-DESCRIPTION-_LENGTH]	• Raw value of file attributes.

8.1091.2 Field Documentation

8.1091.2.1 uint16_t uim_fileAttributes::fileID

8.1091.2.2 uint16_t uim_fileAttributes::fileSize

8.1091.2.3 uint8_t uim_fileAttributes::fileType

8.1091.2.4 uint16_t uim_fileAttributes::rawLen

8.1091.2.5 uint8_t uim_fileAttributes::rawValue[255]

8.1091.2.6 uint16_t uim_fileAttributes::recordCount

8.1091.2.7 uint16_t uim_fileAttributes::recordSize

8.1091.2.8 uint8_t uim_fileAttributes::secActivate

8.1091.2.9 uint16_t uim_fileAttributes::secActivateMask

8.1091.2.10 uint8_t uim_fileAttributes::secDeactivate

8.1091.2.11 uint16_t uim_fileAttributes::secDeactivateMask

8.1091.2.12 uint8_t uim_fileAttributes::secIncrease

8.1091.2.13 uint16_t uim_fileAttributes::secIncreaseMask

8.1091.2.14 uint8_t uim_fileAttributes::secRead

8.1091.2.15 uint16_t uim_fileAttributes::secReadMask

8.1091.2.16 uint8_t uim_fileAttributes::secWrite

8.1091.2.17 uint16_t uim_fileAttributes::secWriteMask

8.1092 uim_fileInfo Struct Reference

Data Fields

- uint16_t fileID
- uint8_t pathLen
- uint16_t path [255]

8.1092.1 Detailed Description

This structure contains paramaters for file Information

Parameters

fileID	• This is Identifier to SIM files; e.g. in UIM "6F07" is Identifier of IMSI File
pathLen	• Length of file Path
path	• Path value. This value must be the complete path of the file, which is a sequence block of 2 bytes (e.g., 0x3F00 0x7FFF) is for LTE (0x3F00 ,0x7F20) is for GSM.

8.1092.2 Field Documentation

8.1092.2.1 uint16_t uim_fileInfo::fileID

8.1092.2.2 uint16_t uim_fileInfo::path[255]

8.1092.2.3 uint8_t uim_fileInfo::pathLen

8.1093 uim_hotSwapStatus Struct Reference

Data Fields

- uint8_t hotSwapLength
- uint8_t hotSwap [255]

8.1093.1 Detailed Description

This structure contains Hot Swap Status Information.

Parameters

hotSwapLength	• Number of sets of the following elements. i.e. hot_swap
hotSwap	• Indicates the status of the hot-swap switch. – 0 - Hot-swap is not supported – 1 - Hot-swap is supported, but the status of the switch is not supported – 2 - Switch indicates that the card is present – 3 - Switch indicates that the card is not present

8.1093.2 Field Documentation

8.1093.2.1 uint8_t uim_hotSwapStatus::hotSwap[255]

8.1093.2.2 uint8_t uim_hotSwapStatus::hotSwapLength

8.1094 uim_personalizationStatus Struct Reference

Data Fields

- uint8_t numFeatures
- uint8_t feature [12]
- uint8_t verifyLeft [12]
- uint8_t unblockLeft [12]

8.1094.1 Detailed Description

This structure contains the information about the card result.

Parameters

numFeatures	• Number of active personalization features. The following block is repeated for each feature.
feature	• Indicates the personalization feature to deactivate or unblock. Valid values: – 0 - GW network personalization – 1 - GW network subset personalization – 2 - GW service provider personalization – 3 - GW corporate personalization – 4 - GW UIM personalization – 5 - 1X network type 1 personalization – 6 - 1X network type 2 personalization – 7 - 1X HRPD personalization – 8 - 1X service provider personalization – 9 - 1X corporate personalization – 10 - 1X RUIM personalization
verifyLeft	• Number of the remaining attempts to verify the personalization feature.
unblockLeft	• Number of the remaining attempts to unblock the personalization feature.

8.1094.2 Field Documentation

8.1094.2.1 uint8_t uim_personalizationStatus::feature[12]

8.1094.2.2 uint8_t uim_personalizationStatus::numFeatures

8.1094.2.3 uint8_t uim_personalizationStatus::unblockLeft[12]

8.1094.2.4 uint8_t uim_personalizationStatus::verifyLeft[12]

8.1095 uim_readResult Struct Reference

Data Fields

- uint16_t contentLen
- uint8_t content [255]

8.1095.1 Detailed Description

This structure contains the information for write operation.

Parameters

contentLen	• Number of sets of content.
content[255]	• Read content. • The content is the sequence of bytes as read from the card.

8.1095.2 Field Documentation

8.1095.2.1 uint8_t uim_readResult::content[255]

8.1095.2.2 uint16_t uim_readResult::contentLen

8.1096 uim_readTransparentInfo Struct Reference

Data Fields

- uint16_t offset
- uint16_t length

8.1096.1 Detailed Description

This structure contains the information for read operation.

Parameters

offset	• Offset for the read operation.
length	• Length of the content to be read. • The value 0 is used to read the complete file.

8.1096.2 Field Documentation

8.1096.2.1 uint16_t uim_readTransparentInfo::length

8.1096.2.2 uint16_t uim_readTransparentInfo::offset

8.1097 uim_refreshevent Struct Reference

Data Fields

- uint8_t stage
- uint8_t mode

- uint8_t sessionType
- uint8_t aidLength
- uint8_t aid [255]
- uint16_t numOfFiles
- uim_fileInfo arrfileInfo [255]

8.1097.1 Detailed Description

This structure contains information of parameters associated with the Refresh Event.

Parameters

stage	• Indicates the stage of the Refresh procedure. – 0 - Waiting for OK to refresh – 1 - Refresh started – 2 - Refresh ended successfully – 3 - Refresh failed
mode	• Indicates the Refresh mode. – 0 - Reset – 1 - Init – 2 - Init and FCN – 3 - FCN – 4 - Init and Full FCN – 5 - Application reset – 6 - 3G session reset
sessionType	• Indicates the session type. – 0 - Primary GW provisioning – 1 - Primary 1X provisioning – 2 - Secondary GW provisioning – 3 - Secondary 1X provisioning – 4 - Nonprovisioning on slot 1 – 5 - Nonprovisioning on slot 2 – 6 - Card on slot 1 – 7 - Card on slot 2 – 8 - Logical channel on slot 1 – 9 - Logical channel on slot 2
aidLength	• Number of sets of the following elements – Application Identifier
aid	• Application identifier value or channel ID. This value is required for non-provisioning and for logical channel session types. It is ignored in all other cases

numFiles	• Number of sets of the following elements: – file_id – path_len – path
arrfileInfo	• Array of file Information struct

8.1097.2 Field Documentation

8.1097.2.1 uint8_t uim_refreshevent::aid[255]

8.1097.2.2 uint8_t uim_refreshevent::aidLength

8.1097.2.3 uim_fileInfo uim_refreshevent::arrfileInfo[255]

8.1097.2.4 uint8_t uim_refreshevent::mode

8.1097.2.5 uint16_t uim_refreshevent::numOfFiles

8.1097.2.6 uint8_t uim_refreshevent::sessionType

8.1097.2.7 uint8_t uim_refreshevent::stage

8.1098 uim_registerRefresh Struct Reference

Data Fields

- uint8_t registerFlag
- uint8_t voteForInit
- uint16_t numFiles
- uim_fileInfo arrfileInfo [255]

8.1098.1 Detailed Description

This structure contains parameters of refresh Information

Parameters

registerFlag	• Flag that indicates whether to register or deregister for refresh indications. Valid values: – 0 - Deregister – 1 - Register
voteForInit	• Flag that indicates whether to vote for the init when there is a refresh. Valid values: – 0 - Client does not vote for initialization – 1 - Client votes for initialization

numFiles	• Number of sets of the following elements: – file_id – path_len – path
arrfileInfo	• Array of file Information structure. • See uim_fileInfo for more information

8.1098.2 Field Documentation

8.1098.2.1 uim_fileInfo uim_registerRefresh::arrfileInfo[255]

8.1098.2.2 uint16_t uim_registerRefresh::numFiles

8.1098.2.3 uint8_t uim_registerRefresh::registerFlag

8.1098.2.4 uint8_t uim_registerRefresh::voteForInit

8.1099 uim_remainingRetries Struct Reference

Data Fields

- uint8_t verifyLeft
- uint8_t unblockLeft

8.1099.1 Detailed Description

This structure contains the information about the retries remaining.

Parameters

verifyLeft	• Number of remaining attempts to verify the PIN. • 0xFF, if unavailable.
unblockLeft	• Number of remaining attempts to unblock the PIN. • 0xFF, if unavailable.

Note

This value is returned only when the enable/disable operation has failed. This information is not sent for a hidden key PIN type.

8.1099.2 Field Documentation

8.1099.2.1 uint8_t uim_remainingRetries::unblockLeft

8.1099.2.2 uint8_t uim_remainingRetries::verifyLeft

8.1100 uim_sessionInformation Struct Reference

Data Fields

- uint8_t sessionType
- uint8_t aidLength
- uint8_t aid [255]

8.1100.1 Detailed Description

This structure contains the Session Information.

Parameters

sessionType	• Indicates the session type. – 0 - Primary GW provisioning – 1 - Primary 1X provisioning – 2 - Secondary GW provisioning – 3 - Secondary 1X provisioning – 4 - Non-provisioning on slot 1 – 5 - Non-provisioning on slot 2 – 6 - Card on slot 1 – 7 - Card on slot 2 – 8 - Logical channel on slot 1 – 9 - Logical channel on slot 2
aidLength	• Length of the following elements i.e. Application Identifier.
aid	• Application identifier value or channel ID. • This value is required for non-provisioning and for logical channel session types. It is ignored in all other cases.

8.1100.2 Field Documentation

8.1100.2.1 uint8_t uim_sessionInformation::aid[255]

8.1100.2.2 uint8_t uim_sessionInformation::aidLength

8.1100.2.3 uint8_t uim_sessionInformation::sessionType

8.1101 uim_setPINProtection Struct Reference

Data Fields

- uint8_t pinID
- uint8_t pinOperation

- uint8_t pinLength
- uint8_t pinValue [255]

8.1101.1 Detailed Description

This structure contains the information about the pin protection parameters that need to be set.

Parameters

pinID	• Indicates the PIN ID to be enabled or disabled. – 1 - PIN1 (also called PIN) – 2 - PIN2 – 3 - Universal PIN – 4 - Hidden key
pinOperation	• Indicates whether the PIN is enabled or disabled. – 0 - Disable the PIN – 1 - Enable the PIN
pinLength	• Length of the following elements i.e. pin value.
pinValue[MAX_-DESCRIPTION-_LENGTH]	• PIN value. • This value is a sequence of ASCII characters.

8.1101.2 Field Documentation

8.1101.2.1 uint8_t uim_setPINProtection::pinID

8.1101.2.2 uint8_t uim_setPINProtection::pinLength

8.1101.2.3 uint8_t uim_setPINProtection::pinOperation

8.1101.2.4 uint8_t uim_setPINProtection::pinValue[255]

8.1102 uim_slotInfo Struct Reference

Data Fields

- uint8_t cardState
- uint8_t upinState
- uint8_t upinRetries
- uint8_t upukRetries
- uint8_t errorState
- uint8_t numApp
- uim_appStatus AppStatus [10]

8.1102.1 Detailed Description

This structure contains information about the SLOTS present.

Parameters

cardState	• Indicates the state of the card for each slot. – 0 - Absent – 1 - Present – 2 - Error
upinState	• Indicates the state of UPIN. – 0 - Unknown – 1 - Enabled and not verified – 2 - Enabled and verified – 3 - Disabled – 4 - Blocked – 5 - Permanently blocked – 0xFF - Not Available
upinRetries	• Indicates the number of retries remaining to verify the UPIN. • If 0xFF, information not available.
upukRetries	• Indicates the number of retries remaining to unblock the UPIN. • If 0xFF, information not available.
errorState	• Indicates the reason for the card error, and is valid only when the card state is Error – 0 - Unknown – 1 - Power down – 2 - Poll error – 3 - No ATR received – 4 - Volt mismatch – 5 - Parity error – 6 - Unknown; possibly removed – 7 - Card returned technical problems – 0xFF - Not Available • Other values are possible and reserved for future use. • When an unknown value is received, it is to be handled as "Unknown".
numApp	• Indicates the number of applications available on the card. • The following block is repeated for each application. i.e. AppStatus. • If zero(0) then no AppStatus information exists.
AppStatus	• See uim_appStatus for more information.

8.1102.2 Field Documentation

8.1102.2.1 uim_appStatus uim_slotInfo::AppStatus[10]

8.1102.2.2 uint8_t uim_slotInfo::cardState

8.1102.2.3 uint8_t uim_slotInfo::errorState

8.1102.2.4 uint8_t uim_slotInfo::numApp

8.1102.2.5 uint8_t uim_slotInfo::upinRetries

8.1102.2.6 uint8_t uim_slotInfo::upinState

8.1102.2.7 uint8_t uim_slotInfo::upukRetries

8.1103 uim_UIMSessionInformation Struct Reference

Data Fields

- uint8_t sessionType
- uint8_t aidLength
- uint8_t aid [255]

8.1103.1 Detailed Description

This structure contains the Session Information.

Parameters

sessionType	• Indicates the session type. – 0 - Primary GW provisioning – 1 - Primary 1X provisioning – 2 - Secondary GW provisioning – 3 - Secondary 1X provisioning – 4 - Non-provisioning on slot 1 – 5 - Non-provisioning on slot 2 – 6 - Card on slot 1 – 7 - Card on slot 2 – 8 - Logical channel on slot 1 – 9 - Logical channel on slot 2
aidLength	• Length of the following elements i.e. Application Identifier.
aid	• Application identifier value or channel ID. • This value is required for non-provisioning and for logical channel session types. It is ignored in all other cases.

8.1103.2 Field Documentation

8.1103.2.1 uint8_t uim_UIMSessionInformation::aid[255]

8.1103.2.2 uint8_t uim_UIMSessionInformation::aidLength

8.1103.2.3 uint8_t uim_UIMSessionInformation::sessionType

8.1104 uim_unblockUIMPIN Struct Reference

Data Fields

- uint8_t pinID
- uint8_t pukLen
- uint8_t pukVal [255]
- uint8_t newPINLen
- uint8_t newPINVal [255]

8.1104.1 Detailed Description

This structure contains the information about the unblock pin parameters.

Parameters

pinID	• Indicates the PIN ID to be changed. – 1 - PIN1 (also called PIN) – 2 - PIN2 – 3 - Universal PIN
pukLen	• Length of the following elements i.e. puk value.
pukVal[UIM_MAX_DESCRIPTION_LENGTH]	• PIN Unlock Key value. • This value is a sequence of ASCII characters.
newPINLen	• Length of the following elements i.e. new pin value.
newPINVal[UIM_MAX_DESCRIPTION_LENGTH]	• New PIN value. • This value is a sequence of ASCII characters.

8.1104.2 Field Documentation

8.1104.2.1 uint8_t uim_unblockUIMPIN::newPINLen

8.1104.2.2 uint8_t uim_unblockUIMPIN::newPINVal[255]

8.1104.2.3 uint8_t uim_unblockUIMPIN::pinID

8.1104.2.4 uint8_t uim_unblockUIMPIN::pukLen

8.1104.2.5 uint8_t uim_unblockUIMPIN::pukVal[255]

8.1105 uim_verifyUIMPIN Struct Reference

Data Fields

- uint8_t pinID
- uint8_t pinLen
- uint8_t pinVal [255]

8.1105.1 Detailed Description

This structure contains the information about the pin parameters that need to be verified.

Parameters

pinID	• Indicates the PIN ID to be verified. – 1 - PIN1 (also called PIN) – 2 - PIN2 – 3 - Universal PIN – 4 - Hidden key
pinLen	• Length of the following elements i.e. pin value.
pinVal[MAX_DESCRIPTION_LENGTH]	• PIN value. • This value is a sequence of ASCII characters.

8.1105.2 Field Documentation

8.1105.2.1 uint8_t uim_verifyUIMPIN::pinID

8.1105.2.2 uint8_t uim_verifyUIMPIN::pinLen

8.1105.2.3 uint8_t uim_verifyUIMPIN::pinVal[255]

8.1106 UIMAuthenticateReq Struct Reference

Data Fields

- UIMSessionInformation sessionInfo
- authenticationData authData
- ULONG * pIndicationToken

8.1106.1 Detailed Description

This structure contains information of the request parameters associated with a Authenticate API.

Parameters

sessionInfo	• See UIMSessionInformation for more information.
authData	• See authenticationData for more information.
pIndication-Token(optional)	• Response in Indication. • When this TLV is present, it indicates that the result must be provided in a subsequent indication.

Note

Using NULL for the pointers would make sure that the parameter is not added to the request.

8.1106.2 Field Documentation

8.1106.2.1 authenticationData UIMAuthenticateReq::authData

8.1106.2.2 ULONG* UIMAuthenticateReq::pIndicationToken

8.1106.2.3 UIMSessionInformation UIMAuthenticateReq::sessionInfo

8.1107 UIMAuthenticateResp Struct Reference

Data Fields

- cardResult * pCardResult
- authenticateResult * pAuthenticateResult
- ULONG * pIndicationToken

8.1107.1 Detailed Description

This structure contains information of the response parameters associated with a Authenticate API.

Parameters

pCard-Result(optional)	• See cardResult for more information.
pAuthenticate-Result(optional)	• See authenticateResult for more information.
pIndication-Token(optional)	• Response in Indication. • When this TLV is present, it indicates that the result must be provided in a subsequent indication.

Note

Using NULL for the pointers would make sure that the parameter is not returned.

8.1107.2 Field Documentation

8.1107.2.1 authenticateResult* UIMAuthenticateResp::pAuthenticateResult

8.1107.2.2 cardResult* UIMAuthenticateResp::pCardResult

8.1107.2.3 ULONG* UIMAuthenticateResp::pIndicationToken

8.1108 UIMChangePinReq Struct Reference

Data Fields

- UIMSessionInformation sessionInfo
- changeUIMPIN changePIN
- BYTE * pKeyReferenceID
- ULONG * pIndicationToken

8.1108.1 Detailed Description

This structure contains information of the request parameters associated with a Change PIN API.

Parameters

sessionInfo	• See UIMSessionInformation for more information.
changePIN	• See changeUIMPIN for more information.
pKeyReferenceID(optional)	• Indicates the PIN key reference ID. • Indicates the PIN key reference ID. Valid values are from 1 to 8, respectively, for application 1 to application 8. • This TLV is used only for PIN1 and PIN2 and is ignored in all other cases.
pIndicationToken(optional)	• Response in Indication. • When this TLV is present, it indicates that the result must be provided in a subsequent indication.

Note

Using NULL for the pointers would make sure that the parameter is not added to the request.

8.1108.2 Field Documentation

8.1108.2.1 changeUIMPIN UIMChangePinReq::changePIN

8.1108.2.2 ULONG* UIMChangePinReq::pIndicationToken

8.1108.2.3 BYTE* UIMChangePinReq::pKeyReferenceID

8.1108.2.4 UIMSessionInformation UIMChangePinReq::sessionInfo

8.1109 UIMDepersonalizationReq Struct Reference

Data Fields

- depersonalizationInformation depersonilisationInfo

8.1109.1 Detailed Description

This structure contains information of the request parameters associated with a Depersonalization API.

Parameters

depersonilisation-Info	• See depersonalizationInformation for more information.

8.1109.2 Field Documentation

8.1109.2.1 depersonalizationInformation UIMDepersonalizationReq::depersonilisationInfo

8.1110 UIMDepersonalizationResp Struct Reference

Data Fields

- remainingRetries * pRemainingRetries

8.1110.1 Detailed Description

This structure contains information of the response parameters associated with a Depersonalization API.

Parameters

pRemaining-Retries(optional)	• See remainingRetries for more information.

Note

Using NULL for the pointers would make sure that the parameter is not returned.

8.1110.2 Field Documentation

8.1110.2.1 remainingRetries* UIMDepersonalizationResp::pRemainingRetries

8.1111 UIMEventRegisterReqResp Struct Reference

Data Fields

- ULONG eventMask

8.1111.1 Detailed Description

This structure contains information of the request parameters associated with a SLQSUIMEventRegister.

Parameters

eventMask(-Mandatory)	• Bitmask of the events that were successfully enabled. This result can be different from the mask used in the request when notifications are not supported. Additional bits are reserved for future use. – Bit 0 - Card status – Bit 1 - SAP connection – Bit 4 - Physical Slot Status

8.1111.2 Field Documentation

8.1111.2.1 ULONG UIMEventRegisterReqResp::eventMask

8.1112 UIMGetCardStatusResp Struct Reference

Data Fields

- cardStatus ∗ pCardStatus
- hotSwapStatus ∗ pHotSwapStatus

8.1112.1 Detailed Description

This structure contains information of the response parameters associated with a Get Card Status API.

Parameters

pCard-Status(optional)	• See cardStatus for more information.
pHotSwap-Status(optional)	• See hotSwapStatus for more information.

Note

Using NULL for the pointers would make sure that the parameter is not returned.

8.1112.2 Field Documentation

8.1112.2.1 cardStatus∗ UIMGetCardStatusResp::pCardStatus

8.1112.2.2 hotSwapStatus∗ UIMGetCardStatusResp::pHotSwapStatus

8.1113 UIMGetConfigurationReq Struct Reference

Data Fields

- ULONG ∗ pConfigurationMask

8.1113.1 Detailed Description

This structure contains information of the request parameters associated with to gets the modem configuration for the UIM module API.

Parameters

pConfiguration-Mask(optional)	• Requested configurations – Bit 0 - Automatic selection – Bit 1 - Personalization status – Bit 2 - Halt subscription – All other bits are reserved for future use

Note

- if the TLV is missing, the service returns all configuration items in the response.

8.1113.2 Field Documentation

8.1113.2.1 ULONG∗ UIMGetConfigurationReq::pConfigurationMask

8.1114 UIMGetConfigurationResp Struct Reference

Data Fields

- BYTE ∗ pAutoSelection
- personalizationStatus ∗ pPersonalizationStatus
- BYTE ∗ pHaltSubscription

8.1114.1 Detailed Description

This structure contains information of the response parameters associated with a Read Transparent API.

Parameters

pAuto-Selection(optional)	• Indicates whether the modem is configured to automatically select the provisioning sessions at powerup. • Valid values – 0 - Automatic provisioning is off – 1 - Automatic provisioning is on
p-Personalization-Status(optional)	• See personalizationStatus for more information.
pHalt-Subscription(optional)	• Indicates if the modem is configured to publish the subscription after successful initialization. • Valid values – 0 - Modem proceeds with publishing the subscription – 1 - Modem does not publish the subscription

8.1114.2 Field Documentation

8.1114.2.1 BYTE* UIMGetConfigurationResp::pAutoSelection

8.1114.2.2 BYTE* UIMGetConfigurationResp::pHaltSubscription

8.1114.2.3 personalizationStatus* UIMGetConfigurationResp::pPersonalizationStatus

8.1115 UIMGetFileAttributesReq Struct Reference

Data Fields

- UIMSessionInformation sessionInfo
- fileInfo fileIndex
- ULONG * pIndicationToken

8.1115.1 Detailed Description

This structure contains information of the request parameters associated with a Get File Attributes API.

Parameters

sessionInfo	• See UIMSessionInformation for more information.
fileIndex	• See fileInfo for more information.
pIndication-Token(optional)	• Response in Indication. • When this TLV is present, it indicates that the result must be provided in a subsequent indication.

Note

Using NULL for the pointers would make sure that the parameter is not added to the request.

8.1115.2 Field Documentation

8.1115.2.1 fileInfo UIMGetFileAttributesReq::fileIndex

8.1115.2.2 ULONG* UIMGetFileAttributesReq::pIndicationToken

8.1115.2.3 UIMSessionInformation UIMGetFileAttributesReq::sessionInfo

8.1116 UIMGetFileAttributesResp Struct Reference

Data Fields

- cardResult * pCardResult
- fileAttributes * pFileAttributes
- ULONG * pIndicationToken

8.1116.1 Detailed Description

This structure contains information of the response parameters associated with a Get File Attributes API.

Parameters

pCardResult(optional)	• See cardResult for more information.
pFileAttributes(optional)	• See fileAttributes for more information.
pIndicationToken(optional)	• Response in Indication. • When this TLV is present, it indicates that the result must be provided in a subsequent indication.

Note

Using NULL for the pointers would make sure that the parameter is not returned.

8.1116.2 Field Documentation

8.1116.2.1 cardResult* UIMGetFileAttributesResp::pCardResult

8.1116.2.2 fileAttributes* UIMGetFileAttributesResp::pFileAttributes

8.1116.2.3 ULONG* UIMGetFileAttributesResp::pIndicationToken

8.1117 UIMGetSlotsStatusResp Struct Reference

Data Fields

- BYTE * pNumberOfPhySlot
- UIMSlotsStatus * pUimSlotsStatus

8.1117.1 Detailed Description

This structure contains information of the response parameters associated with a Get Slots Status API.

Parameters

pNumberOfPhySlot	• Number of sets of the Slot Status.
pUimSlotsStatus	• Slots Status See UIMSlotsStatus for more information..

8.1117.2 Field Documentation

8.1117.2.1 BYTE* UIMGetSlotsStatusResp::pNumberOfPhySlot

8.1117.2.2 UIMSlotsStatus* UIMGetSlotsStatusResp::pUimSlotsStatus

8.1118 UIMPinResp Struct Reference

Data Fields

- remainingRetries * pRemainingRetries
- encryptedPIN1 * pEncryptedPIN1
- ULONG * pIndicationToken

8.1118.1 Detailed Description

This structure contains information of the response parameters associated with a set of PIN related API's.

Parameters

pRemaining-Retries(optional)	• See remainingRetries for more information.
pEncryptedPI-N1(optional)	• See encryptedPIN1 for more information.
pIndication-Token(optional)	• Response in Indication. • When this TLV is present, it indicates that the result is provided in a subsequent indication. • 0xFFFFFFFF, if unavailable

Note

Using NULL for the pointers would make sure that the parameter is not returned.

8.1118.2 Field Documentation

8.1118.2.1 encryptedPIN1* UIMPinResp::pEncryptedPIN1

8.1118.2.2 ULONG* UIMPinResp::pIndicationToken

8.1118.2.3 remainingRetries* UIMPinResp::pRemainingRetries

8.1119 UIMPowerDownReq Struct Reference

Data Fields

- BYTE slot

8.1119.1 Detailed Description

This structure contains information of the request parameters associated with a Power Down.

Parameters

slot	• Indicates the slot to be used. – 1 - Slot 1 – 2 - Slot 2

8.1119.2 Field Documentation

8.1119.2.1 BYTE UIMPowerDownReq::slot

8.1120 UIMPowerUpReq Struct Reference

Data Fields

- BYTE slot
- BYTE * pIgnoreHotSwapSwitch

8.1120.1 Detailed Description

This structure contains information of the request parameters associated with a Power Down.

Parameters

slot	• Indicates the slot to be used. – 1 - Slot 1 – 2 - Slot 2
pIgnoreHot-Swap-Switch(optional)	• Hot-swap switch status. – 0 - Checks the hot-swap switch status – 1 - Ignores the hot-swap switch status

8.1120.2 Field Documentation

8.1120.2.1 BYTE* UIMPowerUpReq::pIgnoreHotSwapSwitch

8.1120.2.2 BYTE UIMPowerUpReq::slot

8.1121 UIMReadTransparentReq Struct Reference

Data Fields

- UIMSessionInformation sessionInfo
- fileInfo fileIndex
- readTransparentInfo readTransparent
- ULONG * pIndicationToken
- BYTE * pEncryptData

8.1121.1 Detailed Description

This structure contains information of the request parameters associated with a Read Transparent API.

Parameters

sessionInfo	• See UIMSessionInformation for more information.
fileIndex	• See fileInfo for more information.
readTransparent	• See readTransparentInfo for more information.
pIndication-Token(optional)	• Response in Indication. • When this TLV is present, it indicates that the result must be provided in a subsequent indication.
pEncrypt-Data(optional)	• Encrypt Data. • Indicates whether the data read from the card is to be encrypted.

Note

Using NULL for the pointers would make sure that the parameter is not added to the request.

8.1121.2 Field Documentation

8.1121.2.1 fileInfo UIMReadTransparentReq::fileIndex

8.1121.2.2 BYTE* UIMReadTransparentReq::pEncryptData

8.1121.2.3 ULONG* UIMReadTransparentReq::pIndicationToken

8.1121.2.4 readTransparentInfo UIMReadTransparentReq::readTransparent

8.1121.2.5 UIMSessionInformation UIMReadTransparentReq::sessionInfo

8.1122 UIMReadTransparentResp Struct Reference

Data Fields

- cardResult * pCardResult
- readResult * pReadResult
- ULONG * pIndicationToken
- BYTE * pEncryptedData

8.1122.1 Detailed Description

This structure contains information of the response parameters associated with a Read Transparent API.

Parameters

pCardResult	• See cardResult for more information.
pReadResult	• See readResult for more information.
pIndication-Token(optional)	• Response in Indication. • When this TLV is present, it indicates that the result must be provided in a subsequent indication.
pEncrypted-Data(optional)	• Encrypted Data. • Indicates whether the data from the card passed in read_result is encrypted.

Note

Using NULL for the pointers would make sure that the parameter is not added to the request.

8.1122.2 Field Documentation

8.1122.2.1 cardResult* UIMReadTransparentResp::pCardResult

8.1122.2.2 BYTE* UIMReadTransparentResp::pEncryptedData

8.1122.2.3 ULONG* UIMReadTransparentResp::pIndicationToken

8.1122.2.4 readResult* UIMReadTransparentResp::pReadResult

8.1123 UIMRefreshCompleteReq Struct Reference

Data Fields

- UIMSessionInformation sessionInfo
- BYTE refreshComplete

8.1123.1 Detailed Description

This structure contains information of the request parameters associated with a SLQSUIMRefreshComplete.

Parameters

sessionInfo(-Mandatory)	• See UIMSessionInformation for more information.
refresh-Complete(-Mandatory)	• Indicates whether the refresh was successful. Valid values: – 0 - Refresh was not completed successfully – 1 - Refresh was completed successfully

8.1123.2 Field Documentation

8.1123.2.1 BYTE UIMRefreshCompleteReq::refreshComplete

8.1123.2.2 UIMSessionInformation UIMRefreshCompleteReq::sessionInfo

8.1124 UIMRefreshEvent Struct Reference

Data Fields

- BYTE stage
- BYTE mode
- BYTE sessionType
- BYTE aidLength
- BYTE aid [255]
- WORD numOfFiles
- fileInfo arrfileInfo [255]

8.1124.1 Detailed Description

This structure contains information of parameters associated with the Refresh Event.

Parameters

stage	• Indicates the stage of the Refresh procedure. – 0 - Waiting for OK to refresh – 1 - Refresh started – 2 - Refresh ended successfully – 3 - Refresh failed
mode	• Indicates the Refresh mode. – 0 - Reset – 1 - Init – 2 - Init and FCN – 3 - FCN – 4 - Init and Full FCN – 5 - Application reset – 6 - 3G session reset

sessionType	• Indicates the session type. – 0 - Primary GW provisioning – 1 - Primary 1X provisioning – 2 - Secondary GW provisioning – 3 - Secondary 1X provisioning – 4 - Nonprovisioning on slot 1 – 5 - Nonprovisioning on slot 2 – 6 - Card on slot 1 – 7 - Card on slot 2 – 8 - Logical channel on slot 1 – 9 - Logical channel on slot 2
aidLength	• Number of sets of the following elements – Application Identifier
aid	• Application identifier value or channel ID. This value is required for non-provisioning and for logical channel session types. It is ignored in all other cases
numFiles	• Number of sets of the following elements: – file_id – path_len – path
arrfileInfo	• Array of file Information struct

8.1124.2 Field Documentation

8.1124.2.1 BYTE UIMRefreshEvent::aid[255]

8.1124.2.2 BYTE UIMRefreshEvent::aidLength

8.1124.2.3 fileInfo UIMRefreshEvent::arrfileInfo[255]

8.1124.2.4 BYTE UIMRefreshEvent::mode

8.1124.2.5 WORD UIMRefreshEvent::numOfFiles

8.1124.2.6 BYTE UIMRefreshEvent::sessionType

8.1124.2.7 BYTE UIMRefreshEvent::stage

8.1125 UIMRefreshGetLastEventReq Struct Reference

Data Fields

- UIMSessionInformation sessionInfo

8.1125.1 Detailed Description

This structure contains information of the request parameters associated with a SLQSUIMRefreshGetLastEvent.

Parameters

sessionInfo(-Mandatory)	• See UIMSessionInformation for more information.

8.1125.2 Field Documentation

8.1125.2.1 UIMSessionInformation UIMRefreshGetLastEventReq::sessionInfo

8.1126 UIMRefreshGetLastEventResp Struct Reference

Data Fields

- UIMRefreshEvent * pRefreshEvent

8.1126.1 Detailed Description

This structure contains information of the response parameters associated with a SLQSUIMRefreshGetLastEvent.

Parameters

refreshEvent(-Optional)	• See UIMRefreshEvent for more information.

8.1126.2 Field Documentation

8.1126.2.1 UIMRefreshEvent* UIMRefreshGetLastEventResp::pRefreshEvent

8.1127 UIMRefreshOKReq Struct Reference

Data Fields

- UIMSessionInformation sessionInfo
- BYTE OKtoRefresh

8.1127.1 Detailed Description

This structure contains Parameters of the Session Information

Parameters

sessionInfo	• Session Information • See UIMSessionInformation for more information

OKtoRefresh	• Indicates whether a refresh is OK. Valid values: – 0 - Not OK to refresh – 1 - OK to refresh

8.1127.2 Field Documentation

8.1127.2.1 BYTE UIMRefreshOKReq::OKtoRefresh

8.1127.2.2 UIMSessionInformation UIMRefreshOKReq::sessionInfo

8.1128 UIMRefreshRegisterReq Struct Reference

Data Fields

- UIMSessionInformation sessionInfo
- registerRefresh regRefresh

8.1128.1 Detailed Description

This structure contains information of the request parameters associated with a Refresh Register.

Parameters

sessionInfo	• Session Information params • See UIMSessionInformation for more information
regRefresh	• Register Refresh parameters • See registerRefresh for more information

8.1128.2 Field Documentation

8.1128.2.1 registerRefresh UIMRefreshRegisterReq::regRefresh

8.1128.2.2 UIMSessionInformation UIMRefreshRegisterReq::sessionInfo

8.1129 UIMSessionInformation Struct Reference

Data Fields

- BYTE sessionType
- BYTE aidLength
- BYTE aid [255]

8.1129.1 Detailed Description

This structure contains the Session Information.

Parameters

sessionType	• Indicates the session type. – 0 - Primary GW provisioning – 1 - Primary 1X provisioning – 2 - Secondary GW provisioning – 3 - Secondary 1X provisioning – 4 - Non-provisioning on slot 1 – 5 - Non-provisioning on slot 2 – 6 - Card on slot 1 – 7 - Card on slot 2 – 8 - Logical channel on slot 1 – 9 - Logical channel on slot 2
aidLength	• Length of the following elements i.e. Application Identifier.
aid	• Application identifier value or channel ID. • This value is required for non-provisioning and for logical channel session types. It is ignored in all other cases.

8.1129.2 Field Documentation

8.1129.2.1 BYTE UIMSessionInformation::aid[255]

8.1129.2.2 BYTE UIMSessionInformation::aidLength

8.1129.2.3 BYTE UIMSessionInformation::sessionType

8.1130 UIMSetPinProtectionReq Struct Reference

Data Fields

- UIMSessionInformation sessionInfo
- setPINProtection pinProtection
- BYTE * pKeyReferenceID
- ULONG * pIndicationToken

8.1130.1 Detailed Description

This structure contains information of the request parameters associated with a set pin protection API.

Parameters

sessionInfo	• See UIMSessionInformation for more information.

pinProtection	• See setPINProtection for more information.
pKeyReferenceID(optional)	• Indicates the PIN key reference ID. • Indicates the PIN key reference ID. Valid values are from 1 to 8, respectively, for application 1 to application 8. • This TLV is used only for PIN1 and PIN2 and is ignored in all other cases.
pIndicationToken(optional)	• Response in Indication. • When this TLV is present, it indicates that the result must be provided in a subsequent indication.

Note

Using NULL for the pointers would make sure that the parameter is not added to the request.

8.1130.2 Field Documentation

8.1130.2.1 ULONG* UIMSetPinProtectionReq::pIndicationToken

8.1130.2.2 setPINProtection UIMSetPinProtectionReq::pinProtection

8.1130.2.3 BYTE* UIMSetPinProtectionReq::pKeyReferenceID

8.1130.2.4 UIMSessionInformation UIMSetPinProtectionReq::sessionInfo

8.1131 UIMSlotsStatus Struct Reference

Data Fields

- UIMSlotStatus uimSlotStatus [255]

8.1131.1 Detailed Description

This structure contains information of the response parameters associated with a Get Slots Status API.

Parameters

uimSlotStatus[MAX_SLOTS_STATUS]	• Contain all slots status.

8.1131.2 Field Documentation

8.1131.2.1 UIMSlotStatus UIMSlotsStatus::uimSlotStatus[255]

8.1132 UIMSlotStatus Struct Reference

Data Fields

- ULONG uPhyCardStatus
- ULONG uPhySlotStatus
- BYTE bLogicalSlot
- BYTE bICCIDLength
- BYTE bICCID [255]

8.1132.1 Detailed Description

This structure contains information of the response parameters associated with a Get Slots Status API.

Parameters

uPhyCardStatus	• State of the card in the Pyhsical Slot Status. – 0x00 - Unknown. – 0x01 - Absent. – 0x02 - Present.
uPhySlotStatus	• State of the Physical Slot status. – 0x00 Inactive. – 0x01 Activate.
bLogicalSlot	• Logical Slot associated with this physical slot. THis is valid if the physical slot is active. – 1 - Slot 1. – 2 - Slot 2. – 3 - Slot 3. – 4 - Slot 4. – 5 - Slot 5.
bLogicalSlot	• Number of sets the sets of ICCCID
bICCID[MAX_ICCID_LENGTH]	• Contains the ICCID of the card in the physical slot.

8.1132.2 Field Documentation

8.1132.2.1 BYTE UIMSlotStatus::bICCID[255]

8.1132.2.2 BYTE UIMSlotStatus::bICCIDLength

8.1132.2.3 BYTE UIMSlotStatus::bLogicalSlot

8.1132.2.4 ULONG UIMSlotStatus::uPhyCardStatus

8.1132.2.5 ULONG UIMSlotStatus::uPhySlotStatus

8.1133 UIMSlotStatusChangeInfo Struct Reference

Data Fields

- UIMSlotsStatus slotsstatusChange
- BYTE bNumberOfPhySlots

8.1133.1 Detailed Description

Structure consist of cardstatus params

Parameters

slotstatus-Change	• See UIMSlotStatus for more information
bNumberOfPhy-Slots	• Number of Physical Slot(s)

8.1133.2 Field Documentation

8.1133.2.1 BYTE UIMSlotStatusChangeInfo::bNumberOfPhySlots

8.1133.2.2 UIMSlotsStatus UIMSlotStatusChangeInfo::slotsstatusChange

8.1134 UIMStatusChangeInfo Struct Reference

Data Fields

- cardStatus statusChange

8.1134.1 Detailed Description

Structure consist of cardstatus params

Parameters

statusChange	• See cardStatus for more information

8.1134.2 Field Documentation

8.1134.2.1 cardStatus UIMStatusChangeInfo::statusChange

8.1135 UIMSwitchSlotReq Struct Reference

Data Fields

- BYTE bLogicalSlot
- ULONG ulPhysicalSlot

8.1135.1 Detailed Description

This structure contains information of the request parameters associated with a Switch Slot.

Parameters

bLogicalSlot	• Indicates the slot to be used. – 1 - Slot 1 – 2 - Slot 2 – 3 - Slot 3 – 4 - Slot 4 – 5 - Slot 5
bPhysicalSlot	• 1 - Slot 1 • 2 - Slot 2 • 3 - Slot 3 • 4 - Slot 4 • 5 - Slot 5

8.1135.2 Field Documentation

8.1135.2.1 BYTE UIMSwitchSlotReq::bLogicalSlot

8.1135.2.2 ULONG UIMSwitchSlotReq::ulPhysicalSlot

8.1136 UIMUnblockPinReq Struct Reference

Data Fields

- UIMSessionInformation sessionInfo
- unblockUIMPIN unblockPIN
- BYTE * pKeyReferenceID
- ULONG * pIndicationToken

8.1136.1 Detailed Description

This structure contains information of the request parameters associated with a Unblock PIN API.

Parameters

sessionInfo	• See UIMSessionInformation for more information.
unblockPIN	• See unblockUIMPIN for more information.

pKeyReferenceID(optional)	• Indicates the PIN key reference ID. • Indicates the PIN key reference ID. Valid values are from 1 to 8, respectively, for application 1 to application 8. • This TLV is used only for PIN1 and PIN2 and is ignored in all other cases.
pIndicationToken(optional)	• Response in Indication. • When this TLV is present, it indicates that the result must be provided in a subsequent indication.

Note

Using NULL for the pointers would make sure that the parameter is not added to the request.

8.1136.2 Field Documentation

8.1136.2.1 ULONG* UIMUnblockPinReq::pIndicationToken

8.1136.2.2 BYTE* UIMUnblockPinReq::pKeyReferenceID

8.1136.2.3 UIMSessionInformation UIMUnblockPinReq::sessionInfo

8.1136.2.4 unblockUIMPIN UIMUnblockPinReq::unblockPIN

8.1137 UIMVerifyPinReq Struct Reference

Data Fields

- UIMSessionInformation sessionInfo
- verifyUIMPIN verifyPIN
- encryptedPIN1 * pEncryptedPIN1
- BYTE * pKeyReferenceID
- ULONG * pIndicationToken

8.1137.1 Detailed Description

This structure contains information of the request parameters associated with a verify PIN API.

Parameters

sessionInfo	• See UIMSessionInformation for more information.
verifyPIN	• See verifyUIMPIN for more information.
pEncryptedPIN1(optional)	• See encryptedPIN1 for more information.

pKeyReferenceID(optional)	• Indicates the PIN key reference ID. • Indicates the PIN key reference ID. Valid values are from 1 to 8, respectively, for application 1 to application 8. • This TLV is used only for PIN1 and PIN2 and is ignored in all other cases.
pIndicationToken(optional)	• Response in Indication. • When this TLV is present, it indicates that the result must be provided in a subsequent indication.

Note

Using NULL for the pointers would make sure that the parameter is not added to the request.

8.1137.2 Field Documentation

8.1137.2.1 encryptedPIN1* UIMVerifyPinReq::pEncryptedPIN1

8.1137.2.2 ULONG* UIMVerifyPinReq::pIndicationToken

8.1137.2.3 BYTE* UIMVerifyPinReq::pKeyReferenceID

8.1137.2.4 UIMSessionInformation UIMVerifyPinReq::sessionInfo

8.1137.2.5 verifyUIMPIN UIMVerifyPinReq::verifyPIN

8.1138 UMTSInfo Struct Reference

Data Fields

- WORD cellID
- BYTE plmn [3]
- WORD lac
- WORD uarfcn
- WORD psc
- SHORT rscp
- SHORT ecio
- BYTE umtsInst
- UMTSinstInfo UMTSInstInfo [255]
- BYTE geranInst
- geranInstInfo GeranInstInfo [255]

8.1138.1 Detailed Description

This structure contains information about the UMTS Network.

Parameters

cellID	• Cell ID. • 0xFFFFFFFF indicates cell ID information is not present.

plmn[PLMN_LENGTH]	• MCC/MNC information coded as octet 3, 4, and 5. • This field is ignored when nmrCellID is not present.
lac	• Location area code. • This field is ignored when nmrCellID is not present. – 0xFFFF - Not Available
uarfcn	• UTRA absolute RF channel number. – 0xFFFF - Not Available
psc	• Primary scrambling code. – 0xFFFF - Not Available
rscp	• Received signal code power. – 0xFFFF - Not Available
ecio	• ECIO(Signal-to-Interference-ratio). – 0xFFFF - Not Available
umtsInst	• Provides the number of set of UMTS info instances. • If 0(zero), then no information follows it.
UMTSInstInfo[MAX_DESCRIPTION_LENGTH]	• See UMTSinstInfo for more information.
geranInst	• Provides the number of set of GERAN info instances. • If 0(zero), then no information follows it.
GeranInstInfo[MAX_DESCRIPTION_LENGTH]	• See geranInstInfo for more information.

8.1138.2 Field Documentation

8.1138.2.1 WORD UMTSInfo::cellID

8.1138.2.2 SHORT UMTSInfo::ecio

8.1138.2.3 BYTE UMTSInfo::geranInst

8.1138.2.4 geranInstInfo UMTSInfo::GeranInstInfo[255]

8.1138.2.5 WORD UMTSInfo::lac

8.1138.2.6 BYTE UMTSInfo::plmn[3]

8.1138.2.7 WORD UMTSInfo::psc

8.1138.2.8 SHORT UMTSInfo::rscp

8.1138.2.9 WORD UMTSInfo::uarfcn

8.1138.2.10 BYTE UMTSInfo::umtsInst

8.1138.2.11 UMTSinstInfo UMTSInfo::UMTSInstInfo[255]

8.1139 UMTSinstInfo Struct Reference

Data Fields

- WORD umtsUarfcn
- WORD umtsPsc
- SHORT umtsRscp
- SHORT umtsEcio

8.1139.1 Detailed Description

This structure contains information about the UMTS Instances in UMTS Network.

Parameters

umtsUarfcn	• UTRA absolute RF channel number.
umtsPsc	• Primary scrambling code.
umtsRscp	• Received signal code power.
umtsEcio	• ECIO(Signal-to-Interference-ratio).

8.1139.2 Field Documentation

8.1139.2.1 SHORT UMTSinstInfo::umtsEcio

8.1139.2.2 WORD UMTSinstInfo::umtsPsc

8.1139.2.3 SHORT UMTSinstInfo::umtsRscp

8.1139.2.4 WORD UMTSinstInfo::umtsUarfcn

8.1140 umtsLTENbrCell Struct Reference

Data Fields

- WORD earfcn
- WORD pci
- ULONG rsrp
- ULONG rsrq
- SHORT srxlev
- BYTE cellIsTDD

8.1140.1 Detailed Description

This structure contains information about the UMTS LTE neighbour Cell.

Parameters

earfcn	• E-UTRA absolute RF channel number of the detected cell.
pci	• Physical cell ID of the detected cell. • Range is defined in 3GPP TS 36.211
rsrp	• Current received signal strength indication (in dBm) of the detected cell.
rsrq	• Current reference signal received quality (in dB) of the detected cell.
srxlev	• Cell selection Rx level (Srxlev) value of the detected cell in linear scale. • This field is only valid when wcdma_rrc_state is not NAS_WCDMA_RRC_STATE_CEL_FACH or NAS_WCDMA_RRC_STATE_CELL_DCH.
cellIsTDD	• TRUE if the cell is TDD; FALSE if the cell is FDD.

8.1140.2 Field Documentation

8.1140.2.1 BYTE umtsLTENbrCell::cellIsTDD

8.1140.2.2 WORD umtsLTENbrCell::earfcn

8.1140.2.3 WORD umtsLTENbrCell::pci

8.1140.2.4 ULONG umtsLTENbrCell::rsrp

8.1140.2.5 ULONG umtsLTENbrCell::rsrq

8.1140.2.6 SHORT umtsLTENbrCell::srxlev

8.1141 UMTSMinQoS Struct Reference

Data Fields

- BYTE trafficClass
- ULONG maxUplinkBitrate
- ULONG maxDownlinkBitrate
- ULONG grntUplinkBitrate
- ULONG grntDownlinkBitrate
- BYTE qosDeliveryOrder
- ULONG maxSDUSize
- BYTE sduErrorRatio
- BYTE resBerRatio
- BYTE deliveryErrSDU
- ULONG transferDelay
- ULONG trafficPriority

8.1141.1 Detailed Description

This structure contains the UMTS Quality Of Service Information

Parameters

trafficClass	• 0x00 - Subscribed • 0x01 - Conversational • 0x02 - Streaming • 0x03 - Interactive • 0x04 - Background
maxUplinkBitrate	• Maximum uplink bit rate in bits/sec
maxDownlink-Bitrate	• Maximum downlink bit rate in bits/sec
grntUplinkBitrate	• Guaranteed uplink bit rate in bits/sec
grntDownlink-Bitrate	• Guaranteed downlink bit rate in bits/sec
qosDelivery-Order	- Qos delivery order • 0x00 - Subscribe • 0x01 - Delivery order on • 0x02 - Delivery order off
maxSDUSize	• Maximum SDU size

sduErrorRatio	- SDU error ratio • Target value for fraction of SDUs lost or detected as erroneous. • 0x00 - Subscribe • 0x01 - 1∗10^(-2) • 0x02 - 7∗10^(-3) • 0x03 - 1∗10^(-3) • 0x04 - 1∗10^(-4) • 0x05 - 1∗10^(-5) • 0x06 - 1∗10^(-6) • 0x07 - 1∗10^(-1)
resBerRatio	- Residual bit error ratio • Target value for undetected bit error ratio in in the delivered SDUs. • 0x00 - Subscribe • 0x01 - 5∗10^(-2) • 0x02 - 1∗10^(-2) • 0x03 - 5∗10^(-3) • 0x04 - 4∗10^(-3) • 0x05 - 1∗10^(-3) • 0x06 - 1∗10^(-4) • 0x07 - 1∗10^(-5) • 0x08 - 1∗10^(-6) • 0x09 - 1∗10^(-8)
deliveryErrSDU	- delivery of erroneous SDUs • Indicates whether SDUs detected as erroneous shall be delivered or not. • 0x00 - Subscribe • 0x01 - 5∗10^(-2) • 0x02 - 1∗10^(-2) • 0x03 - 5∗10^(-3) • 0x04 - 4∗10^(-3) • 0x05 - 1∗10^(-3) • 0x06 - 1∗10^(-4) • 0x07 - 1∗10^(-5) • 0x08 - 1∗10^(-6) • 0x09 - 1∗10^(-8)
transferDelay	- Transfer delay (ms) • Indicates the targeted time between a request to transfer an SDU at one SAP to its delivery at the other SAP in milliseconds.
trafficPriority	- Transfer handling priority • Specifies the relative importance for handling of SDUs that belong to the UMTS bearer, compared to the SDUs of other bearers.

8.1141.2 Field Documentation

8.1141.2.1 BYTE UMTSMinQoS::deliveryErrSDU

8.1141.2.2 ULONG UMTSMinQoS::grntDownlinkBitrate

8.1141.2.3 ULONG UMTSMinQoS::grntUplinkBitrate

8.1141.2.4 ULONG UMTSMinQoS::maxDownlinkBitrate

8.1141.2.5 ULONG UMTSMinQoS::maxSDUSize

8.1141.2.6 ULONG UMTSMinQoS::maxUplinkBitrate

8.1141.2.7 BYTE UMTSMinQoS::qosDeliveryOrder

8.1141.2.8 BYTE UMTSMinQoS::resBerRatio

8.1141.2.9 BYTE UMTSMinQoS::sduErrorRatio

8.1141.2.10 BYTE UMTSMinQoS::trafficClass

8.1141.2.11 ULONG UMTSMinQoS::trafficPriority

8.1141.2.12 ULONG UMTSMinQoS::transferDelay

8.1142 UMTSQoS Struct Reference

Data Fields

- BYTE trafficClass
- ULONG maxUplinkBitrate
- ULONG maxDownlinkBitrate
- ULONG grntUplinkBitrate
- ULONG grntDownlinkBitrate
- BYTE qosDeliveryOrder
- ULONG maxSDUSize
- BYTE sduErrorRatio
- BYTE resBerRatio
- BYTE deliveryErrSDU
- ULONG transferDelay
- ULONG trafficPriority

8.1142.1 Detailed Description

This structure contains the UMTS Quality Of Service Information

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

trafficClass	• 0x00 - Subscribed • 0x01 - Conversational • 0x02 - Streaming • 0x03 - Interactive • 0x04 - Background

maxUplinkBitrate	• Maximum uplink bit rate in bits/sec
maxDownlink-Bitrate	• Maximum downlink bit rate in bits/sec
grntUplinkBitrate	• Guaranteed uplink bit rate in bits/sec
grntDownlink-Bitrate	• Guranteed downlink bit rate in bits/sec
qosDelivery-Order	- Qos delivery order • 0x00 - Subscribe • 0x01 - delivery order on • 0x02 - delivery order off
maxSDUSize	• Maximum SDU size
sduErrorRatio	- SDU error ratio • Target value for fraction of SDUs lost or detected as erroneous. • 0x00 - Subscribe • 0x01 - 1∗10^(-2) • 0x02 - 7∗10^(-3) • 0x03 - 1∗10^(-3) • 0x04 - 1∗10^(-4) • 0x05 - 1∗10^(-5) • 0x06 - 1∗10^(-6) • 0x07 - 1∗10^(-1)
resBerRatio	- Residual bit error ratio • Target value for undetected bit error ratio in in the delivered SDUs. • 0x00 - Subscribe • 0x01 - 5∗10^(-2) • 0x02 - 1∗10^(-2) • 0x03 - 5∗10^(-3) • 0x04 - 4∗10^(-3) • 0x05 - 1∗10^(-3) • 0x06 - 1∗10^(-4) • 0x07 - 1∗10^(-5) • 0x08 - 1∗10^(-6) • 0x09 - 1∗10^(-8)

deliveryErrSDU	- Delivery of erroneous SDUs • Indicates whether SDUs detected as erroneous shall be delivered or not. • 0x00 - Subscribe • 0x01 - 5∗10^(-2) • 0x02 - 1∗10^(-2) • 0x03 - 5∗10^(-3) • 0x04 - 4∗10^(-3) • 0x05 - 1∗10^(-3) • 0x06 - 1∗10^(-4) • 0x07 - 1∗10^(-5) • 0x08 - 1∗10^(-6) • 0x09 - 1∗10^(-8)
transferDelay	- Transfer delay (ms) • Indicates the targeted time between a request to transfer an SDU at one SAP to its delivery at the other SAP in milliseconds.
trafficPriority	- Transfer handling priority • Specifies the relative importance for handling of SDUs that belong to the UMTS bearer, compared to the SDUs of other bearers.

8.1142.2 Field Documentation

8.1142.2.1 BYTE UMTSQoS::deliveryErrSDU

8.1142.2.2 ULONG UMTSQoS::grntDownlinkBitrate

8.1142.2.3 ULONG UMTSQoS::grntUplinkBitrate

8.1142.2.4 ULONG UMTSQoS::maxDownlinkBitrate

8.1142.2.5 ULONG UMTSQoS::maxSDUSize

8.1142.2.6 ULONG UMTSQoS::maxUplinkBitrate

8.1142.2.7 BYTE UMTSQoS::qosDeliveryOrder

8.1142.2.8 BYTE UMTSQoS::resBerRatio

8.1142.2.9 BYTE UMTSQoS::sduErrorRatio

8.1142.2.10 BYTE UMTSQoS::trafficClass

8.1142.2.11 ULONG UMTSQoS::trafficPriority

8.1142.2.12 ULONG UMTSQoS::transferDelay

8.1143 UMTSReqQoSSigInd Struct Reference

Data Fields

- struct UMTSQoS UMTSReqQoS
- BYTE SigInd

8.1143.1 Detailed Description

structure contains UMTS requested QoS with Signaling Indication flag

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

UMTSReqQoS	• Contains the UMTS Quality Of Service Information
SigInd	- Signaling Indication flag • TRUE - Signaling indication ON • FALSE - Signaling indication OFF

8.1143.2 Field Documentation

8.1143.2.1 BYTE UMTSReqQoSSigInd::SigInd

8.1143.2.2 struct UMTSQoS UMTSReqQoSSigInd::UMTSReqQoS

8.1144 unblockUIMPIN Struct Reference

Data Fields

- BYTE pinID
- BYTE pukLen
- BYTE pukVal [255]
- BYTE newPINLen
- BYTE newPINVal [255]

8.1144.1 Detailed Description

This structure contains the information about the unblock pin parameters.

Parameters

pinID	• Indicates the PIN ID to be changed. – 1 - PIN1 (also called PIN) – 2 - PIN2 – 3 - Universal PIN
pukLen	• Length of the following elements i.e. puk value.

pukVal[MAX_PUK_LENGTH]	• PIN Unlock Key value. • This value is a sequence of ASCII characters.
pinLen	• Length of the following elements i.e. new pin value.
pinVal[MAX_DESCRIPTION_LENGTH]	• New PIN value. • This value is a sequence of ASCII characters.

8.1144.2 Field Documentation

8.1144.2.1 BYTE unblockUIMPIN::newPINLen

8.1144.2.2 BYTE unblockUIMPIN::newPINVal[255]

8.1144.2.3 BYTE unblockUIMPIN::pinID

8.1144.2.4 BYTE unblockUIMPIN::pukLen

8.1144.2.5 BYTE unblockUIMPIN::pukVal[255]

8.1145 UniversalTime Struct Reference

Data Fields

- WORD year
- BYTE month
- BYTE day
- BYTE hour
- BYTE minute
- BYTE second
- BYTE dayOfWeek

8.1145.1 Detailed Description

This structure contains the parameters for Universal Time Information.

Parameters

year	• Year.
month	• Month. – 1 is January and 12 is December.
day	• Day. – Range 1 to 31.

hour	• Hour. – Range 0 to 59.
minute	• Minute. – Range 0 to 59.
second	• Second. – Range 0 to 59.
dayOfWeek	• Day of the Week. – 0 is Monday and 6 is Sunday.

8.1145.2 Field Documentation

8.1145.2.1 BYTE UniversalTime::day

8.1145.2.2 BYTE UniversalTime::dayOfWeek

8.1145.2.3 BYTE UniversalTime::hour

8.1145.2.4 BYTE UniversalTime::minute

8.1145.2.5 BYTE UniversalTime::month

8.1145.2.6 BYTE UniversalTime::second

8.1145.2.7 WORD UniversalTime::year

8.1146 unpack_dms_GetActivationState_t Struct Reference

Data Fields

- uint8_t state

8.1146.1 Detailed Description

This structure contains unpack_dms_GetActivationState parameters.

Parameters

state[OUT]	• Service Activation Code 0 - Service not activated 1 - Service activated 2 - Activation connecting 3 - Activation connected 4 - OTASP security authenticated 5 - OTASP NAM downloaded 6 - OTASP MDN downloaded 7 - OTASP IMSI downloaded 8 - OTASP PRL downloaded 9 - OTASP SPC downloaded 10 - OTASP settings committed 0xff - Invalid data.

8.1146.2 Field Documentation

8.1146.2.1 uint8_t unpack_dms_GetActivationState_t::state

8.1147 unpack_dms_GetBandCapability_t Struct Reference

Data Fields

- uint32_t BandCapability
- uint16_t Tlvresult

8.1147.1 Detailed Description

Structure to store the band capability of the device.

Parameters

BandCapability	Bitmask of bands supported by the device • Bit 0 - Band class 0, A-system • Bit 1 - Band class 0, B-system • Bit 2 - Band class 1, all blocks • Bit 3 - Band class 2 • Bit 4 - Band class 3, A-system • Bit 5 - Band class 4, all blocks • Bit 6 - Band class 5, all blocks • Bit 7 - GSM DCS band (1800) • Bit 8 - GSM Extended GSM (E-GSM) band (900) • Bit 9 - GSM Primary GSM (P-GSM) band (900) • Bit 10 - Band class 6 • Bit 11 - Band class 7 • Bit 12 - Band class 8 • Bit 13 - Band class 9 • Bit 14 - Band class 10 • Bit 15 - Band class 11 • Bit 16 - GSM 450 band • Bit 17 - GSM 480 band • Bit 18 - GSM 750 band • Bit 19 - GSM 850 band • Bit 20 - GSM railways GSM band (900) • Bit 21 - GSM PCS band (1900) • Bit 22 - WCDMA (Europe, Japan, and China) 2100 band • Bit 23 - WCDMA US PCS 1900 band • Bit 24 - WCDMA (Europe and China) DCS 1800 band • Bit 25 - WCDMA US 1700 band • Bit 26 - WCDMA US 850 band • Bit 27 - WCDMA Japan 800 band • Bit 28 - Band class 12 • Bit 29 - Band class 14 • Bit 30 - Reserved • Bit 31 - Band class 15 • Bits 32 through 47 - Reserved • Bit 48 - WCDMA Europe 2600 band • Bit 49 - WCDMA Europe and Japan 900 band • Bit 50 - WCDMA Japan 1700 band • Bits 51 through 55 - Reserved • Bit 56 - Band class 16 • Bit 57 - Band class 17 • Bit 58 - Band class 18 • Bit 59 - Band class 19 • Bit 60 - WCDMA Japan 850 band • Bit 61 - WCDMA 1500 band • Bits 62 and 63 - Reserved

Tlvresult	• unpack Tlv Result. • eQCWWAN_ERR_NULL_TLV - Invalid Tlv Data.

8.1147.2 Field Documentation

8.1147.2.1 uint32_t unpack_dms_GetBandCapability_t::BandCapability

8.1147.2.2 uint16_t unpack_dms_GetBandCapability_t::Tlvresult

8.1148 unpack_dms_GetCrashAction_t Struct Reference

Data Fields

- uint8_t DevCrashState
- uint16_t Tlvresult

8.1148.1 Detailed Description

This structure is used to store the Crash State from the device.

Parameters

DevCrashState	• Device Crash State • Values: – 0 - USB Memory Download Modem will reset after a crash and will stay in USB download mode with only ttyUSB0 enumerated. ramdump tool is to be used to recover the crash dump. Modem needs to be reset again to come back in ONLINE mode. – 1 - Reset Modem will reset and come back in ONLINE mode. Minimal crash data will be available and can be extracted with at!gcdump? AT command or SLQSSwiGetCrashInfo() SDK API – 2 - No action – 0xff - Invaild data.
Tlvresult	• unpack Tlv result

8.1148.2 Field Documentation

8.1148.2.1 uint8_t unpack_dms_GetCrashAction_t::DevCrashState

8.1148.2.2 uint16_t unpack_dms_GetCrashAction_t::Tlvresult

8.1149 unpack_dms_GetCustFeature_t Struct Reference

Data Fields

- uint32_t GpsEnable

- uint8_t DisableIMSI
- uint16_t IPFamSupport
- uint8_t RMAutoConnect
- uint8_t GPSSel
- uint8_t SMSSupport
- uint8_t IsVoiceEnabled
- uint8_t DHCPRelayEnabled
- uint8_t GPSLPM
- uint16_t Tlvresult

8.1149.1 Detailed Description

This structure contains current settings of custom features

Parameters

GpsEnable	• describes if GPS is enabled or disabled • values: – 0x00 - GPS is disabled – 0x01 - GPS is enabled – 0xff - Invaild data.
DisableIMSI	• optional 1 byte parameter • describes if IMSI display is enabled or disabled • values: – 0x00 - Allow display of IMSI – 0x01 - Do not display IMSI – 0xff - Invaild data.
IPFamSupport	• optional 2 byte BitMask • bitmask representing the IP families supported • values: – 0x01 - IPv4 – 0x02 - IPv6 – 0x04 - IPv4v6 – 0xff - Invaild data.
RMAutoConnect	• optional 1 byte parameter • QMI Mode RM Net Auto Connect Support • values: – 0x00 - Not Supported – 0x01 - Supported – 0xff - Invaild data.

GPSSel	• optional 1 byte parameter • GPS Antenna Select • values: – 0x00 - Dedicated GPS Port – 0x01 - GPS Rx over AUX Port – 0x02 - GPS Rx over dedicated GPS port with no bias voltage applied – 0xff - Invaild data.
SMSSupport	• optional 1 byte parameter • SMS support • values: – 0x00 - Not supported – 0x01 - supported – 0xff - Invaild data. • Used to determine whether or not to hide SMS from user
IsVoiceEnabled	• optional 1 byte parameter • Voice support • values: – 0x00 - Enable voice on both AT and QMI interface (default) – 0x01 - Reserved – 0x02 - Disable voice on both AT and QMI interface – 0xff - Invaild data.
DHCPRelay-Enabled	• optional 1 byte parameter • DHCP Relay support • values: – 0x00 - Disable DHCP relay – 0x01 - Enable DHCP relay – 0xff - Invaild data.
GPSLPM	• optional 1 byte parameter • GPSLPM support • values: – 0x00 - Enable GPS in Low Power Mode – 0x01 - Disable GPS in Low Power Mode – 0xff - Invaild data.
Tlvresult	• unpack Tlv Result.

8.1149.2 Field Documentation

8.1149.2.1 uint8_t unpack_dms_GetCustFeature_t::DHCPRelayEnabled

8.1149.2.2 uint8_t unpack_dms_GetCustFeature_t::DisableIMSI

8.1149.2.3 uint32_t unpack_dms_GetCustFeature_t::GpsEnable

8.1149.2.4 uint8_t unpack_dms_GetCustFeature_t::GPSLPM

8.1149.2.5 uint8_t unpack_dms_GetCustFeature_t::GPSSel

8.1149.2.6 uint16_t unpack_dms_GetCustFeature_t::IPFamSupport

8.1149.2.7 uint8_t unpack_dms_GetCustFeature_t::IsVoiceEnabled

8.1149.2.8 uint8_t unpack_dms_GetCustFeature_t::RMAutoConnect

8.1149.2.9 uint8_t unpack_dms_GetCustFeature_t::SMSSupport

8.1149.2.10 uint16_t unpack_dms_GetCustFeature_t::Tlvresult

8.1150 unpack_dms_GetCustFeaturesV2_t Struct Reference

Data Fields

- DMSgetCustomFeatureV2 GetCustomFeatureV2
- uint16_t Tlvresult

8.1150.1 Detailed Description

This structure contains customization settings set to modem unpack

Parameters

GetCustomFeatureV2	• See DMSgetCustomFeatureV2 for more information
Tlvresult	• Unpack Result

8.1150.2 Field Documentation

8.1150.2.1 DMSgetCustomFeatureV2 unpack_dms_GetCustFeaturesV2_t::GetCustomFeatureV2

8.1150.2.2 uint16_t unpack_dms_GetCustFeaturesV2_t::Tlvresult

8.1151 unpack_dms_GetDeviceCap_t Struct Reference

Data Fields

- uint32_t MaxTXChannelRate
- uint32_t MaxRXChannelRate
- uint32_t DataServiceCapability
- uint32_t SimCapability
- uint32_t RadioIfacesSize

- uint8_t RadioIfaces [64]
- uint16_t Tlvresult

8.1151.1 Detailed Description

Structure to store the device capabilities

Parameters

MaxTXChannelRate	• Maximum transmission rate (in bps) supported by the device • In multi-technology devices, this value will be the greatest rate among all supported technologies
MaxRXChannelRate	• Maximum reception rate (in bps) supported by the device • In multi-technology devices, this value will be the greatest rate among all supported technologies
DataServiceCapability	• CS/PS data service capability – 0 - No data services supported – 1 - Only Circuit Switched (CS) services supported – 2 - Only Packet Switched (PS) services supported – 3 - Simultaneous CS and PS – 4 - Non-simultaneous CS and PS
SimCapability	Device SIM capability • 0 - SIM not supported • 1 - SIM supported
RadioIfacesSize	• Upon input, the maximum number of elements that the radio interface array can contain • Upon successful output, actual number of elements in the radio interface array
RadioIfaces	• Radio interface array. This is a structure of array containing the elements below. uint8_t RadioIfaces – See qaGobiApiTableRadioInterfaces.h for Radio Interfaces
Tlvresult	• Unpack Result • eQCWWAN_ERR_NULL_TLV - Invalid Tlv Data.

8.1151.2 Field Documentation

8.1151.2.1 uint32_t unpack_dms_GetDeviceCap_t::DataServiceCapability

8.1151.2.2 uint32_t unpack_dms_GetDeviceCap_t::MaxRXChannelRate

8.1151.2.3 uint32_t unpack_dms_GetDeviceCap_t::MaxTXChannelRate

8.1151.2.4 uint8_t unpack_dms_GetDeviceCap_t::RadioIfaces[64]

8.1151.2.5 uint32_t unpack_dms_GetDeviceCap_t::RadioIfacesSize

8.1151.2.6 uint32_t unpack_dms_GetDeviceCap_t::SimCapability

8.1151.2.7 uint16_t unpack_dms_GetDeviceCap_t::Tlvresult

8.1152 unpack_dms_GetDeviceCapabilities_t Struct Reference

Data Fields

- uint32_t maxTxChannelRate
- uint32_t maxRxChannelRate
- uint32_t dataServiceCaCapability
- uint32_t simCapability
- uint32_t radioIfacesSize
- uint8_t RadioIfaces [255]

8.1152.1 Detailed Description

Gets the device capabilities structure

Parameters

maxTxChannelRate	• Maximum transmission rate (in bps) supported by the device • In multi-technology devices, this value will be the greatest rate among all supported technologies
maxRxChannelRate	• Maximum reception rate (in bps) supported by the device • In multi-technology devices, this value will be the greatest rate among all supported technologies
dataServiceCaCapability	• CS/PS data service capability – 0 - No data services supported – 1 - Only Circuit Switched (CS) services supported – 2 - Only Packet Switched (PS) services supported – 3 - Simultaneous CS and PS – 4 - Non-simultaneous CS and PS
simCapability	• Device SIM capability – 0 - SIM not supported – 1 - SIM supported – 0xff - Invalid Device capablitityes Data.
radioIfacesSize	• Upon input, the maximum number of elements that the radio interface array can contain • Upon successful output, actual number of elements in the radio interface array
RadioIfaces[OUT]	• Radio interface array. This is a structure of array containing the elements below. – See qaGobiApiTableRadioInterfaces.h for Radio Interfaces

8.1152.2 Field Documentation

8.1152.2.1 uint32_t unpack_dms_GetDeviceCapabilities_t::dataServiceCaCapability

8.1152.2.2 uint32_t unpack_dms_GetDeviceCapabilities_t::maxRxChannelRate

8.1152.2.3 uint32_t unpack_dms_GetDeviceCapabilities_t::maxTxChannelRate

8.1152.2.4 uint8_t unpack_dms_GetDeviceCapabilities_t::RadioIfaces[255]

8.1152.2.5 uint32_t unpack_dms_GetDeviceCapabilities_t::radioIfacesSize

8.1152.2.6 uint32_t unpack_dms_GetDeviceCapabilities_t::simCapability

8.1153 unpack_dms_GetDeviceHardwareRev_t Struct Reference

Data Fields

- uint8_t stringSize
- char String [255]
- uint16_t Tlvresult

8.1153.1 Detailed Description

Structure to store the hardware revision of the device

Parameters

stringSize	• The maximum number of characters (including NULL terminator) that the string array can contain
String	• NULL terminated Hardware Revision string • Maximum Length is 255 Bytes
Tlvresult	• Unpack Result • eQCWWAN_ERR_NULL_TLV - Invalid Tlv Data.

8.1153.2 Field Documentation

8.1153.2.1 char unpack_dms_GetDeviceHardwareRev_t::String[255]

8.1153.2.2 uint8_t unpack_dms_GetDeviceHardwareRev_t::stringSize

8.1153.2.3 uint16_t unpack_dms_GetDeviceHardwareRev_t::Tlvresult

8.1154 unpack_dms_GetDeviceMfr_t Struct Reference

Data Fields

- uint8_t stringSize
- char String [255]
- uint16_t Tlvresult

8.1154.1 Detailed Description

This structure is used to store unpack_dms_GetDeviceMfr parameters

Parameters

stringSize	• The maximum number of characters (including NULL terminator) that the string array can contain
String	• NULL terminated Device Manufacture string • Maximum Length is 255 Bytes
Tlvresult	• unpack Tlv result • eQCWWAN_ERR_NULL_TLV - Invalid Tlv Data.

8.1154.2 Field Documentation

8.1154.2.1 char unpack_dms_GetDeviceMfr_t::String[255]

8.1154.2.2 uint8_t unpack_dms_GetDeviceMfr_t::stringSize

8.1154.2.3 uint16_t unpack_dms_GetDeviceMfr_t::Tlvresult

8.1155 unpack_dms_GetDeviceSerialNumbers_t Struct Reference

Data Fields

- uint8_t esnSize
- char ESNString [255]
- uint8_t imeiSize
- char IMEIString [255]
- uint8_t meidSize
- char MEIDString [255]
- uint8_t imeiSvnSize
- char ImeiSvnString [255]
- uint16_t Tlvresult

8.1155.1 Detailed Description

This structure used to store unpack_dms_GetDeviceSerialNumbers parameters

Parameters

esnSize	• The maximum number of characters (including NULL terminator) that the ESN string array can contain
ESNString	• NULL-terminated ESN string. Empty string is returned when ESN is not supported/programmed • Maximum Length is 255 Bytes
imeiSize	• The maximum number of characters (including NULL terminator) that the IMEI string array can contain
IMEIString	• NULL terminated IMEI string. Empty string is returned when IMEI is not supported/programmed • Maximum Length is 255 Bytes
meidSize	• The maximum number of characters (including NULL terminator) that the MEID string array can contain
MEIDString	• NULL-terminated MEID string. Empty string is returned when MEID is not supported/programmed • Maximum Length is 255 Bytes
imeiSvnSize	• The maximum number of characters (including NULL terminator) that the IMEI SVN string array can contain.
ImeiSvnString	• NULL-terminated IMEI SVN string. Empty string is returned when IMEI SVN is not supported/programmed. • Maximum Length is 255 Bytes
Tlvresult	• unpack Tlv Result.

8.1155.2 Field Documentation

8.1155.2.1 uint8_t unpack_dms_GetDeviceSerialNumbers_t::esnSize

8.1155.2.2 char unpack_dms_GetDeviceSerialNumbers_t::ESNString[255]

8.1155.2.3 uint8_t unpack_dms_GetDeviceSerialNumbers_t::imeiSize

8.1155.2.4 char unpack_dms_GetDeviceSerialNumbers_t::IMEIString[255]

8.1155.2.5 uint8_t unpack_dms_GetDeviceSerialNumbers_t::imeiSvnSize

8.1155.2.6 char unpack_dms_GetDeviceSerialNumbers_t::ImeiSvnString[255]

8.1155.2.7 uint8_t unpack_dms_GetDeviceSerialNumbers_t::meidSize

8.1155.2.8 char unpack_dms_GetDeviceSerialNumbers_t::MEIDString[255]

8.1155.2.9 uint16_t unpack_dms_GetDeviceSerialNumbers_t::Tlvresult

8.1156 unpack_dms_GetFirmwareInfo_t Struct Reference

Data Fields

- char modelid_str [20]
- char bootversion_str [85]
- char appversion_str [85]
- char sku_str [15]
- char packageid_str [85]
- char carrier_str [20]
- char priversion_str [16]
- char cur_carr_name [17]
- char cur_carr_rev [13]
- uint16_t Tlvresult

8.1156.1 Detailed Description

This structure used to store unpack_dms_GetFirmwareInfo parameters

Parameters

modelid_str	- Mode ID String. • NULL-terminated Mode ID String. • Invalid data : index 0 equal 0x7F
bootversion_str	- Boot Version. • NULL-terminated Boot Version String. • Invalid data : index 0 equal 0x7F
appversion_str	- Application Version String. • NULL-terminated Application Version String. • Invalid data : index 0 equal 0x7F
sku_str	- SKU String. • NULL-terminated SKU String. • Invalid data : index 0 equal 0x7F
packageid_str	- Package ID String. • NULL-terminated Package ID String. • deprecated on EM/MC74xx(9x30) devices • Invalid data : index 0 equal 0x7F
carrier_str	- Carrier String. • NULL-terminated Carrier String. • Invalid data : index 0 equal 0x7F
priversion_str	- PRI Version String. • NULL-terminated PRI Version String. • Invalid data : index 0 equal 0x7F

cur_carr_name	- Current Carrier Name String. • NULL-terminated Current Carrier Name String. • Invalid data : index 0 equal 0x7F
cur_carr_rev	- Current Carrier Revision String. • NULL-terminated Current Carrier Revision String. • Invalid data : index 0 equal 0x7F
Tlvresult	- unpack Tlv Result.

8.1156.2 Field Documentation

8.1156.2.1 char unpack_dms_GetFirmwareInfo_t::appversion_str[85]

8.1156.2.2 char unpack_dms_GetFirmwareInfo_t::bootversion_str[85]

8.1156.2.3 char unpack_dms_GetFirmwareInfo_t::carrier_str[20]

8.1156.2.4 char unpack_dms_GetFirmwareInfo_t::cur_carr_name[17]

8.1156.2.5 char unpack_dms_GetFirmwareInfo_t::cur_carr_rev[13]

8.1156.2.6 char unpack_dms_GetFirmwareInfo_t::modelid_str[20]

8.1156.2.7 char unpack_dms_GetFirmwareInfo_t::packageid_str[85]

8.1156.2.8 char unpack_dms_GetFirmwareInfo_t::priversion_str[16]

8.1156.2.9 char unpack_dms_GetFirmwareInfo_t::sku_str[15]

8.1156.2.10 uint16_t unpack_dms_GetFirmwareInfo_t::Tlvresult

8.1157 unpack_dms_GetFirmwareRevision_t Struct Reference

Data Fields

- uint8_t amssSize
- char AMSSString [255]
- char PRIString [255]
- uint16_t Tlvresult

8.1157.1 Detailed Description

This structure used to store unpack_dms_GetFirmwareRevision parameters

Parameters

amssSize	• Maximum number of characters (including NULL terminator) that the AMSS string array can contain.

AMSSString	• NULL-terminated AMSS revision string. • Maximum Length is 255 Bytes • Invalid data : index 0 equal 0x7F
PRIString[OUT]	• NULL-terminated PRI revision string. • Maximum Length is 255 Bytes • Invalid data : index 0 equal 0x7F
Tlvresult	• unpack Tlv Result.

8.1157.2 Field Documentation

8.1157.2.1 uint8_t unpack_dms_GetFirmwareRevision_t::amssSize

8.1157.2.2 char unpack_dms_GetFirmwareRevision_t::AMSSString[255]

8.1157.2.3 char unpack_dms_GetFirmwareRevision_t::PRIString[255]

8.1157.2.4 uint16_t unpack_dms_GetFirmwareRevision_t::Tlvresult

8.1158 unpack_dms_GetFirmwareRevisions_t Struct Reference

Data Fields

- uint8_t amssSize
- char AMSSString [255]
- uint8_t bootSize
- char BootString [255]
- uint8_t priSize
- char PRIString [255]
- uint16_t Tlvresult

8.1158.1 Detailed Description

This structure used to store unpack_dms_GetFirmwareRevisions parameters

Parameters

amssSize	• Maximum number of characters (including NULL terminator) that the AMSS string array can contain
AMSSString	• NULL-terminated AMSS revision string • Maximum Length is 255 Bytes • Invalid data : index 0 equal 0x7F and amssSize is equal 0.

bootSize	• Maximum number of characters (including NULL terminator) that the boot string array can contain
BootString	• NULL-terminated boot code revision string • Maximum Length is 255 Bytes • Invalid data : index 0 equal 0x7F and bootSize is equal 0.
priSize	• Maximum number of characters (including NULL terminator) that the PRI string array can contain
PRIString	• NULL-terminated PRI revision string • Maximum Length is 255 Bytes • Invalid data : index 0 equal 0x7F and priSize is equal 0.
Tlvresult	• unpack Tlv Result

8.1158.2 Field Documentation

8.1158.2.1 uint8_t unpack_dms_GetFirmwareRevisions_t::amssSize

8.1158.2.2 char unpack_dms_GetFirmwareRevisions_t::AMSSString[255]

8.1158.2.3 uint8_t unpack_dms_GetFirmwareRevisions_t::bootSize

8.1158.2.4 char unpack_dms_GetFirmwareRevisions_t::BootString[255]

8.1158.2.5 uint8_t unpack_dms_GetFirmwareRevisions_t::priSize

8.1158.2.6 char unpack_dms_GetFirmwareRevisions_t::PRIString[255]

8.1158.2.7 uint16_t unpack_dms_GetFirmwareRevisions_t::Tlvresult

8.1159 unpack_dms_GetFSN_t Struct Reference

Data Fields

- char String [255]
- uint16_t Tlvresult

8.1159.1 Detailed Description

This structure used to store Factory Sequence Number parameter

Parameters

String	• Facorty Sequence Number • Maximum Length is 255 Bytes
Tlvresult	• Unpack Result 8 - eQCWWAN_ERR_NULL_TLV - Invalid Tlv Data.

8.1159.2 Field Documentation

8.1159.2.1 char unpack_dms_GetFSN_t::String[255]

8.1159.2.2 uint16_t unpack_dms_GetFSN_t::Tlvresult

8.1160 unpack_dms_GetHardwareRevision_t Struct Reference

Data Fields

- char hwVer [255]

8.1160.1 Detailed Description

This structure used to store unpack_dms_GetHardwareRevision parameters

Parameters

hwVer	- Hardware version • NULL-terminated string • Maximum Length is 255 Bytes • Invalid data : index 0 equal 0x7F.

8.1160.2 Field Documentation

8.1160.2.1 char unpack_dms_GetHardwareRevision_t::hwVer[255]

8.1161 unpack_dms_GetIMSI_t Struct Reference

Data Fields

- char imsi [255]
- uint16_t Tlvresult

8.1161.1 Detailed Description

This structure used to store unpack_dms_GetIMSI parameters

Parameters

imsi	- IMSI no. • NULL-terminated String.
Tlvresult	- unpack Tlv Result.

8.1161.2 Field Documentation

8.1161.2.1 char unpack_dms_GetIMSI_t::imsi[255]

8.1161.2.2 uint16_t unpack_dms_GetIMSI_t::Tlvresult

8.1162 unpack_dms_GetManufacturer_t Struct Reference

Data Fields

- char manufacturer [255]
- uint16_t Tlvresult

8.1162.1 Detailed Description

This structure is used to store device manufacturer information.

Parameters

manufacturer[OUT]	• NULL terminated string
Tlvresult	• Unpack Result • eQCWWAN_ERR_NULL_TLV - Invalid Tlv Data.

8.1162.2 Field Documentation

8.1162.2.1 char unpack_dms_GetManufacturer_t::manufacturer[255]

8.1162.2.2 uint16_t unpack_dms_GetManufacturer_t::Tlvresult

8.1163 unpack_dms_GetModelID_t Struct Reference

Data Fields

- char modelid [255]
- uint16_t Tlvresult

8.1163.1 Detailed Description

This structure used to store unpack_dms_GetModelID parameters

Parameters

modelid	- Device model id. • NULL-terminated String.
Tlvresult	- unpack Tlv Result.

8.1163.2 Field Documentation

8.1163.2.1 char unpack_dms_GetModelID_t::modelid[255]

8.1163.2.2 uint16_t unpack_dms_GetModelID_t::Tlvresult

8.1164 unpack_dms_GetNetworkTime_t Struct Reference

Data Fields

- uint16_t source
- uint64_t timestamp
- uint16_t Tlvresult

8.1164.1 Detailed Description

This structure used to store unpack_dms_GetNetworkTime parameters

Parameters

source	• Source of timestamp 0 - 32 kHz device clock 1 - CDMA network 2 - cdma2000 1xEV-DO network
timestamp	• Count of 1.25 ms that have elapsed from the start of GPS time (Jan 6, 1980)
Tlvresult	• Unpack Result • eQCWWAN_ERR_NULL_TLV - Invalid Tlv Data.

Note

The source of the timestamp provided specifies how the timestamp was determined. The first network time that is available will be returned. If no network time is available, the timestamp is taken from the 32 kHz slow-clock of the device.

8.1164.2 Field Documentation

8.1164.2.1 uint16_t unpack_dms_GetNetworkTime_t::source

8.1164.2.2 uint64_t unpack_dms_GetNetworkTime_t::timestamp

8.1164.2.3 uint16_t unpack_dms_GetNetworkTime_t::Tlvresult

8.1165 unpack_dms_GetOfflineReason_t Struct Reference

Data Fields

- uint32_t * pReasonMask
- uint32_t * pbPlatform
- uint16_t Tlvresult

8.1165.1 Detailed Description

This structure is used to store reason why the operating mode of the device is currently offline.

Parameters

pReasonMask[-OUT]	• Optional parameter • Bitmask of offline reasons – 0x00000001 - Host image configuration issue – 0x00000002 - PRI image configuration issue – 0x00000004 - PRI version incompatible – 0x00000008 - PRI copy issue – All others - Reserved – NULL pointer - Invalid data.
pbPlatform[OUT]	• Optional parameter • Is the device offline due to a platform restriction? – 0 - No – 1 - Yes – NULL pointer - Invalid data.
Tlvresult	• Unpack Result

8.1165.2 Field Documentation

8.1165.2.1 uint32_t* unpack_dms_GetOfflineReason_t::pbPlatform

8.1165.2.2 uint32_t* unpack_dms_GetOfflineReason_t::pReasonMask

8.1165.2.3 uint16_t unpack_dms_GetOfflineReason_t::Tlvresult

8.1166 unpack_dms_GetPower_t Struct Reference

Data Fields

- uint32_t OperationMode
- uint32_t OfflineReason
- uint32_t HardwareControlledMode
- uint16_t Tlvresult

8.1166.1 Detailed Description

This structure used to store unpack_dms_GetPower parameters

Parameters

OperationMode	- operating mode. • 0 - Online (default). • 1 - Low power (airplane) mode. • 2 - Factory test mode. • 3 - Offline. • 4 - Resetting. • 5 - Power off. • 6 - Persistent low power (airplane) mode. • 7 - Mode - only low power. • 0xff - Invalid data.

Note

Valid transitions for Power Modes

- Online to Low Power, Persistent low power, Factory test, Offline or Shut Down
- Low power to online, Persistent low power, Offline, or Shut Down
- Persistent low power to Online, Low power, Offline or Shut down
- Factory test to online
- Offline to Reset

Parameters

OfflineReason	- offline reason. • 0x0001 - Host image misconfiguration. • 0x0002 - PRI image misconfiguration. • 0x0004 - PRI version incompatible. • 0x0008 - Device memory is full,cannot copy PRI information. • 0xffff - Invalid data.
Hardware-ControlledMode	- hardware restricted mode. • 0x00 - FALSE. • 0x01 - TRUE. • 0xFF - Invalid data.
Tlvresult	- unpack Tlv Result. • eQCWWAN_ERR_NULL_TLV - Invalid Tlv Data.

8.1166.2 Field Documentation

8.1166.2.1 uint32_t unpack_dms_GetPower_t::HardwareControlledMode

8.1166.2.2 uint32_t unpack_dms_GetPower_t::OfflineReason

8.1166.2.3 uint32_t unpack_dms_GetPower_t::OperationMode

8.1166.2.4 uint16_t unpack_dms_GetPower_t::Tlvresult

8.1167 unpack_dms_GetPRLVersion_t Struct Reference

Data Fields

- uint8_t u8PRLPreference
- uint16_t u16PRLVersion
- uint16_t Tlvresult

8.1167.1 Detailed Description

This structure used to store unpack_dms_GetPRLVersion parameters

Parameters

u8PRL-Preference	• PRL Preference – 0 - Unset – 1 - Set – 0xff invalid data.
u16PRLVersion	• PRL version of device. • 0xffff invalid data.
Tlvresult	• unpack Tlv Result

8.1167.2 Field Documentation

8.1167.2.1 uint16_t unpack_dms_GetPRLVersion_t::Tlvresult

8.1167.2.2 uint16_t unpack_dms_GetPRLVersion_t::u16PRLVersion

8.1167.2.3 uint8_t unpack_dms_GetPRLVersion_t::u8PRLPreference

8.1168 unpack_dms_GetSerialNumbers_t Struct Reference

Data Fields

- char esn [255]
- char imei_no [255]
- char meid [255]
- char imeisv_svn [255]

8.1168.1 Detailed Description

This structure used to store unpack_dms_GetSerialNumbers parameters

Parameters

esn	- Electronic Serial Number of the device. • NULL-terminated ESN string. Empty string is returned when ESN is not supported/programmed. • Invalid data : index 0 equal 0x7F.
imei_no	- International Mobile Equipment Identity of the device. • NULL terminated IMEI string. Empty string is returned when IMEI is not supported/programmed. • Invalid data : index 0 equal 0x7F.
meid	- Mobile Equipment Identifier of the device. • NULL-terminated MEID string. Empty string is returned when MEID is not supported/programmed. • Invalid data : index 0 equal 0x7F.
imeisv_svn	- NULL-terminated IMEI SVN string. Empty string is returned when IMEI SVN is not supported/programmed.imei software version revision. • Invalid data : index 0 equal 0x7F.

8.1168.2 Field Documentation

8.1168.2.1 char unpack_dms_GetSerialNumbers_t::esn[255]

8.1168.2.2 char unpack_dms_GetSerialNumbers_t::imei_no[255]

8.1168.2.3 char unpack_dms_GetSerialNumbers_t::imeisv_svn[255]

8.1168.2.4 char unpack_dms_GetSerialNumbers_t::meid[255]

8.1169 unpack_dms_GetUSBComp_t Struct Reference

Data Fields

- uint8_t USBComp [255]
- uint8_t NumSupUSBComps
- uint8_t SupUSBComps
- uint16_t Tlvresult

8.1169.1 Detailed Description

This structure is used to store retrieved USB Composition

Parameters

USBComp	• Current USB Composition(optional parameter) • Values: – 0..5 - Reserved (non-QMI) – 6 - DM NMEA AT QMI – 7 - DM NMEA AT QMI1 QMI2 QMI3 – 8 - DM NMEA AT MBIM – 9 - MBIM – 10 - NMEA MBIM – 11 - DM MBIM – 12 - DM NMEA MBIM 13-22 are combined compositions. One is for Win8 MBIM interfaces, another is for legacy QMI interfaces – 13 - 6 for QMI, 8 for MBIM – 14 - 6 for QMI, 9 for MBIM – 15 - 6 for QMI, 10 for MBIM – 16 - 6 for QMI, 11 for MBIM – 17 - 6 for QMI, 12 for MBIM – 18 - 7 for QMI, 8 for MBIM – 19 - 7 for QMI, 9 for MBIM – 20 - 7 for QMI, 10 for MBIM – 21 - 7 for QMI, 11 for MBIM – 22 - 7 for QMI, 12 for MBIM
NumSupUSB-Comps	• Number of supported USB compositions in the parameter to follow • Range - 0-255 • Invalid data : USBComp index 0 equal 0x7F and NumSupUSBComps is equal 0.

SupUSBComps	• Optional parameter • List of supported USB compositions(1 Byte each - Max 255) • Total length is defined by pNumSupUSBComps parameter • Values: – 0..5 - Reserved (non-QMI) – 6 - DM NMEA AT QMI – 7 - DM NMEA AT QMI1 QMI2 QMI3 – 8 - DM NMEA AT MBIM – 9 - MBIM – 10 - NMEA MBIM – 11 - DM MBIM – 12 - DM NMEA MBIM 13-22 are combined compositions. One is for Win8 MBIM interfaces, another is for legacy QMI interfaces – 13 - 6 for QMI, 8 for MBIM – 14 - 6 for QMI, 9 for MBIM – 15 - 6 for QMI, 10 for MBIM – 16 - 6 for QMI, 11 for MBIM – 17 - 6 for QMI, 12 for MBIM – 18 - 7 for QMI, 8 for MBIM – 19 - 7 for QMI, 9 for MBIM – 20 - 7 for QMI, 10 for MBIM – 21 - 7 for QMI, 11 for MBIM – 22 - 7 for QMI, 12 for MBIM – 255 - invalid data.
Tlvresult	• unpack Tlv Result.

8.1169.2 Field Documentation

8.1169.2.1 uint8_t unpack_dms_GetUSBComp_t::NumSupUSBComps

8.1169.2.2 uint8_t unpack_dms_GetUSBComp_t::SupUSBComps

8.1169.2.3 uint16_t unpack_dms_GetUSBComp_t::Tlvresult

8.1169.2.4 uint8_t unpack_dms_GetUSBComp_t::USBComp[255]

8.1170 unpack_dms_GetVoiceNumber_t Struct Reference

Data Fields

- uint8_t voiceNumberSize
- char VoiceNumber [255]
- uint8_t minSize
- char MIN [255]
- uint16_t Tlvresult

8.1170.1 Detailed Description

Structure to store the voice number in use by the device

Parameters

voiceNumber-Size	• Maximum number of characters (including NULL terminator) that the voice number array can contain.
VoiceNumber	• Voice number string: MDN or MS ISDN • Maximum Length is 255 Bytes • Invalid data : index 0 equal 0x7F and voiceNumberSize is equal 0.
minSize	• Maximum number of characters (including NULL terminator) that the MIN array can contain.
MIN	• Optional Parameter • MIN string: Empty string returned when MIN is not supported/ programmed. • Maximum Length is 255 Bytes • Invalid data : index 0 equal 0x7F and minSize is equal 0.
Tlvresult	• Unpack Result

8.1170.2 Field Documentation

8.1170.2.1 char unpack_dms_GetVoiceNumber_t::MIN[255]

8.1170.2.2 uint8_t unpack_dms_GetVoiceNumber_t::minSize

8.1170.2.3 uint16_t unpack_dms_GetVoiceNumber_t::Tlvresult

8.1170.2.4 char unpack_dms_GetVoiceNumber_t::VoiceNumber[255]

8.1170.2.5 uint8_t unpack_dms_GetVoiceNumber_t::voiceNumberSize

8.1171 unpack_dms_PSMCfgChange_ind_t Struct Reference

Data Fields

- dms_PSMEnableStateIndTlv EnableState
- dms_PSMActiveTimerIndTlv ActiveTimer
- dms_PSMPeriodicUpdateTimerIndTlv PeriodicUpdateTimer
- uint16_t Tlvresult

8.1171.1 Detailed Description

DMS Event Report indication structure

Parameters

EnableState	• See dms_PSMEnableStateIndTlv
ActiveTimer	• See dms_PSMActiveTimerIndTlv
PeriodicUpdate-Timer	• See dms_PSMPeriodicUpdateTimerIndTlv
Tlvresult	• Unpack Result

8.1171.2 Field Documentation

8.1171.2.1 dms_PSMActiveTimerIndTlv unpack_dms_PSMCfgChange_ind_t::ActiveTimer

8.1171.2.2 dms_PSMEnableStateIndTlv unpack_dms_PSMCfgChange_ind_t::EnableState

8.1171.2.3 dms_PSMPeriodicUpdateTimerIndTlv unpack_dms_PSMCfgChange_ind_t::PeriodicUpdateTimer

8.1171.2.4 uint16_t unpack_dms_PSMCfgChange_ind_t::Tlvresult

8.1172 unpack_dms_ResetToFactoryDefaults_t Struct Reference

Data Fields

- uint16_t Tlvresult

8.1172.1 Detailed Description

This structure contains reset to factory default unpack

Parameters

Tlvresult	• Unpack Result

8.1172.2 Field Documentation

8.1172.2.1 uint16_t unpack_dms_ResetToFactoryDefaults_t::Tlvresult

8.1173 unpack_dms_SetActivationStatusCallback_t Struct Reference

Data Fields

- uint16_t Tlvresult

8.1173.1 Detailed Description

This structure is used to store Set Service Activation Status callback parameter unpack.

Parameters

Tlvresult	• Unpack Result

8.1173.2 Field Documentation

8.1173.2.1 uint16_t unpack_dms_SetActivationStatusCallback_t::Tlvresult

8.1174 unpack_dms_SetCrashAction_t Struct Reference

Data Fields

- uint8_t notused

8.1174.1 Detailed Description

This structure is used to store unpack_dms_SetCrashAction parameters

Parameters

notused	• unpack Tlv result

8.1174.2 Field Documentation

8.1174.2.1 uint8_t unpack_dms_SetCrashAction_t::notused

8.1175 unpack_dms_SetCustFeature_t Struct Reference

Data Fields

- uint16_t Tlvresult

8.1175.1 Detailed Description

This structure is used to store unpack_dms_SetCustFeature parameters

Parameters

Tlvresult	• unpack Tlv Result.

8.1175.2 Field Documentation

8.1175.2.1 uint16_t unpack_dms_SetCustFeature_t::Tlvresult

8.1176 unpack_dms_SetCustFeaturesV2_t Struct Reference

Data Fields

- uint16_t Tlvresult

8.1176.1 Detailed Description

This structure contains customization settings set to modem unpack

Parameters

Tlvresult	• Unpack Result

8.1176.2 Field Documentation

8.1176.2.1 uint16_t unpack_dms_SetCustFeaturesV2_t::Tlvresult

8.1177 unpack_dms_SetEventReport_ind_t Struct Reference

Data Fields

- dms_ActivationStatusTlv ActivationStatusTlv
- dms_OperatingModeTlv OperatingModeTlv
- uint16_t Tlvresult

8.1177.1 Detailed Description

DMS Event Report indication structure

Parameters

ActivationStatus-Tlv	• See dms_ActivationStatusTlv
OperatingMode-Tlv	• See dms_OperatingModeTlv
Tlvresult	• Unpack Result

8.1177.2 Field Documentation

8.1177.2.1 dms_ActivationStatusTlv unpack_dms_SetEventReport_ind_t::ActivationStatusTlv

8.1177.2.2 dms_OperatingModeTlv unpack_dms_SetEventReport_ind_t::OperatingModeTlv

8.1177.2.3 uint16_t unpack_dms_SetEventReport_ind_t::Tlvresult

8.1178 unpack_dms_SetEventReport_t Struct Reference

Data Fields

- uint16_t Tlvresult

8.1178.1 Detailed Description

This structure is used to store unpack_dms_SetEventReport parameters.

Parameters

Tlvresult	• unpack Tlv result

8.1178.2 Field Documentation

8.1178.2.1 uint16_t unpack_dms_SetEventReport_t::Tlvresult

8.1179 unpack_dms_SetFirmwarePreference_t Struct Reference

Data Fields

- uint16_t Tlvresult

8.1179.1 Detailed Description

This structure is used to store unpack_dms_SetFirmwarePreference parameters

Parameters

Tlvresult	• unpack Tlv result

8.1179.2 Field Documentation

8.1179.2.1 uint16_t unpack_dms_SetFirmwarePreference_t::Tlvresult

8.1180 unpack_dms_SetIndicationRegister_t Struct Reference

Data Fields

- uint16_t Tlvresult

8.1180.1 Detailed Description

This structure is used to store unpack_dms_SetIndicationRegister parameters.

Parameters

Tlvresult	• unpack Tlv result

8.1180.2 Field Documentation

8.1180.2.1 uint16_t unpack_dms_SetIndicationRegister_t::Tlvresult

8.1181 unpack_dms_SetPower_t Struct Reference

Data Fields

- uint16_t Tlvresult

8.1181.1 Detailed Description

Structure to store unpack the operating mode of the device.

Parameters

Tlvresult	• unpack Tlv Result.

8.1181.2 Field Documentation

8.1181.2.1 uint16_t unpack_dms_SetPower_t::Tlvresult

8.1182 unpack_dms_SetUSBComp_t Struct Reference

Data Fields

- uint16_t Tlvresult

8.1182.1 Detailed Description

This structure is used to store unpack USB composition information

Parameters

Tlvresult	• unpack Tlv Result.

8.1182.2 Field Documentation

8.1182.2.1 uint16_t unpack_dms_SetUSBComp_t::Tlvresult

8.1183 unpack_dms_SLQSDmsSwiGetPCInfo_t Struct Reference

Data Fields

- uint8_t opMode
- int has_LpmFlag
- uint32_t LpmFlag
- int has_Wdisable
- uint8_t Wdisable
- int has_PowerOffMode
- uint8_t PowerOffMode
- int has_PersistentLpm
- uint8_t PersistentLpm

8.1183.1 Detailed Description

This structure contains the TLV required to Get device power control status information.

Parameters

opMode	• Selected operating mode. • Values – 0 - Online – 1 - Low power – 2 - Factory Test mode – 3 - Offline – 4 - Resetting – 5 - Shutting down – 6 - Persistent low power – 8 - Conducting network test for GSM/WCDMA
has_LpmFlag	LPM Flag Availability. • 0 : Unavailable. • 1 : Available.
LpmFlag[-Optional]	• LPM Force Flags • Bitmask – bit0 - Tracks the state of W_DISABLE TLV, indicating state of the W_DISABLE switch. – bit1 - Set if LPM is requested by a host request, such as AT command, QMI or MBIM request. Cleared by a host request to return to online mode. Also set when the device is cold or warm booted in persistent LPM. – bit2 - Set when the device temperature is outside the valid operating range. Cleared if the temperature returns to the normal range. – bit3 - Set when the device voltage is outside the valid operating range. Cleared if the voltage returns to the normal range. – bit4 - Set on power up when BIOS locking is enabled. Cleared when the host has disabled the BIOS lock. – bit5 - Set if the current device configuration does not match the GOBI image preference. – bit6-31 - Additional LPM causes may be added to future products.
has_Wdisable	W-Disable Availability. • 0 : Unavailable. • 1 : Available.

Wdisable[-Optional]	• W_DISABLE • Values – 0 - Switch set to ON position – 1 - Switch set to OFF position
has_PowerOff-Mode	Power off mode Availability. • 0 : Unavailable. • 1 : Available.
PowerOffMode[-Optional]	• Power-off Mode • Action taken when W_DISABLE is switched to the OFF position – 0 - LPM – 1 - Shutdown – 2 - Ignore
has_Persistent-Lpm	Persistent LPM Availability. • 0 : Unavailable. • 1 : Available.
PersistentLpm[-Optional]	• LPM Persistence • Values – 0 - Non-persistent LPM – 1 - Persistent LPM

8.1183.2 Field Documentation

8.1183.2.1 int unpack_dms_SLQSDmsSwiGetPCInfo_t::has_LpmFlag

8.1183.2.2 int unpack_dms_SLQSDmsSwiGetPCInfo_t::has_PersistentLpm

8.1183.2.3 int unpack_dms_SLQSDmsSwiGetPCInfo_t::has_PowerOffMode

8.1183.2.4 int unpack_dms_SLQSDmsSwiGetPCInfo_t::has_Wdisable

8.1183.2.5 uint32_t unpack_dms_SLQSDmsSwiGetPCInfo_t::LpmFlag

8.1183.2.6 uint8_t unpack_dms_SLQSDmsSwiGetPCInfo_t::opMode

8.1183.2.7 uint8_t unpack_dms_SLQSDmsSwiGetPCInfo_t::PersistentLpm

8.1183.2.8 uint8_t unpack_dms_SLQSDmsSwiGetPCInfo_t::PowerOffMode

8.1183.2.9 uint8_t unpack_dms_SLQSDmsSwiGetPCInfo_t::Wdisable

8.1184 unpack_dms_SLQSDmsSwiGetResetInfo_Ind_t Struct Reference

Data Fields

- uint8_t type
- uint8_t source
- uint16_t Tlvresult

8.1184.1 Detailed Description

This structure contains the TLV required to Get Reset Info.

Parameters

type[OUT]	• type of reset or power down, possible values listed below: – 0 - unknown – 1 - warm – 2 - hard – 3 - crash – 4 - power down
source[OUT]	• entity which initiated the reset or power down, possible values listed below: – 0 - unknown – 1 - user requested (AT!RESET, AT!BOOTHOLD, FW/PRI download - including host-initiated image switching) – 2 - hardware switch (W_DISABLE) – 3 - temperature critical – 4 - voltage critical – 5 - configuration update (SIM-based image switching, RMA reset, NVUPs which request a reset) – 6 - LWM2M (Light Weight M2M client (internal process for LWM2M)) – 7 - OMA-DM – 8 - FOTA
Tlvresult[OUT]	• Unpack Result 8 - eQCWWAN_ERR_NULL_TLV - Invalid Tlv Data.

8.1184.2 Field Documentation

8.1184.2.1 uint8_t unpack_dms_SLQSDmsSwiGetResetInfo_Ind_t::source

8.1184.2.2 uint16_t unpack_dms_SLQSDmsSwiGetResetInfo_Ind_t::Tlvresult

8.1184.2.3 uint8_t unpack_dms_SLQSDmsSwiGetResetInfo_Ind_t::type

8.1185 unpack_dms_SLQSDmsSwiGetResetInfo_t Struct Reference

Data Fields

- uint8_t type
- uint8_t source
- uint16_t Tlvresult

8.1185.1 Detailed Description

This structure contains the TLV required to Get Reset Info.

Parameters

type[OUT]	• type of reset or power down, possible values listed below: – 0 - unknown – 1 - warm – 2 - hard – 3 - crash – 4 - power down – 255 - invalid data.
source[OUT]	• entity which initiated the reset or power down, possible values listed below: – 0 - unknown – 1 - user requested (AT!RESET, AT!BOOTHOLD, FW/PRI download - including host-initiated image switching) – 2 - hardware switch (W_DISABLE) – 3 - temperature critical – 4 - voltage critical – 5 - configuration update (SIM-based image switching, RMA reset, NVUPs which request a reset) – 6 - LWM2M (Light Weight M2M client (internal process for LWM2M)) – 7 - OMA-DM – 8 - FOTA – 255 - invalid data.
Tlvresult	• Unpack Result • eQCWWAN_ERR_NULL_TLV - Invalid Tlv Data.

8.1185.2 Field Documentation

8.1185.2.1 uint8_t unpack_dms_SLQSDmsSwiGetResetInfo_t::source

8.1185.2.2 uint16_t unpack_dms_SLQSDmsSwiGetResetInfo_t::Tlvresult

8.1185.2.3 uint8_t unpack_dms_SLQSDmsSwiGetResetInfo_t::type

8.1186 unpack_dms_SLQSDmsSwiIndicationRegister_t Struct Reference

Data Fields

- uint16_t Tlvresult

8.1186.1 Detailed Description

This structure contains set registration state for different indication unpack

Parameters

Tlvresult	• Unpack Result

8.1186.2 Field Documentation

8.1186.2.1 uint16_t unpack_dms_SLQSDmsSwiIndicationRegister_t::Tlvresult

8.1187 unpack_dms_SLQSGetBandCapability_t Struct Reference

Data Fields

- uint64_t bandCapability
- int is_LteBandCapability_Available
- uint64_t LteBandCapability
- int is_TdsBandCapability_Available
- uint64_t TdsBandCapability

8.1187.1 Detailed Description

This structure contains the Band Capabilities response.

Please check is_<Param_Name>_Available field for presence of optional parameters

Parameters

bandCapability[-OUT]	Bitmask of bands supported by the device • Bit 0 - Band class 0, A-system • Bit 1 - Band class 0, B-system • Bit 2 - Band class 1, all blocks • Bit 3 - Band class 2 • Bit 4 - Band class 3, A-system • Bit 5 - Band class 4, all blocks • Bit 6 - Band class 5, all blocks • Bit 7 - GSM DCS band (1800) • Bit 8 - GSM Extended GSM (E-GSM) band (900) • Bit 9 - GSM Primary GSM (P-GSM) band (900) • Bit 10 - Band class 6 • Bit 11 - Band class 7 • Bit 12 - Band class 8 • Bit 13 - Band class 9 • Bit 14 - Band class 10 • Bit 15 - Band class 11 • Bit 16 - GSM 450 band • Bit 17 - GSM 480 band • Bit 18 - GSM 750 band • Bit 19 - GSM 850 band • Bit 20 - GSM railways GSM band (900) • Bit 21 - GSM PCS band (1900) • Bit 22 - WCDMA (Europe, Japan, and China) 2100 band • Bit 23 - WCDMA US PCS 1900 band • Bit 24 - WCDMA (Europe and China) DCS 1800 band • Bit 25 - WCDMA US 1700 band • Bit 26 - WCDMA US 850 band • Bit 27 - WCDMA Japan 800 band • Bit 28 - Band class 12 • Bit 29 - Band class 14 • Bit 30 - Reserved • Bit 31 - Band class 15 • Bits 32 through 47 - Reserved • Bit 48 - WCDMA Europe 2600 band • Bit 49 - WCDMA Europe and Japan 900 band • Bit 50 - WCDMA Japan 1700 band • Bits 51 through 55 - Reserved • Bit 56 - Band class 16 • Bit 57 - Band class 17 • Bit 58 - Band class 18 • Bit 59 - Band class 19 • Bit 60 - WCDMA Japan 850 band • Bit 61 - WCDMA 1500 band • Bits 62 and 63 - Reserved • 0xffffffffffffffff - invalid data

is_LteBand-Capability_-Available[OUT]	LTE Band Capabilities Availability. • 0 : Unavailable. • 1 : Available.
LteBand-Capability[OUT]	Bitmask of LTE bands supported by the device • Bit 0 - LTE EUTRAN Band 1 UL:1920-1980; DL: 2110-2170 • Bit 1 - LTE EUTRAN Band 2 UL:1850-1910; DL: 1930-1990 • Bit 2 - LTE EUTRAN Band 3 UL:1710-1785; DL: 1805-1880 • Bit 3 - LTE EUTRAN Band 4 UL:1710-1755; DL: 2110-2155 • Bit 4 - LTE EUTRAN Band 5 UL: 824-849; DL: 869-894 • Bit 5 - LTE EUTRAN Band 6 UL: 830-840; DL: 875-885 • Bit 6 - LTE EUTRAN Band 7 UL:2500-2570; DL: 2620-2690 • Bit 7 - LTE EUTRAN Band 8 UL: 880-915; DL: 925-960 • Bit 8 - LTE EUTRAN Band 9 UL:1749.9-1784.9; DL: 1844.9-1879.9 • Bit 9 - LTE EUTRAN Band 10 UL:1710-1770; DL: 2110-2170 • Bit 10 - LTE EUTRAN Band 11 UL:1427.9-1452.9; DL: 1475.9-1500.9 • Bit 11 - LTE EUTRAN Band 12 UL:698-716; DL: 728-746 • Bit 12 - LTE EUTRAN Band 13 UL: 777-787; DL: 746-756 • Bit 13 - LTE EUTRAN Band 14 UL: 788-798; DL: 758-768 • Bits 14 and 15 - Reserved • Bit 16 - LTE EUTRAN Band 17 UL: 704-716; DL: 734-746 • Bit 17 - LTE EUTRAN Band 18 UL: 815-830; DL: 860-875 • Bit 18 - LTE EUTRAN Band 19 UL: 830-845; DL: 875-890 • Bit 19 - LTE EUTRAN Band 20 UL: 832-862; DL: 791-821 • Bit 20 - LTE EUTRAN Band 21 UL: 1447.9-1462.9; DL: 1495.9-1510.9 • Bit 21 - Reserved • Bit 22 - LTE EUTRAN Band 23 UL: 2000-2020; DL: 2180-2200 • Bit 23 - LTE EUTRAN Band 24 UL: 1626.5-1660.5; DL: 1525-1559 • Bit 24 - LTE EUTRAN Band 25 UL: 1850-1915; DL: 1930-1995 • Bit 25 - LTE EUTRAN Band 26 UL: 814-849; DL: 859-894 • Bit 26 - Reserved • Bit 27 - LTE EUTRAN Band 28 UL: 703-748; DL: 758-803 • Bit 28 - LTE EUTRAN Band 29 UL: 1850-1910 or 1710-1755; DL: 716-728 • Bit 29 - LTE EUTRAN Band 30 UL: 2350-2360; DL: 2305-2315 • Bit 30 - Reserved • Bit 31 - LTE EUTRAN Band 32 DL: 9920-10359 • Bit 32 - LTE EUTRAN Band 33 UL: 1900-1920; DL: 1900-1920 • Bit 33 - LTE EUTRAN Band 34 UL: 2010-2025; DL: 2010-2025 • Bit 34 - LTE EUTRAN Band 35 UL: 1850-1910; DL: 1850-1910 • Bit 35 - LTE EUTRAN Band 36 UL: 1930-1990; DL: 1930-1990 • Bit 36 - LTE EUTRAN Band 37 UL: 1910-1930; DL: 1910-1930 • Bit 37 - LTE EUTRAN Band 38 UL: 2570-2620; DL: 2570-2620 • Bit 38 - LTE EUTRAN Band 39 UL: 1880-1920; DL: 1880-1920 • Bit 39 - LTE EUTRAN Band 40 UL: 2300-2400; DL: 2300-2400 • Bit 40 - LTE EUTRAN Band 41 UL: 2496-2690; DL: 2496-2690 • Bit 41 - LTE EUTRAN Band 42 UL: 3400-3600; DL: 3400-3600 • Bit 42 - LTE EUTRAN Band 43 UL: 3600-3800; DL: 3600-3800 • Bits 43 through 64 - Reserved

is_TdsBand-Capability_-Available[OUT]	TDS Band Capabilities Availability. • 0 : Unavailable. • 1 : Available.
TdsBand-Capability[OUT]	Bitmask of TDS bands supported by the device. • Bit 0 - TDS Band A 1900 to 1920 MHz, 2010 to 2020 MHz • Bit 1 - TDS Band B 1850 to 1910 MHz, 1930 to 1990 MHz • Bit 2 - TDS Band C 1910 to 1930 MHz • Bit 3 - TDS Band D 2570 to 2620 MHz • Bit 4 - TDS Band E 2300 to 2400 MHz • Bit 5 - TDS Band F 1880 to 1920 MHz

8.1187.2 Field Documentation

8.1187.2.1 uint64_t unpack_dms_SLQSGetBandCapability_t::bandCapability

8.1187.2.2 int unpack_dms_SLQSGetBandCapability_t::is_LteBandCapability_Available

8.1187.2.3 int unpack_dms_SLQSGetBandCapability_t::is_TdsBandCapability_Available

8.1187.2.4 uint64_t unpack_dms_SLQSGetBandCapability_t::LteBandCapability

8.1187.2.5 uint64_t unpack_dms_SLQSGetBandCapability_t::TdsBandCapability

8.1188 unpack_dms_SLQSGetERIFile_t Struct Reference

Data Fields

- uint16_t Tlvresult
- eriDataparams eriFile

8.1188.1 Detailed Description

This structure contains Get ERI file unpack

Parameters

Tlvresult	• Unpack Result • eQCWWAN_ERR_NULL_TLV - Invalid TLV data.
eriFile	• Pointer to structure ERIFileparams • See eriDataparams for more information

8.1188.2 Field Documentation

8.1188.2.1 eriDataparams unpack_dms_SLQSGetERIFile_t::eriFile

8.1188.2.2 uint16_t unpack_dms_SLQSGetERIFile_t::Tlvresult

8.1189 unpack_dms_SLQSGetPowerSaveModeConfig_t Struct Reference

Data Fields

- dms_PSMEnableStateTlv * pPsmEnableState
- dms_PSMDurationThresholdTlv * pDurationThreshold
- dms_PSMDurationDueToOOSTlv * pDurationDueToOOS
- dms_PSMRandomizationWindowTlv * pRandomizationWindow
- dms_PSMActiveTimerTlv * pActiveTimer
- dms_PSMPeriodicUpdateTimerTlv * pPeriodicUpdateTimer
- dms_PSMEarlyWakeupTimeTlv * pEarlyWakeupTime

8.1189.1 Detailed Description

This structure contains the Power Save Mode (PSM) configuration parameter.

Parameters

pPsmEnable-State	[Optional] • See dms_PSMEnableStateTlv for more information
pDuration-Threshold	[Optional] • See dms_PSMDurationThresholdTlv for more information
pDurationDueTo-OOS	[Optional] • See dms_PSMDurationDueToOOSTlv for more information
pRandomization-Window	[Optional] • See dms_PSMRandomizationWindowTlv for more information
pActiveTimer	[Optional] • See dms_PSMActiveTimerTlv for more information
pPeriodic-UpdateTimer	[Optional] • See dms_PSMPeriodicUpdateTimerTlv for more information
pEarlyWakeup-Time	[Optional] • See dms_PSMEarlyWakeupTimeTlv for more information

8.1189.2 Field Documentation

8.1189.2.1 dms_PSMActiveTimerTlv* unpack_dms_SLQSGetPowerSaveModeConfig_t::pActiveTimer

8.1189.2.2 dms_PSMDurationDueToOOSTlv* unpack_dms_SLQSGetPowerSaveModeConfig_t::pDurationDueToOOS

8.1189.2.3 dms_PSMDurationThresholdTlv* unpack_dms_SLQSGetPowerSaveModeConfig_t::pDurationThreshold

8.1189.2.4 dms_PSMEarlyWakeupTimeTlv* unpack_dms_SLQSGetPowerSaveModeConfig_t::pEarlyWakeupTime

8.1189.2.5 dms_PSMPeriodicUpdateTimerTlv* unpack_dms_SLQSGetPowerSaveModeConfig_t::pPeriodicUpdateTimer

8.1189.2.6 dms_PSMEnableStateTlv* unpack_dms_SLQSGetPowerSaveModeConfig_t::pPsmEnableState

8.1189.2.7 dms_PSMRandomizationWindowTlv* unpack_dms_SLQSGetPowerSaveModeConfig_t::pRandomization-Window

8.1190 unpack_dms_SLQSSetPowerSaveModeConfig_t Struct Reference

Data Fields

- uint16_t Tlvresult

8.1190.1 Detailed Description

This structure is used to store unpack_dms_SLQSSetPowerSaveModeConfig parameters.

Parameters

Tlvresult	• unpack Tlv result

8.1190.2 Field Documentation

8.1190.2.1 uint16_t unpack_dms_SLQSSetPowerSaveModeConfig_t::Tlvresult

8.1191 unpack_dms_SLQSSwiClearDyingGaspStatistics_t Struct Reference

Data Fields

- uint16_t Tlvresult

8.1191.1 Detailed Description

This structure contains Clear Dying GASP unpack

Parameters

Tlvresult	• Unpack Result

8.1191.2 Field Documentation

8.1191.2.1 uint16_t unpack_dms_SLQSSwiClearDyingGaspStatistics_t::Tlvresult

8.1192 unpack_dms_SLQSSwiGetCrashInfo_t Struct Reference

Data Fields

- uint16_t Tlvresult
- crashInfoParams crashInfoParam

8.1192.1 Detailed Description

This structure contains SWI get crash information unpack information

Parameters

Tlvresult	• Unpack Result
crashInfoParam[-OUT]	• See crashInfoParams

8.1192.2 Field Documentation

8.1192.2.1 **crashInfoParams** unpack_dms_SLQSSwiGetCrashInfo_t::crashInfoParam

8.1192.2.2 uint16_t unpack_dms_SLQSSwiGetCrashInfo_t::Tlvresult

8.1193 unpack_dms_SLQSSwiGetDyingGaspCfg_t Struct Reference

Data Fields

- packgetDyingGaspCfg * pGetDyingGaspCfg
- uint16_t Tlvresult

8.1193.1 Detailed Description

This structure contains Get Dying GASP Config unpack

Parameters

pGetDyingGasp-Cfg	• See packgetDyingGaspCfg • NULL pDestSMSNum for invalid data. • NULL pDestSMSContent for invalid data.
Tlvresult	• Unpack Result

8.1193.2 Field Documentation

8.1193.2.1 **packgetDyingGaspCfg*** unpack_dms_SLQSSwiGetDyingGaspCfg_t::pGetDyingGaspCfg

8.1193.2.2 uint16_t unpack_dms_SLQSSwiGetDyingGaspCfg_t::Tlvresult

8.1194 unpack_dms_SLQSSwiGetDyingGaspStatistics_t Struct Reference

Data Fields

- packgetDyingGaspStatistics * pGetDyingGaspStatistics
- uint16_t Tlvresult

8.1194.1 Detailed Description

This structure contains Get Dying GASP Statistics unpack.

Parameters

pGetDyingGasp-Statistics	• See packgetDyingGaspStatistics • NULL pTimeStamp for invalid Timestamp data. • NULL pSMSAttemptedFlag for invalid SMS attempted data.
Tlvresult	• Unpack Result

8.1194.2 Field Documentation

8.1194.2.1 packgetDyingGaspStatistics∗ unpack_dms_SLQSSwiGetDyingGaspStatistics_t::pGetDyingGaspStatistics

8.1194.2.2 uint16_t unpack_dms_SLQSSwiGetDyingGaspStatistics_t::Tlvresult

8.1195 unpack_dms_SLQSSwiGetFirmwareCurr_t Struct Reference

Data Fields

- uint8_t numEntries
- image_info_t ∗ pCurrImgInfo
- char priver [16]
- char pkgver [16]
- char fwvers [16]
- char carrier [16]

8.1195.1 Detailed Description

This structure is used to store unpack_dms_SLQSSwiGetFirmwareCurr parameters

Parameters

numEntries[IN/-OUT]	• Number of entries in the image list to follow • The size of the list pCurrImgInfo must be specified when calling the API
pCurrImgInfo[O-UT]	• Currently Active Image List
priver[OUT]	• PRI version of the currently running firmware • Invalid Data - index 0 equal 0x7F.
pkgver[OUT]	• Package version of the currently running firmware • Invalid Data - index 0 equal 0x7F.

fwvers[OUT]	• firmware version of the currently running firmware • Invalid Data - index 0 equal 0x7F.
carrier[OUT]	• Carrier string of the currently running firmware • Invalid Data - index 0 equal 0x7F.

8.1195.2 Field Documentation

8.1195.2.1 char unpack_dms_SLQSSwiGetFirmwareCurr_t::carrier[16]

8.1195.2.2 char unpack_dms_SLQSSwiGetFirmwareCurr_t::fwvers[16]

8.1195.2.3 uint8_t unpack_dms_SLQSSwiGetFirmwareCurr_t::numEntries

8.1195.2.4 image_info_t* unpack_dms_SLQSSwiGetFirmwareCurr_t::pCurrImgInfo

8.1195.2.5 char unpack_dms_SLQSSwiGetFirmwareCurr_t::pkgver[16]

8.1195.2.6 char unpack_dms_SLQSSwiGetFirmwareCurr_t::priver[16]

8.1196 unpack_dms_SLQSSwiGetFwUpdateStatus_t Struct Reference

Data Fields

- uint32_t ResCode
- uint8_t imgType
- uint32_t refData
- uint8_t refString [15]
- uint8_t logString [255]
- uint16_t Tlvresult

8.1196.1 Detailed Description

This structure is used to store Firmware Update Status

Parameters

ResCode	• FW Update Result Code • Values: – 0x00000001 - Successful – 0x000000FF - Invalid Data. – 0xFFFFFFFF - Unknown (due to power off reset after firmware update) – 0x100000nn - File update errors while nn will be the exact error number: * 00 - General error – 0x200000nn - NVUP update errors while nn will be the exact error number: * 00 - General error – 0x40000nnn - FOTA update agent errors while nnn will be the exact error number: * 000 ∼ 0FF - Insignia defined error code * 100 ∼ 1FF - Sierra defined error code * See qaGobiApiTableFwDldErrorCodes.h for more detailed information – 0x800000nn - FDT/SSDP reported errors while nn will be the exact error number * See qaGobiApiTableFwDldErrorCodes.h for more detailed information
imgType	• Optional parameter • Firmware image type that failed the update • 0xff - Invalid Data.
refData	• Optional parameter • Failed image reference data • This is normally the offset of the image that caused the failure • 0xff - Invalid Data.
refString	• Optional parameter • Failed image reference string. This is normally the partition name of the image that caused the failure if applicable. • Invalid Data - index 0 equal 0xFF.
logString	• Optional parameter • Failed image reference string. This is normally the partition name of the image that caused the failure if applicable. • Invalid Data - index 0 equal 0xFF.
Tlvresult	• Unpack Result

8.1196.2 Field Documentation

8.1196.2.1 uint8_t unpack_dms_SLQSSwiGetFwUpdateStatus_t::imgType

8.1196.2.2 uint8_t unpack_dms_SLQSSwiGetFwUpdateStatus_t::logString[255]

8.1196.2.3 uint32_t unpack_dms_SLQSSwiGetFwUpdateStatus_t::refData

8.1196.2.4 uint8_t unpack_dms_SLQSSwiGetFwUpdateStatus_t::refString[15]

8.1196.2.5 uint32_t unpack_dms_SLQSSwiGetFwUpdateStatus_t::ResCode

8.1196.2.6 uint16_t unpack_dms_SLQSSwiGetFwUpdateStatus_t::Tlvresult

8.1197 unpack_dms_SLQSSwiGetHostDevInfo_t Struct Reference

Data Fields

- uint16_t Tlvresult
- char manString [255]
- char modelString [255]
- char swVerString [255]
- char plasmaIDString [255]

8.1197.1 Detailed Description

This structure contains SWI get host device info unpack information

Parameters

Tlvresult	• unpack Result
manString[OUT]	• Host Device Manufacturer Name • Null terminated ASCII String • Invalid Data - index 0 equal 0x7F.
modelString[OUT]	• Host Device Model String • Null terminated ASCII String • Invalid Data - index 0 equal 0x7F.
swVerString[OUT]	• Host Device Software Version String • Null terminated ASCII string • Invalid Data - index 0 equal 0x7F.
plasmaIDString[OUT]	• Host Device Plasma ID String • Null terminated alphanumeric ASCII String. • Invalid Data - index 0 equal 0x7F.

8.1197.2 Field Documentation

8.1197.2.1 char unpack_dms_SLQSSwiGetHostDevInfo_t::manString[255]

8.1197.2.2 char unpack_dms_SLQSSwiGetHostDevInfo_t::modelString[255]

8.1197.2.3 char unpack_dms_SLQSSwiGetHostDevInfo_t::plasmaIDString[255]

8.1197.2.4 char unpack_dms_SLQSSwiGetHostDevInfo_t::swVerString[255]

8.1197.2.5 uint16_t unpack_dms_SLQSSwiGetHostDevInfo_t::Tlvresult

8.1198 unpack_dms_SLQSSwiGetOSInfo_t Struct Reference

Data Fields

- uint16_t Tlvresult
- char nameString [255]
- char versionString [255]

8.1198.1 Detailed Description

This structure contains SWI get host os info unpack information

Parameters

Tlvresult	• Unpack Result
nameString[OUT]	• Host operating system name • Invalid Data - index 0 equal 0xFF.
VersionString[OUT]	• Host operating system version • Invalid Data - index 0 equal 0xFF.

8.1198.2 Field Documentation

8.1198.2.1 char unpack_dms_SLQSSwiGetOSInfo_t::nameString[255]

8.1198.2.2 uint16_t unpack_dms_SLQSSwiGetOSInfo_t::Tlvresult

8.1198.2.3 char unpack_dms_SLQSSwiGetOSInfo_t::versionString[255]

8.1199 unpack_dms_SLQSSwiGetSerialNoExt_t Struct Reference

Data Fields

- uint16_t Tlvresult
- char meidString [8]

8.1199.1 Detailed Description

This structure contains SWI get device serial number extension unpack information

Parameters

Tlvresult	• pack Result
meidString[OUT]	• optional parameter, mobile equipment identifier • Invalid Data - index 0 equal 0x7F.

8.1199.2 Field Documentation

8.1199.2.1 char unpack_dms_SLQSSwiGetSerialNoExt_t::meidString[8]

8.1199.2.2 uint16_t unpack_dms_SLQSSwiGetSerialNoExt_t::Tlvresult

8.1200 unpack_dms_SLQSSwiSetDyingGaspCfg_t Struct Reference

Data Fields

- uint16_t Tlvresult

8.1200.1 Detailed Description

This structure contains set Dying GASP Config unpack

Parameters

Tlvresult	• Unpack Result

8.1200.2 Field Documentation

8.1200.2.1 uint16_t unpack_dms_SLQSSwiSetDyingGaspCfg_t::Tlvresult

8.1201 unpack_dms_SLQSSwiSetHostDevInfo_t Struct Reference

Data Fields

- uint16_t Tlvresult

8.1201.1 Detailed Description

This structure contains SWI set host dev info unpack

Parameters

Tlvresult	• Unpack Result

8.1201.2 Field Documentation

8.1201.2.1 uint16_t unpack_dms_SLQSSwiSetHostDevInfo_t::Tlvresult

8.1202 unpack_dms_SLQSSwiSetOSInfo_t Struct Reference

Data Fields

- uint16_t Tlvresult

8.1202.1 Detailed Description

This structure contains SWI set host OS info unpack

Parameters

Tlvresult	• Unpack Result

8.1202.2 Field Documentation

8.1202.2.1 uint16_t unpack_dms_SLQSSwiSetOSInfo_t::Tlvresult

8.1203 unpack_dms_SLQSUIMGetState_t Struct Reference

Data Fields

- uint8_t state
- uint16_t Tlvresult

8.1203.1 Detailed Description

This structure contains UIM get state unpack information

Parameters

state[OUT]	• UIM state
Tlvresult	• Unpack Result

8.1203.2 Field Documentation

8.1203.2.1 uint8_t unpack_dms_SLQSUIMGetState_t::state

8.1203.2.2 uint16_t unpack_dms_SLQSUIMGetState_t::Tlvresult

8.1204 unpack_dms_SwiEventReportCallBack_ind_t Struct Reference

Data Fields

- dms_TemperatureTlv TempTlv
- dms_VoltageTlv VoltTlv

8.1204.1 Detailed Description

Structure used to SWI event report indication parameters.

Parameters

TempTlv	• Temperature status tlv • See dms_TemperatureTlv for more information
VoltTlv	• Voltage status tlv • see dms_VoltageTlv for more information

Note

: None

8.1204.2 Field Documentation

8.1204.2.1 dms_TemperatureTlv unpack_dms_SwiEventReportCallBack_ind_t::TempTlv

8.1204.2.2 dms_VoltageTlv unpack_dms_SwiEventReportCallBack_ind_t::VoltTlv

8.1205 unpack_dms_SwiSetEventReport_t Struct Reference

Data Fields

- uint16_t Tlvresult

8.1205.1 Detailed Description

This structure is used to store unpack_dms_SwiSetEventReport parameters.

Parameters

Tlvresult	• unpack Tlv result

8.1205.2 Field Documentation

8.1205.2.1 uint16_t unpack_dms_SwiSetEventReport_t::Tlvresult

8.1206 unpack_dms_UIMGetControlKeyStatus_t Struct Reference

Data Fields

- uint8_t facilityState
- uint8_t verifyRetriesLeft
- uint8_t unblockRetriesLeft
- uint16_t Tlvresult

8.1206.1 Detailed Description

This structure contains PIN retries status

Parameters

facilityState[OUT]	• Control key status – 0 - Deactivated – 1 - Activated – 2 - Blocked – 0xFF - Invalid Data.
verifyRetriesLeft[OUT]	• Optional parameter • Upon operational failure, this will indicate number of retries left, after which PIN will be blocked. • 0xFF - Invalid Data.
unblockRetriesLeft[OUT]	• Optional parameter • Upon operational failure, this will indicate number of unblock retries left, after which the PIN will be permanently blocked i.e. UIM is unusable. • 0xFF - Invalid Data.
Tlvresult	• Unpack Result

8.1206.2 Field Documentation

8.1206.2.1 uint8_t unpack_dms_UIMGetControlKeyStatus_t::facilityState

8.1206.2.2 uint16_t unpack_dms_UIMGetControlKeyStatus_t::Tlvresult

8.1206.2.3 uint8_t unpack_dms_UIMGetControlKeyStatus_t::unblockRetriesLeft

8.1206.2.4 uint8_t unpack_dms_UIMGetControlKeyStatus_t::verifyRetriesLeft

8.1207 unpack_dms_UIMGetICCID_t Struct Reference

Data Fields

- uint8_t stringSize
- uint8_t String [255]
- uint16_t Tlvresult

8.1207.1 Detailed Description

This structure is used to store unpack_dms_UIMGetICCID parameters.

Parameters

stringSize	• Size of String.
String	• ICCID String. • Maximum Length is 255 Bytes
Tlvresult	• Unack result. 8 - eQCWWAN_ERR_NULL_TLV - Invalid Tlv Data.

8.1207.2 Field Documentation

8.1207.2.1 uint8_t unpack_dms_UIMGetICCID_t::String[255]

8.1207.2.2 uint8_t unpack_dms_UIMGetICCID_t::stringSize

8.1207.2.3 uint16_t unpack_dms_UIMGetICCID_t::Tlvresult

8.1208 unpack_dms_UIMGetPINStatus_t Struct Reference

Data Fields

- uint8_t p1Status
- uint8_t p1VerifyRetriesLeft
- uint8_t p1UnblockRetriesLeft
- uint8_t p2Status
- uint8_t p2VerifyRetriesLeft
- uint8_t p2UnblockRetriesLeft
- uint16_t Tlvresult

8.1208.1 Detailed Description

This structure contains Get PIN Status unpack information

Parameters

p1Status[OUT]	• PIN1 status(0xFFFFFFFF - Unknown) – 0 - PIN not initialized – 1 - PIN enabled, not verified – 2 - PIN enabled, verified – 3 - PIN disabled – 4 - PIN blocked – 5 - PIN permanently blocked – 0xFF - Invalid data.

p1VerifyRetries-Left[OUT]	• Optional parameter • Upon operational failure, this will indicate number of retries left of PIN1, after which PIN will be blocked. • 0xFF - Invalid data.
p1Unblock-RetriesLeft[OUT]	• Optional parameter • Upon operational failure, this will indicate number of unblock retries left of PIN1, after which the PIN will be permanently blocked i.e. UIM is unusable. • 0xFF - Invalid data.
p2Status[OUT]	• PIN2 status(0xFFFFFFFF - Unknown) – 0 - PIN not initialized – 1 - PIN enabled, not verified – 2 - PIN enabled, verified – 3 - PIN disabled – 4 - PIN blocked – 5 - PIN permanently blocked – 0xFF - Invalid data.
p2VerifyRetries-Left[OUT]	• Optional parameter • Upon operational failure, this will indicate number of retries left of PIN2, after which PIN will be blocked. • 0xFF - Invalid data.
p2Unblock-RetriesLeft[OUT]	• Optional parameter • Upon operational failure, this will indicate number of unblock retries left of PIN2, after which the PIN will be permanently blocked i.e. UIM is unusable. • 0xFF - Invalid data.
Tlvresult	• Unpack Result

8.1208.2 Field Documentation

8.1208.2.1 uint8_t unpack_dms_UIMGetPINStatus_t::p1Status

8.1208.2.2 uint8_t unpack_dms_UIMGetPINStatus_t::p1UnblockRetriesLeft

8.1208.2.3 uint8_t unpack_dms_UIMGetPINStatus_t::p1VerifyRetriesLeft

8.1208.2.4 uint8_t unpack_dms_UIMGetPINStatus_t::p2Status

8.1208.2.5 uint8_t unpack_dms_UIMGetPINStatus_t::p2UnblockRetriesLeft

8.1208.2.6 uint8_t unpack_dms_UIMGetPINStatus_t::p2VerifyRetriesLeft

8.1208.2.7 uint16_t unpack_dms_UIMGetPINStatus_t::Tlvresult

8.1209 unpack_dms_UIMSetControlKeyProtection_t Struct Reference

Data Fields

- uint8_t verifyRetriesLeft
- uint16_t Tlvresult

8.1209.1 Detailed Description

This structure contains UIM Set control key protection unpack information

Parameters

verifyRetries-Left[OUT]	• Optional parameter • number of retries left after which the control key is blocked
Tlvresult	• Unpack Result

8.1209.2 Field Documentation

8.1209.2.1 uint16_t unpack_dms_UIMSetControlKeyProtection_t::Tlvresult

8.1209.2.2 uint8_t unpack_dms_UIMSetControlKeyProtection_t::verifyRetriesLeft

8.1210 unpack_dms_UIMSetPINProtection_t Struct Reference

Data Fields

- uint8_t verifyRetriesLeft
- uint8_t unblockRetriesLeft
- uint16_t Tlvresult

8.1210.1 Detailed Description

This structure contains PIN retries status

Parameters

verifyRetries-Left[OUT]	• Optional parameter • Upon operational failure, this will indicate number of retries left, after which PIN will be blocked. • 0xFF - Invalid data.
unblockRetries-Left[OUT]	• Optional parameter • Upon operational failure, this will indicate number of unblock retries left, after which the PIN will be permanently blocked i.e. UIM is unusable. • 0xFF - Invalid data.

Tlvresult[OUT]	• Unpack Result

8.1210.2 Field Documentation

8.1210.2.1 uint16_t unpack_dms_UIMSetPINProtection_t::Tlvresult

8.1210.2.2 uint8_t unpack_dms_UIMSetPINProtection_t::unblockRetriesLeft

8.1210.2.3 uint8_t unpack_dms_UIMSetPINProtection_t::verifyRetriesLeft

8.1211 unpack_dms_UIMUnblockControlKey_t Struct Reference

Data Fields

- uint8_t unblockRetriesLeft
- uint16_t Tlvresult

8.1211.1 Detailed Description

This structure contains UIM Set control key protection unpack information

Parameters

unblockRetries-Left[OUT]	• Optional parameter • number of unblock retries left after which the control key is permanently blocked • 0xff - Invalid data.
Tlvresult[OUT]	• Unpack Result

8.1211.2 Field Documentation

8.1211.2.1 uint16_t unpack_dms_UIMUnblockControlKey_t::Tlvresult

8.1211.2.2 uint8_t unpack_dms_UIMUnblockControlKey_t::unblockRetriesLeft

8.1212 unpack_fms_GetImagesPreference_t Struct Reference

Data Fields

- uint32_t ImageListSize
- FMSPrefImageList * pImageList
- uint16_t Tlvresult
- swi_uint256_t ParamPresenceMask

8.1212.1 Detailed Description

This structure contains the Get Image Preference information unpack

Parameters

listSize	• The number of elements in the image list
pListEntries	• Array of Image entries with size provided by previous field • See FMSImageElement • Bit to check in ParamPresenceMask - **1**
Tlvresult	• Unpack result

8.1212.2 Field Documentation

8.1212.2.1 uint32_t unpack_fms_GetImagesPreference_t::ImageListSize

8.1212.2.2 swi_uint256_t unpack_fms_GetImagesPreference_t::ParamPresenceMask

8.1212.2.3 FMSPrefImageList* unpack_fms_GetImagesPreference_t::pImageList

8.1212.2.4 uint16_t unpack_fms_GetImagesPreference_t::Tlvresult

8.1213 unpack_fms_GetStoredImages_t Struct Reference

Data Fields

- uint32_t imagelistSize
- FMSImageList imageList
- uint16_t Tlvresult
- swi_uint256_t ParamPresenceMask

8.1213.1 Detailed Description

This structure contains the Get Stored Images unpack

Parameters

listSize	• The number of elements in the image list
imageList	• Array of Image entries with size provided by previous field • See FMSImageElement • Bit to check in ParamPresenceMask - **1**
Tlvresult	• Unpack result

8.1213.2 Field Documentation

8.1213.2.1 FMSImageList unpack_fms_GetStoredImages_t::imageList

8.1213.2.2 uint32_t unpack_fms_GetStoredImages_t::imagelistSize

8.1213.2.3 swi_uint256_t unpack_fms_GetStoredImages_t::ParamPresenceMask

8.1213.2.4 uint16_t unpack_fms_GetStoredImages_t::Tlvresult

8.1214 unpack_fms_SetImagesPreference_t Struct Reference

Data Fields

- uint32_t ImageTypesSize
- uint8_t ImageTypes [255]
- uint16_t Tlvresult
- swi_uint256_t ParamPresenceMask

8.1214.1 Detailed Description

This structure contains the Set Images Preference unpack

Parameters

ImageTypesSize	• Image Type Size
ImageTypes	• Image Type • Bit to check in ParamPresenceMask - **1**
Tlvresult	• Unpack result

8.1214.2 Field Documentation

8.1214.2.1 uint8_t unpack_fms_SetImagesPreference_t::ImageTypes[255]

8.1214.2.2 uint32_t unpack_fms_SetImagesPreference_t::ImageTypesSize

8.1214.2.3 swi_uint256_t unpack_fms_SetImagesPreference_t::ParamPresenceMask

8.1214.2.4 uint16_t unpack_fms_SetImagesPreference_t::Tlvresult

8.1215 unpack_loc_BestAvailPos_Ind_t Struct Reference

Data Fields

- uint32_t status
- uint32_t * pXid
- uint64_t * pLatitude

- uint64_t * pLongitude
- uint32_t * pHorUncCircular
- uint32_t * pAltitudeWrtEllipsoid
- uint32_t * pVertUnc
- uint64_t * pTimestampUtc
- uint32_t * pTimeUnc
- uint32_t * pHorUncEllipseSemiMinor
- uint32_t * pHorUncEllipseSemiMajor
- uint32_t * pHorUncEllipseOrientAzimuth
- uint8_t * pHorCirConf
- uint8_t * pHorEllpConf
- uint32_t * pHorReliability
- uint32_t * pSpeedHorizontal
- uint32_t * pSpeedUnc
- uint32_t * pAltitudeWrtMeanSeaLevel
- uint8_t * pVertConfidence
- uint32_t * pVertReliability
- uint32_t * pSpeedVertical
- uint32_t * pSpeedVerticalUnc
- uint32_t * pHeading
- uint32_t * pHeadingUnc
- uint32_t * pMagneticDeviation
- uint32_t * pTechnologyMask
- loc_precisionDilution * pPrecisionDilution
- loc_gpsTime * pGpsTime
- uint32_t * pTimeSrc
- loc_sensorDataUsage * pSensorDataUsage
- loc_svUsedforFix * pSvUsedforFix
- uint16_t Tlvresult
- swi_uint256_t ParamPresenceMask

8.1215.1 Detailed Description

This structure contains Best Available Position

Parameters

status	• Valid values: – eQMI_LOC_SUCCESS (0) - Request was completed successfully – eQMI_LOC_GENERAL_FAILURE (1) - Request failed because of a general failure – eQMI_LOC_UNSUPPORTED (2) - Request failed because it is not supported – eQMI_LOC_INVALID_PARAMETER (3) - Request failed because it contained invalid parameters – eQMI_LOC_ENGINE_BUSY (4) - Request failed because the engine is busy – eQMI_LOC_PHONE_OFFLINE (5) - Request failed because the phone is offline – eQMI_LOC_TIMEOUT (6) - Request failed because it timed out – eQMI_LOC_CONFIG_NOT_SUPPORTED (7) - Request failed because an undefined configuration was requested – eQMI_LOC_INSUFFICIENT_MEMORY (8) - Request failed because the engine could not allocate sufficient memory for the request – eQMI_LOC_MAX_GEOFENCE_PROGRAMMED (9) - Request failed because the maximum number of Geofences are already programmed – eQMI_LOC_XTRA_VERSION_CHECK_FAILURE (10) - Location service failed because of an XTRA version-based file format check failure • Bit to check in ParamPresenceMask - **1**
xid	Transaction ID that was specified in the Get Best Available Position request. • Bit to check in ParamPresenceMask - **16**
pLatitude	• Latitude (specified in WGS84 datum) • Type - Floating point • Units - Degrees • Range - -90.0 to 90.0 • Positive values indicate northern latitude • Negative values indicate southern latitude • Bit to check in ParamPresenceMask - **17**
pLongitude	• Longitude (specified in WGS84 datum) • Type - Floating point • Units - Degrees • Range - -180.0 to 180.0 • Positive values indicate eastern latitude • Negative values indicate western latitude • Bit to check in ParamPresenceMask - **18**
pHorUncCircular	• Horizontal position uncertainty. • Units - Meters • Bit to check in ParamPresenceMask - **19**

pAltitudeWrt-Ellipsoid	• Altitude With Respect to WGS84 Ellipsoid. • Units - Meters • Range -500 to 15883 • Bit to check in ParamPresenceMask - **20**
pVertUnc	• Vertical uncertainty. • Units - Meters • Bit to check in ParamPresenceMask - **21**
pTimestampUtc	• UTC timestamp • Units - Milliseconds since Jan. 1, 1970 • Bit to check in ParamPresenceMask - **22**
pTimeUnc	• Time uncertainty. • Units - Milliseconds • Bit to check in ParamPresenceMask - **23**
pHorUncEllipse-SemiMinor	• Semi-minor axis of horizontal elliptical uncertainty. • Units - Meters • Bit to check in ParamPresenceMask - **24**
pHorUncEllipse-SemiMajor	• Semi-major axis of horizontal elliptical uncertainty. • Units: Meters • Bit to check in ParamPresenceMask - **25**
pHorUncEllipse-OrientAzimuth	• Elliptical horizontal uncertainty azimuth of orientation. • Units - Decimal degrees • Range - 0 to 180 • Bit to check in ParamPresenceMask - **26**
pHorCirConf	• Horizontal circular uncertainty confidence • Units: Precent • Range: 0 to 99 • Bit to check in ParamPresenceMask - **27**
pHorEllpConf	• Horizontal elliptical uncertainty confidence • Units: Precent • Range: 0 to 99 • Bit to check in ParamPresenceMask - **28**

pHorReliability	• Values – 0 - Location reliability is not set. – 1 - Location reliability is very low; use it at your own risk – 2 - Location reliability is low; little or no cross-checking is possible. – 3 - Location reliability is medium; limited cross-check passed – 4 - Location reliability is high; strong cross-check passed • Bit to check in ParamPresenceMask - **29**
pSpeed-Horizontal	• Horizontal speed. • Units - Meters/second • Bit to check in ParamPresenceMask - **30**
pSpeedUnc	• 3-D Speed uncertainty. • Units - Meters/second. • Bit to check in ParamPresenceMask - **31**
pAltitudeWrt-MeanSeaLevel	• Altitude With Respect to Sea Level. • Units - Meters • Bit to check in ParamPresenceMask - **32**
pVertConfidence	• Vertical uncertainty confidence. • Units - Percentage • Range 0 to 99 • Bit to check in ParamPresenceMask - **33**
pVertReliability	• Values – 0 - Location reliability is not set. – 1 - Location reliability is very low; use it at your own risk. – 2 - Location reliability is low; little or no cross-checking is possible – 3 - Location reliability is medium; limited cross-check passed – 4 - Location reliability is high; strong cross-check passed • Bit to check in ParamPresenceMask - **34**
pSpeedVertical	• Vertical speed. • Units - Meters/second • Bit to check in ParamPresenceMask - **35**
pSpeedVertical-Unc	• Veritical speed • Units: Meters/second • Bit to check in ParamPresenceMask - **36**

pHeading	• Heading. • Units - Degree • Range 0 to 359.999 • Bit to check in ParamPresenceMask - **37**
pHeadingUnc	• Heading uncertainty. • Units - Degree • Range 0 to 359.999 • Bit to check in ParamPresenceMask - **38**
pMagnetic-Deviation	• Difference between the bearing to true north and the bearing shown on a magnetic compass. The deviation is positive when the magnetic north is east of true north. • Bit to check in ParamPresenceMask - **39**
pTechnology-Mask	• Values – 0x00000001 - Satellites were used to generate the fix – 0x00000002 - Cell towers were used to generate the fix – 0x00000004 - Wi-Fi access points were used to generate the fix – 0x00000008 - Sensors were used to generate the fix – 0x00000010 - Reference Location was used to generate the fix – 0x00000020 - Coarse position injected into the location engine was used to generate the fix – 0x00000040 - AFLT was used to generate the fix – 0x00000080 - GNSS and network-provided measurements were used to generate the fix • Bit to check in ParamPresenceMask - **40**
-pPrecision-Dilution	• See loc_precisionDilution for more information • Bit to check in ParamPresenceMask - **41**
-pGpsTime	• See loc_gpsTime for more information • Bit to check in ParamPresenceMask - **42**

pTimeSrc	• Values – 0 - Invalid time. – 1 - Time is set by the 1X system. – 2 - Time is set by WCDMA/GSM time tagging. – 3 - Time is set by an external injection. – 4 - Time is set after decoding over-the-air GPS navigation data from one GPS satellite. – 5 - Time is set after decoding over-the-air GPS navigation data from multiple satellites. – 6 - Both time of the week and the GPS week number are known. – 7 - Time is set by the position engine after the fix is obtained – 8 - Time is set by the position engine after performing SFT, this is done when the clock time uncertainty is large. – 9 - Time is set after decoding GLO satellites. – 10- Time is set after transforming the GPS to GLO time – 11- Time is set by the sleep time tag provided by the WCDMA network. – 12- Time is set by the sleep time tag provided by the GSM network – 13- Source of the time is unknown – 14- Time is derived from the system clock (better known as the slow clock); GNSS time is maintained irrespective of the GNSS receiver state – 15- Time is set after decoding QZSS satellites. – 16- Time is set after decoding BDS satellites. • Bit to check in ParamPresenceMask - **43**
-pSensorData-Usage	• See loc_sensorDataUsage for more information • Bit to check in ParamPresenceMask - **44**
-pSvUsedforFix	• See loc_svUsedforFix for more information • Bit to check in ParamPresenceMask - **45**

8.1215.2 Field Documentation

8.1215.2.1 uint32_t∗ unpack_loc_BestAvailPos_Ind_t::pAltitudeWrtEllipsoid

8.1215.2.2 uint32_t∗ unpack_loc_BestAvailPos_Ind_t::pAltitudeWrtMeanSeaLevel

8.1215.2.3 swi_uint256_t unpack_loc_BestAvailPos_Ind_t::ParamPresenceMask

8.1215.2.4 loc_gpsTime∗ unpack_loc_BestAvailPos_Ind_t::pGpsTime

8.1215.2.5 uint32_t∗ unpack_loc_BestAvailPos_Ind_t::pHeading

8.1215.2.6 uint32_t∗ unpack_loc_BestAvailPos_Ind_t::pHeadingUnc

8.1215.2.7 uint8_t∗ unpack_loc_BestAvailPos_Ind_t::pHorCirConf

8.1215.2.8 uint8_t∗ unpack_loc_BestAvailPos_Ind_t::pHorEllpConf

8.1215.2.9 uint32_t∗ unpack_loc_BestAvailPos_Ind_t::pHorReliability

8.1215.2.10 uint32_t* unpack_loc_BestAvailPos_Ind_t::pHorUncCircular

8.1215.2.11 uint32_t* unpack_loc_BestAvailPos_Ind_t::pHorUncEllipseOrientAzimuth

8.1215.2.12 uint32_t* unpack_loc_BestAvailPos_Ind_t::pHorUncEllipseSemiMajor

8.1215.2.13 uint32_t* unpack_loc_BestAvailPos_Ind_t::pHorUncEllipseSemiMinor

8.1215.2.14 uint64_t* unpack_loc_BestAvailPos_Ind_t::pLatitude

8.1215.2.15 uint64_t* unpack_loc_BestAvailPos_Ind_t::pLongitude

8.1215.2.16 uint32_t* unpack_loc_BestAvailPos_Ind_t::pMagneticDeviation

8.1215.2.17 **loc_precisionDilution*** unpack_loc_BestAvailPos_Ind_t::pPrecisionDilution

8.1215.2.18 **loc_sensorDataUsage*** unpack_loc_BestAvailPos_Ind_t::pSensorDataUsage

8.1215.2.19 uint32_t* unpack_loc_BestAvailPos_Ind_t::pSpeedHorizontal

8.1215.2.20 uint32_t* unpack_loc_BestAvailPos_Ind_t::pSpeedUnc

8.1215.2.21 uint32_t* unpack_loc_BestAvailPos_Ind_t::pSpeedVertical

8.1215.2.22 uint32_t* unpack_loc_BestAvailPos_Ind_t::pSpeedVerticalUnc

8.1215.2.23 **loc_svUsedforFix*** unpack_loc_BestAvailPos_Ind_t::pSvUsedforFix

8.1215.2.24 uint32_t* unpack_loc_BestAvailPos_Ind_t::pTechnologyMask

8.1215.2.25 uint32_t* unpack_loc_BestAvailPos_Ind_t::pTimeSrc

8.1215.2.26 uint64_t* unpack_loc_BestAvailPos_Ind_t::pTimestampUtc

8.1215.2.27 uint32_t* unpack_loc_BestAvailPos_Ind_t::pTimeUnc

8.1215.2.28 uint8_t* unpack_loc_BestAvailPos_Ind_t::pVertConfidence

8.1215.2.29 uint32_t* unpack_loc_BestAvailPos_Ind_t::pVertReliability

8.1215.2.30 uint32_t* unpack_loc_BestAvailPos_Ind_t::pVertUnc

8.1215.2.31 uint32_t* unpack_loc_BestAvailPos_Ind_t::pXid

8.1215.2.32 uint32_t unpack_loc_BestAvailPos_Ind_t::status

8.1215.2.33 uint16_t unpack_loc_BestAvailPos_Ind_t::Tlvresult

8.1216 unpack_loc_CradleMountCallback_Ind_t Struct Reference

Data Fields

- uint32_t cradleMountConfigStatus
- swi_uint256_t ParamPresenceMask

8.1216.1 Detailed Description

This structure contains LOC Cradle Mount Config Status

Parameters

cradleMount-ConfigStatus	• Values – 0 - Request was completed successfully – 1 - Request failed because of a general failure. – 2 - Request failed because it is not supported. – 3 - Request failed because it contained invalid parameters – 4 - Request failed because the engine is busy – 5 - Request failed because the phone is offline – 6 - Request failed because it timed out – 7 - Request failed because an undefined configuration was requested – 8 - engine could not allocate sufficient memory – 9 - Request failed because the maximum number of Geofences are already programmed – 10 -Location service failed because of an XTRA version-based file format check failure • Bit to check in ParamPresenceMask - **1**

8.1216.2 Field Documentation

8.1216.2.1 uint32_t unpack_loc_CradleMountCallback_Ind_t::cradleMountConfigStatus

8.1216.2.2 swi_uint256_t unpack_loc_CradleMountCallback_Ind_t::ParamPresenceMask

8.1217 unpack_loc_Delete_Assist_Data_t Struct Reference

Data Fields

- uint16_t Tlvresult
- swi_uint256_t ParamPresenceMask

8.1217.1 Detailed Description

This structure contains LOC delete assist data unpack

Parameters

Tlvresult	• Unpack result. • Bit to check in ParamPresenceMask - **2**

8.1217.2 Field Documentation

8.1217.2.1 swi_uint256_t unpack_loc_Delete_Assist_Data_t::ParamPresenceMask

8.1217.2.2 uint16_t unpack_loc_Delete_Assist_Data_t::Tlvresult

8.1218 unpack_loc_DeleteAssistData_Ind_t Struct Reference

Data Fields

- uint32_t status
- uint16_t Tlvresult
- swi_uint256_t ParamPresenceMask

8.1218.1 Detailed Description

Contain the parameters passed for SetLocDeleteAssistDataCallback by the device.

Parameters

status	• Status of the Delete Assist Data request • Valid values: – eQMI_LOC_SUCCESS (0) - Request was completed successfully – eQMI_LOC_GENERAL_FAILURE (1) - Request failed because of a general failure – eQMI_LOC_UNSUPPORTED (2) - Request failed because it is not supported – eQMI_LOC_INVALID_PARAMETER (3) - Request failed because it contained invalid parameters – eQMI_LOC_ENGINE_BUSY (4) - Request failed because the engine is busy – eQMI_LOC_PHONE_OFFLINE (5) - Request failed because the phone is offline – eQMI_LOC_TIMEOUT (6) - Request failed because it timed out – eQMI_LOC_CONFIG_NOT_SUPPORTED (7) - Request failed because an undefined configuration was requested – eQMI_LOC_INSUFFICIENT_MEMORY (8) - Request failed because the engine could not allocate sufficient memory for the request – eQMI_LOC_MAX_GEOFENCE_PROGRAMMED (9) - Request failed because the maximum number of Geofences are already programmed – eQMI_LOC_XTRA_VERSION_CHECK_FAILURE (10) - Location service failed because of an XTRA version-based file format check failure • Bit to check in ParamPresenceMask - **1**
Tlvresult	• unpack result

8.1218.2 Field Documentation

8.1218.2.1 swi_uint256_t unpack_loc_DeleteAssistData_Ind_t::ParamPresenceMask

8.1218.2.2 uint32_t unpack_loc_DeleteAssistData_Ind_t::status

8.1218.2.3 uint16_t unpack_loc_DeleteAssistData_Ind_t::Tlvresult

8.1219 unpack_loc_EngineState_Ind_t Struct Reference

Data Fields

- uint32_t engineState
- uint16_t Tlvresult

- swi_uint256_t ParamPresenceMask

8.1219.1 Detailed Description

This structure contains LOC Engine State field.

Parameters

engineState	• Location engine state.
	• Valid values
	  – 1 - Location engine is on
	  – 2 - Loction engine is off
	• Bit to check in ParamPresenceMask - **1**

Tlvresult	• unpack result

8.1219.2 Field Documentation

8.1219.2.1 uint32_t unpack_loc_EngineState_Ind_t::engineState

8.1219.2.2 swi_uint256_t unpack_loc_EngineState_Ind_t::ParamPresenceMask

8.1219.2.3 uint16_t unpack_loc_EngineState_Ind_t::Tlvresult

8.1220 unpack_loc_EventNMEA_Ind_t Struct Reference

Data Fields

- char NMEAData [201]
- uint16_t Tlvresult
- swi_uint256_t ParamPresenceMask

8.1220.1 Detailed Description

Contain the parameters passed for SetLocEventMaskNMEACallback by the device.

Parameters

NMEAData	• NMEA string • Type - NULL terminated string • Maximum string length (including NULL terminator) - 201 • Bit to check in ParamPresenceMask - **1**
Tlvresult	• unpack result

8.1220.2 Field Documentation

8.1220.2.1 char unpack_loc_EventNMEA_Ind_t::NMEAData[201]

8.1220.2.2 swi_uint256_t unpack_loc_EventNMEA_Ind_t::ParamPresenceMask

8.1220.2.3 uint16_t unpack_loc_EventNMEA_Ind_t::Tlvresult

8.1221 unpack_loc_EventRegister_t Struct Reference

Data Fields

- uint16_t Tlvresult
- swi_uint256_t ParamPresenceMask

8.1221.1 Detailed Description

This structure contains Event Register unpack

Parameters

Tlvresult	• Unpack result. • Bit to check in ParamPresenceMask - **2**

8.1221.2 Field Documentation

8.1221.2.1 swi_uint256_t unpack_loc_EventRegister_t::ParamPresenceMask

8.1221.2.2 uint16_t unpack_loc_EventRegister_t::Tlvresult

8.1222 unpack_loc_EventTimeSyncCallback_Ind_t Struct Reference

Data Fields

- uint32_t timeSyncRefCounter
- swi_uint256_t ParamPresenceMask

8.1222.1 Detailed Description

This structure contains LOC Event Time Sync Reference COunter

Parameters

timeSyncRef-Counter	• Sent by the location engine when it needs to synchronize location engine and control point (sensor processor) times. • Bit to check in ParamPresenceMask - **1**

8.1222.2 Field Documentation

8.1222.2.1 swi_uint256_t unpack_loc_EventTimeSyncCallback_Ind_t::ParamPresenceMask

8.1222.2.2 uint32_t unpack_loc_EventTimeSyncCallback_Ind_t::timeSyncRefCounter

8.1223 unpack_loc_GetServer_Ind_t Struct Reference

Data Fields

- uint32_t serverStatus
- uint32_t serverType
- loc_IPv4Info * pIPv4AddrInfo
- loc_IPv6Info * pIPv6AddrInfo
- loc_urlAddr * pURL
- uint16_t Tlvresult
- swi_uint256_t ParamPresenceMask

8.1223.1 Detailed Description

Contain the parameters passed for SetLocGetServerCallback by the device.

Parameters

serverStatus	• Status of the Get Server request. • Valid values – eQMI_LOC_SUCCESS (0) - Request was completed successfully – eQMI_LOC_GENERAL_FAILURE (1) - Request failed because of a general failure – eQMI_LOC_UNSUPPORTED (2) - Request failed because it is not supported – eQMI_LOC_INVALID_PARAMETER (3) - Request failed because it contained invalid parameters – eQMI_LOC_ENGINE_BUSY (4) - Request failed because the engine is busy – eQMI_LOC_PHONE_OFFLINE (5) - Request failed because the phone is offline – eQMI_LOC_TIMEOUT (6) - Request failed because it timed out – eQMI_LOC_CONFIG_NOT_SUPPORTED (7) - Request failed because an undefined configuration was requested – eQMI_LOC_INSUFFICIENT_MEMORY (8) - Request failed because the engine could not allocate sufficient memory for the request – eQMI_LOC_MAX_GEOFENCE_PROGRAMMED (9) - Request failed because the maximum number of Geofences are already programmed – eQMI_LOC_XTRA_VERSION_CHECK_FAILURE (10) - Location service failed because of an XTRA version-based file format check failure • Bit to check in ParamPresenceMask - **1**
serverType	• Type of server. • Valid values – eQMI_LOC_SERVER_TYPE_CDMA_PDE (1) - Server type is CDMA PDE – eQMI_LOC_SERVER_TYPE_CDMA_MPC (2) - Server type is CDMA MPC – eQMI_LOC_SERVER_TYPE_UMTS_SLP (3) - Server type is UMTS SLP – eQMI_LOC_SERVER_TYPE_CUSTOM_PDE (4) - Server type is custom PDE • Bit to check in ParamPresenceMask - **2**

pIPv4AddrInfo	• See loc_IPv4Info for more information. • Bit to check in ParamPresenceMask - **16**
pIPv6AddrInfo	• See loc_IPv6Info for more information. • Bit to check in ParamPresenceMask - **17**
pURL	• See loc_urlAddr for more information. • Bit to check in ParamPresenceMask - **18**

8.1223.2 Field Documentation

8.1223.2.1 swi_uint256_t unpack_loc_GetServer_Ind_t::ParamPresenceMask

8.1223.2.2 loc_IPv4Info* unpack_loc_GetServer_Ind_t::pIPv4AddrInfo

8.1223.2.3 loc_IPv6Info* unpack_loc_GetServer_Ind_t::pIPv6AddrInfo

8.1223.2.4 loc_urlAddr* unpack_loc_GetServer_Ind_t::pURL

8.1223.2.5 uint32_t unpack_loc_GetServer_Ind_t::serverStatus

8.1223.2.6 uint32_t unpack_loc_GetServer_Ind_t::serverType

8.1223.2.7 uint16_t unpack_loc_GetServer_Ind_t::Tlvresult

8.1224 unpack_loc_GnssSvInfo_Ind_t Struct Reference

Data Fields

- uint8_t altitudeAssumed
- loc_satelliteInfo * pSatelliteInfo
- uint16_t Tlvresult
- swi_uint256_t ParamPresenceMask

8.1224.1 Detailed Description

Contain the parameters passed for SetLocGnssSvInfoCallback by the device.

Parameters

altitudeAssumed	• Indicates whether altitude is assumed or calculated – 0x00 (FALSE) - Valid altitude is calculated – 0x01 (TRUE) - Valid altitude is assumed; there may not be enough satellites to determine precise altitude • Bit to check in ParamPresenceMask - **1**

pSatelliteInfo	• See loc_satelliteInfo for more information. • Bit to check in ParamPresenceMask - **16**
Tlvresult	• unpack result

8.1224.2 Field Documentation

8.1224.2.1 uint8_t unpack_loc_GnssSvInfo_Ind_t::altitudeAssumed

8.1224.2.2 swi_uint256_t unpack_loc_GnssSvInfo_Ind_t::ParamPresenceMask

8.1224.2.3 loc_satelliteInfo* unpack_loc_GnssSvInfo_Ind_t::pSatelliteInfo

8.1224.2.4 uint16_t unpack_loc_GnssSvInfo_Ind_t::Tlvresult

8.1225 unpack_loc_InjectPositionCallback_Ind_t Struct Reference

Data Fields

- uint32_t status
- swi_uint256_t ParamPresenceMask

8.1225.1 Detailed Description

Contain the parameters passed for LOC Inject Position indication by the device.

Parameters

status	• Position Injection Status • Valid values: – 0 - Request was completed successfully – 1 - Request failed because of a general failure. – 2 - Request failed because it is not supported. – 3 - Request failed because it contained invalid parameters – 4 - Request failed because the engine is busy – 5 - Request failed because the phone is offline – 6 - Request failed because it timed out – 7 - Request failed because an undefined configuration was requested – 8 - engine could not allocate sufficient memory – 9 - Request failed because the maximum number of Geofences are already programmed – 10 -Location service failed because of an XTRA version-based file format check failure • Bit to check in ParamPresenceMask - **1**

Note

None

8.1225.2 Field Documentation

8.1225.2.1 swi_uint256_t unpack_loc_InjectPositionCallback_Ind_t::ParamPresenceMask

8.1225.2.2 uint32_t unpack_loc_InjectPositionCallback_Ind_t::status

8.1226 unpack_loc_InjectSensorDataCallback_Ind_t Struct Reference

Data Fields

- uint32_t injectSensorDataStatus
- uint32_t * pOpaqueIdentifier
- uint8_t * pAccelSamplesAccepted
- uint8_t * pGyroSamplesAccepted
- uint8_t * pAccelTempSamplesAccepted
- uint8_t * pGyroTempSamplesAccepted
- swi_uint256_t ParamPresenceMask

8.1226.1 Detailed Description

This structure contains LOC Inject Sensor Data

Parameters

injectSensorDataStatus	• Values – 0 - Request was completed successfully – 1 - Request failed because of a general failure. – 2 - Request failed because it is not supported. – 3 - Request failed because it contained invalid parameters – 4 - Request failed because the engine is busy – 5 - Request failed because the phone is offline – 6 - Request failed because it timed out – 7 - Request failed because an undefined configuration was requested – 8 - engine could not allocate sufficient memory – 9 - Request failed because the maximum number of Geofences are already programmed – 10 -Location service failed because of an XTRA version-based file format check failure • Bit to check in ParamPresenceMask - **1**
pOpaqueIdentifier[OPTIONAL]	• Sent in by the client echoed so the client can relate the indication to the request. • NULL when this TLV not present • Bit to check in ParamPresenceMask - **16**
pAccelSamplesAccepted[OPTIONAL]	• Lets the client know how many 3-axis accelerometer samples were accepted. • This field is present only if the accelerometer samples were sent in the request. • NULL when this TLV not present • Bit to check in ParamPresenceMask - **17**

pGyroSamples-Accepted[OPTI-ONAL]	• Lets the client know how many 3-axis gyroscope samples were accepted. • This field is present only if the gyroscope samples were sent in the request. • NULL when this TLV not present • Bit to check in ParamPresenceMask - **18**
pAccelTemp-Samples-Accepted[OPTI-ONAL]	• Lets the client know how many accelerometer temperature samples were accepted. • This field is present only if the accelerometer temperature samples were sent in the request. • NULL when this TLV not present • Bit to check in ParamPresenceMask - **19**
pGyroTemp-Samples-Accepted[OPTI-ONAL]	• Lets the client know how many gyroscope temperature samples were accepted. • This field is present only if the gyroscope temperature samples were sent in the request. • NULL when this TLV not present • Bit to check in ParamPresenceMask - **20**

8.1226.2 Field Documentation

8.1226.2.1 uint32_t unpack_loc_InjectSensorDataCallback_Ind_t::injectSensorDataStatus

8.1226.2.2 uint8_t* unpack_loc_InjectSensorDataCallback_Ind_t::pAccelSamplesAccepted

8.1226.2.3 uint8_t* unpack_loc_InjectSensorDataCallback_Ind_t::pAccelTempSamplesAccepted

8.1226.2.4 swi_uint256_t unpack_loc_InjectSensorDataCallback_Ind_t::ParamPresenceMask

8.1226.2.5 uint8_t* unpack_loc_InjectSensorDataCallback_Ind_t::pGyroSamplesAccepted

8.1226.2.6 uint8_t* unpack_loc_InjectSensorDataCallback_Ind_t::pGyroTempSamplesAccepted

8.1226.2.7 uint32_t* unpack_loc_InjectSensorDataCallback_Ind_t::pOpaqueIdentifier

8.1227 unpack_loc_InjectTimeSyncDataCallback_Ind_t Struct Reference

Data Fields

- uint32_t injectTimeSyncStatus
- swi_uint256_t ParamPresenceMask

8.1227.1 Detailed Description

This structure contains LOC Inject Time Sync Data Status

Parameters

injectTimeSyncStatus	• Values – 0 - Request was completed successfully – 1 - Request failed because of a general failure. – 2 - Request failed because it is not supported. – 3 - Request failed because it contained invalid parameters – 4 - Request failed because the engine is busy – 5 - Request failed because the phone is offline – 6 - Request failed because it timed out – 7 - Request failed because an undefined configuration was requested – 8 - engine could not allocate sufficient memory – 9 - Request failed because the maximum number of Geofences are already programmed – 10 -Location service failed because of an XTRA version-based file format check failure

- ∗ - Bit to check in ParamPresenceMask - **1**

8.1227.2 Field Documentation

8.1227.2.1 uint32_t unpack_loc_InjectTimeSyncDataCallback_Ind_t::injectTimeSyncStatus

8.1227.2.2 swi_uint256_t unpack_loc_InjectTimeSyncDataCallback_Ind_t::ParamPresenceMask

8.1228 unpack_loc_InjectUTCTimeCallback_Ind_t Struct Reference

Data Fields

- uint32_t status
- swi_uint256_t ParamPresenceMask

8.1228.1 Detailed Description

Contain the parameters passed for Inject UTC time indication by the device.

Parameters

status	• Status of the UTC Time Injection request • Valid values: – 0 - Request was completed successfully – 1 - Request failed because of a general failure. – 2 - Request failed because it is not supported. – 3 - Request failed because it contained invalid parameters – 4 - Request failed because the engine is busy – 5 - Request failed because the phone is offline – 6 - Request failed because it timed out – 7 - Request failed because an undefined configuration was requested – 8 - engine could not allocate sufficient memory – 9 - Request failed because the maximum number of Geofences are already programmed – 10 -Location service failed because of an XTRA version-based file format check failure • Bit to check in ParamPresenceMask - **1**

Note

None

8.1228.2 Field Documentation

8.1228.2.1 swi_uint256_t unpack_loc_InjectUTCTimeCallback_Ind_t::ParamPresenceMask

8.1228.2.2 uint32_t unpack_loc_InjectUTCTimeCallback_Ind_t::status

8.1229 unpack_loc_PositionRpt_Ind_t Struct Reference

Data Fields

- uint32_t sessionStatus
- uint8_t sessionId
- uint64_t * pLatitude
- uint64_t * pLongitude
- uint32_t * pHorUncCircular
- uint32_t * pHorUncEllipseSemiMinor
- uint32_t * pHorUncEllipseSemiMajor
- uint32_t * pHorUncEllipseOrientAzimuth
- uint8_t * pHorConfidence
- uint32_t * pHorReliability
- uint32_t * pSpeedHorizontal
- uint32_t * pSpeedUnc
- uint32_t * pAltitudeWrtEllipsoid
- uint32_t * pAltitudeWrtMeanSeaLevel
- uint32_t * pVertUnc
- uint8_t * pVertConfidence
- uint32_t * pVertReliability
- uint32_t * pSpeedVertical
- uint32_t * pHeading
- uint32_t * pHeadingUnc

- uint32_t * pMagneticDeviation
- uint32_t * pTechnologyMask
- loc_precisionDilution * pPrecisionDilution
- uint64_t * pTimestampUtc
- uint8_t * pLeapSeconds
- loc_gpsTime * pGpsTime
- uint32_t * pTimeUnc
- uint32_t * pTimeSrc
- loc_sensorDataUsage * pSensorDataUsage
- uint32_t * pFixId
- loc_svUsedforFix * pSvUsedforFix
- uint8_t * pAltitudeAssumed
- uint16_t Tlvresult
- swi_uint256_t ParamPresenceMask

8.1229.1 Detailed Description

This structure contains Event Position Report Indication unpack

Parameters

sessionStatus	• Values – 0 - Session was successful – 1 - Session is still in progress; further position reports will be generated until either the fix criteria specified by the client are met or the client response timeout occurs. – 2 - Session failed.. – 3 - Fix request failed because the session timed out. – 4 - Fix request failed because the session was ended by the user. – 5 - Fix request failed due to bad parameters in the request. – 6 - Fix request failed because the phone is offline. – 7 - Fix request failed because the engine is locked • Bit to check in ParamPresenceMask - **1**
sessionId	• ID of the session that was specified in the Start request • Range - 0 to 255 • Bit to check in ParamPresenceMask - **2**
pLatitude	• Latitude (specified in WGS84 datum) • Type - Floating point • Units - Degrees • Range - -90.0 to 90.0 • Positive values indicate northern latitude • Negative values indicate southern latitude • Bit to check in ParamPresenceMask - **16**

pLongitude	• Longitude (specified in WGS84 datum) • Type - Floating point • Units - Degrees • Range - -180.0 to 180.0 • Positive values indicate eastern latitude • Negative values indicate western latitude • Bit to check in ParamPresenceMask - **17**
pHorUncCircular	• Horizontal position uncertainty. • Units - Meters • Bit to check in ParamPresenceMask - **18**
pHorUncEllipse-SemiMinor	• Semi-minor axis of horizontal elliptical uncertainty. • Units - Meters • Bit to check in ParamPresenceMask - **19**
pHorUncEllipse-SemiMajor	• Semi-major axis of horizontal elliptical uncertainty. • Units: Meters • Bit to check in ParamPresenceMask - **20**
pHorUncEllipse-OrientAzimuth	• Elliptical horizontal uncertainty azimuth of orientation. • Units - Decimal degrees • Range - 0 to 180 • Bit to check in ParamPresenceMask - **21**
pHorConfidence	• Horizontal uncertainty confidence. • If both elliptical and horizontal uncertainties are specified in this message, the confidence corresponds to the elliptical uncertainty. • Units - Percentage • Range 0-99 • Bit to check in ParamPresenceMask - **22**

pHorReliability	• Values
	  – 0 - Location reliability is not set.
	  – 1 - Location reliability is very low; use it at your own risk
	  – 2 - Location reliability is low; little or no cross-checking is possible.
	  – 3 - Location reliability is medium; limited cross-check passed
	  – 4 - Location reliability is high; strong cross-check passed

- Bit to check in ParamPresenceMask - **23**

Parameters

pSpeed-Horizontal	• Horizontal speed. • Units - Meters/second • Bit to check in ParamPresenceMask - **24**
pSpeedUnc	• 3-D Speed uncertainty. • Units - Meters/second. • Bit to check in ParamPresenceMask - **25**
pAltitudeWrt-Ellipsoid	• Altitude With Respect to WGS84 Ellipsoid. • Units - Meters • Range -500 to 15883 • Bit to check in ParamPresenceMask - **26**
pAltitudeWrt-MeanSeaLevel	• Altitude With Respect to Sea Level. • Units - Meters • Bit to check in ParamPresenceMask - **27**
pVertUnc	• Vertical uncertainty. • Units - Meters • Bit to check in ParamPresenceMask - **28**
pVertConfidence	• Vertical uncertainty confidence. • Units - Percentage • Range 0 to 99 • Bit to check in ParamPresenceMask - **29**
pVertReliability	• Values – 0 - Location reliability is not set. – 1 - Location reliability is very low; use it at your own risk. – 2 - Location reliability is low; little or no cross-checking is possible – 3 - Location reliability is medium; limited cross-check passed – 4 - Location reliability is high; strong cross-check passed – Bit to check in ParamPresenceMask - **30**
pSpeedVertical	• Vertical speed. • Units - Meters/second • Bit to check in ParamPresenceMask - **31**

pHeading	• Heading. • Units - Degree • Range 0 to 359.999 • Bit to check in ParamPresenceMask - **32**
pHeadingUnc	• Heading uncertainty. • Units - Degree • Range 0 to 359.999 • Bit to check in ParamPresenceMask - **33**
pMagnetic-Deviation	• Difference between the bearing to true north and the bearing shown on a magnetic compass. The deviation is positive when the magnetic north is east of true north. • Bit to check in ParamPresenceMask - **34**
pTechnology-Mask	• Values – 0x00000001 - Satellites were used to generate the fix – 0x00000002 - Cell towers were used to generate the fix – 0x00000004 - Wi-Fi access points were used to generate the fix – 0x00000008 - Sensors were used to generate the fix – 0x00000010 - Reference Location was used to generate the fix – 0x00000020 - Coarse position injected into the location engine was used to generate the fix – 0x00000040 - AFLT was used to generate the fix – 0x00000080 - GNSS and network-provided measurements were used to generate the fix • Bit to check in ParamPresenceMask - **35**
pPrecision-Dilution	• See loc_precisionDilution for more information • Bit to check in ParamPresenceMask - **36**
pTimestampUtc	• UTC timestamp • Units - Milliseconds since Jan. 1, 1970 • Bit to check in ParamPresenceMask - **37**
pLeapSeconds	• Leap second information. If leapSeconds is not available, timestampUtc is calculated based on a hard-coded value for leap seconds. • Units - Seconds • Bit to check in ParamPresenceMask - **38**
pGpsTime	• See loc_gpsTime for more information • Bit to check in ParamPresenceMask - **39**

pTimeUnc	• Time uncertainty. • Units - Milliseconds • Bit to check in ParamPresenceMask - **40**
pTimeSrc	• Values – 0 - Invalid time. – 1 - Time is set by the 1X system. – 2 - Time is set by WCDMA/GSM time tagging. – 3 - Time is set by an external injection. – 4 - Time is set after decoding over-the-air GPS navigation data from one GPS satellite. – 5 - Time is set after decoding over-the-air GPS navigation data from multiple satellites. – 6 - Both time of the week and the GPS week number are known. – 7 - Time is set by the position engine after the fix is obtained – 8 - Time is set by the position engine after performing SFT, this is done when the clock time uncertainty is large. – 9 - Time is set after decoding GLO satellites. – 10- Time is set after transforming the GPS to GLO time – 11- Time is set by the sleep time tag provided by the WCDMA network. – 12- Time is set by the sleep time tag provided by the GSM network – 13- Source of the time is unknown – 14- Time is derived from the system clock (better known as the slow clock); GNSS time is maintained irrespective of the GNSS receiver state – 15- Time is set after decoding QZSS satellites. – 16- Time is set after decoding BDS satellites.

- Bit to check in ParamPresenceMask - **41**

Parameters

pSensorData-Usage	• See loc_sensorDataUsage for more information • Bit to check in ParamPresenceMask - **42**
pFixId	• Fix count for the session. Starts with 0 and increments by one for each successive position report for a particular session. • Bit to check in ParamPresenceMask - **43**
pSvUsedforFix	• See loc_svUsedforFix for more information • Bit to check in ParamPresenceMask - **44**
pAltitude-Assumed	• Indicates whether altitude is assumed or calculated. • Value – 0x00 - Altitude is calculated – 0x01 - Altitude is assumed • Bit to check in ParamPresenceMask - **45**

8.1229.2 Field Documentation

8.1229.2.1 uint8_t* unpack_loc_PositionRpt_Ind_t::pAltitudeAssumed

8.1229.2.2 uint32_t* unpack_loc_PositionRpt_Ind_t::pAltitudeWrtEllipsoid

8.1229.2.3 uint32_t* unpack_loc_PositionRpt_Ind_t::pAltitudeWrtMeanSeaLevel

8.1229.2.4 swi_uint256_t unpack_loc_PositionRpt_Ind_t::ParamPresenceMask

8.1229.2.5 uint32_t* unpack_loc_PositionRpt_Ind_t::pFixId

8.1229.2.6 loc_gpsTime* unpack_loc_PositionRpt_Ind_t::pGpsTime

8.1229.2.7 uint32_t* unpack_loc_PositionRpt_Ind_t::pHeading

8.1229.2.8 uint32_t* unpack_loc_PositionRpt_Ind_t::pHeadingUnc

8.1229.2.9 uint8_t* unpack_loc_PositionRpt_Ind_t::pHorConfidence

8.1229.2.10 uint32_t* unpack_loc_PositionRpt_Ind_t::pHorReliability

8.1229.2.11 uint32_t* unpack_loc_PositionRpt_Ind_t::pHorUncCircular

8.1229.2.12 uint32_t* unpack_loc_PositionRpt_Ind_t::pHorUncEllipseOrientAzimuth

8.1229.2.13 uint32_t* unpack_loc_PositionRpt_Ind_t::pHorUncEllipseSemiMajor

8.1229.2.14 uint32_t* unpack_loc_PositionRpt_Ind_t::pHorUncEllipseSemiMinor

8.1229.2.15 uint64_t* unpack_loc_PositionRpt_Ind_t::pLatitude

8.1229.2.16 uint8_t* unpack_loc_PositionRpt_Ind_t::pLeapSeconds

8.1229.2.17 uint64_t* unpack_loc_PositionRpt_Ind_t::pLongitude

8.1229.2.18 uint32_t* unpack_loc_PositionRpt_Ind_t::pMagneticDeviation

8.1229.2.19 loc_precisionDilution* unpack_loc_PositionRpt_Ind_t::pPrecisionDilution

8.1229.2.20 loc_sensorDataUsage* unpack_loc_PositionRpt_Ind_t::pSensorDataUsage

8.1229.2.21 uint32_t* unpack_loc_PositionRpt_Ind_t::pSpeedHorizontal

8.1229.2.22 uint32_t* unpack_loc_PositionRpt_Ind_t::pSpeedUnc

8.1229.2.23 uint32_t* unpack_loc_PositionRpt_Ind_t::pSpeedVertical

8.1229.2.24 loc_svUsedforFix* unpack_loc_PositionRpt_Ind_t::pSvUsedforFix

8.1229.2.25 uint32_t* unpack_loc_PositionRpt_Ind_t::pTechnologyMask

8.1229.2.26 uint32_t* unpack_loc_PositionRpt_Ind_t::pTimeSrc

8.1229.2.27 uint64_t* unpack_loc_PositionRpt_Ind_t::pTimestampUtc

8.1229.2.28 uint32_t* unpack_loc_PositionRpt_Ind_t::pTimeUnc

8.1229.2.29 uint8_t* unpack_loc_PositionRpt_Ind_t::pVertConfidence

8.1229.2.30 uint32_t* unpack_loc_PositionRpt_Ind_t::pVertReliability

8.1229.2.31 uint32_t* unpack_loc_PositionRpt_Ind_t::pVertUnc

8.1229.2.32 uint8_t unpack_loc_PositionRpt_Ind_t::sessionId

8.1229.2.33 uint32_t unpack_loc_PositionRpt_Ind_t::sessionStatus

8.1229.2.34 uint16_t unpack_loc_PositionRpt_Ind_t::Tlvresult

8.1230 unpack_loc_SensorStreamingCallback_Ind_t Struct Reference

Data Fields

- loc_accelAcceptReady * pAccelAcceptReady
- loc_gyroAcceptReady * pGyroAcceptReady
- loc_accelTempAcceptReady * pAccelTempAcceptReady
- loc_gyroTempAcceptReady * pGyroTempAcceptReady
- swi_uint256_t ParamPresenceMask

8.1230.1 Detailed Description

This structure contains LOC Event Sensor Streaming Ready Status

Parameters

-pAccelAcceptReady[OPTIONAL]	• See loc_accelAcceptReady for more information • Bit to check in ParamPresenceMask - **16**
-pGyroAcceptReady[OPTIONAL]	• See loc_gyroAcceptReady for more information • Bit to check in ParamPresenceMask - **17**
-pAccelTempAcceptReady[OPTIONAL]	• See loc_accelTempAcceptReady for more information • Bit to check in ParamPresenceMask - **18**
-pGyroTempAcceptReady[OPTIONAL]	• See loc_gyroTempAcceptReady for more information • Bit to check in ParamPresenceMask - **19**

8.1230.2 Field Documentation

8.1230.2.1 loc_accelAcceptReady* unpack_loc_SensorStreamingCallback_Ind_t::pAccelAcceptReady

8.1230.2.2 loc_accelTempAcceptReady* unpack_loc_SensorStreamingCallback_Ind_t::pAccelTempAcceptReady

8.1230.2.3 swi_uint256_t unpack_loc_SensorStreamingCallback_Ind_t::ParamPresenceMask

8.1230.2.4 loc_gyroAcceptReady* unpack_loc_SensorStreamingCallback_Ind_t::pGyroAcceptReady

8.1230.2.5 loc_gyroTempAcceptReady* unpack_loc_SensorStreamingCallback_Ind_t::pGyroTempAcceptReady

8.1231 unpack_loc_SetExtPowerConfig_Ind_t Struct Reference

Data Fields

- uint32_t status
- uint16_t Tlvresult
- swi_uint256_t ParamPresenceMask

8.1231.1 Detailed Description

This structure contains LOC Set External Power Configure status field.

Parameters

status	• Valid values – 0 - Request was completed successfully – 1 - Request failed because of a general failure. – 2 - Request failed because it is not supported. – 3 - Request failed because it contained invalid parameters – 4 - Request failed because the engine is busy – 5 - Request failed because the phone is offline – 6 - Request failed because it timed out – 7 - Request failed because an undefined configuration was requested – 8 - engine could not allocate sufficient memory – 9 - Request failed because the maximum number of Geofences are already programmed – 10 -Location service failed because of an XTRA version-based file format check failure • Bit to check in ParamPresenceMask - **1**
Tlvresult	• unpack result

8.1231.2 Field Documentation

8.1231.2.1 swi_uint256_t unpack_loc_SetExtPowerConfig_Ind_t::ParamPresenceMask

8.1231.2.2 uint32_t unpack_loc_SetExtPowerConfig_Ind_t::status

8.1231.2.3 uint16_t unpack_loc_SetExtPowerConfig_Ind_t::Tlvresult

8.1232 unpack_loc_SetExtPowerState_t Struct Reference

Data Fields

- uint16_t Tlvresult

- swi_uint256_t ParamPresenceMask

8.1232.1 Detailed Description

This structure contains Set Ext Power State unpack

Parameters

Tlvresult	• Unpack result. • Bit to check in ParamPresenceMask - **2**

8.1232.2 Field Documentation

8.1232.2.1 swi_uint256_t unpack_loc_SetExtPowerState_t::ParamPresenceMask

8.1232.2.2 uint16_t unpack_loc_SetExtPowerState_t::Tlvresult

8.1233 unpack_loc_SetOperationMode_Ind_t Struct Reference

Data Fields

- uint32_t status
- uint16_t Tlvresult
- swi_uint256_t ParamPresenceMask

8.1233.1 Detailed Description

This structure contains LOC Set External Power Configure status field.

Parameters

status	• Status of the Set Operation Mode request. • Valid values: – 0 - Request was completed successfully – 1 - Request failed because of a general failure – 2 - Request failed because it is not supported – 3 - Request failed because it contained invalid parameters – 4 - Request failed because the engine is busy – 5 - Request failed because the phone is offline – 6 - Request failed because it timed out – 7 - Request failed because an undefined configuration was requested – 8 - Request failed because the engine could not allocate sufficient memory for the request – 9 - Request failed because the maximum number of Geofences are already programmed – 10 - Location service failed because of an XTRA version-based file format check failure • Bit to check in ParamPresenceMask - **1**
Tlvresult	• unpack result

8.1233.2 Field Documentation

8.1233.2.1 swi_uint256_t unpack_loc_SetOperationMode_Ind_t::ParamPresenceMask

8.1233.2.2 uint32_t unpack_loc_SetOperationMode_Ind_t::status

8.1233.2.3 uint16_t unpack_loc_SetOperationMode_Ind_t::Tlvresult

8.1234 unpack_loc_SetOperationMode_t Struct Reference

Data Fields

- uint16_t Tlvresult
- swi_uint256_t ParamPresenceMask

8.1234.1 Detailed Description

This structure contains Set Operation Mode unpack

Parameters

Tlvresult	• Unpack result. • Bit to check in ParamPresenceMask - **2**

8.1234.2 Field Documentation

8.1234.2.1 swi_uint256_t unpack_loc_SetOperationMode_t::ParamPresenceMask

8.1234.2.2 uint16_t unpack_loc_SetOperationMode_t::Tlvresult

8.1235 unpack_loc_SetServer_Ind_t Struct Reference

Data Fields

- uint32_t serverStatus
- uint16_t Tlvresult

8.1235.1 Detailed Description

Contain the parameters passed for SetLocSetServerCallback by the device.

Parameters

serverStatus	• Status of the Get Server request. • Valid values – eQMI_LOC_SUCCESS (0) - Request was completed successfully – eQMI_LOC_GENERAL_FAILURE (1) - Request failed because of a general failure – eQMI_LOC_UNSUPPORTED (2) - Request failed because it is not supported – eQMI_LOC_INVALID_PARAMETER (3) - Request failed because it contained invalid parameters – eQMI_LOC_ENGINE_BUSY (4) - Request failed because the engine is busy – eQMI_LOC_PHONE_OFFLINE (5) - Request failed because the phone is offline – eQMI_LOC_TIMEOUT (6) - Request failed because it timed out – eQMI_LOC_CONFIG_NOT_SUPPORTED (7) - Request failed because an undefined configuration was requested – eQMI_LOC_INSUFFICIENT_MEMORY (8) - Request failed because the engine could not allocate sufficient memory for the request – eQMI_LOC_MAX_GEOFENCE_PROGRAMMED (9) - Request failed because the maximum number of Geofences are already programmed – eQMI_LOC_XTRA_VERSION_CHECK_FAILURE (10) - Location service failed because of an XTRA version-based file format check failure – 0xffffffff - Invalid data.

8.1235.2 Field Documentation

8.1235.2.1 uint32_t unpack_loc_SetServer_Ind_t::serverStatus

8.1235.2.2 uint16_t unpack_loc_SetServer_Ind_t::Tlvresult

8.1236 unpack_loc_SLQSLOCGetBestAvailPos_t Struct Reference

Data Fields

- uint16_t Tlvresult
- swi_uint256_t ParamPresenceMask

8.1236.1 Detailed Description

This structure contains Set Operation Mode unpack

Parameters

Tlvresult	• Unpack result. • Bit to check in ParamPresenceMask - **2**

8.1236.2 Field Documentation

8.1236.2.1 swi_uint256_t unpack_loc_SLQSLOCGetBestAvailPos_t::ParamPresenceMask

8.1236.2.2 uint16_t unpack_loc_SLQSLOCGetBestAvailPos_t::Tlvresult

8.1237 unpack_loc_Start_t Struct Reference

Data Fields

- uint16_t Tlvresult
- swi_uint256_t ParamPresenceMask

8.1237.1 Detailed Description

This structure contains Start LOC unpack

Parameters

Tlvresult	• Unpack result. • Bit to check in ParamPresenceMask - **2**

8.1237.2 Field Documentation

8.1237.2.1 swi_uint256_t unpack_loc_Start_t::ParamPresenceMask

8.1237.2.2 uint16_t unpack_loc_Start_t::Tlvresult

8.1238 unpack_loc_Stop_t Struct Reference

Data Fields

- uint16_t Tlvresult
- swi_uint256_t ParamPresenceMask

8.1238.1 Detailed Description

This structure contains Stop LOC unpack

Parameters

Tlvresult	• Unpack result. • Bit to check in ParamPresenceMask - **2**

8.1238.2 Field Documentation

8.1238.2.1 swi_uint256_t unpack_loc_Stop_t::ParamPresenceMask

8.1238.2.2 uint16_t unpack_loc_Stop_t::Tlvresult

8.1239 unpack_nas_GetCDMANetworkParameters_t Struct Reference

Data Fields

- uint8_t SCI
- uint8_t SCM
- uint8_t RegHomeSID
- uint8_t RegForeignSID
- uint8_t RegForeignNID
- uint8_t ForceRev0
- uint8_t CustomSCP
- uint32_t Protocol
- uint32_t Broadcast
- uint32_t Application
- uint32_t Roaming

8.1239.1 Detailed Description

Gets the current CDMA network parameters

Parameters

SCI	• Slot cycle index – 0xFF-Unknown
SCM	• Station class mark – 0xFF-Unknown
RegHomeSID	• Register on home SID – 0 - Disabled – 1 - Enabled – 0xFF - Unknown
RegForeignSID	• Register on foreign SID – 0 - Disabled – 1 - Enabled – 0xFF - Unknown
RegForeignNID	• Register on foreign NID – 0 - Disabled – 1 - Enabled – 0xFF - Unknown
ForceRev0	• Force CDMA 1x-EV-DO Rev. 0 mode – 0 - Disabled – 1 - Enabled – 0xFF - Unknown

CustomSCP	• Use a custom config for CDMA 1x-EV-DO SCP – 0 - Disabled – 1 - Enabled – 0xFF - Unknown
Protocol	• Protocol mask for custom SCP config – 0x00000001 - Subtype 2 Physical Layer – 0x00000002 - Enhanced CCMAC – 0x00000004 - Enhanced ACMAC – 0x00000008 - Enhanced FTCMAC – 0x00000010 - Subtype 3 RTCMAC – 0x00000020 - Subsystem 1 RTCMAC – 0x00000040 - Enhanced Idle – 0x00000080 - Generic Multimode Capable Disc Port – 0xFFFFFFFF - Unknown
Broadcast	• Broadcast mask for custom SCP config – 0x00000001 - Generic broadcast enabled – 0xFFFFFFFF - Unknown
Application	• Application mask for custom SCP config – 0x00000001 - SN Multiflow Packet Application – 0x00000002 - SN Enhanced Multiflow Packet Application – 0xFFFFFFFF - Unknown
Roaming	• Roaming preference – 0 - Automatic – 1 - Home Only – 2 - Affiliated Roaming Only – 3 - Home and Affiliated Roaming – 0xFFFFFFFF - Unknown

8.1239.2 Field Documentation

8.1239.2.1 uint32_t unpack_nas_GetCDMANetworkParameters_t::Application

8.1239.2.2 uint32_t unpack_nas_GetCDMANetworkParameters_t::Broadcast

8.1239.2.3 uint8_t unpack_nas_GetCDMANetworkParameters_t::CustomSCP

8.1239.2.4 uint8_t unpack_nas_GetCDMANetworkParameters_t::ForceRev0

8.1239.2.5 uint32_t unpack_nas_GetCDMANetworkParameters_t::Protocol

8.1239.2.6 uint8_t unpack_nas_GetCDMANetworkParameters_t::RegForeignNID

8.1239.2.7 uint8_t unpack_nas_GetCDMANetworkParameters_t::RegForeignSID

8.1239.2.8 uint8_t unpack_nas_GetCDMANetworkParameters_t::RegHomeSID

8.1239.2.9 uint32_t unpack_nas_GetCDMANetworkParameters_t::Roaming

8.1239.2.10 uint8_t unpack_nas_GetCDMANetworkParameters_t::SCI

8.1239.2.11 uint8_t unpack_nas_GetCDMANetworkParameters_t::SCM

8.1240 unpack_nas_GetHomeNetwork3GPP2_t Struct Reference

Data Fields

- uint16_t * pMCC
- uint16_t * pMNC
- uint8_t nameSize
- uint8_t * pName
- uint16_t * pSID
- uint16_t * pNID
- uint16_t * pNw2MCC
- uint16_t * pNw2MNC
- uint8_t * pNw2DescDisp
- uint8_t * pNw2DescEnc
- uint8_t * pNw2DescLen
- uint8_t * pNw2Name

8.1240.1 Detailed Description

Structure for HomeNetwork3GPP2 unpack.

Parameters

pMCC	• Mobile country code (UMTS only). • NULL for invalid data
pMNC	• Mobile network code (UMTS only). • NULL for invalid data
nameSize	• Maximum number of characters (including NULL terminator) that network name array can contain (UMTS only).
pName	• Network name or description represented as a NULL terminated string (empty string returned when unknown) (UMTS only). • NULL for invalid data

pSID	• Home network system ID
	  – 0xFFFF - Unknown.
	  – Only applies to cdma2000
	• NULL for invalid data

pNID	• Home network ID
	  – 0xFFFF - Unknown.
	  – Only applies to cdma2000
	• NULL for invalid data

pNw2MCC	• Mobile country code (3GPP2 only). • Range : 0 to 999 • NULL for invalid data
pNw2MNC	• Mobile network code (3GPP2 only). • Range : 0 to 999 • NULL for invalid data

pNw2DescDisp	• Network Name Display (3GPP2 only). -Valid Value
	  – 0x00 - Do not display
	  – 0x01 - Display
	  – 0xFF - Unknown
	• NULL for invalid data

pNw2DescEnc	• Encoding of the network description (3GPP2 only).
	• Valid Value
	  – 0x00 - Octet, unspecified
	  – 0x02 - 7-bit ASCII (liteqmi_helper_decode7bitAsciiEncString)
	  – 0x04 - Unicode
	  – 0x09 - GSM 7-bit default
	• NULL for invalid data

pNw2DescLen	• Network Description Length (3GPP2 only). • NULL for invalid data
pNw2Name	• Network Name (3GPP2 only). • NULL for invalid data

8.1240.2 Field Documentation

8.1240.2.1 uint8_t unpack_nas_GetHomeNetwork3GPP2_t::nameSize

8.1240.2.2 uint16_t* unpack_nas_GetHomeNetwork3GPP2_t::pMCC

8.1240.2.3 uint16_t* unpack_nas_GetHomeNetwork3GPP2_t::pMNC

8.1240.2.4 uint8_t* unpack_nas_GetHomeNetwork3GPP2_t::pName

8.1240.2.5 uint16_t* unpack_nas_GetHomeNetwork3GPP2_t::pNID

8.1240.2.6 uint8_t* unpack_nas_GetHomeNetwork3GPP2_t::pNw2DescDisp

8.1240.2.7 uint8_t* unpack_nas_GetHomeNetwork3GPP2_t::pNw2DescEnc

8.1240.2.8 uint8_t* unpack_nas_GetHomeNetwork3GPP2_t::pNw2DescLen

8.1240.2.9 uint16_t* unpack_nas_GetHomeNetwork3GPP2_t::pNw2MCC

8.1240.2.10 uint16_t* unpack_nas_GetHomeNetwork3GPP2_t::pNw2MNC

8.1240.2.11 uint8_t* unpack_nas_GetHomeNetwork3GPP2_t::pNw2Name

8.1240.2.12 uint16_t* unpack_nas_GetHomeNetwork3GPP2_t::pSID

8.1241 unpack_nas_GetHomeNetwork_t Struct Reference

Data Fields

- uint16_t mcc
- uint16_t mnc
- char name [255]
- uint16_t sid
- uint16_t nid

8.1241.1 Detailed Description

This structure contains unpack get get home network parameters.

Parameters

mcc	• Mobile country code (UMTS only). • A 16-bit integer representation of MCC. Range: 0 to 999. • 0xFFFF - Invalid data.
mnc	• Mobile network code (UMTS only). • A 16-bit integer representation of MNC. Range: 0 to 999. • 0xFFFF - Invalid data.
name	• Network name or description represented as a NULL terminated string (empty string returned when unknown) (UMTS only).

sid	• Home network system ID – 0xFFFF - Unknown. – Only applies to cdma2000
nid	• Home network ID – 0xFFFF - Unknown. – Only applies to cdma2000

8.1241.2 Field Documentation

8.1241.2.1 uint16_t unpack_nas_GetHomeNetwork_t::mcc

8.1241.2.2 uint16_t unpack_nas_GetHomeNetwork_t::mnc

8.1241.2.3 char unpack_nas_GetHomeNetwork_t::name[255]

8.1241.2.4 uint16_t unpack_nas_GetHomeNetwork_t::nid

8.1241.2.5 uint16_t unpack_nas_GetHomeNetwork_t::sid

8.1242 unpack_nas_GetNetworkPreference_t Struct Reference

Data Fields

- uint32_t ActiveTechPref
- uint32_t Duration
- uint32_t PersistentTechPref
- uint16_t Tlvresult

8.1242.1 Detailed Description

Returns the network registration preference. This API is deprecated on MC73xx/EM73xx modules since firmware version SWI9X15C_05_xx_xx_xx and all EM74xx firmware versions. Please use unpack_nas_SLQSGetSys-SelectionPref() for new firmware versions and new modules

Parameters

TechnologyPref[-OUT]	• Bitmask representing the radio technology preference set. • No bits set indicates to the device to automatically determine the technology to use • Values: – Bit 0 - Technology is 3GPP2 – Bit 1 - Technology is 3GPP • Any combination of the following may be returned: – Bit 2 - Analog - AMPS if 3GPP2, GSM if 3GPP – Bit 3 - Digital - CDMA if 3GPP2, WCDMA if 3GPP – Bit 4 - HDR – Bit 5 - LTE – Bits 6 to 15 - Reserved – 0xffffffff - invalid data.
Duration[OUT]	• Duration of active preference – 0 - Permanent – 1 - Power cycle – 2 - Until the end of the next call or a power cycle – 3 - Until the end of the next call, a specified time, or a power cycle – 4 to 6 - Until the end of the next call – 0xffffffff - invalid data.
Persistent-TechnologyPref[-OUT]	• Bit field representing persistent radio technology preference – Same representation as the pTechnologyPref parameter • 0xffffffff - invalid data.
Tlvresult	• unpack result

8.1242.2 Field Documentation

8.1242.2.1 uint32_t unpack_nas_GetNetworkPreference_t::ActiveTechPref

8.1242.2.2 uint32_t unpack_nas_GetNetworkPreference_t::Duration

8.1242.2.3 uint32_t unpack_nas_GetNetworkPreference_t::PersistentTechPref

8.1242.2.4 uint16_t unpack_nas_GetNetworkPreference_t::Tlvresult

8.1243 unpack_nas_GetRFInfo_t Struct Reference

Data Fields

- uint8_t instancesSize
- RFBandInfoElements RFBandInfoElements [255]

8.1243.1 Detailed Description

Structur to strore the RFInfoList

Parameters

instanceSize	• Upon input, maximum number of elements that the RF info instances array can contain. • Upon successful output, actual number of elements in RF info instances array.
RFBandInfo-Elements	• RF info instances array – See RFBandInfoElements for more information

8.1243.2 Field Documentation

8.1243.2.1 uint8_t unpack_nas_GetRFInfo_t::instancesSize

8.1243.2.2 RFBandInfoElements unpack_nas_GetRFInfo_t::RFBandInfoElements[255]

8.1244 unpack_nas_GetServingNetwork_t Struct Reference

Data Fields

- uint32_t RegistrationState
- uint32_t CSDomain
- uint32_t PSDomain
- uint32_t RAN
- uint8_t RadioIfacesSize
- uint8_t RadioIfaces [255]
- uint32_t Roaming
- uint16_t MCC
- uint16_t MNC
- uint8_t nameSize
- uint8_t Name [255]
- uint8_t DataCapsLen
- uint8_t DataCaps [255]

8.1244.1 Detailed Description

This structure contains unpack get get serving network parameters.

Parameters

Registration-State	• Registration state: – 0 - Not registered – 1 - Registered – 2 - Searching/Not Registered – 3 - Registration Denied – 4 - Unknown

CSDomain	• Circuit switch domain status: – 0 - Unknown/Not Applicable – 1 - Attached – 2 - Detached
PSDomain	• Packet switch domain status – 0 - Unknown/Not Applicable – 1 - Attached – 2 - Detached
RAN	• Type of radio access network on which mobile is registered: – 0 - Unknown – 1 - cdma2000 network – 2 - UMTS network
RadioIfacesSize	• Upon input, maximum number of elements that the radio interface array contain. • Upon successful output, actual number of elements in the radio interface array.
RadioIfaces	• An array of Radio Interface Technology – See qaGobiApiTableRadioInterfaces.h for the Radio Interface Technologies
Roaming	• Roaming indicator • 0xffffffff - invaild data.
MCC	• Mobile country code • 0xffff - invalid dta.
MNC	• Mobile network code • 0xffff - invalid dta.
nameSize	• Maximum number of characters (including NULL terminator) that network name array can contain; applicable only for UMTS networks
Name	• Network name or description represented as a NULL terminated string; empty string is returned when unknown; applicable only for UMTS networks
DataCapsLen[IN/OUT]	• Upon input, the maximum number of elements the data capabilities array can contain. • Upon output, the actual number of elements in the data capabilities array.

DataCaps[OUT]	• Data capabilities array of unsigned long type – 1 - GPRS – 2 - EDGE – 3 - HSDPA – 4 - HSUPA – 5 - WCDMA – 6 - CDMA 1xRTT – 7 - CDMA 1xEV-DO Rev 0 – 8 - CDMA 1xEV-DO Rev. A – 9 - GSM – 10 - EVDO Rev. B – 11 - LTE – 12 - HSDPA Plus – 13 - Dual Carrier HSDPA Plus

8.1244.2 Field Documentation

8.1244.2.1 uint32_t unpack_nas_GetServingNetwork_t::CSDomain

8.1244.2.2 uint8_t unpack_nas_GetServingNetwork_t::DataCaps[255]

8.1244.2.3 uint8_t unpack_nas_GetServingNetwork_t::DataCapsLen

8.1244.2.4 uint16_t unpack_nas_GetServingNetwork_t::MCC

8.1244.2.5 uint16_t unpack_nas_GetServingNetwork_t::MNC

8.1244.2.6 uint8_t unpack_nas_GetServingNetwork_t::Name[255]

8.1244.2.7 uint8_t unpack_nas_GetServingNetwork_t::nameSize

8.1244.2.8 uint32_t unpack_nas_GetServingNetwork_t::PSDomain

8.1244.2.9 uint8_t unpack_nas_GetServingNetwork_t::RadioIfaces[255]

8.1244.2.10 uint8_t unpack_nas_GetServingNetwork_t::RadioIfacesSize

8.1244.2.11 uint32_t unpack_nas_GetServingNetwork_t::RAN

8.1244.2.12 uint32_t unpack_nas_GetServingNetwork_t::RegistrationState

8.1244.2.13 uint32_t unpack_nas_GetServingNetwork_t::Roaming

8.1245 unpack_nas_GetServingNetworkCapabilities_t Struct Reference

Data Fields

- uint8_t DataCapsLen
- uint8_t DataCaps [255]

8.1245.1 Detailed Description

This structure contains unpack get serving network capabilities parameters.

Parameters

DataCapsLen	• Upon input, the maximum number of elements the data capabilities array can contain. • Upon output, the actual number of elements in the data capabilities array.
DataCaps[OUT]	• Data capabilities array of unsigned long type – 1 - GPRS – 2 - EDGE – 3 - HSDPA – 4 - HSUPA – 5 - WCDMA – 6 - CDMA 1xRTT – 7 - CDMA 1xEV-DO Rev 0 – 8 - CDMA 1xEV-DO Rev. A – 9 - GSM – 10 - EVDO Rev. B – 11 - LTE – 12 - HSDPA Plus – 13 - Dual Carrier HSDPA Plus

8.1245.2 Field Documentation

8.1245.2.1 uint8_t unpack_nas_GetServingNetworkCapabilities_t::DataCaps[255]

8.1245.2.2 uint8_t unpack_nas_GetServingNetworkCapabilities_t::DataCapsLen

8.1246 unpack_nas_GetSignalStrengths_t Struct Reference

Data Fields

- uint32_t len
- signed char rssi [8]
- uint32_t radio [8]

8.1246.1 Detailed Description

This structure contains unpack get signal strengths parameters.

Parameters

len	number of rssi & radio items following
rssi	signal strength array
radio	radio interface array

8.1246.2 Field Documentation

8.1246.2.1 uint32_t unpack_nas_GetSignalStrengths_t::len

8.1246.2.2 uint32_t unpack_nas_GetSignalStrengths_t::radio[8]

8.1246.2.3 signed char unpack_nas_GetSignalStrengths_t::rssi[8]

8.1247 unpack_nas_PerformNetworkScan_t Struct Reference

Data Fields

- uint8_t * p3GppNetworkInstanceSize
- nas_QmiNas3GppNetworkInfo * p3GppNetworkInfoInstances
- uint8_t * pRATInstanceSize
- nas_QmiNas3GppNetworkRAT * pRATINstance
- uint8_t * pPCSInstanceSize
- nas_QmisNasPcsDigit * pPCSInstance
- uint32_t * pScanResult

8.1247.1 Detailed Description

Contain the network scan information.

Parameters

p3GppNetwork-InstanceSize	• Upon input, maximum number of elements that the network info instance array can contain. • Upon successful output, the actual number of elements in the network info instance array.
p3GppNetwork-InfoInstances	• Network info instance array – See nas_QmiNas3GppNetworkInfo for more information
pRATInstance-Size	• Upon input, maximum number of elements that the RAT info instance array can contain. • Upon successful output, the actual number of elements in the RAT info instance array.
pRATINstance	• RAT info instance array – See nas_QmiNas3GppNetworkRAT for more information
pPCSInstance-Size	• Upon input, maximum number of elements that the PCS Digit info instance array can contain. • Upon successful output, the actual number of elements in the PCS Digit info instance array.
pPCSInstance	• PCS Digit info instance array – See nas_QmisNasPcsDigit for more information
pScanResult	• status of network scan • 0x00 - scan successful • 0x01 - scan was aborted • 0x02 - scan did not complete due to a radio link failure recovery in progress • 0xffffffff - invalid data.

8.1247.2 Field Documentation

8.1247.2.1 nas_QmiNas3GppNetworkInfo* unpack_nas_PerformNetworkScan_t::p3GppNetworkInfoInstances

8.1247.2.2 uint8_t* unpack_nas_PerformNetworkScan_t::p3GppNetworkInstanceSize

8.1247.2.3 nas_QmisNasPcsDigit* unpack_nas_PerformNetworkScan_t::pPCSInstance

8.1247.2.4 uint8_t* unpack_nas_PerformNetworkScan_t::pPCSInstanceSize

8.1247.2.5 nas_QmiNas3GppNetworkRAT* unpack_nas_PerformNetworkScan_t::pRATInstance

8.1247.2.6 uint8_t* unpack_nas_PerformNetworkScan_t::pRATInstanceSize

8.1247.2.7 uint32_t* unpack_nas_PerformNetworkScan_t::pScanResult

8.1248 unpack_nas_SetDataCapabilitiesCallback_ind_t Struct Reference

Data Fields

- uint8_t dataCapsSize
- uint8_t dataCaps [255]

8.1248.1 Detailed Description

This structure contains unpack set data capabilities callback indication parameters.

Parameters

dataCapsSize	Number of Data Capabilities
dataCaps	Data Capabilities

8.1248.2 Field Documentation

8.1248.2.1 uint8_t unpack_nas_SetDataCapabilitiesCallback_ind_t::dataCaps[255]

8.1248.2.2 uint8_t unpack_nas_SetDataCapabilitiesCallback_ind_t::dataCapsSize

8.1249 unpack_nas_SetEventReportInd_t Struct Reference

Data Fields

- nas_SignalStrengthTlv SSTlv
- nas_RFInfoTlv RFTlv
- nas_RejectReasonTlv RRTlv
- nas_SLQSSignalStrengthsTlv SLQSSSTlv

8.1249.1 Detailed Description

This structure contains unpack set event report indication parameters.

Parameters

SSTlv	signal strength tlv
RFTlv	RF tlv
RRTlv	RR tlv
SLQSSSTlv	signal strength complete info tlv

8.1249.2 Field Documentation

8.1249.2.1 nas_RFInfoTlv unpack_nas_SetEventReportInd_t::RFTlv

8.1249.2.2 nas_RejectReasonTlv unpack_nas_SetEventReportInd_t::RRTlv

8.1249.2.3 nas_SLQSSignalStrengthsTlv unpack_nas_SetEventReportInd_t::SLQSSSTlv

8.1249.2.4 nas_SignalStrengthTlv unpack_nas_SetEventReportInd_t::SSTlv

8.1250 unpack_nas_SetNasLTECphyCaIndCallback_ind_t Struct Reference

Data Fields

- nas_PhyCaAggScellIndType sPhyCaAggScellIndType
- nas_PhyCaAggScellDlBw sPhyCaAggScellDlBw
- nas_PhyCaAggScellInfo sPhyCaAggScellInfo
- nas_PhyCaAggPcellInfo sPhyCaAggPcellInfo
- nas_PhyCaAggScellIndex sPhyCaAggScellIndex

8.1250.1 Detailed Description

Structure for storing the LTE PHY CA indication parameters.

Parameters

pPhyCaAgg-ScellIndType	• See nas_PhyCaAggScellIndType for more information.
sPhyCaAgg-ScellDlBw	• See nas_PhyCaAggScellDlBw for more information.
sPhyCaAgg-ScellInfo	• See nas_PhyCaAggScellInfo for more information.
sPhyCaAgg-PcellInfo	• See nas_PhyCaAggPcellInfo for more information.
sPhyCaAgg-ScellIndex	• See nas_PhyCaAggScellIndex for more information.

8.1250.2 Field Documentation

8.1250.2.1 nas_PhyCaAggPcellInfo unpack_nas_SetNasLTECphyCaIndCallback_ind_t::sPhyCaAggPcellInfo

8.1250.2.2 nas_PhyCaAggScellDlBw unpack_nas_SetNasLTECphyCaIndCallback_ind_t::sPhyCaAggScellDlBw

8.1250.2.3 nas_PhyCaAggScellIndex unpack_nas_SetNasLTECphyCaIndCallback_ind_t::sPhyCaAggScellIndex

8.1250.2.4 nas_PhyCaAggScellIndType unpack_nas_SetNasLTECphyCaIndCallback_ind_t::sPhyCaAggScellIndType

8.1250.2.5 nas_PhyCaAggScellInfo unpack_nas_SetNasLTECphyCaIndCallback_ind_t::sPhyCaAggScellInfo

8.1251 unpack_nas_SetNetworkPreference_t Struct Reference

Data Fields

- uint16_t Tlvresult

8.1251.1 Detailed Description

This structure contains unpack set netwokr preference parameters.

Parameters

Tlvresult	• unpack result

8.1251.2 Field Documentation

8.1251.2.1 uint16_t unpack_nas_SetNetworkPreference_t::Tlvresult

8.1252 unpack_nas_SetRoamingIndicatorCallback_ind_t Struct Reference

Data Fields

- uint8_t roaming

8.1252.1 Detailed Description

This structure contains unpack set roaming indicator callback indication parameters.

Parameters

roaming	• Roaming Indication – 0 - Roaming – 1 - Home – 2 - Roaming partner – >2 - Operator defined values

8.1252.2 Field Documentation

8.1252.2.1 uint8_t unpack_nas_SetRoamingIndicatorCallback_ind_t::roaming

8.1253 unpack_nas_SetServingSystemCallback_ind_t Struct Reference

Data Fields

- NASServingSystemInfo SSInfo
- uint16_t Tlvresult

8.1253.1 Detailed Description

This structure contains unpack set serving system callback indication parameters.

Parameters

SSInfo	• Serving system parameters information – See NASServingSystemInfo for more details
Tlvresult	• unpack result

8.1253.2 Field Documentation

8.1253.2.1 NASServingSystemInfo unpack_nas_SetServingSystemCallback_ind_t::SSInfo

8.1253.2.2 uint16_t unpack_nas_SetServingSystemCallback_ind_t::Tlvresult

8.1254 unpack_nas_SLQSGetErrorRate_t Struct Reference

Data Fields

- uint16_t * pCDMAFrameErrRate
- uint16_t * pHDRPackErrRate
- uint8_t * pGSMBER
- uint8_t * pWCDMABER

8.1254.1 Detailed Description

Structure for Error Rate unpack parameters.

Parameters

pCDMAFrame-ErrRate	• CDMA Frame Error Rate • Valid error rate values between 1 and 10000 are returned to indicate the percentage, e.g., a value of 300 means the error rate is 3%. • A value of 0xFFFF indicates that the error rate is unknown/unavailable. • NULL for invalid data

pHDRPackErr-Rate	• HDR Packet Error Rate • Valid error rate values between 1 and 10000 are returned to indicate the percentage, e.g., a value of 300 means the error rate is 3%. • A value of 0xFFFF indicates that the error rate is unknown/unavailable. • NULL for invalid data
pGSMBER	• GSM Bit Error Rate • Valid error rate values between 1 and 100 are returned to indicate the percentage value. • A 0% block error rate (BLER) indicates No Data. • NULL for invalid data
pWCDMABER	• WCDMA Block Error Rate • Valid error rate values between 1 and 100 are returned to indicate the percentage value. • A value of 0xFF indicates that the error rate is unknown/unavailable. • NULL for invalid data

8.1254.2 Field Documentation

8.1254.2.1 uint16_t∗ unpack_nas_SLQSGetErrorRate_t::pCDMAFrameErrRate

8.1254.2.2 uint8_t∗ unpack_nas_SLQSGetErrorRate_t::pGSMBER

8.1254.2.3 uint16_t∗ unpack_nas_SLQSGetErrorRate_t::pHDRPackErrRate

8.1254.2.4 uint8_t∗ unpack_nas_SLQSGetErrorRate_t::pWCDMABER

8.1255 unpack_nas_SlqsGetLTECphyCAInfo_t Struct Reference

Data Fields

- NasGetLTECphyCaInfo LTECphyCaInfo
- uint16_t Tlvresult

8.1255.1 Detailed Description

This structure contains unpack get carrier aggregation event information parameters.

Parameters

LTECphyCa	• Carrier aggregation event information – See NasGetLTECphyCaInfo for more details
Tlvresult	• unpack result

8.1255.2 Field Documentation

8.1255.2.1 NasGetLTECphyCaInfo unpack_nas_SlqsGetLTECphyCAInfo_t::LTECphyCaInfo

8.1255.2.2 uint16_t unpack_nas_SlqsGetLTECphyCAInfo_t::Tlvresult

8.1256 unpack_nas_SLQSGetNetworkTime_t Struct Reference

Data Fields

- nas_timeInfo * p3GPP2TimeInfo
- nas_timeInfo * p3GPPTimeInfo

8.1256.1 Detailed Description

This structure contains information about the GetNetworkTime response parameters.

Parameters

p3GPP2TimeInfo	[Optional] • See nas_timeInfo for more information • NULL for invalid data.
p3GPPTimeInfo	[Optional] • See nas_timeInfo for more information • NULL for invalid data.

8.1256.2 Field Documentation

8.1256.2.1 nas_timeInfo* unpack_nas_SLQSGetNetworkTime_t::p3GPP2TimeInfo

8.1256.2.2 nas_timeInfo* unpack_nas_SLQSGetNetworkTime_t::p3GPPTimeInfo

8.1257 unpack_nas_SLQSGetOperatorNameData_t Struct Reference

Data Fields

- nas_serviceProviderName * pSrvcProviderName
- nas_operatorPLMNList * pOperatorPLMNList
- nas_PLMNNetworkName * pPLMNNetworkName
- nas_operatorNameString * pOperatorNameString
- nas_PLMNNetworkNameData * pNITZInformation

8.1257.1 Detailed Description

Structure for Operator Name unpack.

Parameters

pSrvcProvider-Name	• Refer nas_serviceProviderName for details (Optional). • Can provide NULL if this parameter is not required. • NULL for invalid data
pOperatorPLM-NList	• Refer nas_operatorPLMNList for details (Optional). • Can provide NULL if this parameter is not required. • NULL for invalid data
pPLMNNetwork-Name	• Refer nas_PLMNNetworkName for details (Optional). • Can provide NULL if this parameter is not required. • NULL for invalid data
pOperatorName-String	• Refer nas_operatorNameString for details (Optional). • Can provide NULL if this parameter is not required. • NULL for invalid data
pNITZ-Information	• Refer nas_PLMNNetworkNameData for details (Optional). • Can provide NULL if this parameter is not required. • NULL for invalid data

8.1257.2 Field Documentation

8.1257.2.1 nas_PLMNNetworkNameData* unpack_nas_SLQSGetOperatorNameData_t::pNITZInformation

8.1257.2.2 nas_operatorNameString* unpack_nas_SLQSGetOperatorNameData_t::pOperatorNameString

8.1257.2.3 nas_operatorPLMNList* unpack_nas_SLQSGetOperatorNameData_t::pOperatorPLMNList

8.1257.2.4 nas_PLMNNetworkName* unpack_nas_SLQSGetOperatorNameData_t::pPLMNNetworkName

8.1257.2.5 nas_serviceProviderName* unpack_nas_SLQSGetOperatorNameData_t::pSrvcProviderName

8.1258 unpack_nas_SLQSGetPLMNName_t Struct Reference

Data Fields

- uint8_t spnEncoding
- uint8_t spnLength
- char spn [255]
- uint8_t shortNameEn
- uint8_t shortNameCI
- uint8_t shortNameSB
- char shortNameLen
- uint8_t shortName [255]
- uint8_t longNameEn
- uint8_t longNameCI

- uint8_t longNameSB
- uint8_t longNameLen
- char longName [255]

8.1258.1 Detailed Description

This structure contains unpack get operator name for specificed network parameters.

Parameters

spnEncoding	• Coding scheme used for service provider name. This value is ignored if spn_len is zero Values: – 0x00 - SMS default 7-bit coded alphabet as defined in 3GPP TS 23.038 with bit 8 set to 0 – 0x01 - UCS2 (16 bit, little-endian) 3GPP TS 23.038 – Note: This value is ignored if spnLength is zero.
spnLength	• Length of SPN which follows • Note: This SPN value is ignored if spnLength is zero and spnEncoding is 0xff.
spn	• Service Provider name string
shortNameEn	• Coding scheme used for PLMN short name. This value is ignored if PLMN short name length is zero Values: – 0x00 - SMS default 7-bit coded alphabet as defined in 3GPP TS 23.038 with bit 8 set to 0 – 0x01 - UCS2 (16 bit, little-endian) 3GPP TS 23.038 – Note: This value is ignored if shortNameLen is zero.
shortNameCI	• Indicates whether the country initials are to be added to the shortName. This value is ignored if shortNameLen is zero. Values: – 0x00 - Do not add the letters for the countrys initials to the name – 0x01 - Add the countrys initials and a text string to the name – 0xFF - Not specified – Note: This value is ignored if shortNameLen is zero.
shortNameSB	• PLMN short name spare bits. This value is ignored if shortNameLen is zero. Values: – 0x01 - Bit 8 is spare and set to 0 in octet – 0x02 - Bits 7 and 8 are spare and set to 0 in octet n – 0x03 - Bits 6 to 8 (inclusive) are spare and set to 0 in octet n – 0x04 - Bits 5 to 8 (inclusive) are spare and set to 0 in octet n – 0x05 - Bits 4 to 8 (inclusive) are spare and set to 0 in octet n – 0x06 - Bits 3 to 8 (inclusive) are spare and set to 0 in octet n – 0x07 - Bits 2 to 8 (inclusive) are spare and set to 0 in octet n – 0x00 - Carries no information about the number of spare bits in octet n – Note: This value is ignored if shortNameLen is zero.
shortNameLen	• Length of shortName which follows • Note: This shortName value is ignored if shortNameLen is zero and shortNameEn is 0xff.

shortName	• PLMN short name
longNameEn	• Coding scheme used for PLMN long name. This value is ignored if PLMN long name length is zero Values: – 0x00 - SMS default 7-bit coded alphabet as defined in 3GPP TS 23.038 with bit 8 set to 0 – 0x01 - UCS2 (16 bit, little-endian) 3GPP TS 23.038 – Note: This value is ignored if shortNameLen is zero.
longNameCI	• Indicates whether the country initials are to be added to the longName. This value is ignored if longNameLen is zero. Values: – 0x00 - Do not add the letters for the countrys initials to the name – 0x01 - Add the countrys initials and a text string to the name – 0xFF - Not specified – Note: This value is ignored if shortNameLen is zero.
longNameSB	• PLMN long name spare bits. This value is ignored if longNameLen is zero. Values: – 0x01 - Bit 8 is spare and set to 0 in octet – 0x02 - Bits 7 and 8 are spare and set to 0 in octet n – 0x03 - Bits 6 to 8 (inclusive) are spare and set to 0 in octet n – 0x04 - Bits 5 to 8 (inclusive) are spare and set to 0 in octet n – 0x05 - Bits 4 to 8 (inclusive) are spare and set to 0 in octet n – 0x06 - Bits 3 to 8 (inclusive) are spare and set to 0 in octet n – 0x07 - Bits 2 to 8 (inclusive) are spare and set to 0 in octet n – 0x00 - Carries no information about the number of spare bits in octet n – Note: This value is ignored if shortNameLen is zero.
longNameLen	• Length of longName which follows • Note: This longName value is ignored if longNameLen is zero and longNameEn is 0xff.
longName	• PLMN long name

8.1258.2 Field Documentation

8.1258.2.1 char unpack_nas_SLQSGetPLMNName_t::longName[255]

8.1258.2.2 uint8_t unpack_nas_SLQSGetPLMNName_t::longNameCI

8.1258.2.3 uint8_t unpack_nas_SLQSGetPLMNName_t::longNameEn

8.1258.2.4 uint8_t unpack_nas_SLQSGetPLMNName_t::longNameLen

8.1258.2.5 uint8_t unpack_nas_SLQSGetPLMNName_t::longNameSB

8.1258.2.6 uint8_t unpack_nas_SLQSGetPLMNName_t::shortName[255]

8.1258.2.7 uint8_t unpack_nas_SLQSGetPLMNName_t::shortNameCI

8.1258.2.8 uint8_t unpack_nas_SLQSGetPLMNName_t::shortNameEn

8.1258.2.9 char unpack_nas_SLQSGetPLMNName_t::shortNameLen

8.1258.2.10 uint8_t unpack_nas_SLQSGetPLMNName_t::shortNameSB

8.1258.2.11 char unpack_nas_SLQSGetPLMNName_t::spn[255]

8.1258.2.12 uint8_t unpack_nas_SLQSGetPLMNName_t::spnEncoding

8.1258.2.13 uint8_t unpack_nas_SLQSGetPLMNName_t::spnLength

8.1259 unpack_nas_SLQSGetServingSystem_t Struct Reference

Data Fields

- nas_servSystem ServingSystem
- uint8_t RoamIndicatorVal
- nas_dataSrvCapabilities DataSrvCapabilities
- nas_currentPLMN CurrentPLMN
- uint16_t SystemID
- uint16_t NetworkID
- uint16_t BasestationID
- uint32_t BasestationLatitude
- uint32_t BasestationLongitude
- nas_roamIndList RoamingIndicatorList
- uint8_t DefaultRoamInd
- nas_qaQmi3Gpp2TimeZone Gpp2TimeZone
- uint8_t CDMA_P_Rev
- uint8_t GppTimeZone
- uint8_t GppNetworkDSTAdjustment
- uint16_t Lac
- uint32_t CellID
- uint8_t ConcSvcInfo
- uint8_t PRLInd
- uint8_t DTMInd
- nas_detailSvcInfo DetailedSvcInfo
- nas_CDMASysInfoExt CDMASystemInfoExt
- uint8_t HdrPersonality
- uint16_t TrackAreaCode
- nas_callBarStatus CallBarStatus

8.1259.1 Detailed Description

This structure contains the Serving System parameters

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Parameters

ServingSystem	• Serving System • See nas_servSystem for more information
RoamIndicator-Val	• Optional parameter indicating Roaming Indicator value • Values: – 0x00 - Roaming – 0x01 - Home – 0x02 - Flashing – 0x03 and above - Operator defined values
DataSrv-Capabilities	• Optional parameter indicating Data services capability • See nas_dataSrvCapabilities for more information
CurrentPLMN	• Optional parameter indicating Current PLMN • See nas_currentPLMN for more information
SystemID	• Optional parameter indicating System ID
NetworkID	• Optional parameter indicating Network ID
BaseStationID	• Optional parameter indicating Base Station Identification Number
BaseStation-Latitude	• Optional parameter indicating Base station latitude in units of 0.25 sec,expressed as a two's complement signed number with positive numbers signifying North latitude
Basestation-Longitude	• Optional parameter indicating Base station longitude in units of 0.25 sec, expressed as a Two's complement signed number with positive numbers signifying East longitude
Roaming-IndicatorList	• Optional parameter indicating Roaming Indicator List • See nas_roamIndList for more information
DefaultRoamInd	• Optional parameter indicating Default Roaming Indicator • Values: – 0x00 - Roaming – 0x01 - Home
Gpp2TimeZone	• Optional parameter indicating 3GPP2 Time Zone • See nas_qaQmi3Gpp2TimeZone for more information

CDMA_P_Rev	• Optional parameter indicating CDMA P_Rev in use
GppTimeZone	• Optional parameter indicating Offset from Universal time, i.e., difference between local time and Universal time, in increments of 15 min. (signed value).
GppNetworkDS-TAdjustment	• Optional parameter indicating 3GPP network daylight saving adjustment • Values: – 0x00 - No adjustment for Daylight Saving Time – 0x01 - 1 hr adjustment for Daylight Saving Time – 0x02 - 2 hr adjustment for Daylight Saving Time
Lac	• Optional parameter indicating 3GPP Location Area Code
CellID	• Optional parameter indicating 3GPP Cell ID
ConcSvcInfo	• Optional parameter indicating 3GPP2 concurrent service Info • Values: – 0x00 - Concurrent service not available – 0x01 - Concurrent service available
PRLInd	• Optional parameter indicating 3GPP2 PRL Indicator • Values: – 0x00 - System not in PRL – 0x01 - System is in PRL
DTMInd	• Optional parameter indicating Dual Transfer Mode Indication(GSM Only) • Values: – 0x00 - DTM not supported – 0x01 - DTM supported
DetailedSvcInfo	• Optional parameter indicating Detailed service information • See nas_detailSvcInfo for more information
CDMASystem-InfoExt	• Optional parameter indicating CDMA System Info Ext • See nas_CDMASysInfoExt for more information

HdrPersonality	• Optional parameter indicating HDR Personality Information • Values: – 0x00 - Unknown – 0x01 - HRPD – 0x02 - eHRPD
TrackAreaCode	• Optional parameter indicating Tracking area code information for LTE
CallBarStatus	• Optional parameter indicating Call Barring Status • See nas_callBarStatus for more information

8.1259.2 Field Documentation

8.1259.2.1 uint16_t unpack_nas_SLQSGetServingSystem_t::BasestationID

8.1259.2.2 uint32_t unpack_nas_SLQSGetServingSystem_t::BasestationLatitude

8.1259.2.3 uint32_t unpack_nas_SLQSGetServingSystem_t::BasestationLongitude

8.1259.2.4 nas_callBarStatus unpack_nas_SLQSGetServingSystem_t::CallBarStatus

8.1259.2.5 uint8_t unpack_nas_SLQSGetServingSystem_t::CDMA_P_Rev

8.1259.2.6 nas_CDMASysInfoExt unpack_nas_SLQSGetServingSystem_t::CDMASystemInfoExt

8.1259.2.7 uint32_t unpack_nas_SLQSGetServingSystem_t::CellID

8.1259.2.8 uint8_t unpack_nas_SLQSGetServingSystem_t::ConcSvcInfo

8.1259.2.9 nas_currentPLMN unpack_nas_SLQSGetServingSystem_t::CurrentPLMN

8.1259.2.10 nas_dataSrvCapabilities unpack_nas_SLQSGetServingSystem_t::DataSrvCapabilities

8.1259.2.11 uint8_t unpack_nas_SLQSGetServingSystem_t::DefaultRoamInd

8.1259.2.12 nas_detailSvcInfo unpack_nas_SLQSGetServingSystem_t::DetailedSvcInfo

8.1259.2.13 uint8_t unpack_nas_SLQSGetServingSystem_t::DTMInd

8.1259.2.14 nas_qaQmi3Gpp2TimeZone unpack_nas_SLQSGetServingSystem_t::Gpp2TimeZone

8.1259.2.15 uint8_t unpack_nas_SLQSGetServingSystem_t::GppNetworkDSTAdjustment

8.1259.2.16 uint8_t unpack_nas_SLQSGetServingSystem_t::GppTimeZone

8.1259.2.17 uint8_t unpack_nas_SLQSGetServingSystem_t::HdrPersonality

8.1259.2.18 uint16_t unpack_nas_SLQSGetServingSystem_t::Lac

8.1259.2.19 uint16_t unpack_nas_SLQSGetServingSystem_t::NetworkID

8.1259.2.20 uint8_t unpack_nas_SLQSGetServingSystem_t::PRLInd

8.1259.2.21 uint8_t unpack_nas_SLQSGetServingSystem_t::RoamIndicatorVal

8.1259.2.22 nas_roamIndList unpack_nas_SLQSGetServingSystem_t::RoamingIndicatorList

8.1259.2.23 nas_servSystem unpack_nas_SLQSGetServingSystem_t::ServingSystem

8.1259.2.24 uint16_t unpack_nas_SLQSGetServingSystem_t::SystemID

8.1259.2.25 uint16_t unpack_nas_SLQSGetServingSystem_t::TrackAreaCode

8.1260 unpack_nas_SLQSGetSignalStrength_t Struct Reference

Data Fields

- uint16_t signalStrengthReqMask
- uint16_t rxSignalStrengthListLen
- nas_rxSignalStrengthListElement rxSignalStrengthList [18]
- uint16_t ecioListLen
- nas_ecioListElement ecioList [18]
- int32_t Io
- uint8_t sinr
- uint16_t errorRateListLen
- nas_errorRateListElement errorRateList [18]
- nas_rsrqInformation rsrqInfo
- int16_t ltesnr
- int16_t ltersrp

8.1260.1 Detailed Description

This structure contains the Signal Strength Information

Parameters

signalStrength-ReqMask	• Request Mask – Request additional signal information for: Bit 0 - RSSI Information bit Valid values are: 0 - Do Not Request Additional Info for RSSI 1 - Request Additional Info for RSSI Bit 1 - ECIO Information bit Valid values are: 0 - Do Not Request Additional Info for ECIO 1 - Request Additional Info for ECIO Bit 2 - IO Information bit Valid values are: 0 - Do Not Request Additional Info for IO 1 - Request Additional Info for IO Bit 3 - SINR Information bit Valid values are: 0 - Do Not Request Additional Info for SINR 1 - Request Additional Info for SINR Bit 4 - ERROR RATE Information bit Valid values are: 0 - Do Not Request Additional Info for Error Rate 1 - Request Additional Info for Error Rate Bit 5 - RSRQ Information bit Valid values are: 0 - Do Not Request Additional Info for RSRQ 1 - Request Additional Info for RSRQ Bit 6 - LTE SNR information bit Valid values are: 0 - Do not request additional information for LTE SNR 1 - Request additional information for LTE SNR Bit 7 - LTE RSRP Information bit Valid values are: 0 - Do not request additional information for LTE RSRP 1 - Request additional information for LTE RSRP
rxSignal-StrengthListLen	• Number of elements in Receive Signal Strength List
rxSignal-StrengthList	• See nas_rxSignalStrengthListElement for more information
ecioListLen	• Number of elements in ECIO List
ecioList	• See nas_ecioListElement for more information
Io	• Received Io in dBm; IO is only applicable for 1xEV-DO
sinr	• SINR level – SINR is only applicable for 1xEV-DO; valid levels are 0 to 8 where maximum value for 0 - SINR_LEVEL_0 is -9 dB 1 - SINR_LEVEL_1 is -6 dB 2 - SINR_LEVEL_2 is -4.5 dB 3 - SINR_LEVEL_3 is -3 dB 4 - SINR_LEVEL_4 is -2 dB 5 - SINR_LEVEL_5 is +1 dB 6 - SINR_LEVEL_6 is +3 dB 7 - SINR_LEVEL_7 is +6 dB 8 - SINR_LEVEL_8 is +9 dB

errorRateListLen	• Number of elements in Error Rate List
errorRateList	• See nas_errorRateListElement for more information
rsrqInfo	• See nas_rsrqInformation for more information
ltesnr	• LTE SNR level as a scaled integer in units of 0.1 dB; e.g., -16 dB has a value of -160 and 24.6 dB has a value of 246. LTE SNR is included only when the current serving system is LTE
ltersrp	• LTE SNR level as a scaled integer in units of 0.1 dB; e.g., -16 dB has a value of -160 and 24.6 dB has a value of 246. LTE SNR is included only when the current serving system is LTE

8.1260.2 Field Documentation

8.1260.2.1 nas_ecioListElement unpack_nas_SLQSGetSignalStrength_t::ecioList[18]

8.1260.2.2 uint16_t unpack_nas_SLQSGetSignalStrength_t::ecioListLen

8.1260.2.3 nas_errorRateListElement unpack_nas_SLQSGetSignalStrength_t::errorRateList[18]

8.1260.2.4 uint16_t unpack_nas_SLQSGetSignalStrength_t::errorRateListLen

8.1260.2.5 int32_t unpack_nas_SLQSGetSignalStrength_t::lo

8.1260.2.6 int16_t unpack_nas_SLQSGetSignalStrength_t::ltersrp

8.1260.2.7 int16_t unpack_nas_SLQSGetSignalStrength_t::ltesnr

8.1260.2.8 nas_rsrqInformation unpack_nas_SLQSGetSignalStrength_t::rsrqInfo

8.1260.2.9 nas_rxSignalStrengthListElement unpack_nas_SLQSGetSignalStrength_t::rxSignalStrengthList[18]

8.1260.2.10 uint16_t unpack_nas_SLQSGetSignalStrength_t::rxSignalStrengthListLen

8.1260.2.11 uint16_t unpack_nas_SLQSGetSignalStrength_t::signalStrengthReqMask

8.1260.2.12 uint8_t unpack_nas_SLQSGetSignalStrength_t::sinr

8.1261 unpack_nas_SLQSGetSysInfo_t Struct Reference

Data Fields

- nas_SrvStatusInfo * pCDMASrvStatusInfo
- nas_SrvStatusInfo * pHDRSrvStatusInfo
- nas_GSMSrvStatusInfo * pGSMSrvStatusInfo
- nas_GSMSrvStatusInfo * pWCDMASrvStatusInfo
- nas_GSMSrvStatusInfo * pLTESrvStatusInfo

- nas_CDMASysInfo * pCDMASysInfo
- nas_HDRSysInfo * pHDRSysInfo
- nas_GSMSysInfo * pGSMSysInfo
- nas_WCDMASysInfo * pWCDMASysInfo
- nas_LTESysInfo * pLTESysInfo
- nas_AddCDMASysInfo * pAddCDMASysInfo
- uint16_t * pAddHDRSysInfo
- nas_AddSysInfo * pAddGSMSysInfo
- nas_AddSysInfo * pAddWCDMASysInfo
- uint16_t * pAddLTESysInfo
- nas_CallBarringSysInfo * pGSMCallBarringSysInfo
- nas_CallBarringSysInfo * pWCDMACallBarringSysInfo
- uint8_t * pLTEVoiceSupportSysInfo
- uint8_t * pGSMCipherDomainSysInfo
- uint8_t * pWCDMACipherDomainSysInfo

8.1261.1 Detailed Description

This structure contains unpack get system information parameters.

Parameters

pCDMASrv-StatusInfo	• See nas_SrvStatusInfo for more information. • NULL Pointer for invalid data.
pHDRSrvStatus-Info	• See nas_SrvStatusInfo for more information. • NULL Pointer for invalid data.
pGSMSrvStatus-Info	• See nas_GSMSrvStatusInfo for more information. • NULL Pointer for invalid data.
pWCDMASrv-StatusInfo	• See nas_GSMSrvStatusInfo for more information. • NULL Pointer for invalid data.
pLTESrvStatus-Info	• See nas_GSMSrvStatusInfo for more information. • NULL Pointer for invalid data.
pCDMASysInfo	• See nas_CDMASysInfo for more information. • NULL Pointer for invalid data.
pHDRSysInfo	• See nas_HDRSysInfo for more information. • NULL Pointer for invalid data.
pGSMSysInfo	• See nas_GSMSysInfo for more information. • NULL Pointer for invalid data.

pWCDMASysInfo	• See nas_WCDMASysInfo for more information. • NULL Pointer for invalid data.
pLTESysInfo	• See nas_LTESysInfo for more information. • NULL Pointer for invalid data.
pAddCDMASysInfo	• See nas_AddCDMASysInfo for more information. • NULL Pointer for invalid data.
pAddHDRSysInfo	• System table index referencing the beginning of the geo in which the current serving system is present. • When the system index is not known, 0xFFFF is used. • NULL Pointer for invalid data.
pAddGSMSysInfo	• See nas_AddSysInfo for more information. • NULL Pointer for invalid data.
pAddWCDMASysInfo	• See nas_AddSysInfo for more information. • NULL Pointer for invalid data.
pAddLTESysInfo	• System table index referencing the beginning of the geo in which the current serving system is present. • When the system index is not known, 0xFFFF is used. • NULL Pointer for invalid data.
pGSMCallBarringSysInfo	• See nas_CallBarringSysInfo for more information. • NULL Pointer for invalid data.
pWCDMACallBarringSysInfo	• See nas_CallBarringSysInfo for more information. • NULL Pointer for invalid data.

pLTEVoiceSupportSysInfo	• Indicates voice support status on LTE.
	  – 0x00 - Voice is not supported
	  – 0x01 - Voice is supported
	• NULL Pointer for invalid data.

pGSMCipher-DomainSysInfo	• Ciphering on the service domain. – 0x00 - No service – 0x01 - Circuit-switched only – 0x02 - Packet-switched only – 0x03 - Circuit-switched and packet-switched • NULL Pointer for invalid data.
pWCDMA-CipherDomain-SysInfo	• Ciphering on the service domain. – 0x00 - No service – 0x01 - Circuit-switched only – 0x02 - Packet-switched only – 0x03 - Circuit-switched and packet-switched • NULL Pointer for invalid data.

8.1261.2 Field Documentation

8.1261.2.1 nas_AddCDMASysInfo∗ unpack_nas_SLQSGetSysInfo_t::pAddCDMASysInfo

8.1261.2.2 nas_AddSysInfo∗ unpack_nas_SLQSGetSysInfo_t::pAddGSMSysInfo

8.1261.2.3 uint16_t∗ unpack_nas_SLQSGetSysInfo_t::pAddHDRSysInfo

8.1261.2.4 uint16_t∗ unpack_nas_SLQSGetSysInfo_t::pAddLTESysInfo

8.1261.2.5 nas_AddSysInfo∗ unpack_nas_SLQSGetSysInfo_t::pAddWCDMASysInfo

8.1261.2.6 nas_SrvStatusInfo∗ unpack_nas_SLQSGetSysInfo_t::pCDMASrvStatusInfo

8.1261.2.7 nas_CDMASysInfo∗ unpack_nas_SLQSGetSysInfo_t::pCDMASysInfo

8.1261.2.8 nas_CallBarringSysInfo∗ unpack_nas_SLQSGetSysInfo_t::pGSMCallBarringSysInfo

8.1261.2.9 uint8_t∗ unpack_nas_SLQSGetSysInfo_t::pGSMCipherDomainSysInfo

8.1261.2.10 nas_GSMSrvStatusInfo∗ unpack_nas_SLQSGetSysInfo_t::pGSMSrvStatusInfo

8.1261.2.11 nas_GSMSysInfo∗ unpack_nas_SLQSGetSysInfo_t::pGSMSysInfo

8.1261.2.12 nas_SrvStatusInfo∗ unpack_nas_SLQSGetSysInfo_t::pHDRSrvStatusInfo

8.1261.2.13 nas_HDRSysInfo∗ unpack_nas_SLQSGetSysInfo_t::pHDRSysInfo

8.1261.2.14 nas_GSMSrvStatusInfo∗ unpack_nas_SLQSGetSysInfo_t::pLTESrvStatusInfo

8.1261.2.15 nas_LTESysInfo∗ unpack_nas_SLQSGetSysInfo_t::pLTESysInfo

8.1261.2.16 uint8_t∗ unpack_nas_SLQSGetSysInfo_t::pLTEVoiceSupportSysInfo

8.1261.2.17 nas_CallBarringSysInfo∗ unpack_nas_SLQSGetSysInfo_t::pWCDMACallBarringSysInfo

8.1261.2.18 uint8_t* unpack_nas_SLQSGetSysInfo_t::pWCDMACipherDomainSysInfo

8.1261.2.19 nas_GSMSrvStatusInfo* unpack_nas_SLQSGetSysInfo_t::pWCDMASrvStatusInfo

8.1261.2.20 nas_WCDMASysInfo* unpack_nas_SLQSGetSysInfo_t::pWCDMASysInfo

8.1262 unpack_nas_SLQSGetSysSelectionPref_t Struct Reference

Data Fields

- uint8_t * pEmerMode
- uint16_t * pModePref
- uint64_t * pBandPref
- uint16_t * pPRLPref
- uint16_t * pRoamPref
- uint64_t * pLTEBandPref
- uint8_t * pNetSelPref
- uint32_t * pSrvDomainPref
- uint32_t * pGWAcqOrderPref

8.1262.1 Detailed Description

This structure contains unpack get get system selection preferences parameters.

Parameters

pEmerMode	• Optional parameter specifying the emergency Mode • Values: – 0 - OFF (normal) – 1 - ON (Emergency) • NULL Pointer for invalid data.
pModePref	• Optional parameter • Bit Mask indicating the radio technology mode preference • Bit values: – Bit 0 - cdma2000 1x – Bit 1 - cdma2000 HRPD(1xEV-DO) – Bit 2 - GSM – Bit 3 - UMTS – Bit 4 - LTE • NULL Pointer for invalid data.

pBandPref	• Optional parameter • Bit mask representing the band preference • Bit values: – Bit 0 - Band Class 0, A-System – Bit 1 - Band Class 0, B-System, Band Class 0 AB, GSM 850 Band – Bit 2 - Band Class 1, all blocks – Bit 3 - Band Class 2 place holder – Bit 4 - Band Class 3, A-System – Bit 5 - Band Class 4, all blocks – Bit 6 - Band Class 5, all blocks – Bit 7 - GSM_DCS_1800 band – Bit 8 - GSM Extended GSM (E-GSM) 900 band – Bit 9 - GSM Primary GSM (P-GSM) 900 band – Bit 10 - Band Class 6 – Bit 11 - Band Class 7 – Bit 12 - Band Class 8 – Bit 13 - Band Class 9 – Bit 14 - Band Class 10 – Bit 15 - Band Class 11 – Bit 16 - GSM 450 band – Bit 17 - GSM 480 band – Bit 18 - GSM 750 band – Bit 19 - GSM 850 band – Bit 20 - GSM Railways GSM 900 Band – Bit 21 - GSM PCS 1900 band – Bit 22 - WCDMA Europe, Japan, and China IMT 2100 band – Bit 23 - WCDMA U.S. PCS 1900 band – Bit 24 - WCDMA Europe and China DCS 1800 band – Bit 25 - WCDMA U.S. 1700 band – Bit 26 - WCDMA U.S. 850 band – Bit 27 - WCDMA Japan 800 band – Bit 28 - Band Class 12 – Bit 29 - Band Class 14 – Bit 30 - Reserved – Bit 31 - Band Class 15 – Bit 32 to 47 - Reserved – Bit 48 - WCDMA Europe 2600 band – Bit 49 - WCDMA Europe and Japan 900 band – Bit 50 - WCDMA Japan 1700 band – Bit 51 to 55 - Reserved – Bit 56 - Band Class 16 – Bit 57 - Band Class 17 – Bit 58 - Band Class 18 – Bit 59 - Band Class 19 – Bit 60 to 64 - Reserved • NULL Pointer for invalid data.

pPRLPref	• Optional parameter indicating the CDMA PRL Preference • Values: – 0x0001 - Acquire available system only on the A side – 0x0002 - Acquire available system only on the B side – 0x3FFF - Acquire any available systems • NULL Pointer for invalid data.
pRoamPref	• Optional parameter indicating the roaming Preference • Values: – 0x01 - Acquire only systems for which the roaming indicator is off – 0x02 - Acquire a system as long as its roaming indicator is not off – 0x03 - Acquire only systems for which the roaming indicator is off or solid on, i.e. not flashing; CDMA only – 0xFF - Acquire systems, regardless of their roaming indicator • NULL Pointer for invalid data.

pLTEBandPref	• Optional parameter • Bit mask representing the LTE band preference • Bit Values – Bit 0 - E-UTRA Operating Band 1 – Bit 1 - E-UTRA Operating Band 2 – Bit 2 - E-UTRA Operating Band 3 – Bit 3 - E-UTRA Operating Band 4 – Bit 4 - E-UTRA Operating Band 5 – Bit 5 - E-UTRA Operating Band 6 – Bit 6 - E-UTRA Operating Band 7 – Bit 7 - E-UTRA Operating Band 8 – Bit 8 - E-UTRA Operating Band 9 – Bit 9 - E-UTRA Operating Band 10 – Bit 10 - E-UTRA Operating Band 11 – Bit 11 - E-UTRA Operating Band 12 – Bit 12 - E-UTRA Operating Band 13 – Bit 13 - E-UTRA Operating Band 14 – Bit 16 - E-UTRA Operating Band 17 – Bit 17 - E-UTRA Operating Band 18 – Bit 18 - E-UTRA Operating Band 19 – Bit 19 - E-UTRA Operating Band 20 – Bit 20 - E-UTRA Operating Band 21 – Bit 32 - E-UTRA Operating Band 33 – Bit 33 - E-UTRA Operating Band 34 – Bit 34 - E-UTRA Operating Band 35 – Bit 35 - E-UTRA Operating Band 36 – Bit 36 - E-UTRA Operating Band 37 – Bit 37 - E-UTRA Operating Band 38 – Bit 38 - E-UTRA Operating Band 39 – Bit 39 - E-UTRA Operating Band 40 – All other bits are reserved • NULL Pointer for invalid data.
pNetSelPref	• Optional parameter indicating network selection preference • Values: – 0x00 - Automatic network selection – 0x01 - Manual network selection. • NULL Pointer for invalid data.

pSrvDomainPref	• Optional parameter indicating Service domain preference • Values: – 0x00 - Circuit switched only – 0x01 - Packet switched only – 0x02 - Circuit switched and packet switched – 0x03 - Packet switched attach – 0x04 - Packet switched detach • NULL Pointer for invalid data.
pGWAcqOrder-Pref	• Optional parameter indicating GSM/WCDMA Acquisition order Preference • Values: – 0x00 - Automatic – 0x01 - GSM then WCDMA – 0x02 - WCDMA then GSM • NULL Pointer for invalid data.

8.1262.2 Field Documentation

8.1262.2.1 uint64_t∗ unpack_nas_SLQSGetSysSelectionPref_t::pBandPref

8.1262.2.2 uint8_t∗ unpack_nas_SLQSGetSysSelectionPref_t::pEmerMode

8.1262.2.3 uint32_t∗ unpack_nas_SLQSGetSysSelectionPref_t::pGWAcqOrderPref

8.1262.2.4 uint64_t∗ unpack_nas_SLQSGetSysSelectionPref_t::pLTEBandPref

8.1262.2.5 uint16_t∗ unpack_nas_SLQSGetSysSelectionPref_t::pModePref

8.1262.2.6 uint8_t∗ unpack_nas_SLQSGetSysSelectionPref_t::pNetSelPref

8.1262.2.7 uint16_t∗ unpack_nas_SLQSGetSysSelectionPref_t::pPRLPref

8.1262.2.8 uint16_t∗ unpack_nas_SLQSGetSysSelectionPref_t::pRoamPref

8.1262.2.9 uint32_t∗ unpack_nas_SLQSGetSysSelectionPref_t::pSrvDomainPref

8.1263 unpack_nas_SLQSGetSysSelectionPrefExt_t Struct Reference

Data Fields

- nas_EmerModeTlv ∗ pEmerMode
- nas_ModePrefTlv ∗ pModePref
- nas_BandPrefTlv ∗ pBandPref
- nas_PRLPrefTlv ∗ pPRLPref
- nas_RoamPrefTlv ∗ pRoamPref
- nas_LTEBandPrefTlv ∗ pLTEBandPref
- nas_NetSelPrefTlv ∗ pNetSelPref
- nas_SrvDomainPrefTlv ∗ pSrvDomainPref
- nas_GWAcqOrderPrefTlv ∗ pGWAcqOrderPref

- nas_AcqOrderPrefTlv * pAcqOrderPref
- nas_RatDisabledMaskTlv * pRatDisabledMask
- nas_CiotLteOpModePrefTlv * pCiotLteOpModePref
- nas_LteM1BandPrefTlv * pLteM1BandPref
- nas_LteNb1BandPrefTlv * pLteNb1BandPref
- nas_CiotAcqOrderPrefTlv * pCiotAcqOrderPref
- nas_NR5gBandPrefTlv * pNr5gBandPref

8.1263.1 Detailed Description

Structure for storing the current preferred system selection settings for the device.

Parameters

pEmerMode	• Optional parameter specifying the emergency Mode • See nas_EmerModeTlv for more information
pModePref	• Optional parameterindicating the radio technology mode preference • See nas_ModePrefTlv for more information
pBandPref	• Optional parameter representing the band preference • See nas_BandPrefTlv for more information
pPRLPref	• Optional parameter indicating the CDMA PRL Preference • See nas_PRLPrefTlv for more information
pRoamPref	• Optional parameter indicating the roaming Preference • See nas_RoamPrefTlv for more information
pLTEBandPref	• Optional parameter representing the LTE band preference • See nas_LTEBandPrefTlv for more information
pNetSelPref	• Optional parameter indicating network selection preference • See nas_NetSelPrefTlv for more information
pSrvDomainPref	• Optional parameter indicating Service domain preference • See nas_SrvDomainPrefTlv for more information
pGWAcqOrder-Pref	• Optional parameter indicating GSM/WCDMA Acquisition order Preference • See nas_GWAcqOrderPrefTlv for more information
pAcqOrderPref	• Optional parameter • Acquisition Order Preference • See nas_AcqOrderPrefTlv for more information

pRatDisabled-Mask	• Optional parameter representing the radio technologies that are disabled. • See nas_RatDisabledMaskTlv for more information
pCiotLteOp-ModePref	• Optional parameter • CIOT LTE Operational Mode Preference • See nas_CiotLteOpModePrefTlv for more information
pLteM1BandPref	• Optional parameter representing the LTE M1 band preference • See nas_LteM1BandPrefTlv for more information
pLteNb1Band-Pref	• Optional parameter representing the LTE NB1 band preference. • See nas_LteNb1BandPrefTlv for more information
pCiotAcqOrder-Pref	• Optional parameter indicating CIOT Acquisition Order Preference • See nas_CiotAcqOrderPrefTlv for more information
pNr5gBandPref	• Optional parameter indicating NR5G Band Preference • See nas_NR5gBandPrefTlv for more information

8.1263.2 Field Documentation

8.1263.2.1 nas_AcqOrderPrefTlv* unpack_nas_SLQSGetSysSelectionPrefExt_t::pAcqOrderPref

8.1263.2.2 nas_BandPrefTlv* unpack_nas_SLQSGetSysSelectionPrefExt_t::pBandPref

8.1263.2.3 nas_CiotAcqOrderPrefTlv* unpack_nas_SLQSGetSysSelectionPrefExt_t::pCiotAcqOrderPref

8.1263.2.4 nas_CiotLteOpModePrefTlv* unpack_nas_SLQSGetSysSelectionPrefExt_t::pCiotLteOpModePref

8.1263.2.5 nas_EmerModeTlv* unpack_nas_SLQSGetSysSelectionPrefExt_t::pEmerMode

8.1263.2.6 nas_GWAcqOrderPrefTlv* unpack_nas_SLQSGetSysSelectionPrefExt_t::pGWAcqOrderPref

8.1263.2.7 nas_LTEBandPrefTlv* unpack_nas_SLQSGetSysSelectionPrefExt_t::pLTEBandPref

8.1263.2.8 nas_LteM1BandPrefTlv* unpack_nas_SLQSGetSysSelectionPrefExt_t::pLteM1BandPref

8.1263.2.9 nas_LteNb1BandPrefTlv* unpack_nas_SLQSGetSysSelectionPrefExt_t::pLteNb1BandPref

8.1263.2.10 nas_ModePrefTlv* unpack_nas_SLQSGetSysSelectionPrefExt_t::pModePref

8.1263.2.11 nas_NetSelPrefTlv* unpack_nas_SLQSGetSysSelectionPrefExt_t::pNetSelPref

8.1263.2.12 nas_NR5gBandPrefTlv* unpack_nas_SLQSGetSysSelectionPrefExt_t::pNr5gBandPref

8.1263.2.13 nas_PRLPrefTlv∗ unpack_nas_SLQSGetSysSelectionPrefExt_t::pPRLPref

8.1263.2.14 nas_RatDisabledMaskTlv∗ unpack_nas_SLQSGetSysSelectionPrefExt_t::pRatDisabledMask

8.1263.2.15 nas_RoamPrefTlv∗ unpack_nas_SLQSGetSysSelectionPrefExt_t::pRoamPref

8.1263.2.16 nas_SrvDomainPrefTlv∗ unpack_nas_SLQSGetSysSelectionPrefExt_t::pSrvDomainPref

8.1264 unpack_nas_SLQSNasGet3GPP2Subscription_t Struct Reference

Data Fields

- nas_namName ∗ pNAMNameInfo
- nas_dirNum ∗ pDirNum
- nas_homeSIDNID ∗ pHomeSIDNID
- nas_minBasedIMSI ∗ pMinBasedIMSI
- nas_trueIMSI ∗ pTrueIMSI
- nas_CDMAChannel ∗ pCDMAChannel

8.1264.1 Detailed Description

Structure for 3GPP2Subscription unpack.

Parameters

pNAMNameInfo	[Optional] • See nas_namName for more information • NULL for invalid data
pDirNum	[Optional] • See nas_dirNum for more information • NULL for invalid data
pHomeSIDNID	[Optional] • See nas_homeSIDNID for more information • NULL for invalid data
pMinBasedIMSI	[Optional] • See nas_minBasedIMSI for more information • NULL for invalid data
pTrueIMSI	[Optional] • See nas_trueIMSI for more information • NULL for invalid data
pCDMAChannel	[Optional] • See nas_CDMAChannel for more information • NULL for invalid data

8.1264.2 Field Documentation

8.1264.2.1 nas_CDMAChannel∗ unpack_nas_SLQSNasGet3GPP2Subscription_t::pCDMAChannel

8.1264.2.2 nas_dirNum∗ unpack_nas_SLQSNasGet3GPP2Subscription_t::pDirNum

8.1264.2.3 nas_homeSIDNID∗ unpack_nas_SLQSNasGet3GPP2Subscription_t::pHomeSIDNID

8.1264.2.4 nas_minBasedIMSI∗ unpack_nas_SLQSNasGet3GPP2Subscription_t::pMinBasedIMSI

8.1264.2.5 nas_namName∗ unpack_nas_SLQSNasGet3GPP2Subscription_t::pNAMNameInfo

8.1264.2.6 nas_trueIMSI∗ unpack_nas_SLQSNasGet3GPP2Subscription_t::pTrueIMSI

8.1265 unpack_nas_SLQSNasGetCellLocationInfo_t Struct Reference

Data Fields

- nas_GERANInfo ∗ pGERANInfo
- nas_UMTSInfo ∗ pUMTSInfo
- nas_CDMAInfo ∗ pCDMAInfo
- nas_LTEInfoIntrafreq ∗ pLTEInfoIntrafreq
- nas_LTEInfoInterfreq ∗ pLTEInfoInterfreq
- nas_LTEInfoNeighboringGSM ∗ pLTEInfoNeighboringGSM
- nas_LTEInfoNeighboringWCDMA ∗ pLTEInfoNeighboringWCDMA
- uint32_t ∗ pUMTSCellID
- nas_WCDMAInfoLTENeighborCell ∗ pWCDMAInfoLTENeighborCell

8.1265.1 Detailed Description

This structure contains information about the Get Cell Location response parameters.

Parameters

pGERANInfo	• See nas_GERANInfo for more information. • NULL for invalid data
pUMTSInfo	• See nas_UMTSInfo for more information. • NULL for invalid data
pCDMAInfo	• See nas_CDMAInfo for more information. • NULL for invalid data
pLTEInfo-Intrafreq	• See nas_LTEInfoIntrafreq for more information. • NULL for invalid data
pLTEInfo-Interfreq	• See nas_LTEInfoInterfreq for more information. • NULL for invalid data

pLTEInfo-NeighboringGS-M	• See nas_LTEInfoNeighboringGSM for more information. • NULL for invalid data
pLTEInfo-NeighboringWC-DMA	• See nas_LTEInfoNeighboringWCDMA for more information. • NULL for invalid data
pUMTSCellID	• Cell ID. • 0xFFFFFFFF indicates cell ID information is not present. • NULL for invalid data
pWCDMAInfoLT-ENeighborCell	• See nas_WCDMAInfoLTENeighborCell for more information. • NULL for invalid data

8.1265.2 Field Documentation

8.1265.2.1 nas_CDMAInfo∗ unpack_nas_SLQSNasGetCellLocationInfo_t::pCDMAInfo

8.1265.2.2 nas_GERANInfo∗ unpack_nas_SLQSNasGetCellLocationInfo_t::pGERANInfo

8.1265.2.3 nas_LTEInfoInterfreq∗ unpack_nas_SLQSNasGetCellLocationInfo_t::pLTEInfoInterfreq

8.1265.2.4 nas_LTEInfoIntrafreq∗ unpack_nas_SLQSNasGetCellLocationInfo_t::pLTEInfoIntrafreq

8.1265.2.5 nas_LTEInfoNeighboringGSM∗ unpack_nas_SLQSNasGetCellLocationInfo_t::pLTEInfoNeighboringGSM

8.1265.2.6 nas_LTEInfoNeighboringWCDMA∗ unpack_nas_SLQSNasGetCellLocationInfo_t::pLTEInfoNeighboringWCD-MA

8.1265.2.7 uint32_t∗ unpack_nas_SLQSNasGetCellLocationInfo_t::pUMTSCellID

8.1265.2.8 nas_UMTSInfo∗ unpack_nas_SLQSNasGetCellLocationInfo_t::pUMTSInfo

8.1265.2.9 nas_WCDMAInfoLTENeighborCell∗ unpack_nas_SLQSNasGetCellLocationInfo_t::pWCDMAInfoLTENeighbor-Cell

8.1266 unpack_nas_SLQSNASGeteDRXParams_t Struct Reference

Data Fields

- uint8_t ∗ pCycleLen
- uint8_t ∗ pPagingTimeWindow
- uint8_t ∗ pEdrxEnable

8.1266.1 Detailed Description

This structure contains the SLQSNASGeteDRXParams unpack parameters.

Parameters

pCycleLen	[Optional] • eDRX cycle length • Value is per 3GPP TS 24.008 Rel-13 Section 10.5.5.32
pPagingTime-Window	[Optional] • eDRX paging time window • Value is per 3GPP TS 24.008 Rel-13 Section10.5.5.32
pEdrxEnable	[Optional] • eDRX Enable • Values – 0x00 - Disable – 0x01 - Enable

8.1266.2 Field Documentation

8.1266.2.1 uint8_t* unpack_nas_SLQSNASGeteDRXParams_t::pCycleLen

8.1266.2.2 uint8_t* unpack_nas_SLQSNASGeteDRXParams_t::pEdrxEnable

8.1266.2.3 uint8_t* unpack_nas_SLQSNASGeteDRXParams_t::pPagingTimeWindow

8.1267 unpack_nas_SLQSNasGetHDRColorCode_t Struct Reference

Data Fields

- uint8_t * pColorCode

8.1267.1 Detailed Description

Structure for storing the current preferred system selection settings for the device.

Parameters

pColorCode	[Optional] • Color code value • Color code corresponding to the sector to which the AT is sending the access probe • See 3GPP2 C.S0024-B V3.0, Section 7.11.6.2.1 for more information. – 0xFF - Not Available • NULL for invalid data

8.1267.2 Field Documentation

8.1267.2.1 uint8_t* unpack_nas_SLQSNasGetHDRColorCode_t::pColorCode

8.1268 unpack_nas_SLQSNasGetRFInfo_t Struct Reference

Data Fields

- nas_RfBandInfoList rfbandInfoList
- nas_RfDedicatedBandInfo * pRfDedicatedBandInfo
- nas_RfBandInfoExtFormat * pRfBandInfoExtFormat
- nas_RfBandwidthInfo * pRfBandwidthInfo
- nas_LTEOperationMode * pLTEOperationMode
- uint16_t Tlvresult

8.1268.1 Detailed Description

This structure contains the SLQSNasGetRFInfo response parameters.

Parameters

rfbandInfoList	• See nas_RfBandInfoList for more information
pRfDedicated-BandInfo	[Optional] • See nas_RfDedicatedBandInfo for more information
pRfBandInfoExt-Format	[Optional] • See nas_RfBandInfoExtFormat for more information
pRfBandwidth-Info	[Optional] • See nas_RfBandwidthInfo for more information
pLTEOpration-Mode	[Optional] • See nas_LTEOperationMode for more information

8.1268.2 Field Documentation

8.1268.2.1 nas_LTEOperationMode* unpack_nas_SLQSNasGetRFInfo_t::pLTEOperationMode

8.1268.2.2 nas_RfBandInfoExtFormat* unpack_nas_SLQSNasGetRFInfo_t::pRfBandInfoExtFormat

8.1268.2.3 nas_RfBandwidthInfo* unpack_nas_SLQSNasGetRFInfo_t::pRfBandwidthInfo

8.1268.2.4 nas_RfDedicatedBandInfo* unpack_nas_SLQSNasGetRFInfo_t::pRfDedicatedBandInfo

8.1268.2.5 nas_RfBandInfoList unpack_nas_SLQSNasGetRFInfo_t::rfbandInfoList

8.1268.2.6 uint16_t unpack_nas_SLQSNasGetRFInfo_t::Tlvresult

8.1269 unpack_nas_SLQSNasGetSigInfo_t Struct Reference

Data Fields

- cdmaSSInfo CDMASSInfo
- hdrSSInfo HDRSSInfo
- int8_t GSMSSInfo
- cdmaSSInfo WCDMASSInfo
- lteSSInfo LTESSInfo

8.1269.1 Detailed Description

This structure contains the SLQSNasGetSigInfo response parameters.

Parameters

CDMASSInfo	• See cdmaSSInfo for more information
HDRSSInfo	• See hdrSSInfo for more information
GSMSSInfo	• GSM signal strength is the RSSI in dBm (signed value). • A value of -125 dBm or lower is used to indicate No Signal.
WCDMASSInfo	• See cdmaSSInfo for more information
LTESSInfo	• See lteSSInfo for more information

8.1269.2 Field Documentation

8.1269.2.1 **cdmaSSInfo** unpack_nas_SLQSNasGetSigInfo_t::CDMASSInfo

8.1269.2.2 int8_t unpack_nas_SLQSNasGetSigInfo_t::GSMSSInfo

8.1269.2.3 **hdrSSInfo** unpack_nas_SLQSNasGetSigInfo_t::HDRSSInfo

8.1269.2.4 **lteSSInfo** unpack_nas_SLQSNasGetSigInfo_t::LTESSInfo

8.1269.2.5 **cdmaSSInfo** unpack_nas_SLQSNasGetSigInfo_t::WCDMASSInfo

8.1270 unpack_nas_SLQSNasGetTxRxInfo_t Struct Reference

Data Fields

- nas_rxInfo * pRXChain0Info
- nas_rxInfo * pRXChain1Info
- nas_txInfo * pTXInfo

8.1270.1 Detailed Description

Structure for TxRx Info unpack

Parameters

pRXChain0Info	[Optional] • See nas_rxInfo for more information. • NULL for invalid data.

pRXChain1Info	[Optional] • See nas_rxInfo for more information. • NULL for invalid data.
pTXInfo	[Optional] • See nas_txInfo for more information. • NULL for invalid data.

8.1270.2 Field Documentation

8.1270.2.1 nas_rxInfo* unpack_nas_SLQSNasGetTxRxInfo_t::pRXChain0Info

8.1270.2.2 nas_rxInfo* unpack_nas_SLQSNasGetTxRxInfo_t::pRXChain1Info

8.1270.2.3 nas_txInfo* unpack_nas_SLQSNasGetTxRxInfo_t::pTXInfo

8.1271 unpack_nas_SLQSNasNetworkTimeCallBack_ind_t Struct Reference

Data Fields

- nas_UniversalTime universalTime
- uint8_t * pTimeZone
- uint8_t * pDayltSavAdj
- uint8_t * pRadioInterface

8.1271.1 Detailed Description

Structure for storing the NAS Network Time indication parameters.

Parameters

universalTime	• See nas_UniversalTime for more information.
pTimeZone	• Time Zone. • Offset from Universal time, i.e., the difference between local time and Universal time, in increments of 15 min (signed value). • NULL for invalid data.
pDayltSavAdj	• Daylight Saving Adjustment. • Daylight saving adjustment in hr. – Possible values: 0, 1, and 2. • NULL for invalid data.

pRadioInterface	• Radio interface from which the information comes • Values – 0x01 - NAS_RADIO_IF_CDMA_1X - cdma2000 1X – 0x02 - NAS_RADIO_IF_CDMA_1XEVDO - cdma2000 HRPD (1xEV-DO) – 0x04 - NAS_RADIO_IF_GSM - GSM – 0x05 - NAS_RADIO_IF_UMTS - UMTS – 0x08 - NAS_RADIO_IF_LTE - LTE – 0x09 - NAS_RADIO_IF_TDSCDMA -TD-SCDMA • NULL for invalid data.

8.1271.2 Field Documentation

8.1271.2.1 uint8_t* unpack_nas_SLQSNasNetworkTimeCallBack_ind_t::pDayItSavAdj

8.1271.2.2 uint8_t* unpack_nas_SLQSNasNetworkTimeCallBack_ind_t::pRadioInterface

8.1271.2.3 uint8_t* unpack_nas_SLQSNasNetworkTimeCallBack_ind_t::pTimeZone

8.1271.2.4 nas_UniversalTime unpack_nas_SLQSNasNetworkTimeCallBack_ind_t::universalTime

8.1272 unpack_nas_SLQSNasSigInfoCallback_ind_t Struct Reference

Data Fields

- cdmaSSInfo * pCDMASigInfo
- hdrSSInfo * pHDRSigInfo
- int8_t * pGSMSigInfo
- cdmaSSInfo * pWCDMASigInfo
- lteSSInfo * pLTESigInfo
- int8_t * pRscp
- tdscdmaSigInfoExt * pTDSCDMASigInfoExt

8.1272.1 Detailed Description

Structure for storing the nasSigInfo indication parameters.

Parameters

pCDMASigInfo	• See cdmaSSInfo for more information. • NULL Pointer for invalid data.
pHDRSigInfo	• See hdrSSInfo for more information. • NULL Pointer for invalid data.
pGSMSigInfo	• one byte value, GSM signal strength is the RSSI in dBm (signed value). A value of -125 dBm or lower is used to indicate No Signal • NULL Pointer for invalid data.

pWCDMASigInfo	• See cdmaSSInfo for more information. • NULL Pointer for invalid data.
pLTESigInfo	• See lteSSInfo for more information. • NULL Pointer for invalid data.
pRscp	• RSCP of the Primary Common Control Physical Channel (PCCPCH) in dBm. Measurement range: -120 dBm to -25 dBm. • NULL Pointer for invalid data.
pTDSCDMASig-InfoExt	• See tdscdmaSigInfoExt for more information. • NULL Pointer for invalid data.

8.1272.2 Field Documentation

8.1272.2.1 cdmaSSInfo∗ unpack_nas_SLQSNasSigInfoCallback_ind_t::pCDMASigInfo

8.1272.2.2 int8_t∗ unpack_nas_SLQSNasSigInfoCallback_ind_t::pGSMSigInfo

8.1272.2.3 hdrSSInfo∗ unpack_nas_SLQSNasSigInfoCallback_ind_t::pHDRSigInfo

8.1272.2.4 lteSSInfo∗ unpack_nas_SLQSNasSigInfoCallback_ind_t::pLTESigInfo

8.1272.2.5 int8_t∗ unpack_nas_SLQSNasSigInfoCallback_ind_t::pRscp

8.1272.2.6 tdscdmaSigInfoExt∗ unpack_nas_SLQSNasSigInfoCallback_ind_t::pTDSCDMASigInfoExt

8.1272.2.7 cdmaSSInfo∗ unpack_nas_SLQSNasSigInfoCallback_ind_t::pWCDMASigInfo

8.1273 unpack_nas_SLQSNASSwiGetChannelLock_t Struct Reference

Data Fields

- nas_wcdmaUARFCN ∗ pWcdmaUARFCN
- nas_lteEARFCN ∗ pLteEARFCN
- nas_ltePCI ∗ pLtePCI

8.1273.1 Detailed Description

Structure for Get Channel Lock unpack.

Parameters

pWcdmaUARF-CN	[Optional] • See nas_wcdmaUARFCN for more information • NULL for invalid data

pLteEARFCN	[Optional] • See nas_lteEARFCN for more information • NULL for invalid data
pLtePCI	[Optional] • See nas_ltePCI for more information • NULL for invalid data

8.1273.2 Field Documentation

8.1273.2.1 nas_lteEARFCN∗ unpack_nas_SLQSNASSwiGetChannelLock_t::pLteEARFCN

8.1273.2.2 nas_ltePCI∗ unpack_nas_SLQSNASSwiGetChannelLock_t::pLtePCI

8.1273.2.3 nas_wcdmaUARFCN∗ unpack_nas_SLQSNASSwiGetChannelLock_t::pWcdmaUARFCN

8.1274 unpack_nas_SLQSNasSwiModemStatus_t Struct Reference

Data Fields

- nas_CommInfo commonInfo
- nas_LTEInfo ∗ pLTEInfo

8.1274.1 Detailed Description

Structure for storing the SLQS Nas Swi Modem Status response parameters.

Parameters

commonInfo	(mandatory) • See nas_CommInfo for more information
pLTEInfo	(optional) • See nas_LTEInfo for more information • NULL for invalid data.

8.1274.2 Field Documentation

8.1274.2.1 nas_CommInfo unpack_nas_SLQSNasSwiModemStatus_t::commonInfo

8.1274.2.2 nas_LTEInfo∗ unpack_nas_SLQSNasSwiModemStatus_t::pLTEInfo

8.1275 unpack_nas_SLQSNasSwiOTAMessageCallback_ind_t Struct Reference

Data Fields

- NASQmiCbkNasSwiOTAMessageInd Info
- uint16_t Tlvresult

8.1275.1 Detailed Description

This structure contains unpack OTA message indication parameters.

Parameters

Info	• Structure used to store all QMI Notification Info. – See NASQmiCbkNasSwiOTAMessageInd for more details
Tlvresult	• unpack result

8.1275.2 Field Documentation

8.1275.2.1 NASQmiCbkNasSwiOTAMessageInd unpack_nas_SLQSNasSwiOTAMessageCallback_ind_t::Info

8.1275.2.2 uint16_t unpack_nas_SLQSNasSwiOTAMessageCallback_ind_t::Tlvresult

8.1276 unpack_nas_SLQSNasTimerCallback_ind_t Struct Reference

Data Fields

- char t3396_apn [101]
- uint8_t t3396_plmn_id [3]
- uint32_t t3396_val

8.1276.1 Detailed Description

Structure for Network Timer indication parameters.

Parameters

t3396_apn	• apn
t3396_plmn_id	• plmn id
t3396_val	• timer value

8.1276.2 Field Documentation

8.1276.2.1 char unpack_nas_SLQSNasTimerCallback_ind_t::t3396_apn[101]

8.1276.2.2 uint8_t unpack_nas_SLQSNasTimerCallback_ind_t::t3396_plmn_id[3]

8.1276.2.3 uint32_t unpack_nas_SLQSNasTimerCallback_ind_t::t3396_val

8.1277 unpack_nas_SLQSSetSysSelectionPrefCallBack_ind_t Struct Reference

Data Fields

- NASQmiCbkNasSystemSelPrefInd Info
- uint16_t Tlvresult

8.1277.1 Detailed Description

This structure contains unpack set system selection preference callback indication parameters.

Parameters

Info	• Structure used to store all QMI Notification Info. – See NASQmiCbkNasSystemSelPrefInd for more details
Tlvresult	• unpack result

8.1277.2 Field Documentation

8.1277.2.1 NASQmiCbkNasSystemSelPrefInd unpack_nas_SLQSSetSysSelectionPrefCallBack_ind_t::Info

8.1277.2.2 uint16_t unpack_nas_SLQSSetSysSelectionPrefCallBack_ind_t::Tlvresult

8.1278 unpack_nas_SLQSSwiGetHDRPersonality_t Struct Reference

Data Fields

- uint16_t * pCurrentPersonality
- uint8_t * pPersonalityListLength
- nas_protocolSubtypeElement * pProtocolSubtypeElement

8.1278.1 Detailed Description

Structure for HDRPersonality unpack.

Parameters

pCurrent-Personality[Out]	• Current active personality index. • NULL for invalid data
pPersonalityList-Length[In/Out]	• Number of Personality Protocol Subtype contains in this response. • maximum input value is 3 • NULL for invalid data
pProtocol-Subtype-Element[Out]	• See nas_protocolSubtypeElement for more information. • NULL for invalid data

8.1278.2 Field Documentation

8.1278.2.1 uint16_t* unpack_nas_SLQSSwiGetHDRPersonality_t::pCurrentPersonality

8.1278.2.2 uint8_t* unpack_nas_SLQSSwiGetHDRPersonality_t::pPersonalityListLength

8.1278.2.3 nas_protocolSubtypeElement* unpack_nas_SLQSSwiGetHDRPersonality_t::pProtocolSubtypeElement

8.1279 unpack_nas_SLQSSwiGetHDRProtSubtype_t Struct Reference

Data Fields

- uint16_t * pCurrentPrsnlty
- uint8_t * pPersonalityListLength
- nas_protocolSubtypeElement * pProtoSubTypElmnt
- uint64_t * pAppSubType

8.1279.1 Detailed Description

Structure for HDRProtSubtype unpack.

Parameters

pCurrent-Personality	• Current active personality index. • NULL for invalid data
pPersonalityList-Length	• Number of Personality Protocol Subtype contains in this response. • maximum input value is 4 • NULL for invalid data
pProtocol-SubtypeElement	• See nas_protocolSubtypeElement for more information. • NULL for invalid data
pAppSubType	• Stream application subtype • Application subtype for each stream • NULL for invalid data

8.1279.2 Field Documentation

8.1279.2.1 uint64_t* unpack_nas_SLQSSwiGetHDRProtSubtype_t::pAppSubType

8.1279.2.2 uint16_t* unpack_nas_SLQSSwiGetHDRProtSubtype_t::pCurrentPrsnlty

8.1279.2.3 uint8_t* unpack_nas_SLQSSwiGetHDRProtSubtype_t::pPersonalityListLength

8.1279.2.4 nas_protocolSubtypeElement* unpack_nas_SLQSSwiGetHDRProtSubtype_t::pProtoSubTypElmnt

8.1280 unpack_nas_SLQSSwiGetHRPDStats_t Struct Reference

Data Fields

- nas_DRCParams * pDRCParams
- uint8_t * pUATI
- nas_PilotSetData * pPilotSetData

8.1280.1 Detailed Description

Structure for HRPD Stats unpack.

Parameters

pDRCParams	• See nas_DRCParams for more information. • NULL for invalid data
pUATI	• A 128-bit address that includes the access terminal identifier and subnet ID • Size must be 16 bytes • NULL for invalid data
pPilotSetData	• See nas_PilotSetData for more information. • NULL for invalid data

8.1280.2 Field Documentation

8.1280.2.1 nas_DRCParams* unpack_nas_SLQSSwiGetHRPDStats_t::pDRCParams

8.1280.2.2 nas_PilotSetData* unpack_nas_SLQSSwiGetHRPDStats_t::pPilotSetData

8.1280.2.3 uint8_t* unpack_nas_SLQSSwiGetHRPDStats_t::pUATI

8.1281 unpack_nas_SLQSSwiGetLteCQI_t Struct Reference

Data Fields

- uint8_t ValidityCW0
- uint8_t CQIValueCW0
- uint8_t ValidityCW1
- uint8_t CQIValueCW1

8.1281.1 Detailed Description

This structure contains paramaters unpack fetch CQI parameters for LTE data session.

Parameters

ValidityCW0[OUT]	• Values – 0- Invalid. – 1- Valid.
CQIValueCW0[OUT]	• Values – Range 0∼15
ValidityCW1[OUT]	• Values – 0- Invalid. – 1- Valid.
CQIValueCW1[OUT]	• Values – Range 0∼15

8.1281.2 Field Documentation

8.1281.2.1 uint8_t unpack_nas_SLQSSwiGetLteCQI_t::CQIValueCW0

8.1281.2.2 uint8_t unpack_nas_SLQSSwiGetLteCQI_t::CQIValueCW1

8.1281.2.3 uint8_t unpack_nas_SLQSSwiGetLteCQI_t::ValidityCW0

8.1281.2.4 uint8_t unpack_nas_SLQSSwiGetLteCQI_t::ValidityCW1

8.1282 unpack_nas_SLQSSwiGetLteSccRxInfo_t Struct Reference

Data Fields

- nas_SccRxInfo ∗ pSccRxInfo

8.1282.1 Detailed Description

This structure contains unpack get LTE Secondary carrier Rx signal level information parameters.

Parameters

pSccRxInfo	Secondary carrier Rx signal level info • See nas_SccRxInfo • NULL for invalid data

8.1282.2 Field Documentation

8.1282.2.1 nas_SccRxInfo∗ unpack_nas_SLQSSwiGetLteSccRxInfo_t::pSccRxInfo

8.1283 unpack_nas_SLQSSwiHDRPersonalityCallback_Ind_t Struct Reference

Data Fields

- nas_HDRPersonality_Ind_Data * pHDRPersInd

8.1283.1 Detailed Description

Structure for HDR Personality indication unpack.

Parameters

pHDRPersInd	• See nas_HDRPersonality_Ind_Data for more information.

8.1283.2 Field Documentation

8.1283.2.1 nas_HDRPersonality_Ind_Data* unpack_nas_SLQSSwiHDRPersonalityCallback_Ind_t::pHDRPersInd

8.1284 unpack_nas_SLQSSwiNetworkDebug_t Struct Reference

Data Fields

- uint8_t * pObjectVer
- nas_NetworkStat1x * pNetworkStat1x
- nas_NetworkStatEVDO * pNetworkStatEVDO
- nas_DeviceConfigDetail * pDeviceConfigDetail
- nas_DataStatusDetail * pDataStatusDetail

8.1284.1 Detailed Description

Structure for SwiNetworkDebug unpack.

Parameters

pObjectVer	• Object's version number for the host to handle
	  – 0xFF - NA
	  – Others - shows in decimal
	• NULL for invalid data

pNetworkStat1x	• See nas_NetworkStat1x for more information • NULL for invalid data
pNetworkStatE-VDO	• See nas_NetworkStatEVDO for more information. • NULL for invalid data
pDeviceConfig-Detail	• See nas_DeviceConfigDetail for more information. • NULL for invalid data

pDataStatus-Detail	• See nas_DataStatusDetail for more information. • NULL for invalid data

8.1284.2 Field Documentation

8.1284.2.1 nas_DataStatusDetail* unpack_nas_SLQSSwiNetworkDebug_t::pDataStatusDetail

8.1284.2.2 nas_DeviceConfigDetail* unpack_nas_SLQSSwiNetworkDebug_t::pDeviceConfigDetail

8.1284.2.3 nas_NetworkStat1x* unpack_nas_SLQSSwiNetworkDebug_t::pNetworkStat1x

8.1284.2.4 nas_NetworkStatEVDO* unpack_nas_SLQSSwiNetworkDebug_t::pNetworkStatEVDO

8.1284.2.5 uint8_t* unpack_nas_SLQSSwiNetworkDebug_t::pObjectVer

8.1285 unpack_nas_SLQSSwiRandIndicatorCallback_Ind_t Struct Reference

Data Fields

- nas_RankIndicatorTlv rankIndicatorTlv

8.1285.1 Detailed Description

Structure for Rank Indicator indication unpack.

Parameters

rankIndicatorTlv	• See nas_RankIndicatorTlv for more information.

8.1285.2 Field Documentation

8.1285.2.1 nas_RankIndicatorTlv unpack_nas_SLQSSwiRandIndicatorCallback_Ind_t::rankIndicatorTlv

8.1286 unpack_nas_SLQSSysInfoCallback_ind_t Struct Reference

Data Fields

- nas_SrvStatusInfo * pCDMASrvStatusInfo
- nas_SrvStatusInfo * pHDRSrvStatusInfo
- nas_GSMSrvStatusInfo * pGSMSrvStatusInfo
- nas_GSMSrvStatusInfo * pWCDMASrvStatusInfo
- nas_GSMSrvStatusInfo * pLTESrvStatusInfo
- nas_CDMASysInfo * pCDMASysInfo
- nas_HDRSysInfo * pHDRSysInfo
- nas_GSMSysInfo * pGSMSysInfo
- nas_WCDMASysInfo * pWCDMASysInfo
- nas_LTESysInfo * pLTESysInfo

- nas_AddCDMASysInfo * pAddCDMASysInfo
- uint16_t * pAddHDRSysInfo
- nas_AddSysInfo * pAddGSMSysInfo
- nas_AddSysInfo * pAddWCDMASysInfo
- uint16_t * pAddLTESysInfo
- nas_CallBarringSysInfo * pGSMCallBarringSysInfo
- nas_CallBarringSysInfo * pWCDMACallBarringSysInfo
- uint8_t * pLTEVoiceSupportSysInfo
- uint8_t * pGSMCipherDomainSysInfo
- uint8_t * pWCDMACipherDomainSysInfo
- uint8_t * pSysInfoNoChange

8.1286.1 Detailed Description

This structure contains unpack system information callback indication parameters.

Parameters

pCDMASrvStatusInfo	• See nas_SrvStatusInfo for more information.
pHDRSrvStatusInfo	• See nas_SrvStatusInfo for more information.
pGSMSrvStatusInfo	• See nas_GSMSrvStatusInfo for more information.
pWCDMASrvStatusInfo	• See nas_GSMSrvStatusInfo for more information.
pLTESrvStatusInfo	• See nas_GSMSrvStatusInfo for more information.
pCDMASysInfo	• See nas_CDMASysInfo for more information.
pHDRSysInfo	• See nas_HDRSysInfo for more information.
pGSMSysInfo	• See nas_GSMSysInfo for more information.
pWCDMASysInfo	• See nas_WCDMASysInfo for more information.
pLTESysInfo	• See nas_LTESysInfo for more information.
pAddCDMASysInfo	• See nas_AddCDMASysInfo for more information.
pAddHDRSysInfo	• System table index referencing the beginning of the geo in which the current serving system is present. • When the system index is not known, 0xFFFF is used.

pAddGSMSysInfo	• See nas_AddSysInfo for more information.
pAddWCDMASysInfo	• See nas_AddSysInfo for more information.
pAddLTESysInfo	• System table index referencing the beginning of the geo in which the current serving system is present. • When the system index is not known, 0xFFFF is used.
pGSMCallBarringSysInfo	• See nas_CallBarringSysInfo for more information.
pWCDMACallBarringSysInfo	• See nas_CallBarringSysInfo for more information.
pLTEVoiceSupportSysInfo	• Indicates voice support status on LTE. – 0x00 - Voice is not supported – 0x01 - Voice is supported
pGSMCipherDomainSysInfo	• Ciphering on the service domain. – 0x00 - No service – 0x01 - Circuit-switched only – 0x02 - Packet-switched only – 0x03 - Circuit-switched and packet-switched
pWCDMACipherDomainSysInfo	• Ciphering on the service domain. – 0x00 - No service – 0x01 - Circuit-switched only – 0x02 - Packet-switched only – 0x03 - Circuit-switched and packet-switched
pSysInfoNoChange	• System Info No Change. • Flag used to notify clients that a request to select a network ended with no change in the PLMN. – 0x01 - No change in system information

8.1286.2 Field Documentation

8.1286.2.1 nas_AddCDMASysInfo* unpack_nas_SLQSSysInfoCallback_ind_t::pAddCDMASysInfo

8.1286.2.2 nas_AddSysInfo* unpack_nas_SLQSSysInfoCallback_ind_t::pAddGSMSysInfo

8.1286.2.3 uint16_t* unpack_nas_SLQSSysInfoCallback_ind_t::pAddHDRSysInfo

8.1286.2.4 uint16_t* unpack_nas_SLQSSysInfoCallback_ind_t::pAddLTESysInfo

8.1286.2.5 **nas_AddSysInfo**∗ unpack_nas_SLQSSysInfoCallback_ind_t::pAddWCDMASysInfo

8.1286.2.6 **nas_SrvStatusInfo**∗ unpack_nas_SLQSSysInfoCallback_ind_t::pCDMASrvStatusInfo

8.1286.2.7 **nas_CDMASysInfo**∗ unpack_nas_SLQSSysInfoCallback_ind_t::pCDMASysInfo

8.1286.2.8 **nas_CallBarringSysInfo**∗ unpack_nas_SLQSSysInfoCallback_ind_t::pGSMCallBarringSysInfo

8.1286.2.9 uint8_t∗ unpack_nas_SLQSSysInfoCallback_ind_t::pGSMCipherDomainSysInfo

8.1286.2.10 **nas_GSMSrvStatusInfo**∗ unpack_nas_SLQSSysInfoCallback_ind_t::pGSMSrvStatusInfo

8.1286.2.11 **nas_GSMSysInfo**∗ unpack_nas_SLQSSysInfoCallback_ind_t::pGSMSysInfo

8.1286.2.12 **nas_SrvStatusInfo**∗ unpack_nas_SLQSSysInfoCallback_ind_t::pHDRSrvStatusInfo

8.1286.2.13 **nas_HDRSysInfo**∗ unpack_nas_SLQSSysInfoCallback_ind_t::pHDRSysInfo

8.1286.2.14 **nas_GSMSrvStatusInfo**∗ unpack_nas_SLQSSysInfoCallback_ind_t::pLTESrvStatusInfo

8.1286.2.15 **nas_LTESysInfo**∗ unpack_nas_SLQSSysInfoCallback_ind_t::pLTESysInfo

8.1286.2.16 uint8_t∗ unpack_nas_SLQSSysInfoCallback_ind_t::pLTEVoiceSupportSysInfo

8.1286.2.17 uint8_t∗ unpack_nas_SLQSSysInfoCallback_ind_t::pSysInfoNoChange

8.1286.2.18 **nas_CallBarringSysInfo**∗ unpack_nas_SLQSSysInfoCallback_ind_t::pWCDMACallBarringSysInfo

8.1286.2.19 uint8_t∗ unpack_nas_SLQSSysInfoCallback_ind_t::pWCDMACipherDomainSysInfo

8.1286.2.20 **nas_GSMSrvStatusInfo**∗ unpack_nas_SLQSSysInfoCallback_ind_t::pWCDMASrvStatusInfo

8.1286.2.21 **nas_WCDMASysInfo**∗ unpack_nas_SLQSSysInfoCallback_ind_t::pWCDMASysInfo

8.1287 unpack_omaDmConfigTlv_t Struct Reference

Data Fields

- uint8_t state
- uint8_t userInputReq
- uint16_t userInputTimeout
- uint16_t alertmsglength
- uint8_t alertmsg [256]

8.1287.1 Detailed Description

This structure will hold the SwiOmaDmConfig session parameters information.

Parameters

state	• 0x01 - OMA-DM Read Request • 0x02 - OMA-DM Change Request • 0x03 - OMA-DM Config Complete

userInputReq	- Bit mask of available user inputs • 0x00 - No user input required.Informational indication • 0x01 - Accept • 0x02 - Reject
userInput-Timeout	• Timeout for user input in minutes. A value of 0 means no time-out
alertmsglength	• Length of Alert message string in bytes
alertmsg	• Alert message in UCS2 (Max 256 characters)

8.1287.2 Field Documentation

8.1287.2.1 uint8_t unpack_omaDmConfigTlv_t::alertmsg[256]

8.1287.2.2 uint16_t unpack_omaDmConfigTlv_t::alertmsglength

8.1287.2.3 uint8_t unpack_omaDmConfigTlv_t::state

8.1287.2.4 uint8_t unpack_omaDmConfigTlv_t::userInputReq

8.1287.2.5 uint16_t unpack_omaDmConfigTlv_t::userInputTimeout

8.1288 unpack_omaDmFotaTlv_t Struct Reference

Data Fields

- uint8_t state
- uint8_t userInputReq
- uint16_t userInputTimeout
- uint32_t fwdloadsize
- uint32_t fwloadComplete
- uint16_t updateCompleteStatus
- uint8_t severity
- uint16_t versionlength
- uint8_t version [256]
- uint16_t namelength
- uint8_t package_name [256]
- uint16_t descriptionlength
- uint8_t description [256]
- uint8_t sessionType

8.1288.1 Detailed Description

This structure will hold the SwiOmaDmFota session parameters information.

Parameters

state	• 0x01 - No Firmware available • 0x02 - Query Firmware Download • 0x03 - Firmware Downloading • 0x04 - Firmware downloaded • 0x05 - Query Firmware Update • 0x06 - Firmware updating • 0x07 - Firmware updated
userInputReq	- Bit mask of available user inputs • 0x00 - No user input required.Informational indication • 0x01 - Accept • 0x02 - Reject
userInput-Timeout	• Timeout for user input in minutes. A value of 0 means no time-out
fwdloadsize	• The size (in bytes) of the firmware update package
fwloadComplete	• The number of bytes downloaded. Need to determine how often to send this message for progress bar notification. Every 500ms or 5% increment.
update-CompleteStatus	• This field should be looked at only when the OMADM session is complete. • See qaGobiApiTableSwiOMADMUpdateCompleteStatus.h for update complete status.
severity	• 0x01 - Mandatory • 0x02 - Optional
versionlength	• Length of FW Version string in bytes
version	• FW Version string in ASCII (Max 256 characters)
namelength	• Length Package Name string in bytes
package_name	• Package Name in UCS2 (Max 256 characters)
descriptionlength	• Length of description in bytes
description	• Description of Update Package in USC2 (Max 256 characters)

sessionType	• 0x00 - Client initiated • 0x01 - Network initiated

8.1288.2 Field Documentation

8.1288.2.1 uint8_t unpack_omaDmFotaTlv_t::description[256]

8.1288.2.2 uint16_t unpack_omaDmFotaTlv_t::descriptionlength

8.1288.2.3 uint32_t unpack_omaDmFotaTlv_t::fwdloadsize

8.1288.2.4 uint32_t unpack_omaDmFotaTlv_t::fwloadComplete

8.1288.2.5 uint16_t unpack_omaDmFotaTlv_t::namelength

8.1288.2.6 uint8_t unpack_omaDmFotaTlv_t::package_name[256]

8.1288.2.7 uint8_t unpack_omaDmFotaTlv_t::sessionType

8.1288.2.8 uint8_t unpack_omaDmFotaTlv_t::severity

8.1288.2.9 uint8_t unpack_omaDmFotaTlv_t::state

8.1288.2.10 uint16_t unpack_omaDmFotaTlv_t::updateCompleteStatus

8.1288.2.11 uint8_t unpack_omaDmFotaTlv_t::userInputReq

8.1288.2.12 uint16_t unpack_omaDmFotaTlv_t::userInputTimeout

8.1288.2.13 uint8_t unpack_omaDmFotaTlv_t::version[256]

8.1288.2.14 uint16_t unpack_omaDmFotaTlv_t::versionlength

8.1289 unpack_omaDmNotificationsTlv_t Struct Reference

Data Fields

- uint8_t notification
- uint16_t sessionStatus

8.1289.1 Detailed Description

This structure will hold the SwiOmaDmConfig session notification parameters information.

Parameters

notification	• 0x01 - GPS settings change • 0x02 - Device reset • 0x03 - Device factory reset • 0x04 - CI-DC Session start • 0x05 - CI-DC Session end • 0x06 - CI-PRL Session start • 0x07 - CI-PRL Session end • 0x08 - CI-FUMO Session start • 0x09 - CI-FUMO session end • 0x0A - HFA-DC Session start • 0x0B - HFA-DC Session end • 0x0C - HFA-PRL Session start • 0x0D - HFA-PRL Session end • 0x0E - HFA-FUMO Session start • 0x0F - HFA-FUMO session end • 0x10 - NI Session start • 0x11 - NI session end
sessionStatus	• This field will set to the session status for notifications that occur at the end of a session, zero for all other notifications • See qaGobiApiTableSwiOMADMSessionStatus.h for session completion code.

8.1289.2 Field Documentation

8.1289.2.1 uint8_t unpack_omaDmNotificationsTlv_t::notification

8.1289.2.2 uint16_t unpack_omaDmNotificationsTlv_t::sessionStatus

8.1290 unpack_pds_GetPDSDefaults_t Struct Reference

Data Fields

- uint32_t * pOperation
- uint8_t * pTimeout
- uint32_t * pInterval
- uint32_t * pAccuracy

8.1290.1 Detailed Description

Structure contain session configuration parameters.

Parameters

pOperation	• Current session operating mode – 0 - Standalone – 1 - MS based – 2 - MS assisted • NULL pointer - Invalid data.
pTimeout	• Maximum amount of time (seconds) to work on each fix, maximum is 255 • NULL pointer - Invalid data.
pInterval	• Interval (seconds) between fix requests • NULL pointer - Invalid data.
pAccuracy	• Preferred accuracy threshold (meters) • NULL pointer - Invalid data.

8.1290.2 Field Documentation

8.1290.2.1 uint32_t∗ unpack_pds_GetPDSDefaults_t::pAccuracy

8.1290.2.2 uint32_t∗ unpack_pds_GetPDSDefaults_t::pInterval

8.1290.2.3 uint32_t∗ unpack_pds_GetPDSDefaults_t::pOperation

8.1290.2.4 uint8_t∗ unpack_pds_GetPDSDefaults_t::pTimeout

8.1291 unpack_pds_GetPDSState_t Struct Reference

Data Fields

- uint32_t ∗ pEnabledStatus
- uint32_t ∗ pTrackingStatus

8.1291.1 Detailed Description

Structure contain parameters of current PDS state.

Parameters

pEnabledStatus	• Current PDS state – 0 - disable – 1 - enable • NULL pointer - Invalid data.

pTrackingStatus	• Current PDS tracking session state • Values: – 0x00 - Unknown – 0x01 - Inactive – 0x02 - Active • NULL pointer - Invalid data.

8.1291.2 Field Documentation

8.1291.2.1 uint32_t∗ unpack_pds_GetPDSState_t::pEnabledStatus

8.1291.2.2 uint32_t∗ unpack_pds_GetPDSState_t::pTrackingStatus

8.1292 unpack_pds_GetPortAutomaticTracking_t Struct Reference

Data Fields

- uint32_t ∗ pbAuto

8.1292.1 Detailed Description

Structure contain the parameter of automatic tracking configuration for the NMEA COM port.

Parameters

pbAuto	• Automatic tracking enabled for NMEA COM port – 0x00 - Disabled – 0x01 - Enabled

- NULL pointer - Invalid data.

8.1292.2 Field Documentation

8.1292.2.1 uint32_t∗ unpack_pds_GetPortAutomaticTracking_t::pbAuto

8.1293 unpack_pds_GetServiceAutomaticTracking_t Struct Reference

Data Fields

- uint32_t ∗ pbAuto

8.1293.1 Detailed Description

Structure contain the parameter for automatic tracking state.

Parameters

pbAuto	• Automatic tracking session started for service – 0x00 - Disabled – 0x01 - Enabled • NULL pointer - Invalid data.

8.1293.2 Field Documentation

8.1293.2.1 uint32_t∗ unpack_pds_GetServiceAutomaticTracking_t::pbAuto

8.1294 unpack_pds_GetXTRAAutomaticDownload_t Struct Reference

Data Fields

- uint32_t ∗ pbEnabled
- uint16_t ∗ pInterval

8.1294.1 Detailed Description

Structure contain the parameter of automatic tracking configuration for the NMEA COM port.

Parameters

pbEnabled	• Automatic XTRA download status – 0 - Disabled – 1 - Enabled • NULL pointer - Invalid data.
pInterval	• Interval (hours) between XTRA downloads • NULL pointer - Invalid data.

8.1294.2 Field Documentation

8.1294.2.1 uint32_t∗ unpack_pds_GetXTRAAutomaticDownload_t::pbEnabled

8.1294.2.2 uint16_t∗ unpack_pds_GetXTRAAutomaticDownload_t::pInterval

8.1295 unpack_pds_GetXTRANetwork_t Struct Reference

Data Fields

- uint32_t ∗ pPreference

8.1295.1 Detailed Description

Structure contain the parameter for XTRA WWAN network preference

Parameters

pPreference	• XTRA WWAN network preference – 0x00 - None (any available network) – 0x01 - Home-only, only when on home systems – 0x02 - Roam-only, only when on non-home systems • NULL pointer - Invalid data.

8.1295.2 Field Documentation

8.1295.2.1 uint32_t∗ unpack_pds_GetXTRANetwork_t::pPreference

8.1296 unpack_pds_GetXTRAValidity_t Struct Reference

Data Fields

- uint16_t ∗ pGPSWeek
- uint16_t ∗ pGPSWeekOffset
- uint16_t ∗ pDuration

8.1296.1 Detailed Description

Structure contain the parameter for XTRA database validity period

Parameters

pGPSWeek	• Starting GPS week of validity period • NULL pointer - Invalid data.
pGPSWeek-Offset	• Starting GPS week offset (minutes) of validity period • NULL pointer - Invalid data.
pDuration	• Length of validity period (hours) • NULL pointer - Invalid data.

8.1296.2 Field Documentation

8.1296.2.1 uint16_t∗ unpack_pds_GetXTRAValidity_t::pDuration

8.1296.2.2 uint16_t∗ unpack_pds_GetXTRAValidity_t::pGPSWeek

8.1296.2.3 uint16_t∗ unpack_pds_GetXTRAValidity_t::pGPSWeekOffset

8.1297 unpack_pds_SetEventReport_Ind_t Struct Reference

Data Fields

- uint8_t has_PositionDataNMEA
- char PositionDataNMEA [200]
- uint8_t has_dLongitude
- double dLongitude
- uint8_t has_dLatitude
- double dLatitude
- uint8_t has_SessionStatus
- uint8_t SessionStatus
- uint8_t has_posSrc
- uint32_t posSrc

8.1297.1 Detailed Description

Structure contain the parameter for the Set event report Indication. Please check has_<Param_Name> field for presence of optional parameters

Parameters

PositionDataNMEA	• Position Data NMEA. • String containing the position data in NMEA sentence format (maximum 200 bytes).
dLongitude	• Longitude position referenced to the WGS-84 reference ellipsoid, counting positive angles east of the Greenwich Meridian and negative angles west of the Greenwich Meridian. • Units - Decimal degrees • Range - -180 to +180 • Note - Value is in double float format
dLatitude	• Latitude position referenced to the WGS-84 reference ellipsoid, counting positive angles north of the equator and negative angles south of the equator. • Units: Decimal degrees • Range: -90 to +90 • Note - Value is in double float format
session_status	• Position Session Status • Status of current session. • Values – 0x00 - Success – 0x01 - In progress – 0x02 - General failure – 0x03 - Timeout – 0x04 - User ended the session – 0x05 - Bad parameter – 0x06 - Phone is offline – 0x07 - Engine is locked – 0x08 - E911 session in progress • Note - This TLV is always sent while a fix is being generated or if it halts due to an error. The Parsed Position Data TLV (0x13) is included if the session status is Success (0x00) or In Progress (0x01); otherwise this TLV is passed alone.

posSrc	• Position Source • This TLV is always sent with the Parsed Position Data TLV (0x13) when the latitude/longitude is marked as valid. Source of the position (bitmask). • Values – 0x00000001 - GPS – 0x00000002 – Cell ID – 0x00000004 – GLONASS – 0x00000008 – Network – 0x00000010 – External position injection

8.1297.2 Field Documentation

8.1297.2.1 double unpack_pds_SetEventReport_Ind_t::dLatitude

8.1297.2.2 double unpack_pds_SetEventReport_Ind_t::dLongitude

8.1297.2.3 uint8_t unpack_pds_SetEventReport_Ind_t::has_dLatitude

8.1297.2.4 uint8_t unpack_pds_SetEventReport_Ind_t::has_dLongitude

8.1297.2.5 uint8_t unpack_pds_SetEventReport_Ind_t::has_PositionDataNMEA

8.1297.2.6 uint8_t unpack_pds_SetEventReport_Ind_t::has_posSrc

8.1297.2.7 uint8_t unpack_pds_SetEventReport_Ind_t::has_SessionStatus

8.1297.2.8 char unpack_pds_SetEventReport_Ind_t::PositionDataNMEA[200]

8.1297.2.9 uint32_t unpack_pds_SetEventReport_Ind_t::posSrc

8.1297.2.10 uint8_t unpack_pds_SetEventReport_Ind_t::SessionStatus

8.1298 unpack_pds_SetPdsState_Ind_t Struct Reference

Data Fields

- uint16_t TlvPresent
- uint32_t EnabledStatus
- uint32_t TrackingStatus

8.1298.1 Detailed Description

Structure contain the parameter for the Set PDS State Indication.

Parameters

EnabledStatus	• GPS service state. • Values – 0x00 - Disable – 0x01 - Enable
TrackingStatus	• Tracking session state. • Values – 0x00 - Unknown – 0x01 - Inactive – 0x02 - Active

8.1298.2 Field Documentation

8.1298.2.1 uint32_t unpack_pds_SetPdsState_Ind_t::EnabledStatus

8.1298.2.2 uint16_t unpack_pds_SetPdsState_Ind_t::TlvPresent

8.1298.2.3 uint32_t unpack_pds_SetPdsState_Ind_t::TrackingStatus

8.1299 unpack_pds_SLQSGetAGPSConfig_t Struct Reference

Data Fields

- uint32_t * pServerAddress
- uint32_t * pServerPort
- uint8_t * pServerURL
- uint8_t * pServerURLLength

8.1299.1 Detailed Description

Structure contain the parameter for PDS AGPS (MS-based) configuration unpack.

Parameters

pServerAddress	• IPv4 address of AGPS server. "0" if not set
pServerPort	• Port number of AGPS server. "0" if not set
pServerURL	• URL of the AGPS server. "0" if not set
pServerURL-Length	• URL length of AGPS server. "0" if not set

8.1299.2 Field Documentation

8.1299.2.1 uint32_t* unpack_pds_SLQSGetAGPSConfig_t::pServerAddress

8.1299.2.2 uint32_t* unpack_pds_SLQSGetAGPSConfig_t::pServerPort

8.1299.2.3 uint8_t* unpack_pds_SLQSGetAGPSConfig_t::pServerURL

8.1299.2.4 uint8_t* unpack_pds_SLQSGetAGPSConfig_t::pServerURLLength

8.1300 unpack_pds_SLQSGetGPSStateInfo_t Struct Reference

Data Fields

- uint8_t EngineState
- uint32_t ValidMask
- uint64_t Latitude
- uint64_t Longitude
- uint32_t HorizontalUncertainty
- uint32_t Altitude
- uint32_t VerticalUncertainty
- uint32_t TimeStmp_tow_ms
- uint16_t TimeStmp_gps_week
- uint32_t Time_uncert_ms
- uint8_t Iono_valid
- uint32_t gps_ephemeris_sv_msk
- uint32_t gps_almanac_sv_msk
- uint32_t gps_health_sv_msk
- uint32_t gps_visible_sv_msk
- uint32_t glo_ephemeris_sv_msk
- uint32_t glo_almanac_sv_msk
- uint32_t glo_health_sv_msk
- uint32_t glo_visible_sv_msk
- uint32_t sbas_ephemeris_sv_msk
- uint32_t sbas_almanac_sv_msk
- uint32_t sbas_health_sv_msk
- uint32_t sbas_visible_sv_msk
- uint16_t xtra_start_gps_week
- uint16_t xtra_start_gps_minutes
- uint16_t xtra_valid_duration_hours

8.1300.1 Detailed Description

Structure contain the parameter for GPS state Info.

Parameters

EngineState	• Values:
	  – 0 - OFF
	  – 1 - ON
	• This field is always valid

ValidMask	• Mask of valid state information data. • Values: – 0x00000001 - Position(latitude/longitude/horizontal uncertainty) – 0x00000002 - Altitude and vertical uncertainty – 0x00000004 - Time ms – 0x00000008 - Time week number – 0x00000010 - Time uncertainty – 0x00000020 - Iono validity – 0x00000040 - GPS ephemeris – 0x00000080 - GPS almanac – 0x00000100 - GPS health – 0x00000200 - GPS visible SVs – 0x00000400 - GLONASS ephemeris – 0x00000800 - GLONASS almanac – 0x00001000 - GLONASS health – 0x00002000 - GLONASS visible SVs – 0x00004000 - SBAS ephemeris – 0x00008000 - SBAS almanac – 0x00010000 - SBAS health – 0x00020000 - SBAS visible SVs – 0x00040000 - XTRA information
Latitude	• Latitude position referenced to the WGS-84 reference ellipsoid, counting positive angles north of the equator and negative angles south of the equator. • Units: Decimal degrees • Range: -90 to +90 degrees. • Value is in double float format (refer to IEEE Std 754-1985)
Longitude	• Longitude position referenced to the WGS-84 reference ellipsoid, counting positive angles east of the Greenwich Meridian and negative angles west of Greenwich meridian. • Units: Decimal degrees • Range: -180 to +180 degrees • Value is in double float format (refer to IEEE Std 754-1985)
Horizontal-Uncertainty	• Circular horizontal uncertainty (in meters). The uncertainty is provided at 63 percent confidence. • Value is in single float format (refer to IEEE Std 754-1985)
Altitude	• Height above the WGS-84 reference ellipsoid. Value conveys height (in meters) plus 500 m • Range -500 to 15883 • Value in single float format (refer to IEEE Std 754-1985)
Vertical-Uncertainty	• Vertical uncertainty (in meters). The uncertainty is provided at 68 percent confidence. • Value in single float format (refer to IEEE Std 754-1985)

TimeStmp_tow_ms	• Time stamp in GPS time of week(in milliseconds)
TimeStmp_gps_week	• GPS week number
Time_uncert_ms	• Time uncertainty (in milliseconds). The uncertainty is provided at 99 percent confidence.
Iono_valid	• Iono validity. • Values: – 0 - Invalid – 1 - Valid
gps_ephemeris_sv_msk	• GPS SV mask for ephemeris; if the bit is set, ephemeris for that SV is available.
gps_almanac_sv_msk	• GPS SV mask for almanac; if the bit is set, almanac for that SV is available.
gps_health_sv_msk	• GPS SV mask for health; if the bit is set, health for that SV is available.
gps_visible_sv_msk	• GPS SV mask for visible Svs; if the bit is set, the SV is available.
glo_ephemeris_sv_msk	• GLONASS SV mask for ephemeris; if the bit is set, ephemeris for that SV is available.
glo_almanac_sv_msk	• GLONASS SV mask for almanac; if the bit is set, almanac for that SV is available.
glo_health_sv_msk	• GLONASS SV mask for health; if the bit is set, health for that SV is available.
glo_visible_sv_msk	• GLONASS SV mask for visible SVs; if the bit is set, the SV is available.
sbas_ephemeris_sv_msk	• SBAS SV mask for ephemeris; if the bit is set, ephemeris for that SV is available.
sbas_almanac_sv_msk	• SBAS SV mask for almanac; if the bit is set, almanac for that SV is available.
sbas_health_sv_msk	• SBAS SV mask for health; if the bit is set, health for that SV is available.
sbas_visible_sv_msk	• SBAS SV mask for visible SVs; if the bit is set, the SV is available.

xtra_start_gps_-week	• Current XTRA information is valid starting from this GPS week number
xtra_start_gps_-minutes	• Current XTRA information is valid starting from the GPS minutes with the GPS week
xtra_valid_-duration_hours	• XTRA information is valid for this many hours starting from the specified GPS week/minutes

8.1300.2 Field Documentation

8.1300.2.1 uint32_t unpack_pds_SLQSGetGPSStateInfo_t::Altitude

8.1300.2.2 uint8_t unpack_pds_SLQSGetGPSStateInfo_t::EngineState

8.1300.2.3 uint32_t unpack_pds_SLQSGetGPSStateInfo_t::glo_almanac_sv_msk

8.1300.2.4 uint32_t unpack_pds_SLQSGetGPSStateInfo_t::glo_ephemeris_sv_msk

8.1300.2.5 uint32_t unpack_pds_SLQSGetGPSStateInfo_t::glo_health_sv_msk

8.1300.2.6 uint32_t unpack_pds_SLQSGetGPSStateInfo_t::glo_visible_sv_msk

8.1300.2.7 uint32_t unpack_pds_SLQSGetGPSStateInfo_t::gps_almanac_sv_msk

8.1300.2.8 uint32_t unpack_pds_SLQSGetGPSStateInfo_t::gps_ephemeris_sv_msk

8.1300.2.9 uint32_t unpack_pds_SLQSGetGPSStateInfo_t::gps_health_sv_msk

8.1300.2.10 uint32_t unpack_pds_SLQSGetGPSStateInfo_t::gps_visible_sv_msk

8.1300.2.11 uint32_t unpack_pds_SLQSGetGPSStateInfo_t::HorizontalUncertainty

8.1300.2.12 uint8_t unpack_pds_SLQSGetGPSStateInfo_t::Iono_valid

8.1300.2.13 uint64_t unpack_pds_SLQSGetGPSStateInfo_t::Latitude

8.1300.2.14 uint64_t unpack_pds_SLQSGetGPSStateInfo_t::Longitude

8.1300.2.15 uint32_t unpack_pds_SLQSGetGPSStateInfo_t::sbas_almanac_sv_msk

8.1300.2.16 uint32_t unpack_pds_SLQSGetGPSStateInfo_t::sbas_ephemeris_sv_msk

8.1300.2.17 uint32_t unpack_pds_SLQSGetGPSStateInfo_t::sbas_health_sv_msk

8.1300.2.18 uint32_t unpack_pds_SLQSGetGPSStateInfo_t::sbas_visible_sv_msk

8.1300.2.19 uint32_t unpack_pds_SLQSGetGPSStateInfo_t::Time_uncert_ms

8.1300.2.20 uint16_t unpack_pds_SLQSGetGPSStateInfo_t::TimeStmp_gps_week

8.1300.2.21 uint32_t unpack_pds_SLQSGetGPSStateInfo_t::TimeStmp_tow_ms

8.1300.2.22 uint32_t unpack_pds_SLQSGetGPSStateInfo_t::ValidMask

8.1300.2.23 uint32_t unpack_pds_SLQSGetGPSStateInfo_t::VerticalUncertainty

8.1300.2.24 uint16_t unpack_pds_SLQSGetGPSStateInfo_t::xtra_start_gps_minutes

8.1300.2.25 uint16_t unpack_pds_SLQSGetGPSStateInfo_t::xtra_start_gps_week

8.1300.2.26 uint16_t unpack_pds_SLQSGetGPSStateInfo_t::xtra_valid_duration_hours

8.1301 unpack_qmi_t Struct Reference

Data Fields

- enum msgtype type
- uint16_t msgid
- uint16_t xid

8.1301.1 Detailed Description

qmi response context

Parameters

out	*type*	message type
out	*msgid*	message id
out	*xid*	transaction id

8.1301.2 Field Documentation

8.1301.2.1 uint16_t unpack_qmi_t::msgid

8.1301.2.2 enum msgtype unpack_qmi_t::type

8.1301.2.3 uint16_t unpack_qmi_t::xid

8.1302 unpack_qos_dataRate_t Struct Reference

Data Fields

- uint32_t dataRateMax
- uint32_t guaranteedRate

8.1302.1 Detailed Description

This structure contains the IP flow data rate min max

Parameters

dataRateMax	Maximum required data rate (bits per second)
guaranteedRate	Minimum guaranteed data rate (bits per second)

8.1302.2 Field Documentation

8.1302.2.1 uint32_t unpack_qos_dataRate_t::dataRateMax

8.1302.2.2 uint32_t unpack_qos_dataRate_t::guaranteedRate

8.1303 unpack_qos_IPv4Addr_t Struct Reference

Data Fields

- uint32_t addr
- uint32_t subnetMask

8.1303.1 Detailed Description

This structure contains the IPv4 filter address

Parameters

addr	IPv4 address
subnetMask	A packet matches if: • (addr and subnetMask) == (IP pkt addr & subnetMask) Callers to set up a filter with a range of source addresses, if needed; subnet mask of all 1s (255.255.255.255) specifies a single address value

8.1303.2 Field Documentation

8.1303.2.1 uint32_t unpack_qos_IPv4Addr_t::addr

8.1303.2.2 uint32_t unpack_qos_IPv4Addr_t::subnetMask

8.1304 unpack_qos_IPv6Addr_t Struct Reference

Data Fields

- uint8_t addr [16]
- uint8_t prefixLen

8.1304.1 Detailed Description

This structure contains the IPv6 filter address

Parameters

addr	IPv6 address (in network byte order); this is a 16-byte byte array (in Big-endian format)
prefixLen	IPv6 filter prefix length; can take a value between 0 and 128 Note: A packet matches if the IPv6 source address bytes until the prefix lengths are equal. Therefore prefix length can be used to set a filter with a range of source addresses. A prefix length of 128 specifies a single address value.

8.1304.2 Field Documentation

8.1304.2.1 uint8_t unpack_qos_IPv6Addr_t::addr[16]

8.1304.2.2 uint8_t unpack_qos_IPv6Addr_t::prefixLen

8.1305 unpack_qos_IPv6TrafCls_t Struct Reference

Data Fields

- uint8_t val
- uint8_t mask

8.1305.1 Detailed Description

This structure contains the IPv6 filter traffic class

Parameters

val	The traffic class value
mask	The packet matches the traffic class filter if: (IPv6_filter_traffic_class_val and IPv6_filter_traffic_class_mask) == (Traffic class value in the IP packet & IPv6_filter_traffic_class_mask) Example: • IPv6_filter_tc_val = 00101000 • IPv6_filter_tc_mask = 11111100 Filter will compare only the first 6 bits in IPv6_filter_traffic_class with the first 6 bits in the traffic class field of the IP packet; first 6 bits in the traffic class field of the IP packet must be 001010 to match filter; last 2 bits can be anything, since they are ignored by filtering

8.1305.2 Field Documentation

8.1305.2.1 uint8_t unpack_qos_IPv6TrafCls_t::mask

8.1305.2.2 uint8_t unpack_qos_IPv6TrafCls_t::val

8.1306 unpack_qos_pktErrRate_t Struct Reference

Data Fields

- uint16_t multiplier
- uint16_t exponent

8.1306.1 Detailed Description

This structure contains the IP flow packet error rate

Parameters

multiplier	Factor m in calculating packet error rate: E = m∗10∗∗(-p)
exponent	Factor p in calculating packet error rate (see above)

8.1306.2 Field Documentation

8.1306.2.1 uint16_t unpack_qos_pktErrRate_t::exponent

8.1306.2.2 uint16_t unpack_qos_pktErrRate_t::multiplier

8.1307 unpack_qos_Port_t Struct Reference

Data Fields

- uint16_t port
- uint16_t range

8.1307.1 Detailed Description

This structure contains the Port Filter

Parameters

port	port value of the filter
range	range specifies the number of ports to be included in the filter starting from port; filter will match if port in the IP packet lies between port and (port + range) Range value of 0 implies that only one value of the port is valid, as specified by the port

8.1307.2 Field Documentation

8.1307.2.1 uint16_t unpack_qos_Port_t::port

8.1307.2.2 uint16_t unpack_qos_Port_t::range

8.1308 unpack_qos_QosFlowInfo_t Struct Reference

Data Fields

- unpack_qos_QosFlowInfoState_t QFlowState
- uint8_t is_TxQFlowGranted_Available
- unpack_qos_swiQosFlow_t TxQFlowGranted
- uint8_t is_RxQFlowGranted_Available
- unpack_qos_swiQosFlow_t RxQFlowGranted
- uint8_t NumTxFilters
- unpack_qos_swiQosFilter_t TxQFilter [25]
- uint8_t NumRxFilters
- unpack_qos_swiQosFilter_t RxQFilter [25]
- uint8_t BearerID

8.1308.1 Detailed Description

Structure with QoS flow details.

Please check is_<Param_Name>_Available field for presence of optional parameters

Parameters

QFlowState	• QoS flow state information, please check unpack_qos_QosFlowInfoState_t for more information
is_TxQFlowGranted_Available	• TRUE if optional TxQFlowGranted is available

TxQFlow-Granted	• The Tx Qos flow granted, please check unpack_qos_swiQosFlow_t for more information
is_RxQFlow-Granted_-Available	• TRUE if optional RxQFlowGranted is available
RxQFlow-Granted	• The Rx Qos flow granted, please check unpack_qos_swiQosFlow_t for more information
NumTxFilters	• Number of Tx filters available
TxQFilter	• The Tx Qos filter, please check unpack_qos_swiQosFilter_t for more information • See LITEQMI_MAX_QOS_FILTERS for more information
NumRxFilters	• Number of Tx filters available
RxQFilter	• The Rx Qos filter, please check unpack_qos_swiQosFilter_t for more information • See LITEQMI_MAX_QOS_FILTERS for more information
BearerID	• The bearer ID • Bearer ID or Radio Link Protocol (RLP) ID of the activated flow. • Valid Values - 0 to 16 • 0xFF - Invalid value.

8.1308.2 Field Documentation

8.1308.2.1 uint8_t unpack_qos_QosFlowInfo_t::BearerID

8.1308.2.2 uint8_t unpack_qos_QosFlowInfo_t::is_RxQFlowGranted_Available

8.1308.2.3 uint8_t unpack_qos_QosFlowInfo_t::is_TxQFlowGranted_Available

8.1308.2.4 uint8_t unpack_qos_QosFlowInfo_t::NumRxFilters

8.1308.2.5 uint8_t unpack_qos_QosFlowInfo_t::NumTxFilters

8.1308.2.6 unpack_qos_QosFlowInfoState_t unpack_qos_QosFlowInfo_t::QFlowState

8.1308.2.7 unpack_qos_swiQosFilter_t unpack_qos_QosFlowInfo_t::RxQFilter[25]

8.1308.2.8 unpack_qos_swiQosFlow_t unpack_qos_QosFlowInfo_t::RxQFlowGranted

8.1308.2.9 unpack_qos_swiQosFilter_t unpack_qos_QosFlowInfo_t::TxQFilter[25]

8.1308.2.10 unpack_qos_swiQosFlow_t unpack_qos_QosFlowInfo_t::TxQFlowGranted

8.1309 unpack_qos_QosFlowInfoState_t Struct Reference

Data Fields

- uint32_t id
- uint8_t isNewFlow
- uint8_t state

8.1309.1 Detailed Description

This structure contains QoS flow state

Parameters

id	QoS identifier
isNewFlow	• 1 - Newly added flow • 0 - Existing flow
state	This indicates that the flow that was added/modified/deleted: • 0x01 - Flow activated • 0x02 - Flow modified • 0x03 - Flow deleted • 0x04 - Flow suspended • 0x05 - Flow enabled • 0x06 - Flow disabled

8.1309.2 Field Documentation

8.1309.2.1 uint32_t unpack_qos_QosFlowInfoState_t::id

8.1309.2.2 uint8_t unpack_qos_QosFlowInfoState_t::isNewFlow

8.1309.2.3 uint8_t unpack_qos_QosFlowInfoState_t::state

8.1310 unpack_qos_SLQSQosGetNetworkStatus_t Struct Reference

Data Fields

- uint8_t NWQoSStatus

8.1310.1 Detailed Description

Structure that contains the response to get NW QoS status command

Parameters

NWQoSStatus	Network QoS support status • 0 - No QoS support in network • 1 - Network supports QoS • 0xff - Invalid Data.

8.1310.2 Field Documentation

8.1310.2.1 uint8_t unpack_qos_SLQSQosGetNetworkStatus_t::NWQoSStatus

8.1311 unpack_qos_SLQSQosSwiReadApnExtraParams_t Struct Reference

Data Fields

- uint32_t apnId
- uint8_t ambr_ul
- uint8_t ambr_dl
- uint8_t ambr_ul_ext
- uint8_t ambr_dl_ext
- uint8_t ambr_ul_ext2
- uint8_t ambr_dl_ext2

8.1311.1 Detailed Description

Structure that contains extra APN parameters

Parameters

apnId	• APN id • ID identifing the APN that the client would like to query the AMBR params
ambr_ul	• APN AMBR uplink • APN AMBR uplink values from 1 kbps to 8640 kbps
ambr_dl	• APN AMBR downlink • APN AMBR downlink values from 1 kbps to 8640 kbps
ambr_ul_ext	• Extended APN AMBR uplink • APN AMBR uplink values from 8700 kbps to 256 Mbps
ambr_dl_ext	• Extended APN AMBR downlink • APN AMBR downlink values from 8700 kbps to 256 Mbps
ambr_ul_ext2	• Second extended APN AMBR uplink • APN AMBR uplink values from 256 Mbps to 65280 Mbps
ambr_dl_ext2	• Second extended APN AMBR downlink • APN AMBR downlink values from 256 Mbps to 65280 Mbps

8.1311.2 Field Documentation

8.1311.2.1 uint8_t unpack_qos_SLQSQosSwiReadApnExtraParams_t::ambr_dl

8.1311.2.2 uint8_t unpack_qos_SLQSQosSwiReadApnExtraParams_t::ambr_dl_ext

8.1311.2.3 uint8_t unpack_qos_SLQSQosSwiReadApnExtraParams_t::ambr_dl_ext2

8.1311.2.4 uint8_t unpack_qos_SLQSQosSwiReadApnExtraParams_t::ambr_ul

8.1311.2.5 uint8_t unpack_qos_SLQSQosSwiReadApnExtraParams_t::ambr_ul_ext

8.1311.2.6 uint8_t unpack_qos_SLQSQosSwiReadApnExtraParams_t::ambr_ul_ext2

8.1311.2.7 uint32_t unpack_qos_SLQSQosSwiReadApnExtraParams_t::apnId

8.1312 unpack_qos_SLQSQosSwiReadDataStats_t Struct Reference

Data Fields

- uint32_t apnId
- uint32_t total_tx_pkt
- uint32_t total_tx_pkt_drp
- uint32_t total_rx_pkt
- uint64_t total_tx_bytes
- uint64_t total_tx_bytes_drp
- uint64_t total_rx_bytes
- uint32_t numQosFlow
- unpack_QosFlowStat_t qosFlow [10]

8.1312.1 Detailed Description

Structure that contains APN data statistics

Parameters

apnId	• APN id • ID identifing the connected APN that the client would like to query the data statistic for
total_tx_pkt	• sum of all packets sent
total_tx_pkt_drp	• sum of all(TX) packets dropped
total_rx_pkt	• sum of all packets received
total_tx_bytes	• sum of all bytes sent
total_tx_bytes_drp	• sum of all(TX) bytes dropped

total_rx_bytes	• number of received bytes for the QoS flow ID
numQosFlow	• pointer to number of QoS flow Stat
qosFlow[LITEQMI_MAX_QOS_FLOW_PER_APN_STATS]	• Data statistic per QoS flow • See unpack_QosFlowStat_t for more information • See LITEQMI_MAX_QOS_FLOW_PER_APN_STATS for more information

8.1312.2 Field Documentation

8.1312.2.1 uint32_t unpack_qos_SLQSQosSwiReadDataStats_t::apnId

8.1312.2.2 uint32_t unpack_qos_SLQSQosSwiReadDataStats_t::numQosFlow

8.1312.2.3 unpack_QosFlowStat_t unpack_qos_SLQSQosSwiReadDataStats_t::qosFlow[10]

8.1312.2.4 uint64_t unpack_qos_SLQSQosSwiReadDataStats_t::total_rx_bytes

8.1312.2.5 uint32_t unpack_qos_SLQSQosSwiReadDataStats_t::total_rx_pkt

8.1312.2.6 uint64_t unpack_qos_SLQSQosSwiReadDataStats_t::total_tx_bytes

8.1312.2.7 uint64_t unpack_qos_SLQSQosSwiReadDataStats_t::total_tx_bytes_drp

8.1312.2.8 uint32_t unpack_qos_SLQSQosSwiReadDataStats_t::total_tx_pkt

8.1312.2.9 uint32_t unpack_qos_SLQSQosSwiReadDataStats_t::total_tx_pkt_drp

8.1313 unpack_qos_SLQSSetQosEventCallback_ind_t Struct Reference

Data Fields

- uint8_t NumFlows
- unpack_qos_QosFlowInfo_t QosFlowInfo [8]

8.1313.1 Detailed Description

Structure with QoS event details

Parameters

NumFlows	• Number of QoS flows available
QosFlowInfo	• The Qos flow details, please check unpack_qos_QosFlowInfo_t for more information • See LITEQMI_MAX_QOS_FLOWS for more information

8.1313.2 Field Documentation

8.1313.2.1 uint8_t unpack_qos_SLQSSetQosEventCallback_ind_t::NumFlows

8.1313.2.2 unpack_qos_QosFlowInfo_t unpack_qos_SLQSSetQosEventCallback_ind_t::QosFlowInfo[8]

8.1314 unpack_qos_SLQSSetQosNWStatusCallback_ind_t Struct Reference

Data Fields

- uint8_t status

8.1314.1 Detailed Description

Structure with network's QoS status

Parameters

status	Network QoS support status • 0x00 - Current network does not support QoS • 0x01 - Current network supports QoS

Note

- Technology Supported: CDMA

8.1314.2 Field Documentation

8.1314.2.1 uint8_t unpack_qos_SLQSSetQosNWStatusCallback_ind_t::status

8.1315 unpack_qos_SLQSSetQosPriEventCallback_ind_t Struct Reference

Data Fields

- uint16_t event

8.1315.1 Detailed Description

Structure with QoS primary flow events

Parameters

event	Event which causes this indication: • 0x0001 - Primary flow QoS modify operation success • 0x0002 - Primary flow QoS modify operation failure

8.1315.2 Field Documentation

8.1315.2.1 uint16_t unpack_qos_SLQSSetQosPriEventCallback_ind_t::event

8.1316 unpack_qos_SLQSSetQosStatusCallback_ind_t Struct Reference

Data Fields

- uint32_t id
- uint8_t status
- uint8_t event
- uint8_t reason

8.1316.1 Detailed Description

Structure with QoS status indication details

Parameters

id	• Index identifying the QoS flow whose status is being reported
status	Current QoS flow status: • 0x01 - QMI_QOS_STATUS_ACTIVATED • 0x02 - QMI_QOS_STATUS_SUSPENDED • 0x03 - QMI_QOS_STATUS_GONE
event	• 0x01 - QMI_QOS_ACTIVATED_EV • 0x02 - QMI_QOS_SUSPENDED_EV • 0x03 - QMI_QOS_GONE_EV • 0x04 - QMI_QOS_MODIFY_ACCEPTED_EV • 0x05 - QMI_QOS_MODIFY_REJECTED_EV • 0x06 - QMI_QOS_INFO_CODE_UPDATED_EV

reason	• 0x01 - QMI_QOS_INVALID_PARAMS • 0x02 - QMI_QOS_INTERNAL_CALL_ENDED • 0x03 - QMI_QOS_INTERNAL_ERROR • 0x04 - QMI_QOS_INSUFFICIENT_LOCAL_Resources • 0x05 - QMI_QOS_TIMED_OUT_OPERATION • 0x06 - QMI_QOS_INTERNAL_UNKNOWN_CAUSE_CODE • 0x07 - QMI_QOS_INTERNAL_MODIFY_IN_PROGRESS • 0x08 - QMI_QOS_NOT_SUPPORTED • 0x09 - QMI_QOS_NOT_AVAILABLE • 0x0A - QMI_QOS_NOT_GUARANTEED • 0x0B - QMI_QOS_INSUFFICIENT_NETWORK_RESOURCES • 0x0C - QMI_QOS_AWARE_SYSTEM • 0x0D - QMI_QOS_UNAWARE_SYSTEM • 0x0E - QOS_REJECTED_OPERATION • 0x0F - QMI_QOS_WILL_GRANT_WHEN_QOS_RESUMED • 0x10 - QMI_QOS_NETWORK_CALL_ENDED • 0x11 - QMI_QOS_NETWORK_SERVICE_NOT_AVAILABLE • 0x12 - QMI_QOS_NETWORK_L2_LINK_RELEASED • 0x13 - QMI_QOS_NETWORK_L2_LINK_REESTAB_REJ • 0x14 - QMI_QOS_NETWORK_L2_LINK_REESTAB_IND • 0x15 - QMI_QOS_NETWORK_UNKNOWN_CAUSE_CODE • 0x16 - QMI_NETWORK_BUSY • 0xff - Invalid Data.

8.1316.2 Field Documentation

8.1316.2.1 uint8_t unpack_qos_SLQSSetQosStatusCallback_ind_t::event

8.1316.2.2 uint32_t unpack_qos_SLQSSetQosStatusCallback_ind_t::id

8.1316.2.3 uint8_t unpack_qos_SLQSSetQosStatusCallback_ind_t::reason

8.1316.2.4 uint8_t unpack_qos_SLQSSetQosStatusCallback_ind_t::status

8.1317 unpack_qos_swiQosFilter_t Struct Reference

Data Fields

- uint8_t index
- uint8_t version
- uint8_t is_IPv4SrcAddr_Available
- unpack_qos_IPv4Addr_t IPv4SrcAddr
- uint8_t is_IPv4DstAddr_Available
- unpack_qos_IPv4Addr_t IPv4DstAddr
- uint8_t is_NxtHdrProto_Available
- uint8_t NxtHdrProto
- uint8_t is_IPv4Tos_Available
- unpack_qos_Tos_t IPv4Tos
- uint8_t is_IPv6SrcAddr_Available

- unpack_qos_IPv6Addr_t IPv6SrcAddr
- uint8_t is_IPv6DstAddr_Available
- unpack_qos_IPv6Addr_t IPv6DstAddr
- uint8_t is_IPv6TrafCls_Available
- unpack_qos_IPv6TrafCls_t IPv6TrafCls
- uint8_t is_IPv6Label_Available
- uint32_t IPv6Label
- uint8_t is_TCPSrcPort_Available
- unpack_qos_Port_t TCPSrcPort
- uint8_t is_TCPDstPort_Available
- unpack_qos_Port_t TCPDstPort
- uint8_t is_UDPSrcPort_Available
- unpack_qos_Port_t UDPSrcPort
- uint8_t is_UDPDstPort_Available
- unpack_qos_Port_t UDPDstPort
- uint8_t is_EspSpi_Available
- uint32_t EspSpi
- uint8_t is_Precedence_Available
- uint16_t Precedence
- uint8_t is_Id_Available
- uint16_t Id
- uint8_t is_TranSrcPort_Available
- unpack_qos_Port_t TranSrcPort
- uint8_t is_TranDstPort_Available
- unpack_qos_Port_t TranDstPort

8.1317.1 Detailed Description

This structure contains the QoS Filter Request.

Please check is_<Param_Name>_Available field for presence of optional parameters

Parameters

index	Mandatory parameter IP filter index Integer that uniquely identifies each filter instance This TLV must be present in the request
version	Mandatory parameter IP filter version Identifies whether the filter is associated with IPv4 or IPv6; value specified also implies that only TLVs defined for that IP version, i.e., TLVs with IPv4 or IPv6 in the name, can be specified • 0x04 - IPv4 • 0x06 - Ipv6
IPv4SrcAddr	IPv4 filter soruce address See unpack_qos_IPv4Addr_t for more information • Implemented only for unsolicited indication
IPv4DstAddr	IPv4 filter destination address See unpack_qos_IPv4Addr_t for more information • Implemented only for unsolicited indication
NxtHdrProto	IP filter next header protocol This TLV must be present if any non-IP filter TLV(s) are provided If this field is specified, only IP packets belonging to specified higher layer protocol are considered when filtering The following protocols may be specified: • 0x01 = ICMP • 0x06 = TCP • 0x11 = UDP • 0x32 = ESP Note: The next header protocol field will be set to 0xFD (TCP & UDP) if a TFT is received specifying a source or destination port number, but IP next header type is not specified.

IPv4Tos	IPv4 filter type of service See unpack_qos_Tos_t for more information
IPv6SrcAddr	IPv6 filter soruce address See unpack_qos_IPv6Addr_t for more information • Implemented only for unsolicited indication
IPv6DstAddr	IPv6 filter destination address See unpack_qos_IPv6Addr_t for more information • Implemented only for unsolicited indication
IPv6TrafCls	IPv6 filter traffic class See unpack_qos_IPv6TrafCls_t for more information
IPv6Label	IPv6 flow label Packet matches the IPv6 flow label filter if: (∗pIPv6Label == flow label in the IPv6 header) • Implemented only for unsolicited indication
TCPSrcPort	TCP filter source port filter See unpack_qos_Port_t for more information • Implemented only for unsolicited indication
TCPDstPort	TCP filter destination port filter See unpack_qos_Port_t for more information • Implemented only for unsolicited indication
UDPSrcPort	UDP filter source port filter See unpack_qos_Port_t for more information • Implemented only for unsolicited indication
UDPDstPort	UDP filter destination port filter See unpack_qos_Port_t for more information • Implemented only for unsolicited indication
EspSpi	ESP filter security policy index Security policy index to uniquely identify each IP flow for filtering encrypted packets for encapsulating security payload • Implemented only for unsolicited indication
Precedence	Filter Precedence Specifies the order in which filters are applied; lower numerical value has higher precedence Note: This TLV only applies to network-initiated QoS; QoS requests containing this TLV from control points will be ignored
Id	Filter ID Unique identifier for each filter;filter ID is assigned by the modem Note: This TLV only applies to network-initiated QoS; QoS requests containing this TLV from control points will be ignored
TranSrcPort	Transport protocolfilter source port See unpack_qos_Port_t for more information • Implemented only for unsolicited indication
UDPDstPort	Transport protocol filter destination port See unpack_qos_Port_t for more information • Implemented only for unsolicited indication

8.1317.2 Field Documentation

8.1317.2.1 uint32_t unpack_qos_swiQosFilter_t::EspSpi

8.1317.2.2 uint16_t unpack_qos_swiQosFilter_t::Id

8.1317.2.3 uint8_t unpack_qos_swiQosFilter_t::index

8.1317.2.4 unpack_qos_IPv4Addr_t unpack_qos_swiQosFilter_t::IPv4DstAddr

8.1317.2.5 unpack_qos_IPv4Addr_t unpack_qos_swiQosFilter_t::IPv4SrcAddr

8.1317.2.6 unpack_qos_Tos_t unpack_qos_swiQosFilter_t::IPv4Tos

8.1317.2.7 **unpack_qos_IPv6Addr_t** unpack_qos_swiQosFilter_t::IPv6DstAddr

8.1317.2.8 uint32_t unpack_qos_swiQosFilter_t::IPv6Label

8.1317.2.9 **unpack_qos_IPv6Addr_t** unpack_qos_swiQosFilter_t::IPv6SrcAddr

8.1317.2.10 **unpack_qos_IPv6TrafCls_t** unpack_qos_swiQosFilter_t::IPv6TrafCls

8.1317.2.11 uint8_t unpack_qos_swiQosFilter_t::is_EspSpi_Available

8.1317.2.12 uint8_t unpack_qos_swiQosFilter_t::is_Id_Available

8.1317.2.13 uint8_t unpack_qos_swiQosFilter_t::is_IPv4DstAddr_Available

8.1317.2.14 uint8_t unpack_qos_swiQosFilter_t::is_IPv4SrcAddr_Available

8.1317.2.15 uint8_t unpack_qos_swiQosFilter_t::is_IPv4Tos_Available

8.1317.2.16 uint8_t unpack_qos_swiQosFilter_t::is_IPv6DstAddr_Available

8.1317.2.17 uint8_t unpack_qos_swiQosFilter_t::is_IPv6Label_Available

8.1317.2.18 uint8_t unpack_qos_swiQosFilter_t::is_IPv6SrcAddr_Available

8.1317.2.19 uint8_t unpack_qos_swiQosFilter_t::is_IPv6TrafCls_Available

8.1317.2.20 uint8_t unpack_qos_swiQosFilter_t::is_NxtHdrProto_Available

8.1317.2.21 uint8_t unpack_qos_swiQosFilter_t::is_Precedence_Available

8.1317.2.22 uint8_t unpack_qos_swiQosFilter_t::is_TCPDstPort_Available

8.1317.2.23 uint8_t unpack_qos_swiQosFilter_t::is_TCPSrcPort_Available

8.1317.2.24 uint8_t unpack_qos_swiQosFilter_t::is_TranDstPort_Available

8.1317.2.25 uint8_t unpack_qos_swiQosFilter_t::is_TranSrcPort_Available

8.1317.2.26 uint8_t unpack_qos_swiQosFilter_t::is_UDPDstPort_Available

8.1317.2.27 uint8_t unpack_qos_swiQosFilter_t::is_UDPSrcPort_Available

8.1317.2.28 uint8_t unpack_qos_swiQosFilter_t::NxtHdrProto

8.1317.2.29 uint16_t unpack_qos_swiQosFilter_t::Precedence

8.1317.2.30 **unpack_qos_Port_t** unpack_qos_swiQosFilter_t::TCPDstPort

8.1317.2.31 **unpack_qos_Port_t** unpack_qos_swiQosFilter_t::TCPSrcPort

8.1317.2.32 **unpack_qos_Port_t** unpack_qos_swiQosFilter_t::TranDstPort

8.1317.2.33 **unpack_qos_Port_t** unpack_qos_swiQosFilter_t::TranSrcPort

8.1317.2.34 **unpack_qos_Port_t** unpack_qos_swiQosFilter_t::UDPDstPort

8.1317.2.35 unpack_qos_Port_t unpack_qos_swiQosFilter_t::UDPSrcPort

8.1317.2.36 uint8_t unpack_qos_swiQosFilter_t::version

8.1318 unpack_qos_swiQosFlow_t Struct Reference

Data Fields

- uint8_t index
- uint8_t is_ProfileId3GPP2_Available
- uint16_t ProfileId3GPP2
- uint8_t is_val_3GPP2Pri_Available
- uint8_t val_3GPP2Pri
- uint8_t is_TrafficClass_Available
- uint8_t TrafficClass
- uint8_t is_DataRate_Available
- unpack_qos_dataRate_t DataRate
- uint8_t is_TokenBucket_Available
- unpack_qos_tokenBucket_t TokenBucket
- uint8_t is_Latency_Available
- uint32_t Latency
- uint8_t is_Jitter_Available
- uint32_t Jitter
- uint8_t is_PktErrRate_Available
- unpack_qos_pktErrRate_t PktErrRate
- uint8_t is_MinPolicedPktSz_Available
- uint32_t MinPolicedPktSz
- uint8_t is_MaxAllowedPktSz_Available
- uint32_t MaxAllowedPktSz
- uint8_t is_val_3GPPResResidualBER_Available
- uint16_t val_3GPPResResidualBER
- uint8_t is_val_3GPPTraHdlPri_Available
- uint8_t val_3GPPTraHdlPri
- uint8_t is_val_3GPPImCn_Available
- uint8_t val_3GPPImCn
- uint8_t is_val_3GPPSigInd_Available
- uint8_t val_3GPPSigInd
- uint8_t is_LteQci_Available
- uint8_t LteQci

8.1318.1 Detailed Description

This structure contains the QoS Flow Request.

Please check is_<Param_Name>_Available field for presence of optional parameters

Parameters

index	• Mandatory parameter • IP flow index • Integer that uniquely identifies each flow instance • Unique index must be assigned by the control point to every flow_spec instance

ProfileId3GPP2	• IP flow 3GPP2 profile ID • A profile ID is shorthand for a defined set of QoS flow parameters specified by the network; to be present while requesting QoS for a CDMA device
val_3GPP2Pri	• IP flow 3GPP2 flow priority • Flow priority used by the network in case of contention between flows with same QoS; this parameter applies for CDMA devices
TrafficClass	• IP flow traffic class • Integer that designates the requested traffic class: • 0 - Conversational • 1 - Streaming • 2 - Interactive • 3 - Background
DataRate	• IP flow data rate min max • See unpack_qos_dataRate_t for more information
TokenBucket	• IP flow data rate token bucket • See unpack_qos_tokenBucket_t for more information
Latency	• IP flow latency • Maximum delay (in milliseconds) that can be tolerated by an IP packet during transfer through the wireless link
Jitter	• IP flow jitter • Difference between the maximum and minimum latency (in milliseconds) that can be tolerated by an IP packet during the transfer through the wireless link
PktErrRate	• IP flow packet error rate • See unpack_qos_pktErrRate_t for more information
MinPolicedPktSz	• IP flow minimum policed packet size • Integer that defines the minimum packet size (in bytes) that will be policed for QoS guarantees; any IP packets that are smaller than the minimum specified policed size may not receive requested QoS
MaxAllowedPkt-Sz	• IP flow maximum allowed packet size • Integer that defines the maximum packet size (in bytes) allowed in the IP flow; any IP packets greater in size than the maximum allowed packet size are not queued for transmission

val_3GPPRes-ResidualBER	• IP flow 3GPP residual bit error rate • residual_bit_error_rate • 0 = 5∗10-2 residual BER • 1 = 1∗10-2 residual BER • 2 = 5∗10-3 residual BER • 3 = 4∗10-3 residual BER • 4 = 1∗10-3 residual BER • 5 = 1∗10-4 residual BER • 6 = 1∗10-5 residual BER • 7 = 1∗10-6 residual BER • 8 = 6∗10-8 residual BER • Integer that indicates the undetected BER for each IP flow in the delivered packets; Tapplies only to 3GPP networks
val_3GPPTra-HdlPri	• 3GPP traffic handling priority • 0 - Relative traffic handling priority 1 • 1 - Relative traffic handling priority 2 • 2 - Relative traffic handling priority 3 • Defines the relative priority of the flow; applies only to 3GPP networks
val_3GPPImCn	• IP flow 3GPP IM CN flag • IM CN subsystem signaling flag: • 0x00 - FALSE • 0x01 - TRUE • This parameter applies only to 3GPP networks
val_3GPPSigInd	• IP flow 3GPP signaling indication • 0x00 - FALSE • 0x01 - TRUE • This parameter applies only to 3GPP networks
LteQci	• LTE QoS Class Identifier • QoS Class Identifier(QCI) is a required parameter to request QoS in LTE • QCI values: – QCI value 0 requests the network to assign the appropriate QCI value – QCI values 1-4 are associated with guaranteed bitrates – QCI values 5-9 are associated with nonguaranteed bitrates, so the values specified as guaranteed and maximum bitrates are ignored

8.1318.2 Field Documentation

8.1318.2.1 unpack_qos_dataRate_t unpack_qos_swiQosFlow_t::DataRate

8.1318.2.2 uint8_t unpack_qos_swiQosFlow_t::index

8.1318.2.3 uint8_t unpack_qos_swiQosFlow_t::is_DataRate_Available

8.1318.2.4 uint8_t unpack_qos_swiQosFlow_t::is_Jitter_Available

8.1318.2.5 uint8_t unpack_qos_swiQosFlow_t::is_Latency_Available

8.1318.2.6 uint8_t unpack_qos_swiQosFlow_t::is_LteQci_Available

8.1318.2.7 uint8_t unpack_qos_swiQosFlow_t::is_MaxAllowedPktSz_Available

8.1318.2.8 uint8_t unpack_qos_swiQosFlow_t::is_MinPolicedPktSz_Available

8.1318.2.9 uint8_t unpack_qos_swiQosFlow_t::is_PktErrRate_Available

8.1318.2.10 uint8_t unpack_qos_swiQosFlow_t::is_ProfileId3GPP2_Available

8.1318.2.11 uint8_t unpack_qos_swiQosFlow_t::is_TokenBucket_Available

8.1318.2.12 uint8_t unpack_qos_swiQosFlow_t::is_TrafficClass_Available

8.1318.2.13 uint8_t unpack_qos_swiQosFlow_t::is_val_3GPP2Pri_Available

8.1318.2.14 uint8_t unpack_qos_swiQosFlow_t::is_val_3GPPImCn_Available

8.1318.2.15 uint8_t unpack_qos_swiQosFlow_t::is_val_3GPPResResidualBER_Available

8.1318.2.16 uint8_t unpack_qos_swiQosFlow_t::is_val_3GPPSigInd_Available

8.1318.2.17 uint8_t unpack_qos_swiQosFlow_t::is_val_3GPPTraHdlPri_Available

8.1318.2.18 uint32_t unpack_qos_swiQosFlow_t::Jitter

8.1318.2.19 uint32_t unpack_qos_swiQosFlow_t::Latency

8.1318.2.20 uint8_t unpack_qos_swiQosFlow_t::LteQci

8.1318.2.21 uint32_t unpack_qos_swiQosFlow_t::MaxAllowedPktSz

8.1318.2.22 uint32_t unpack_qos_swiQosFlow_t::MinPolicedPktSz

8.1318.2.23 **unpack_qos_pktErrRate_t** unpack_qos_swiQosFlow_t::PktErrRate

8.1318.2.24 uint16_t unpack_qos_swiQosFlow_t::ProfileId3GPP2

8.1318.2.25 **unpack_qos_tokenBucket_t** unpack_qos_swiQosFlow_t::TokenBucket

8.1318.2.26 uint8_t unpack_qos_swiQosFlow_t::TrafficClass

8.1318.2.27 uint8_t unpack_qos_swiQosFlow_t::val_3GPP2Pri

8.1318.2.28 uint8_t unpack_qos_swiQosFlow_t::val_3GPPImCn

8.1318.2.29 uint16_t unpack_qos_swiQosFlow_t::val_3GPPResResidualBER

8.1318.2.30 uint8_t unpack_qos_swiQosFlow_t::val_3GPPSigInd

8.1318.2.31 uint8_t unpack_qos_swiQosFlow_t::val_3GPPTraHdlPri

8.1319 unpack_qos_tokenBucket_t Struct Reference

Data Fields

- uint32_t peakRate
- uint32_t tokenRate
- uint32_t bucketSz

8.1319.1 Detailed Description

This structure contains the TP flow data rate token bucket

Parameters

peakRate	Maximum rate at which data can be transmitted when the token bucket is full (bits per second)
tokenRate	Rate at which tokens will be put in the token bucket (bits per second); a token is required to be present in the bucket to send a byte of data
bucketSz	Maximum number of tokens that can be accumulated at any instance (bytes); controls the size of the burst that is allowed at any given time

8.1319.2 Field Documentation

8.1319.2.1 uint32_t unpack_qos_tokenBucket_t::bucketSz

8.1319.2.2 uint32_t unpack_qos_tokenBucket_t::peakRate

8.1319.2.3 uint32_t unpack_qos_tokenBucket_t::tokenRate

8.1320 unpack_qos_Tos_t Struct Reference

Data Fields

- uint8_t val
- uint8_t mask

8.1320.1 Detailed Description

This structure contains the IPv4 filter type of service

Parameters

val	Type of service value
mask	Packet matches the TOS filter if: (IPv4_filter_tos_val and IPv4_filter_tos_mask) == (TOS value in the IP packet & IPv4_filter_tos_mask) Example: • IPv4_filter_tos_val = 00101000 • IPv4_filter_tos_mask = 11111100 The filter will compare only the first 6 bits in the IPv4_filter_-type_of_service with the first 6 bits in the TOS field of the IP packet. The first 6 bits in the TOS field of the IP packet must be 001010 to match the filter. The last 2 bits can be anything since they are ignored by filtering.

8.1320.2 Field Documentation

8.1320.2.1 uint8_t unpack_qos_Tos_t::mask

8.1320.2.2 uint8_t unpack_qos_Tos_t::val

8.1321 unpack_QosFlowStat_t Struct Reference

Data Fields

- uint32_t bearerId
- uint32_t tx_pkt
- uint32_t tx_pkt_drp
- uint64_t tx_bytes
- uint64_t tx_bytes_drp

8.1321.1 Detailed Description

This structure contains the Data statistic per QoS flow

Parameters

bearerId	• Bearer ID
tx_pkt	• number of sent packets for the QoS flow ID
tx_pkt_drp	• number of dropped(TX) packets for the QoS flow ID
tx_bytes	• number of sent bytes for the QoS flow ID
tx_bytes_drp	• number of dropped(TX) bytes for the QoS flow ID

8.1321.2 Field Documentation

8.1321.2.1 uint32_t unpack_QosFlowStat_t::bearerId

8.1321.2.2 uint64_t unpack_QosFlowStat_t::tx_bytes

8.1321.2.3 uint64_t unpack_QosFlowStat_t::tx_bytes_drp

8.1321.2.4 uint32_t unpack_QosFlowStat_t::tx_pkt

8.1321.2.5 uint32_t unpack_QosFlowStat_t::tx_pkt_drp

8.1322 unpack_result_t Struct Reference

Data Fields

- uint16_t Tlvresult
- swi_uint256_t ParamPresenceMask

8.1322.1 Detailed Description

unpack result struct

Parameters

out	*Tlvresult*	
out	*ParamPresence-Mask*	Parameter presence bit mask

8.1322.2 Field Documentation

8.1322.2.1 swi_uint256_t unpack_result_t::ParamPresenceMask

8.1322.2.2 uint16_t unpack_result_t::Tlvresult

8.1323 unpack_rms_GetSMSWake_t Struct Reference

Data Fields

- uint32_t enabled
- uint32_t wake_mask

8.1323.1 Detailed Description

Unpack get SMS wake parameters

Parameters

enabled	• SMS wake functionality enabled – 0 - Disabled – 1 - Enabled – 0xffffffff - invalid value.
wake_mask	• SMS wake mask to search for incoming messages (only relevant when enabled)

8.1323.2 Field Documentation

8.1323.2.1 uint32_t unpack_rms_GetSMSWake_t::enabled

8.1323.2.2 uint32_t unpack_rms_GetSMSWake_t::wake_mask

8.1324 unpack_RMTransferStatistics_ind_t Struct Reference

Data Fields

- wds_DataULongTlv TxOkConutTlv
- wds_DataULongTlv RxOkConutTlv
- wds_DataULongLongTlv TxOkByteCountTlv
- wds_DataULongLongTlv RxOkByteCountTlv
- wds_DataULongTlv TxDropConutTlv
- wds_DataULongTlv RxDropConutTlv

8.1324.1 Detailed Description

WDS packet RM Transfer Statistics data structure for individual session

Parameters

TxOkConutTlv	• Tx Ok Packet Tlv Value.
RxOkConutTlv	• Rx Ok Packet Tlv Value.
TxOkByteCount-Tlv	• Tx Ok Byte Count Packet Tlv Value.
RxOkByteCount-Tlv	• Rx Ok Byte Count Packet Tlv Value.
TxDropConutTlv	• Tx Drop Count Packet Tlv Value.
RxDropConutTlv	• Rx Drop Count Packet Tlv Value.

8.1324.2 Field Documentation

8.1324.2.1 wds_DataULongTlv unpack_RMTransferStatistics_ind_t::RxDropConutTlv

8.1324.2.2 wds_DataULongLongTlv unpack_RMTransferStatistics_ind_t::RxOkByteCountTlv

8.1324.2.3 wds_DataULongTlv unpack_RMTransferStatistics_ind_t::RxOkConutTlv

8.1324.2.4 wds_DataULongTlv unpack_RMTransferStatistics_ind_t::TxDropConutTlv

8.1324.2.5 wds_DataULongLongTlv unpack_RMTransferStatistics_ind_t::TxOkByteCountTlv

8.1324.2.6 wds_DataULongTlv unpack_RMTransferStatistics_ind_t::TxOkConutTlv

8.1325 unpack_sar_SLQSGetRfSarState_t Struct Reference

Data Fields

- uint32_t * pSarRFState

8.1325.1 Detailed Description

This structure contains unpack get RF SAR state parameter.

Parameters

pSarRFState	• SAR RF State – QMI_SAR_RF_STATE_DEFAULT – QMI_SAR_RF_STATE_1 – QMI_SAR_RF_STATE_2 – QMI_SAR_RF_STATE_3 – QMI_SAR_RF_STATE_4 – QMI_SAR_RF_STATE_5 – QMI_SAR_RF_STATE_6 – QMI_SAR_RF_STATE_7 – QMI_SAR_RF_STATE_8 • NULL pointer - Invalid data.

8.1325.2 Field Documentation

8.1325.2.1 uint32_t∗ unpack_sar_SLQSGetRfSarState_t::pSarRFState

8.1326 unpack_sms_GetSMSCAddress_t Struct Reference

Data Fields

- uint8_t addressSize
- uint8_t ∗ pSMSCAddress
- uint8_t typeSize
- uint8_t ∗ pSMSCType

8.1326.1 Detailed Description

Structure contains Gets the SMS center address parameters.

Parameters

addressSize	• The maximum number of characters (including NULL terminator) that the SMS center address array can contain.
pSMSCAddress	• The SMS center address represented as a NULL terminated string.
typeSize	• The maximum number of characters (including NULL terminator) that the SMS center address type array can contain.
pSMSCType	• The SMS center address type represented as a NULL terminated string.

8.1326.2 Field Documentation

8.1326.2.1 uint8_t unpack_sms_GetSMSCAddress_t::addressSize

8.1326.2.2 uint8_t* unpack_sms_GetSMSCAddress_t::pSMSCAddress

8.1326.2.3 uint8_t* unpack_sms_GetSMSCAddress_t::pSMSCType

8.1326.2.4 uint8_t unpack_sms_GetSMSCAddress_t::typeSize

8.1327 unpack_sms_SaveSMS_t Struct Reference

Data Fields

- uint32_t * pMessageIndex

8.1327.1 Detailed Description

This structure contains unpack save SMS parameter.

Parameters

pMessageIndex	• The message index assigned by the device

8.1327.2 Field Documentation

8.1327.2.1 uint32_t* unpack_sms_SaveSMS_t::pMessageIndex

8.1328 unpack_sms_SendSMS_t Struct Reference

Data Fields

- uint16_t messageID
- uint32_t messageFailureCode

8.1328.1 Detailed Description

This structure contains unpack send SMS parameters.

Parameters

messageID	• WMS message ID
messageFailure-Code	• pointer to message failure code. If cause code is not provided, then value will be 0xFFFFFFFF

8.1328.2 Field Documentation

8.1328.2.1 uint32_t unpack_sms_SendSMS_t::messageFailureCode

8.1328.2.2 uint16_t unpack_sms_SendSMS_t::messageID

8.1329 unpack_sms_SetNewSMSCallback_ind_t Struct Reference

Data Fields

- newMTMessageTlv NewMMTlv
- transferRouteMessageTlv TRMessageTlv
- messageModeTlv MMTlv
- sMSEtwsMessageTlv ETWSTlv
- eTWSPLMNInfoTlv ETWSPLMNTlv
- sMSCAddressTlv SMSCTlv
- sMSOnIMSTlv IMSTlv

8.1329.1 Detailed Description

This structure contains unpack new SMS callback indication.

Parameters

NewMMTlv	• MT message
TRMessageTlv	• Transfer Route MT Message • See transferRouteMessageTlv for more information
MMTlv	• Message mode • See messageModeTlv for more information
ETWSTlv	• ETWS Message • See sMSEtwsMessageTlv for more information
ETWSPLMNTlv	• ETWS PLMN Information • See eTWSPLMNInfoTlv for more information
SMSCTlv	• SMSC Address • See sMSCAddressTlv for more information
IMSTlv	• SMS on IMS • See sMSOnIMSTlv for more information

8.1329.2 Field Documentation

8.1329.2.1 eTWSPLMNInfoTlv unpack_sms_SetNewSMSCallback_ind_t::ETWSPLMNTlv

8.1329.2.2 sMSEtwsMessageTlv unpack_sms_SetNewSMSCallback_ind_t::ETWSTlv

8.1329.2.3 sMSOnIMSTlv unpack_sms_SetNewSMSCallback_ind_t::IMSTlv

8.1329.2.4 messageModeTlv unpack_sms_SetNewSMSCallback_ind_t::MMTlv

8.1329.2.5 newMTMessageTlv unpack_sms_SetNewSMSCallback_ind_t::NewMMTlv

8.1329.2.6 sMSCAddressTlv unpack_sms_SetNewSMSCallback_ind_t::SMSCTlv

8.1329.2.7 transferRouteMessageTlv unpack_sms_SetNewSMSCallback_ind_t::TRMessageTlv

8.1330 unpack_sms_SetNewSMSCallback_t Struct Reference

8.1330.1 Detailed Description

This structure contains unpack set new SMS callback.

Parameters

NULL	dummy prototype.

8.1331 unpack_sms_SLQSDeleteSMS_t Struct Reference

8.1331.1 Detailed Description

This structure contains unpack delete SMS parameters.

Parameters

NULL	unpack prototype.

8.1332 unpack_sms_SLQSGetIndicationRegister_t Struct Reference

Data Fields

- sms_getIndicationReg * pGetIndicationRegInfo

8.1332.1 Detailed Description

Structure containing Parameters that provides registration state of different WMS indications.

Parameters

pGetIndication-RegInfo	• Pointer to structure of getIndicationReg – See sms_getIndicationReg for more information

8.1332.2 Field Documentation

8.1332.2.1 sms_getIndicationReg* unpack_sms_SLQSGetIndicationRegister_t::pGetIndicationRegInfo

8.1333 unpack_sms_SLQSGetMessageWaiting_t Struct Reference

Data Fields

- sms_getMsgWaitingInfo * pGetMsgWaitingInfoResp

8.1333.1 Detailed Description

Structure contain Parameter that provide information about the message waiting information.

Parameters

pGetMsg-WaitingInfoResp	• Pointer to structure of getMsgWaitingInfoResp – See sms_getMsgWaitingInfo for more information • NULL pointer - Invalid data.

8.1333.2 Field Documentation

8.1333.2.1 sms_getMsgWaitingInfo* unpack_sms_SLQSGetMessageWaiting_t::pGetMsgWaitingInfoResp

8.1334 unpack_sms_SLQSGetSMS_t Struct Reference

Data Fields

- uint32_t messageTag
- uint32_t messageFormat
- uint32_t messageSize
- uint8_t message [2048]

8.1334.1 Detailed Description

This sturcture contains unpack get SMS parameters.

Parameters

messageTag	• Message tag – 0 - Read – 1 - Not read – 2 - Mobile originated and sent – 3 - Mobile originated but not yet sent

messageFormat	• Message format – 0 - CDMA (IS-637B) – 1 - 5 (Reserved) – 6 - GSM/WCDMA PP
messageSize	• Upon input the maximum number of bytes that can be written to the message array.

- Upon successful output the actual number of bytes written to the message array.

Parameters

message	• The message contents array

8.1334.2 Field Documentation

8.1334.2.1 uint8_t unpack_sms_SLQSGetSMS_t::message[2048]

8.1334.2.2 uint32_t unpack_sms_SLQSGetSMS_t::messageFormat

8.1334.2.3 uint32_t unpack_sms_SLQSGetSMS_t::messageSize

8.1334.2.4 uint32_t unpack_sms_SLQSGetSMS_t::messageTag

8.1335 unpack_sms_SLQSGetSmsBroadcastConfig_t Struct Reference

Data Fields

- sms_qaQmi3GPPBroadcastCfgInfo * pBroadcastConfig
- sms_qaQmi3GPP2BroadcastCfgInfo * pCDMABroadcastConfig

8.1335.1 Detailed Description

Structure contain parameters that Provides Information about the SMS BroadcastConfiguration

Parameters

pBroadcast-Config	• The data for 3GPP Broadcast Information(Optional). • NULL pointer - Invalid data.
pCDMA-BroadcastConfig	• The data for 3GPP2 Broadcast Information(Optional). • NULL pointer - Invalid data.

8.1335.2 Field Documentation

8.1335.2.1 sms_qaQmi3GPPBroadcastCfgInfo* unpack_sms_SLQSGetSmsBroadcastConfig_t::pBroadcastConfig

8.1335.2.2 sms_qaQmi3GPP2BroadcastCfgInfo* unpack_sms_SLQSGetSmsBroadcastConfig_t::pCDMABroadcast-Config

8.1336 unpack_sms_SLQSGetSMSList_t Struct Reference

Data Fields

- uint32_t messageListSize
- qmiSmsMessageList messageList [255]

8.1336.1 Detailed Description

This structure contains unpack get SMS list parameters.

Parameters

messageListSize	• Upon input the maximum number of elements that the message list array can contain. • Upon successful output the actual number of elements in the message list array.
messageList	• Message List • See qmiSmsMessageList for more information

8.1336.2 Field Documentation

8.1336.2.1 qmiSmsMessageList unpack_sms_SLQSGetSMSList_t::messageList[255]

8.1336.2.2 uint32_t unpack_sms_SLQSGetSMSList_t::messageListSize

8.1337 unpack_sms_SLQSGetTransLayerInfo_t Struct Reference

Data Fields

- sms_getTransLayerInfo * pGetTransLayerInfo

8.1337.1 Detailed Description

Structure contain parameters that gives information about the transport layer.

Parameters

pGetTransLayer-Info	• Pointer to structure of getTransLayerInfo – See sms_getTransLayerInfo for more information

8.1337.2 Field Documentation

8.1337.2.1 sms_getTransLayerInfo* unpack_sms_SLQSGetTransLayerInfo_t::pGetTransLayerInfo

8.1338 unpack_sms_SLQSGetTransNWRegInfo_t Struct Reference

Data Fields

- sms_getTransNWRegInfo * pGetTransNWRegInfo

8.1338.1 Detailed Description

Structure containing parameters that provides transport layer network registration info.

Parameters

pGetTransNW-RegInfo	• Pointer to structure of getTransNWRegInfo – See sms_getTransNWRegInfo for more information

8.1338.2 Field Documentation

8.1338.2.1 sms_getTransNWRegInfo* unpack_sms_SLQSGetTransNWRegInfo_t::pGetTransNWRegInfo

8.1339 unpack_sms_SLQSModifySMSStatus_t Struct Reference

8.1339.1 Detailed Description

This structure contains unpack modify SMS status parameters.

Parameters

NULL	unpack prototype.

8.1340 unpack_sms_SLQSNWRegInfoCallback_ind_t Struct Reference

Data Fields

- uint8_t NWRegStat

8.1340.1 Detailed Description

Contains the parameters passed for indication about transport network registration change by the device.

Parameters

NWRegStat	• provides the transport network registration information • Values: – 0x00 - No Service – 0x01 - In Progress – 0x02 - Failed – 0x03 - Limited Service – 0x04 - Full Service

Note

None

8.1340.2 Field Documentation

8.1340.2.1 uint8_t unpack_sms_SLQSNWRegInfoCallback_ind_t::NWRegStat

8.1341 unpack_sms_SLQSSmsGetMaxStorageSize_t Struct Reference

Data Fields

- sms_maxStorageSizeResp * pMaxStorageSizeResp

8.1341.1 Detailed Description

Structure contain parameters that provides the maximum number of messages that can be stored in the specified memory storage. Also it provides the number of slots currently available

Parameters

pMaxStorage-SizeResp	• Response parameters for SmsSLQSGetMaxStorageSize – See sms_maxStorageSizeResp for more information • NULL pointer - Invalid data.

8.1341.2 Field Documentation

8.1341.2.1 sms_maxStorageSizeResp* unpack_sms_SLQSSmsGetMaxStorageSize_t::pMaxStorageSizeResp

8.1342 unpack_sms_SLQSSmsGetMessageProtocol_t Struct Reference

Data Fields

- sms_msgProtocolResp * pMessageProtocol

8.1342.1 Detailed Description

Structure contain Parameters that get the message protocol currently in use for the WMS client.

Parameters

pMessage-Protocol	• Pointer to smsMsgprotocolResp – See sms_msgProtocolResp for more information

8.1342.2 Field Documentation

8.1342.2.1 sms_msgProtocolResp* unpack_sms_SLQSSmsGetMessageProtocol_t::pMessageProtocol

8.1343 unpack_sms_SLQSSwiGetSMSStorage_t Struct Reference

Data Fields

- uint32_t * pSmsStorage

8.1343.1 Detailed Description

Structure contain Parameters that return current SMS configuration that is applied to all incoming and outgoing messages.

Parameters

pSmsStorage	• Values: – 0x01 - device's permanent memory – 0x02 - UICC • NULL pointer - Invalid data.

8.1343.2 Field Documentation

8.1343.2.1 uint32_t* unpack_sms_SLQSSwiGetSMSStorage_t::pSmsStorage

8.1344 unpack_sms_SLQSTransLayerInfoCallback_ind_t Struct Reference

Data Fields

- uint8_t regInd
- sms_transLayerInfo * pTransLayerInfo

8.1344.1 Detailed Description

Contains the parameters passed for the indication about change in transport layer information

Parameters

regInd	• Indicates whether the transport layer is registered or not • Values: – 0x00 - Transport layer is not registered – 0x01 - Transport layer is registered
pTransLayerInfo	• Optional parameter • NULL when response Transport layer information TLV field absent • See sms_transLayerInfo for more information

Note

None

8.1344.2 Field Documentation

8.1344.2.1 sms_transLayerInfo* unpack_sms_SLQSTransLayerInfoCallback_ind_t::pTransLayerInfo

8.1344.2.2 uint8_t unpack_sms_SLQSTransLayerInfoCallback_ind_t::regInd

8.1345 unpack_sms_SLQSWmsAsyncRawSendCallBack_ind_t Struct Reference

Data Fields

- uint16_t sendStatus
- uint16_t messageID
- uint16_t causeCode
- uint8_t errorClass
- uint16_t RPCause
- uint8_t TPCause
- uint8_t msgDelFailureType
- uint8_t msgDelFailureCause
- uint8_t alphaIDLen
- uint8_t * pAlphaID
- uint32_t userData

8.1345.1 Detailed Description

This structure contains SMS parameters for indication of RAW ASYNC SEND

Parameters

sendStatus	• Send Status • Values: – QMI_ERR_NONE – No error in the request – QMI_ERR_CAUSE_CODE - SMS cause code – QMI_ERR_MESSAGE_DELIVERY_FAILURE - Message could not be delivered – QMI_ERR_NO_MEMORY - Device could not allocate memory to formulate a response

messageID	• Unique ID assigned by WMS for non-retry messages.
causeCode	• WMS cause code
errorClass	• Error Class • Values: – 0x00 - ERROR_CLASS_TEMPORARY – 0x01 - ERROR_CLASS_PERMANENT
RPCause	• GW RP cause
TPCause	• GW TP Cause
msgDelFailure-Type	• Message delivery failure type • Values: – 0x00 - WMS_MESSAGE_DELIVERY_FAILURE_TEMPORARY – 0x01 - WMS_MESSAGE_DELIVERY_FAILURE_PERMANENT
msgDelFailure-Cause	• Message delivery failure cause • Values: – 0x00 - WMS_MESSAGE_BLOCKED_DUE_TO_CALL_CONTROL
alphaIDLen	• Number of sets of the pAlphaID
pAlphaID	• Alpha ID • NULL when Alpha ID information TLV field absent
userData	• Identifies the request associated with this indication.

8.1345.2 Field Documentation

8.1345.2.1 uint8_t unpack_sms_SLQSWmsAsyncRawSendCallBack_ind_t::alphaIDLen

8.1345.2.2 uint16_t unpack_sms_SLQSWmsAsyncRawSendCallBack_ind_t::causeCode

8.1345.2.3 uint8_t unpack_sms_SLQSWmsAsyncRawSendCallBack_ind_t::errorClass

8.1345.2.4 uint16_t unpack_sms_SLQSWmsAsyncRawSendCallBack_ind_t::messageID

8.1345.2.5 uint8_t unpack_sms_SLQSWmsAsyncRawSendCallBack_ind_t::msgDelFailureCause

8.1345.2.6 uint8_t unpack_sms_SLQSWmsAsyncRawSendCallBack_ind_t::msgDelFailureType

8.1345.2.7 uint8_t* unpack_sms_SLQSWmsAsyncRawSendCallBack_ind_t::pAlphaID

8.1345.2.8 uint16_t unpack_sms_SLQSWmsAsyncRawSendCallBack_ind_t::RPCause

8.1345.2.9 uint16_t unpack_sms_SLQSWmsAsyncRawSendCallBack_ind_t::sendStatus

8.1345.2.10 uint8_t unpack_sms_SLQSWmsAsyncRawSendCallBack_ind_t::TPCause

8.1345.2.11 uint32_t unpack_sms_SLQSWmsAsyncRawSendCallBack_ind_t::userData

8.1346 unpack_sms_SLQSWmsMemoryFullCallBack_ind_t Struct Reference

Data Fields

- uint8_t storageType
- uint8_t messageMode

8.1346.1 Detailed Description

This structure contains unpack SMS memory full callback indication.

Parameters

storageType	• SMS message storage type – 0 - UIM - Invalid in case of CDMA device that does not require SIM – 1 - NV
messageMode	• 0x00 - CDMA, LTE (if network type is CDMA) • 0x01 - GW, LTE (if network type is UMTS)

8.1346.2 Field Documentation

8.1346.2.1 uint8_t unpack_sms_SLQSWmsMemoryFullCallBack_ind_t::messageMode

8.1346.2.2 uint8_t unpack_sms_SLQSWmsMemoryFullCallBack_ind_t::storageType

8.1347 unpack_sms_SLQSWmsMessageWaitingCallBack_ind_t Struct Reference

Data Fields

- uint8_t numInstances
- sms_messageWaitingInfoContent msgWaitInfo [0xFF]

8.1347.1 Detailed Description

This structure holds information related to message waiting information indication

Parameters

numInstances	• Number of sets of the elements in structure sms_messageWaitingInfoContent
msgWaitInfo	• Pointer to structure of sms_messageWaitingInfoContent. – See sms_messageWaitingInfoContent for more information.

8.1347.2 Field Documentation

8.1347.2.1 sms_messageWaitingInfoContent unpack_sms_SLQSWmsMessageWaitingCallBack_ind_t::msgWaitInfo[0xFF]

8.1347.2.2 uint8_t unpack_sms_SLQSWmsMessageWaitingCallBack_ind_t::numInstances

8.1348 unpack_swidms_SLQSSwiDmsGetMTU_t Struct Reference

Data Fields

- swidms_mtuSize3gppTlv * pMTUSize3gpp
- swidms_hrpdMTUSizeTlv * pHrpdMTUSize
- swidms_ehrpdMTUSizeTlv * pEhrpdMTUSize
- swidms_usbMTUSizeTlv * pUsbMTUSize

8.1348.1 Detailed Description

This structure contains the Get MTU Response parameter.

Parameters

pMTUSize3gpp	[Optional] • See swidms_mtuSize3gppTlv for more information
pHrpdMTUSize	[Optional] • See swidms_hrpdMTUSizeTlv for more information
pEhrpdMTUSize	[Optional] • See swidms_ehrpdMTUSizeTlv for more information
pUsbMTUSize	[Optional] • See swidms_usbMTUSizeTlv for more information

8.1348.2 Field Documentation

8.1348.2.1 swidms_ehrpdMTUSizeTlv* unpack_swidms_SLQSSwiDmsGetMTU_t::pEhrpdMTUSize

8.1348.2.2 swidms_hrpdMTUSizeTlv* unpack_swidms_SLQSSwiDmsGetMTU_t::pHrpdMTUSize

8.1348.2.3 swidms_mtuSize3gppTlv* unpack_swidms_SLQSSwiDmsGetMTU_t::pMTUSize3gpp

8.1348.2.4 swidms_usbMTUSizeTlv* unpack_swidms_SLQSSwiDmsGetMTU_t::pUsbMTUSize

8.1349 unpack_swidms_SLQSSwiDmsGetUsbNetNum_t Struct Reference

Data Fields

- uint8_t usbNetNum

8.1349.1 Detailed Description

This structure contains usb net numbers to get from remote endpoint for QMAP configuration

Parameters

usbNetNum	• value of usb net numbers on the device

8.1349.2 Field Documentation

8.1349.2.1 uint8_t unpack_swidms_SLQSSwiDmsGetUsbNetNum_t::usbNetNum

8.1350 unpack_swidms_SLQSSwiDmsSetMTU_t Struct Reference

Data Fields

- uint16_t Tlvresult

8.1350.1 Detailed Description

This structure is used to store unpack_swidms_SLQSSwiDmsSetMTU_t parameters.

Parameters

Tlvresult	• unpack Tlv result

8.1350.2 Field Documentation

8.1350.2.1 uint16_t unpack_swidms_SLQSSwiDmsSetMTU_t::Tlvresult

8.1351 unpack_swiloc_SwiLocGetAutoStart_t Struct Reference

Data Fields

- uint8_t function
- int function_reported
- uint8_t fix_type
- int fix_type_reported
- uint8_t max_time
- int max_time_reported

- uint32_t max_dist
- int max_dist_reported
- uint32_t fix_rate
- int fix_rate_reported
- swi_uint256_t ParamPresenceMask

8.1351.1 Detailed Description

This structure contains SWI LOC Get Auto Start setting

Parameters

function	• Setting to indicate when modem should start an automatic GNSS fix – 0 - disabled – 1 - At bootup – 2 - When NMEA port is opened • Bit to check in ParamPresenceMask - **16**
function_reported	• 0 - not reported by modem • I - reported by modem
fix_type	• Type of GNSS fix: – 1 - Default Engine mode – 2 - MS-Based – 3 - MS-Assisted – 4 - Standalone • Bit to check in ParamPresenceMask - **17**
fix_type_reported	• 0 - not reported by modem • I - reported by modem
max_time	• Maximum time allowed for the receiver to get a fix in seconds • Valid range: 1-255 • Bit to check in ParamPresenceMask - **18**
max_time_reported	• 0 - not reported by modem • I - reported by modem
max_dist	• Maximum uncertainty of a fix measured by distance in meters • Valid range: 1 - 4294967280 • Bit to check in ParamPresenceMask - **19**
max_dist_reported	• 0 - not reported by modem • I - reported by modem

fix_rate	• Time between fixes in seconds • Valid range: 1–65535 • Bit to check in ParamPresenceMask - **20**
fix_rate_reported	• 0 - not reported by modem • I - reported by modem

8.1351.2 Field Documentation

8.1351.2.1 uint32_t unpack_swiloc_SwiLocGetAutoStart_t::fix_rate

8.1351.2.2 int unpack_swiloc_SwiLocGetAutoStart_t::fix_rate_reported

8.1351.2.3 uint8_t unpack_swiloc_SwiLocGetAutoStart_t::fix_type

8.1351.2.4 int unpack_swiloc_SwiLocGetAutoStart_t::fix_type_reported

8.1351.2.5 uint8_t unpack_swiloc_SwiLocGetAutoStart_t::function

8.1351.2.6 int unpack_swiloc_SwiLocGetAutoStart_t::function_reported

8.1351.2.7 uint32_t unpack_swiloc_SwiLocGetAutoStart_t::max_dist

8.1351.2.8 int unpack_swiloc_SwiLocGetAutoStart_t::max_dist_reported

8.1351.2.9 uint8_t unpack_swiloc_SwiLocGetAutoStart_t::max_time

8.1351.2.10 int unpack_swiloc_SwiLocGetAutoStart_t::max_time_reported

8.1351.2.11 swi_uint256_t unpack_swiloc_SwiLocGetAutoStart_t::ParamPresenceMask

8.1352 unpack_swioma_SLQSOMADMAlertCallback_ind_t Struct Reference

Data Fields

- uint32_t eventType
- unpack_omaDmFotaTlv_t SessionInfoFota
- unpack_omaDmConfigTlv_t SessionInfoConfig
- unpack_omaDmNotificationsTlv_t SessionInfoNotification

8.1352.1 Detailed Description

Structure that contains OMA indication information based on eventType Strucutres for which the event is not valid will have values set to 0

Parameters

eventType	• 0x00 - SWIOMA-DM FOTA • 0x01 - SWIOMA-DM Config • 0x02 - SWIOMA-DM Notification • 0xff - indication missing event information.
SessionInfo-Fota[OUT]	• See unpack_omaDmFotaTlv_t for more information
SessionInfo-Config[OUT]	• See unpack_omaDmConfigTlv_t for more information
SessionInfo-Notification[OUT]	• See unpack_omaDmNotificationsTlv_t for more information

8.1352.2 Field Documentation

8.1352.2.1 uint32_t unpack_swioma_SLQSOMADMAlertCallback_ind_t::eventType

8.1352.2.2 unpack_omaDmConfigTlv_t unpack_swioma_SLQSOMADMAlertCallback_ind_t::SessionInfoConfig

8.1352.2.3 unpack_omaDmFotaTlv_t unpack_swioma_SLQSOMADMAlertCallback_ind_t::SessionInfoFota

8.1352.2.4 unpack_omaDmNotificationsTlv_t unpack_swioma_SLQSOMADMAlertCallback_ind_t::SessionInfo-Notification

8.1353 unpack_swioma_SLQSOMADMGetSessionInfo_t Struct Reference

Data Fields

- uint8_t Status
- uint16_t UpdateCompleteStatus
- uint8_t Severity
- uint16_t SourceLength
- uint8_t Source [255]
- uint16_t PkgNameLength
- uint8_t PkgName [255]
- uint16_t PkgDescLength
- uint8_t PkgDescription [255]
- uint16_t DateLength
- uint8_t Date [255]
- uint16_t TimeLength
- uint8_t Time [255]
- uint8_t SessionType
- uint8_t SessionState
- uint16_t RetryCount

8.1353.1 Detailed Description

Structure that contains the session type for OMA get session info unpack command Also used as input parameter to specify the size of variable parameters. (ref. notes)

Parameters

Status	• 1 Byte parameter indicating status – 0x01 - No Firmware available – 0x02 - Query Firmware Download – 0x03 - Firmware Downloading – 0x04 - Firmware Downloaded – 0x05 - Query Firmware Update – 0x06 - Firmware Updating – 0x07 - Firmware Updated – 0xff - Invalid Session information.
Update-CompleteStatus	• 2 byte parameter indicating Update Complete Status – See qaGobiApiTableSwiOMADMUpdateCompleteStatus.h Update Complete Status
Severity	• 1 byte parameter indicating severity – 0x01 - Mandatory – 0x02 - Optional
SourceLength	• 2 byte parameter indicating Length of Vendor Name String in Bytes.
Source	• Variable length parameter indicating Vendor Name in ASCII • See LITEQMI_MAX_SWIOMA_STR_LEN for more information
PkgNameLength	• 2 byte parameter indicating Length of Package Name String in Bytes.
PkgName	• Variable length parameter indicating Package Name in ASCII • See LITEQMI_MAX_SWIOMA_STR_LEN for more information
PkgDescLength	• 2 byte parameter indicating Length of Package Description String in Bytes.
PkgDescription	• Variable length parameter indicating Package Description in ASCII • See LITEQMI_MAX_SWIOMA_STR_LEN for more information
DateLength	• 2 byte parameter indicating Length of Package Description String in Bytes.
Date	• Variable length parameter indicating Package Description in ASCII • See LITEQMI_MAX_SWIOMA_STR_LEN for more information
TimeLength	• 2 byte parameter indicating Length of Time String in Bytes.

Time	• Variable length parameter indicating Time String in ASCII • See LITEQMI_MAX_SWIOMA_STR_LEN for more information
SessionType	• 1 byte parameter reflects the last session started for Sprint – 0x00 - No session since boot – 0x01 - Sprint CI-DC Session – 0x02 - Sprint CI-PRL Session – 0x03 - Sprint CI-FUMO Session – 0x04 - Sprint HFA-DC Session – 0x05 - Sprint HFA-PRL Session – 0x06 - Sprint HFA-FUMO Session – 0x07 - Sprint NI Session
SessionState	• 1 byte parameter indicating session state – 0x01 - idle – 0x02 - active – 0x03 - pending
RetryCount	• 1 byte parameter indicating retries left count – valid values 0 to 6

8.1353.2 Field Documentation

8.1353.2.1 uint8_t unpack_swioma_SLQSOMADMGetSessionInfo_t::Date[255]

8.1353.2.2 uint16_t unpack_swioma_SLQSOMADMGetSessionInfo_t::DateLength

8.1353.2.3 uint16_t unpack_swioma_SLQSOMADMGetSessionInfo_t::PkgDescLength

8.1353.2.4 uint8_t unpack_swioma_SLQSOMADMGetSessionInfo_t::PkgDescription[255]

8.1353.2.5 uint8_t unpack_swioma_SLQSOMADMGetSessionInfo_t::PkgName[255]

8.1353.2.6 uint16_t unpack_swioma_SLQSOMADMGetSessionInfo_t::PkgNameLength

8.1353.2.7 uint16_t unpack_swioma_SLQSOMADMGetSessionInfo_t::RetryCount

8.1353.2.8 uint8_t unpack_swioma_SLQSOMADMGetSessionInfo_t::SessionState

8.1353.2.9 uint8_t unpack_swioma_SLQSOMADMGetSessionInfo_t::SessionType

8.1353.2.10 uint8_t unpack_swioma_SLQSOMADMGetSessionInfo_t::Severity

8.1353.2.11 uint8_t unpack_swioma_SLQSOMADMGetSessionInfo_t::Source[255]

8.1353.2.12 uint16_t unpack_swioma_SLQSOMADMGetSessionInfo_t::SourceLength

8.1353.2.13 uint8_t unpack_swioma_SLQSOMADMGetSessionInfo_t::Status

8.1353.2.14 uint8_t unpack_swioma_SLQSOMADMGetSessionInfo_t::Time[255]

8.1353.2.15 uint16_t unpack_swioma_SLQSOMADMGetSessionInfo_t::TimeLength

8.1353.2.16 uint16_t unpack_swioma_SLQSOMADMGetSessionInfo_t::UpdateCompleteStatus

8.1354 unpack_swioma_SLQSOMADMGetSettings_t Struct Reference

Data Fields

- uint32_t OMADMEnabled
- uint8_t FOTAdownload
- uint8_t FOTAUpdate
- uint8_t Autosdm
- uint8_t FwAutoCheck

8.1354.1 Detailed Description

Structure containing the OMA DM settings retrieved from the device

Parameters

OMADMEnabled	[out] • Optional 4 byte parameter indicating OMADM service enabled – 0x00000001 - Client-initiated device configuration – 0x00000002 - Network-initiated device configuration – 0x00000010 - Client-initiated FUMO – 0x00000020 - Network-initiated FUMO • function SLQSOMADMGetSettings2() returns a default value 0xFFFFFFFF in case this parameter is not returned by the modem.
FOTAdownload	[out] • Optional 1 Byte parameter indicating support for FOTA Automatic download – 0x00 - Host permission required before downloading – 0x01 - Automatically start downloading, no host permission required – 0x02 - Automatically start downloading, while not roaming – 0x03 - Automatically reject download – 0x04 - Automatically reject download with “Enterprise Reject Policy – 0xff - Invalid data.

- function SLQSOMADMGetSettings2() returns a default value 0xFF in case this parameter is not returned by the modem.

Parameters

FOTAUpdate	[out] • Optional 1 byte parameter indicating FOTA Automatic update – 0x00 - User permission required before updating firmware – 0x01 - No user permission required before updating firmware – 0x02 - User permission required, auto update on power up • function SLQSOMADMGetSettings2() returns a default value 0xFF in case this parameter is not returned by the modem.
Autosdm	[out] • Optional 1 byte parameter indicating OMA Automatic UI Alert Response – 0x00 - Disabled – 0x01 - Enabled Accept – 0x02 - Enabled Reject • function SLQSOMADMGetSettings2() returns a default value 0xFF in case this parameter is not returned by the modem.
FwAutoCheck	[out] • Optional 1 byte parameter indicating OMA Automatic Check for Firmware Update on Power-Up Response – 0x00 - Disabled – 0x01 - Enabled • function SLQSOMADMGetSettings2() returns a default value 0xFF in case this parameter is not returned by the modem.

8.1354.2 Field Documentation

8.1354.2.1 uint8_t unpack_swioma_SLQSOMADMGetSettings_t::Autosdm

8.1354.2.2 uint8_t unpack_swioma_SLQSOMADMGetSettings_t::FOTAdownload

8.1354.2.3 uint8_t unpack_swioma_SLQSOMADMGetSettings_t::FOTAUpdate

8.1354.2.4 uint8_t unpack_swioma_SLQSOMADMGetSettings_t::FwAutoCheck

8.1354.2.5 uint32_t unpack_swioma_SLQSOMADMGetSettings_t::OMADMEnabled

8.1355 unpack_swioma_SLQSOMADMStartSession_t Struct Reference

Data Fields

- uint32_t FwAvailability

8.1355.1 Detailed Description

Structure that contains the responses for OMA start session command

Parameters

FwAvailability	[out] • OMA-DM CHECK FW Available – 0x00000001 - FW Available. For CIDC and CIPRL, this value will be returned by the modem. CIDC and CIPRL are asynchronous OMADM sessions. – 0x00000002 - FW Not Available – 0x00000003 - FW Check Timed Out – 0xFFFFFFFF - Invalid data.

8.1355.2 Field Documentation

8.1355.2.1 uint32_t unpack_swioma_SLQSOMADMStartSession_t::FwAvailability

8.1356 unpack_uim_ChangePin_t Struct Reference

Data Fields

- uim_remainingRetries * pRemainingRetries
- uim_encryptedPIN1 * pEncryptedPIN1
- uint32_t * pIndicationToken
- uint16_t Tlvresult

8.1356.1 Detailed Description

This structure contains information of the response parameters associated with a set of PIN related API's.

Parameters

pRemaining-Retries(optional)	• See uim_remainingRetries for more information. • NULL pointer - Invalid data.
pEncryptedPI-N1(optional)	• See uim_encryptedPIN1 for more information. • NULL pointer - Invalid data.
pIndication-Token(optional)	• Response in Indication. • When this TLV is present, it indicates that the result is provided in a subsequent indication. • 0xFFFFFFFF, if unavailable • NULL pointer - Invalid data.

Note

Using NULL for the pointers would make sure that the parameter is not returned.

8.1356.2 Field Documentation

8.1356.2.1 uim_encryptedPIN1* unpack_uim_ChangePin_t::pEncryptedPIN1

8.1356.2.2 uint32_t* unpack_uim_ChangePin_t::pIndicationToken

8.1356.2.3 uim_remainingRetries* unpack_uim_ChangePin_t::pRemainingRetries

8.1356.2.4 uint16_t unpack_uim_ChangePin_t::Tlvresult

8.1357 unpack_uim_GetCardStatus_t Struct Reference

Data Fields

- uim_cardStatus * pCardStatus
- uim_hotSwapStatus * pHotSwapStatus
- uint16_t Tlvresult

8.1357.1 Detailed Description

This structure contains information of the response parameters associated with a Get Card Status API.

Parameters

pCardStatus(optional)	• See uim_cardStatus for more information. • NULL pointer - Invalid data.
pHotSwapStatus(optional)	• See uim_hotSwapStatus for more information. • NULL pointer - Invalid data.

Note

Using NULL for the pointers would make sure that the parameter is not returned.

8.1357.2 Field Documentation

8.1357.2.1 uim_cardStatus* unpack_uim_GetCardStatus_t::pCardStatus

8.1357.2.2 uim_hotSwapStatus* unpack_uim_GetCardStatus_t::pHotSwapStatus

8.1357.2.3 uint16_t unpack_uim_GetCardStatus_t::Tlvresult

8.1358 unpack_uim_ReadTransparent_t Struct Reference

Data Fields

- uim_cardResult * pCardResult
- uim_readResult * pReadResult
- uint32_t * pIndicationToken
- uint8_t * pEncryptedData
- uint16_t Tlvresult

8.1358.1 Detailed Description

This structure contains information of the response parameters associated with a Read Transparent API.

Parameters

pCardResult	• See uim_cardResult for more information. • NULL pointer - Invalid data.
pReadResult	• See uim_readResult for more information. • NULL pointer - Invalid data.
pIndication-Token(optional)	• Response in Indication. • When this TLV is present, it indicates that the result must be provided in a subsequent indication. • NULL pointer - Invalid data.
pEncrypted-Data(optional)	• Encrypted Data. • Indicates whether the data from the card passed in read_result is encrypted. • NULL pointer - Invalid data.

Note

Using NULL for the pointers would make sure that the parameter is not added to the request.

8.1358.2 Field Documentation

8.1358.2.1 uim_cardResult* unpack_uim_ReadTransparent_t::pCardResult

8.1358.2.2 uint8_t* unpack_uim_ReadTransparent_t::pEncryptedData

8.1358.2.3 uint32_t* unpack_uim_ReadTransparent_t::pIndicationToken

8.1358.2.4 uim_readResult* unpack_uim_ReadTransparent_t::pReadResult

8.1358.2.5 uint16_t unpack_uim_ReadTransparent_t::Tlvresult

8.1359 unpack_uim_SetPinProtection_t Struct Reference

Data Fields

- uim_remainingRetries * pRemainingRetries
- uim_encryptedPIN1 * pEncryptedPIN1
- uint32_t * pIndicationToken
- uint16_t Tlvresult

8.1359.1 Detailed Description

This structure contains information of the response parameters associated with a set of PIN related API's.

Parameters

pRemaining-Retries(optional)	• See uim_remainingRetries for more information. • NULL pointer - Invalid data.
pEncryptedPI-N1(optional)	• See uim_encryptedPIN1 for more information. • NULL pointer - Invalid data.
pIndication-Token(optional)	• Response in Indication. • When this TLV is present, it indicates that the result is provided in a subsequent indication. • 0xFFFFFFFF, if unavailable • NULL pointer - Invalid data.

Note

Using NULL for the pointers would make sure that the parameter is not returned.

8.1359.2 Field Documentation

8.1359.2.1 uim_encryptedPIN1∗ unpack_uim_SetPinProtection_t::pEncryptedPIN1

8.1359.2.2 uint32_t∗ unpack_uim_SetPinProtection_t::pIndicationToken

8.1359.2.3 uim_remainingRetries∗ unpack_uim_SetPinProtection_t::pRemainingRetries

8.1359.2.4 uint16_t unpack_uim_SetPinProtection_t::Tlvresult

8.1360 unpack_uim_SetUimSlotStatusChangeCallback_ind_t Struct Reference

Data Fields

- slots_t slotsstatusChange
- uint8_t bNumberOfPhySlots

8.1360.1 Detailed Description

Structure consist of card status params

Parameters

slotsstatus-Change	• See slot_t for more information
bNumberOfPhy-Slots	• Number of Physical Slot(s) • 0xff - Invalid card slot status.

8.1360.2 Field Documentation

8.1360.2.1 uint8_t unpack_uim_SetUimSlotStatusChangeCallback_ind_t::bNumberOfPhySlots

8.1360.2.2 slots_t unpack_uim_SetUimSlotStatusChangeCallback_ind_t::slotsstatusChange

8.1361 unpack_uim_SLQSUIMAuthenticate_t Struct Reference

Data Fields

- uim_cardResult * pCardResult
- uim_authenticateResult * pAuthenticateResult
- uint32_t * pIndicationToken

8.1361.1 Detailed Description

This structure contains information of the response parameters associated with a SLQSUIMAuthenticate.

Parameters

pCard-Result(optional)	• See uim_cardResult for more information. • NULL pointer - Invalid data.
pAuthenticate-Result(optional)	• See uim_authenticateResult for more information. • NULL pointer - Invalid data.
pIndication-Token(optional)	• Response in Indication. • When this TLV is present, it indicates that the result must be provided in a subsequent indication. • NULL pointer - Invalid data.

Note

Using NULL for the pointers would make sure that the parameter is not returned.

8.1361.2 Field Documentation

8.1361.2.1 uim_authenticateResult* unpack_uim_SLQSUIMAuthenticate_t::pAuthenticateResult

8.1361.2.2 uim_cardResult* unpack_uim_SLQSUIMAuthenticate_t::pCardResult

8.1361.2.3 uint32_t* unpack_uim_SLQSUIMAuthenticate_t::pIndicationToken

8.1362 unpack_uim_SLQSUIMDepersonalization_t Struct Reference

Data Fields

- uim_remainingRetries * pRemainingRetries

8.1362.1 Detailed Description

This structure contains information of the response parameters associated with a Depersonalization.

Parameters

pRemaining-Retries(optional)	• See uim_remainingRetries for more information. • NULL pointer - Invalid data.

Note

Using NULL for the pointers would make sure that the parameter is not returned.

8.1362.2 Field Documentation

8.1362.2.1 uim_remainingRetries∗ unpack_uim_SLQSUIMDepersonalization_t::pRemainingRetries

8.1363 unpack_uim_SLQSUIMEventRegister_t Struct Reference

Data Fields

- uint32_t eventMask

8.1363.1 Detailed Description

This structure contains unpack event register parameter.

Parameters

eventMask	- bit 0 - card status • bit 1 - SAP connection • bit 4 - physical slot status • 0xffffffff - Invalid data.

8.1363.2 Field Documentation

8.1363.2.1 uint32_t unpack_uim_SLQSUIMEventRegister_t::eventMask

8.1364 unpack_uim_SLQSUIMGetConfiguration_t Struct Reference

Data Fields

- uint8_t ∗ pAutoSelection
- uim_personalizationStatus ∗ pPersonalizationStatus
- uint8_t ∗ pHaltSubscription

8.1364.1 Detailed Description

This structure contains information of the response parameters associated with Get Configuration.

Parameters

pAuto-Selection(optional)	• Indicates whether the modem is configured to automatically select the provisioning sessions at powerup. • Valid values – 0 - Automatic provisioning is off – 1 - Automatic provisioning is on • NULL pointer - Invalid data.
p-Personalization-Status(optional)	• See uim_personalizationStatus for more information. • NULL pointer - Invalid data.
pHalt-Subscription(optional)	• Indicates if the modem is configured to publish the subscription after successful initialization. • Valid values – 0 - Modem proceeds with publishing the subscription – 1 - Modem does not publish the subscription • NULL pointer - Invalid data.

8.1364.2 Field Documentation

8.1364.2.1 uint8_t* unpack_uim_SLQSUIMGetConfiguration_t::pAutoSelection

8.1364.2.2 uint8_t* unpack_uim_SLQSUIMGetConfiguration_t::pHaltSubscription

8.1364.2.3 uim_personalizationStatus* unpack_uim_SLQSUIMGetConfiguration_t::pPersonalizationStatus

8.1365 unpack_uim_SLQSUIMGetFileAttributes_t Struct Reference

Data Fields

- uim_cardResult * pCardResult
- uim_fileAttributes * pFileAttributes
- uint32_t * pIndicationToken

8.1365.1 Detailed Description

This structure contains information of the response parameters associated with a Get File Attributes

Parameters

pCard-Result(optional)	• See uim_cardResult for more information. • NULL pointer - Invalid data.
pFile-Attributes(optional)	• See uim_fileAttributes for more information. • NULL pointer - Invalid data.

pIndication-Token(optional)	• Response in Indication. • When this TLV is present, it indicates that the result must be provided in a subsequent indication. • NULL pointer - Invalid data.

Note

Using NULL for the pointers would make sure that the parameter is not returned.

8.1365.2 Field Documentation

8.1365.2.1 uim_cardResult* unpack_uim_SLQSUIMGetFileAttributes_t::pCardResult

8.1365.2.2 uim_fileAttributes* unpack_uim_SLQSUIMGetFileAttributes_t::pFileAttributes

8.1365.2.3 uint32_t* unpack_uim_SLQSUIMGetFileAttributes_t::pIndicationToken

8.1366 unpack_uim_SLQSUIMGetSlotsStatus_t Struct Reference

Data Fields

- uint8_t * pNumberOfPhySlot
- slots_t * pUimSlotsStatus

8.1366.1 Detailed Description

This structure contains information of the response parameters associated with a Get Slots Status API.

Parameters

pNumberOfPhy-Slot	• Number of sets of the Slot Status. • NULL pointer - Invalid data.
pUimSlotsStatus	• Slots Status See slots_t for more information..

8.1366.2 Field Documentation

8.1366.2.1 uint8_t* unpack_uim_SLQSUIMGetSlotsStatus_t::pNumberOfPhySlot

8.1366.2.2 slots_t* unpack_uim_SLQSUIMGetSlotsStatus_t::pUimSlotsStatus

8.1367 unpack_uim_SLQSUIMRefreshCallback_Ind_t Struct Reference

Data Fields

- uint8_t TlvPresent
- uim_refreshevent refreshEvent

8.1367.1 Detailed Description

This structure hold parameters about UIM refresh event indication.

Parameters

TlvPresent	• value is 1 if refresh event TLV is present in indication, otherwise 0
refreshEvent[OPTIONAL]	• see uim_refreshevent

8.1367.2 Field Documentation

8.1367.2.1 uim_refreshevent unpack_uim_SLQSUIMRefreshCallback_Ind_t::refreshEvent

8.1367.2.2 uint8_t unpack_uim_SLQSUIMRefreshCallback_Ind_t::TlvPresent

8.1368 unpack_uim_SLQSUIMRefreshGetLastEvent_t Struct Reference

Data Fields

- uim_refreshevent * pRefreshEvent

8.1368.1 Detailed Description

This structure contains information of the response parameters associated with a Refresh Get Last Event.

Parameters

refreshEvent(Optional)	• See uim_refreshevent for more information. • NULL pointer - Invalid data.

8.1368.2 Field Documentation

8.1368.2.1 uim_refreshevent* unpack_uim_SLQSUIMRefreshGetLastEvent_t::pRefreshEvent

8.1369 unpack_uim_SLQSUIMSetStatusChangeCallBack_ind_t Struct Reference

Data Fields

- uim_cardStatus * pCardStatus

8.1369.1 Detailed Description

This structure contains information about Status change callback.

Parameters

pCardStatus	Card Status • See uim_cardStatus for more information. • NULL pointer - Invalid data.

8.1369.2 Field Documentation

8.1369.2.1 uim_cardStatus* unpack_uim_SLQSUIMSetStatusChangeCallBack_ind_t::pCardStatus

8.1370 unpack_uim_UnblockPin_t Struct Reference

Data Fields

- uim_remainingRetries * pRemainingRetries
- uim_encryptedPIN1 * pEncryptedPIN1
- uint32_t * pIndicationToken
- uint16_t Tlvresult

8.1370.1 Detailed Description

This structure contains information of the response parameters associated with a set of PIN related API's.

Parameters

pRemaining-Retries(optional)	• See uim_remainingRetries for more information. • NULL pointer - Invalid data.
pEncryptedPI-N1(optional)	• See uim_encryptedPIN1 for more information. • NULL pointer - Invalid data.
pIndication-Token(optional)	• Response in Indication. • When this TLV is present, it indicates that the result is provided in a subsequent indication. • 0xFFFFFFFF, if unavailable • NULL pointer - Invalid data.

8.1370.2 Field Documentation

8.1370.2.1 uim_encryptedPIN1* unpack_uim_UnblockPin_t::pEncryptedPIN1

8.1370.2.2 uint32_t* unpack_uim_UnblockPin_t::pIndicationToken

8.1370.2.3 uim_remainingRetries* unpack_uim_UnblockPin_t::pRemainingRetries

8.1370.2.4 uint16_t unpack_uim_UnblockPin_t::Tlvresult

8.1371 unpack_uim_VerifyPin_t Struct Reference

Data Fields

- uim_remainingRetries * pRemainingRetries
- uim_encryptedPIN1 * pEncryptedPIN1
- uint32_t * pIndicationToken
- uint16_t Tlvresult

8.1371.1 Detailed Description

This structure contains information of the response parameters associated with a set of PIN related API's.

Parameters

pRemaining-Retries(optional)	• See uim_remainingRetries for more information. • NULL pointer - Invalid data.
pEncryptedPI-N1(optional)	• See uim_encryptedPIN1 for more information. • NULL pointer - Invalid data.
pIndication-Token(optional)	• Response in Indication. • When this TLV is present, it indicates that the result is provided in a subsequent indication. • 0xFFFFFFFF, if unavailable • NULL pointer - Invalid data.

Note

Using NULL for the pointers would make sure that the parameter is not returned.

8.1371.2 Field Documentation

8.1371.2.1 uim_encryptedPIN1* unpack_uim_VerifyPin_t::pEncryptedPIN1

8.1371.2.2 uint32_t* unpack_uim_VerifyPin_t::pIndicationToken

8.1371.2.3 uim_remainingRetries* unpack_uim_VerifyPin_t::pRemainingRetries

8.1371.2.4 uint16_t unpack_uim_VerifyPin_t::Tlvresult

8.1372 unpack_voice_allCallStatusCallback_ind_t Struct Reference

Data Fields

- voice_arrCallInfo arrCallInfomation
- voice_arrRemotePartyNum * pArrRemotePartyNum
- voice_arrRemotePartyName * pArrRemotePartyName
- voice_arrAlertingType * pArrAlertingType
- voice_arrSvcOption * pArrSvcOption
- voice_arrCallEndReason * pArrCallEndReason
- voice_arrAlphaID * pArrAlphaID
- voice_arrConnectPartyNum * pArrConnectPartyNum

- voice_arrDiagInfo * pArrDiagInfo
- voice_arrCalledPartyNum * pArrCalledPartyNum
- voice_arrRedirPartyNum * pArrRedirPartyNum
- voice_arrAlertingPattern * pArrAlertingPattern

8.1372.1 Detailed Description

This structure contains information about the indication parameters for all the calls originating or terminating from a particular device.

Parameters

arrCallInfo(mandatory)	• See voice_arrCallInfo for more information. • NULL pointer - Invalid data.
pArrRemotePartyNum(optional)	• See voice_arrRemotePartyNum for more information. • NULL pointer - Invalid data.
pArrRemotePartyName(optional)	• See voice_arrRemotePartyName for more information. • NULL pointer - Invalid data.
pArrAlertingType(optional)	• See voice_arrAlertingType for more information. • NULL pointer - Invalid data.
pArrUUSInfo(optional)	• See voice_arrUUSInfo for more information. • NULL pointer - Invalid data.
pArrSvcOption(optional)	• See voice_arrSvcOption for more information. • NULL pointer - Invalid data.

pOTASP-Status(optional)	• OTASP status for the OTASP call. • Applicable only for 3GPP2 devices. – 0x00 - OTASP_STATUS_SPL_UNLOCKED - SPL unlocked; only for user-initiated OTASP – 0x01 - OTASP_STATUS_SPRC_RETRIES_EXCEEDED - SPC retries exceeded; only for user-initiated OTASP – 0x02 - OTASP_STATUS_AKEY_EXCHANGED - A-key exchanged; only for user-initiated OTASP – 0x03 - OTASP_STATUS_SSD_UPDATED - SSD updated; for both user-initiated OTASP and network-initiated OTASP (OTAPA) – 0x04 - OTASP_STATUS_NAM_DOWNLOADED - NAM downloaded; only for user-initiated OTASP – 0x05 - OTASP_STATUS_MDN_DOWNLOADED - MDN downloaded; only for user-initiated OTASP – 0x06 - OTASP_STATUS_IMSI_DOWNLOADED - IMSI downloaded; only for user-initiated OTASP – 0x07 - OTASP_STATUS_PRL_DOWNLOADED - PRL downloaded; only for user-initiated OTASP – 0x08 - OTASP_STATUS_COMMITTED - Commit successful; only for user-initiated OTASP – 0x09 - OTASP_STATUS_OTAPA_STARTED - OTAPA started; only for network-initiated OTASP (OTAPA) – 0x0A - OTASP_STATUS_OTAPA_STOPPED - OTAPA stopped; only for network-initiated OTASP (OTAPA) – 0x0B - OTASP_STATUS_OTAPA_ABORTED - OTAPA aborted; only for network-initiated OTASP (OTAPA) – 0x0C - OTASP_STATUS_OTAPA_COMMITTED - OTAPA committed; only for network-initiated OTASP (OTAPA) – 0xFF - Not Available • NULL pointer - Invalid data.
pVoice-Privacy(optional)	• Voice Privacy. • Values. – 0x00 - VOICE_PRIVACY_STANDARD - Standard privacy – 0x01 - VOICE_PRIVACY_ENHANCED - Enhanced privacy – 0xFF - Not Available • NULL pointer - Invalid data.
pArrCallEnd-Reason(optional)	• See voice_arrCallEndReason for more information. • NULL pointer - Invalid data.
pArrAlphaI-D(optional)	• See voice_arrAlphaID for more information. • NULL pointer - Invalid data.
pArrConnect-Party-Num(optional)	• See voice_arrConnectPartyNum for more information. • NULL pointer - Invalid data.

pArrDiag-Info(optional)	• See voice_arrDiagInfo for more information. • NULL pointer - Invalid data.
pArrCalledParty-Num(optional)	• See voice_arrCalledPartyNum for more information. • NULL pointer - Invalid data.
pArrRedirParty-Num(optional)	• See voice_arrRedirPartyNum for more information. • NULL pointer - Invalid data.
pArrAlerting-Pattern(optional)	• See voice_arrAlertingPattern for more information. • NULL pointer - Invalid data.

8.1372.2 Field Documentation

8.1372.2.1 voice_arrCallInfo unpack_voice_allCallStatusCallback_ind_t::arrCallInfomation

8.1372.2.2 voice_arrAlertingPattern∗ unpack_voice_allCallStatusCallback_ind_t::pArrAlertingPattern

8.1372.2.3 voice_arrAlertingType∗ unpack_voice_allCallStatusCallback_ind_t::pArrAlertingType

8.1372.2.4 voice_arrAlphaID∗ unpack_voice_allCallStatusCallback_ind_t::pArrAlphaID

8.1372.2.5 voice_arrCalledPartyNum∗ unpack_voice_allCallStatusCallback_ind_t::pArrCalledPartyNum

8.1372.2.6 voice_arrCallEndReason∗ unpack_voice_allCallStatusCallback_ind_t::pArrCallEndReason

8.1372.2.7 voice_arrConnectPartyNum∗ unpack_voice_allCallStatusCallback_ind_t::pArrConnectPartyNum

8.1372.2.8 voice_arrDiagInfo∗ unpack_voice_allCallStatusCallback_ind_t::pArrDiagInfo

8.1372.2.9 voice_arrRedirPartyNum∗ unpack_voice_allCallStatusCallback_ind_t::pArrRedirPartyNum

8.1372.2.10 voice_arrRemotePartyName∗ unpack_voice_allCallStatusCallback_ind_t::pArrRemotePartyName

8.1372.2.11 voice_arrRemotePartyNum∗ unpack_voice_allCallStatusCallback_ind_t::pArrRemotePartyNum

8.1372.2.12 voice_arrSvcOption∗ unpack_voice_allCallStatusCallback_ind_t::pArrSvcOption

8.1373 unpack_voice_DTMFEventCallback_ind_t Struct Reference

Data Fields

- voice_DTMFInfo DTMFInformation
- uint8_t ∗ pOnLength
- uint8_t ∗ pOffLength

8.1373.1 Detailed Description

This structure contains the parameters passed for DTMF event indication by the device.

Parameters

DTMF-Information(mandatory)	See voice_DTMFInfo for more information.
pOn-Length(optional)	• DTMF Pulse Width – 0x00 - DTMF_ONLENGTH_95MS - 95 ms – 0x01 - DTMF_ONLENGTH_150MS - 150 ms – 0x02 - DTMF_ONLENGTH_200MS - 200 ms – 0x03 - DTMF_ONLENGTH_250MS - 250 ms – 0x04 - DTMF_ONLENGTH_300MS - 300 ms – 0x05 - DTMF_ONLENGTH_350MS - 350 ms – 0x06 - DTMF_ONLENGTH_SMS - SMS Tx special pulse width
pOff-Length(optional)	• DTMF Interdigit Interval – 0x00 - DTMF_OFFLENGTH_60MS - 60 ms – 0x01 - DTMF_OFFLENGTH_100MS - 100 ms – 0x02 - DTMF_OFFLENGTH_150MS - 150 ms – 0x03 - DTMF_OFFLENGTH_200MS - 200 ms

Note

None

8.1373.2 Field Documentation

8.1373.2.1 voice_DTMFInfo unpack_voice_DTMFEventCallback_ind_t::DTMFInformation

8.1373.2.2 uint8_t* unpack_voice_DTMFEventCallback_ind_t::pOffLength

8.1373.2.3 uint8_t* unpack_voice_DTMFEventCallback_ind_t::pOnLength

8.1374 unpack_voice_OTASPStatusCallback_ind_t Struct Reference

Data Fields

- uint8_t callID
- uint8_t OTASPStatus

8.1374.1 Detailed Description

This structure consist of OTASP or OTAPA event params

Parameters

callID	• Call identifier for the call.
OTASPStatus	• OTASP status for the OTASP call. Values: – 0x00 - OTASP_STATUS_SPL_UNLOCKED.SPL unlocked; only for user-initiated OTASP – 0x01 - OTASP_STATUS_SPRC_RETRIES_EXCEEDED. SPC retries exceeded; only for user-initiated OTASP – 0x02 - OTASP_STATUS_AKEY_EXCHANGED.A-key exchanged; only for user-initiated O-TASP – 0x03 - OTASP_STATUS_SSD_UPDATED. SSD updated; for both user-initiated OTASP and network-initiated OTASP (OTAPA) – 0x04 - OTASP_STATUS_NAM_DOWNLOADED - NAM downloaded; only for user-initiated OTASP – 0x05 - OTASP_STATUS_MDN_DOWNLOADED - MDN downloaded; only for user-initiated OTASP – 0x06 - OTASP_STATUS_IMSI_DOWNLOADED - IMSI downloaded; only for user-initiated OTASP – 0x07 - OTASP_STATUS_PRL_DOWNLOADED - PRL downloaded; only for user-initiated OTASP – 0x08 - OTASP_STATUS_COMMITTED - Commit successful; only for user-initiated OTASP – 0x09 - OTASP_STATUS_OTAPA_STARTED - OTAPA started; only for network-initiated OTASP(OTAPA) – 0x0A - OTASP_STATUS_OTAPA_STOPPED - OTAPA stopped; only for network-initiated OTASP(OTAPA) – 0x0B - OTASP_STATUS_OTAPA_ABORTED - OTAPA aborted; only for network-initiated OTASP(OTAPA) – 0x0C - OTASP_STATUS_OTAPA_COMMITTED - OTAPA committed; only for network-initiated OTASP(OTAPA)

8.1374.2 Field Documentation

8.1374.2.1 uint8_t unpack_voice_OTASPStatusCallback_ind_t::callID

8.1374.2.2 uint8_t unpack_voice_OTASPStatusCallback_ind_t::OTASPStatus

8.1375 unpack_voice_SLQSOriginateUSSD_t Struct Reference

Data Fields

- uint16_t * pfailureCause
- voice_alphaIDInfo * pAlphaIDInfo
- struct voice_USSInfo * pUSSDInfo
- uint8_t * pCcResultType
- uint8_t * pCallId
- voice_ccSUPSType * pCCSuppsType

8.1375.1 Detailed Description

This structure contains the parameters of USS response.

Parameters

pfailureCause

- Failure Cause.
- 0 - QMI_FAILURE_CAUSE_OFFLINE - Phone is offline
- 20 - QMI_FAILURE_CAUSE_CDMA_LOCK - Phone is CDMA locked until a power cycle; CDMA only
- 21 - QMI_FAILURE_CAUSE_NO_SRV - Phone has no service
- 22 - QMI_FAILURE_CAUSE_FADE - Call has ended abnormally
- 23 - QMI_FAILURE_CAUSE_INTERCEPT - Received intercept from the base station; originating only; CDMA only
- 24 - QMI_FAILURE_CAUSE_REORDER - Received reorder from the base station; originating only; CDMA only
- 25 - QMI_FAILURE_CAUSE_REL_NORMAL - Received release from the base station; no reason was given
- 26 - QMI_FAILURE_CAUSE_REL_SO_REJ - Received release from the base station; SO reject; CDMA only
- 27 - QMI_FAILURE_CAUSE_INCOM_CALL - Received incoming call from the base station
- 28 - QMI_FAILURE_CAUSE_ALERT_STOP - Received alert stop from the base station; incoming only; CDMA only
- 29 - QMI_FAILURE_CAUSE_CLIENT_END - Client ended the call
- 30 - QMI_FAILURE_CAUSE_ACTIVATION - Received end activation; OTASP call only; CDMA only
- 31 - QMI_FAILURE_CAUSE_MC_ABORT - MC aborted the origination/conversation; CDMA only
- 32 - QMI_FAILURE_CAUSE_MAX_ACCESS_PROBE - Maximum access probes were transmitted; CDMA only
- 33 - QMI_FAILURE_CAUSE_PSIST_N - Persistence test failure; FEATURE_JCDMA only; CDMA only
- 34 - QMI_FAILURE_CAUSE_UIM_NOT_PRESENT - R-UIM is not present
- 35 - QMI_FAILURE_CAUSE_ACC_IN_PROG - Access attempt is already in progress
- 36 - QMI_FAILURE_CAUSE_ACC_FAIL - Access failure for a reason other than the above
- 37 - QMI_FAILURE_CAUSE_RETRY_ORDER - Received retry order; originating only; IS 2000; CDMA only
- 38 - QMI_FAILURE_CAUSE_CCS_NOT_SUPPORTED_BYBS - Concurrent service is not supported by the base station
- 39 - QMI_FAILURE_CAUSE_NO_RESPONSE_FROM_BS - No response was received from the base station
- 40 - QMI_FAILURE_CAUSE_REJECTED_BY_BS - Call was rejected by the base station; CDMA only
- 41 - QMI_FAILURE_CAUSE_INCOMPATIBLE - Concurrent services requested were not compatible; CDMA only
- 42 - QMI_FAILURE_CAUSE_ACCESS_BLOCK - Access is blocked by the base station; CDMA only
- 43 - QMI_FAILURE_CAUSE_ALREADY_IN_TC - Corresponds to CM_CALL_ORIGERR_ALREADY_IN_TC
- 44 - QMI_FAILURE_CAUSE_EMERGENCY_FLASHED - Call is ended because an emergency call was flashed over this call; CDMA only
- 45 - QMI_FAILURE_CAUSE_USER_CALL_ORIGDURING_GPS - Used if CM is ending a GPS call in preference of a user call
- 46 - QMI_FAILURE_CAUSE_USER_CALL_ORIGDURING_SMS - Used if CM is ending an SMS call in preference of a user call
- 47 - QMI_FAILURE_CAUSE_USER_CALL_ORIGDURING_DATA - Used if CM is ending a data call in preference of an emergency call
- 48 - QMI_FAILURE_CAUSE_REDIR_OR_HANDOFF - Call was rejected because of a redirection or handoff
- 49 - QMI_FAILURE_CAUSE_ACCESS_BLOCK_ALL - Access is blocked by the base station for all mobiles; KDDI-specific; CDMA only
- 50 - QMI_FAILURE_CAUSE_OTASP_SPC_ERR - To support OTASP SPC Error indication
- 51 - QMI_FAILURE_CAUSE_IS707B_MAX_ACC - Maximum access probes for an IS-707B

AlphaIdentifier	• see voice_alphaIDInfo definition • NULL pointer - Invalid data.
pUSSDInfo	• USS Data from Network (See structure voice_USSInfo)

- NULL pointer - Invalid data.

Parameters

pCcResultType	• CC result code • NULL pointer - Invalid data.
pCallId	• Caller ID information • NULL pointer - Invalid data.
pCCSuppsType	• See structure 'voice_ccSUPSType' definition • NULL pointer - Invalid data.

8.1375.2 Field Documentation

8.1375.2.1 voice_alphaIDInfo* unpack_voice_SLQSOriginateUSSD_t::pAlphaIDInfo

8.1375.2.2 uint8_t* unpack_voice_SLQSOriginateUSSD_t::pCallId

8.1375.2.3 uint8_t* unpack_voice_SLQSOriginateUSSD_t::pCcResultType

8.1375.2.4 voice_ccSUPSType* unpack_voice_SLQSOriginateUSSD_t::pCCSuppsType

8.1375.2.5 uint16_t* unpack_voice_SLQSOriginateUSSD_t::pfailureCause

8.1375.2.6 struct voice_USSInfo* unpack_voice_SLQSOriginateUSSD_t::pUSSDInfo

8.1376 unpack_voice_SLQSVoiceAnswerCall_t Struct Reference

Data Fields

- uint8_t * pCallId

8.1376.1 Detailed Description

Contains the parameters passed for pack voice Answer Call.

Parameters

pCallId	• Unique call identifier for the call that must be answered. • NULL pointer - Invalid data.

8.1376.2 Field Documentation

8.1376.2.1 uint8_t* unpack_voice_SLQSVoiceAnswerCall_t::pCallId

8.1377 unpack_voice_SLQSVoiceBurstDTMF_t Struct Reference

Data Fields

- uint8_t * pCallID

8.1377.1 Detailed Description

This structure contains Voice Burst DTMF Information for unpack.

Parameters

pCallID	• Call ID associated with call on which the DTMF information has to be sent. A burst DTMF request is sent to the current active/alerting call when pCallId is set to 0xFF. • This is IN/OUT parameter, value passed by user will be packed in request and value received from the device would be returned to the user. • If the call ID value received is 0, no value has been returned by the device • NULL pointer - Invalid data.

8.1377.2 Field Documentation

8.1377.2.1 uint8_t* unpack_voice_SLQSVoiceBurstDTMF_t::pCallID

8.1378 unpack_voice_SLQSVoiceDialCall_t Struct Reference

Data Fields

- uint8_t * pCallID
- voice_alphaIDInfo * pAlphaIDInfo
- uint8_t * pCCResultType
- voice_ccSUPSType * pCCSUPSType

8.1378.1 Detailed Description

This structure contains Voice Call Response Parameters

Parameters

pCallID(optional)	• Unique call identifier for the dialed call • NULL pointer - Invalid data.
pAlphaID-Info(optional)	• Pointer to structure of alphaIDInfo – See voice_alphaIDInfo for more information • NULL pointer - Invalid data.
pCCResult-Type(optional)	• Call Control Result Type. – 0x00 - CC_RESULT_TYPE_VOICE - Voice – 0x01 - CC_RESULT_TYPE_SUPS - Supplementary service – 0x02 - CC_RESULT_TYPE_USSD - Unstructured supplementary service – NULL pointer - Invalid data.
pCCSUPS-Type(optional)	• Pointer to structure of ccSUPSType • Data is present when pCCResultType is present and is other than Voice. – See voice_ccSUPSType for more information • NULL pointer - Invalid data.

8.1378.2 Field Documentation

8.1378.2.1 voice_alphaIDInfo∗ unpack_voice_SLQSVoiceDialCall_t::pAlphaIDInfo

8.1378.2.2 uint8_t∗ unpack_voice_SLQSVoiceDialCall_t::pCallID

8.1378.2.3 uint8_t∗ unpack_voice_SLQSVoiceDialCall_t::pCCResultType

8.1378.2.4 voice_ccSUPSType∗ unpack_voice_SLQSVoiceDialCall_t::pCCSUPSType

8.1379 unpack_voice_SLQSVoiceEndCall_t Struct Reference

Data Fields

- uint8_t ∗ pCallId

8.1379.1 Detailed Description

This structure contains unpack voice end call parameter.

Parameters

pCallId	• Unique call identifier for the call that must be ended • NULL pointer - Invalid data.

8.1379.2 Field Documentation

8.1379.2.1 uint8_t* unpack_voice_SLQSVoiceEndCall_t::pCallId

8.1380 unpack_voice_SLQSVoiceGetAllCallInfo_t Struct Reference

Data Fields

- voice_arrCallInfo * pArrCallInfo
- voice_arrRemotePartyNum * pArrRemotePartyNum
- voice_arrRemotePartyName * pArrRemotePartyName
- voice_arrAlertingType * pArrAlertingType
- voice_arrUUSInfo * pArrUUSInfo
- voice_arrSvcOption * pArrSvcOption
- uint8_t * pOTASPStatus
- uint8_t * pVoicePrivacy
- voice_arrCallEndReason * pArrCallEndReason
- voice_arrAlphaID * pArrAlphaID
- voice_arrConnectPartyNum * pArrConnectPartyNum
- voice_arrDiagInfo * pArrDiagInfo
- voice_arrCalledPartyNum * pArrCalledPartyNum
- voice_arrRedirPartyNum * pArrRedirPartyNum
- voice_arrAlertingPattern * pArrAlertingPattern

8.1380.1 Detailed Description

This structure contains information about the response parameters with all the calls originating or terminating from a particular device.

Parameters

pArrCallInfo(optional)	• See voice_arrCallInfo for more information. • NULL pointer - Invalid data.
pArrRemotePartyNum(optional)	• See voice_arrRemotePartyNum for more information. • NULL pointer - Invalid data.
pArrRemotePartyName(optional)	• See voice_arrRemotePartyName for more information. • NULL pointer - Invalid data.
pArrAlertingType(optional)	• See voice_arrAlertingType for more information. • NULL pointer - Invalid data.
pArrUUSInfo(optional)	• See voice_arrUUSInfo for more information. • NULL pointer - Invalid data.
pArrSvcOption(optional)	• See voice_arrSvcOption for more information. • NULL pointer - Invalid data.

pOTASP-Status(optional)	• OTASP status for the OTASP call. • Applicable only for 3GPP2 devices. – 0x00 - OTASP_STATUS_SPL_UNLOCKED - SPL unlocked; only for user-initiated OTASP – 0x01 - OTASP_STATUS_SPRC_RETRIES_EXCEEDED - SPC retries exceeded; only for user-initiated OTASP – 0x02 - OTASP_STATUS_AKEY_EXCHANGED - A-key exchanged; only for user-initiated OTASP – 0x03 - OTASP_STATUS_SSD_UPDATED - SSD updated; for both user-initiated OTASP and network-initiated OTASP (OTAPA) – 0x04 - OTASP_STATUS_NAM_DOWNLOADED - NAM downloaded; only for user-initiated OTASP – 0x05 - OTASP_STATUS_MDN_DOWNLOADED - MDN downloaded; only for user-initiated OTASP – 0x06 - OTASP_STATUS_IMSI_DOWNLOADED - IMSI downloaded; only for user-initiated OTASP – 0x07 - OTASP_STATUS_PRL_DOWNLOADED - PRL downloaded; only for user-initiated OTASP – 0x08 - OTASP_STATUS_COMMITTED - Commit successful; only for user-initiated OTASP – 0x09 - OTASP_STATUS_OTAPA_STARTED - OTAPA started; only for network-initiated OTASP (OTAPA) – 0x0A - OTASP_STATUS_OTAPA_STOPPED - OTAPA stopped; only for network-initiated OTASP (OTAPA) – 0x0B - OTASP_STATUS_OTAPA_ABORTED - OTAPA aborted; only for network-initiated OTASP (OTAPA) – 0x0C - OTASP_STATUS_OTAPA_COMMITTED - OTAPA committed; only for network-initiated OTASP (OTAPA) – 0xFF - Not Available • NULL pointer - Invalid data.
pVoice-Privacy(optional)	• Voice Privacy. • Values. – 0x00 - VOICE_PRIVACY_STANDARD - Standard privacy – 0x01 - VOICE_PRIVACY_ENHANCED - Enhanced privacy – 0xFF - Not Available • NULL pointer - Invalid data.
pArrCallEnd-Reason(optional)	• See voice_arrCallEndReason for more information. • NULL pointer - Invalid data.
pArrAlphaI-D(optional)	• See voice_arrAlphaID for more information. • NULL pointer - Invalid data.
pArrConnect-Party-Num(optional)	• See voice_arrConnectPartyNum for more information. • NULL pointer - Invalid data.

pArrDiag-Info(optional)	• See voice_arrDiagInfo for more information. • NULL pointer - Invalid data.
pArrCalledParty-Num(optional)	• See voice_arrCalledPartyNum for more information. • NULL pointer - Invalid data.
pArrRedirParty-Num(optional)	• See voice_arrRedirPartyNum for more information. • NULL pointer - Invalid data.
pArrAlerting-Pattern(optional)	• See voice_arrAlertingPattern for more information. • NULL pointer - Invalid data.

8.1380.2 Field Documentation

8.1380.2.1 voice_arrAlertingPattern∗ unpack_voice_SLQSVoiceGetAllCallInfo_t::pArrAlertingPattern

8.1380.2.2 voice_arrAlertingType∗ unpack_voice_SLQSVoiceGetAllCallInfo_t::pArrAlertingType

8.1380.2.3 voice_arrAlphaID∗ unpack_voice_SLQSVoiceGetAllCallInfo_t::pArrAlphaID

8.1380.2.4 voice_arrCalledPartyNum∗ unpack_voice_SLQSVoiceGetAllCallInfo_t::pArrCalledPartyNum

8.1380.2.5 voice_arrCallEndReason∗ unpack_voice_SLQSVoiceGetAllCallInfo_t::pArrCallEndReason

8.1380.2.6 voice_arrCallInfo∗ unpack_voice_SLQSVoiceGetAllCallInfo_t::pArrCallInfo

8.1380.2.7 voice_arrConnectPartyNum∗ unpack_voice_SLQSVoiceGetAllCallInfo_t::pArrConnectPartyNum

8.1380.2.8 voice_arrDiagInfo∗ unpack_voice_SLQSVoiceGetAllCallInfo_t::pArrDiagInfo

8.1380.2.9 voice_arrRedirPartyNum∗ unpack_voice_SLQSVoiceGetAllCallInfo_t::pArrRedirPartyNum

8.1380.2.10 voice_arrRemotePartyName∗ unpack_voice_SLQSVoiceGetAllCallInfo_t::pArrRemotePartyName

8.1380.2.11 voice_arrRemotePartyNum∗ unpack_voice_SLQSVoiceGetAllCallInfo_t::pArrRemotePartyNum

8.1380.2.12 voice_arrSvcOption∗ unpack_voice_SLQSVoiceGetAllCallInfo_t::pArrSvcOption

8.1380.2.13 voice_arrUUSInfo∗ unpack_voice_SLQSVoiceGetAllCallInfo_t::pArrUUSInfo

8.1380.2.14 uint8_t∗ unpack_voice_SLQSVoiceGetAllCallInfo_t::pOTASPStatus

8.1380.2.15 uint8_t∗ unpack_voice_SLQSVoiceGetAllCallInfo_t::pVoicePrivacy

8.1381 unpack_voice_SLQSVoiceGetCallBarring_t Struct Reference

Data Fields

- uint8_t * pSvcClass
- uint16_t * pFailCause
- voice_alphaIDInfo * pAlphaIDInfo
- uint8_t * pCCResType
- uint8_t * pCallID
- voice_ccSUPSType * pCCSUPSType

8.1381.1 Detailed Description

This structure contains Voice Get Call Barring Response Parameters

Parameters

pSvcClass	• Service class is a combination (sum) of information class constants (optional) • See qaGobiApiTableSupServiceInfoClasses.h for service classes. • Service Class is set to 0 if call waiting is not active for any of the information classes. • 0xFF,if Not Available • NULL pointer - Invalid data.
pFailCause	• Supplementary services failure cause (optional) • see qaGobiApiTableVoiceCallEndReasons.h for more information. • 0xFFFF,if Not Available • NULL pointer - Invalid data.
pAlphaIDInfo	• Pointer to structure of alphaIDInfo (optional) – See voice_alphaIDInfo for more information • NULL pointer - Invalid data.

pCCResType	• Call Control Result Type (optional)
	  – 0x00 - CC_RESULT_TYPE_VOICE - Voice
	  – 0x01 - CC_RESULT_TYPE_SUPS - Supplementary service
	  – 0x02 - CC_RESULT_TYPE_USSD - Unstructured supplementary service
	  – 0xFF - Not Available
	• NULL pointer - Invalid data.

pCallID	• Call ID of the voice call that resulted from call control. (optional) • It is present when pCCResType is present and is Voice. • If zero(0) then invalid. • NULL pointer - Invalid data.
pCCSUPSType	• Supplementary service data that resulted from call control (optional) • Data is present when pCCResultType is present and is other than Voice. – See voice_ccSUPSType for more information • NULL pointer - Invalid data.

Note

Using NULL for the pointers would make sure that the parameter is not returned or has default value.

8.1381.2 Field Documentation

8.1381.2.1 voice_alphaIDInfo* unpack_voice_SLQSVoiceGetCallBarring_t::pAlphaIDInfo

8.1381.2.2 uint8_t* unpack_voice_SLQSVoiceGetCallBarring_t::pCallID

8.1381.2.3 uint8_t* unpack_voice_SLQSVoiceGetCallBarring_t::pCCResType

8.1381.2.4 voice_ccSUPSType* unpack_voice_SLQSVoiceGetCallBarring_t::pCCSUPSType

8.1381.2.5 uint16_t* unpack_voice_SLQSVoiceGetCallBarring_t::pFailCause

8.1381.2.6 uint8_t* unpack_voice_SLQSVoiceGetCallBarring_t::pSvcClass

8.1382 unpack_voice_SLQSVoiceGetCallForwardingStatus_t Struct Reference

Data Fields

- voice_getCallFWInfo * pGetCallFWInfo
- uint16_t * pFailCause
- voice_alphaIDInfo * pAlphaIDInfo
- uint8_t * pCCResType
- uint8_t * pCallID
- voice_ccSUPSType * pCCSUPSType
- voice_getCallFWExtInfo * pGetCallFWExtInfo

8.1382.1 Detailed Description

This structure contains Voice Get Call Forwarding Status Unpack Parameters

Parameters

pGetCallFWInfo	• Pointer to structure of getCallFWInfo (optional) – See voice_getCallFWInfo for more information • NULL pointer - Invalid data.
pFailCause	• Supplementary services failure cause (optional) • see qaGobiApiTableVoiceCallEndReasons.h for more information. • 0xFFFF,if Not Available • NULL pointer - Invalid data.
pAlphaIDInfo	• Pointer to structure of alphaIDInfo (optional) – See voice_alphaIDInfo for more information • NULL pointer - Invalid data.

pCCResType	• Call Control Result Type (optional) – 0x00 - CC_RESULT_TYPE_VOICE - Voice – 0x01 - CC_RESULT_TYPE_SUPS - Supplementary service – 0x02 - CC_RESULT_TYPE_USSD - Unstructured supplementary service – 0xFF - Not Available • NULL pointer - Invalid data.
pCallID	• Call ID of the voice call that resulted from call control. (optional) • It is present when pCCResType is present and is Voice. • If zero(0) then invalid. • NULL pointer - Invalid data.
pCCSUPSType	• Supplementary service data that resulted from call control (optional) • Data is present when pCCResultType is present and is other than Voice. – See voice_ccSUPSType for more information • NULL pointer - Invalid data.
pGetCallFWExt-Info	• Pointer to structure of getCallFWExtInfo (optional) – See voice_getCallFWExtInfo for more information • NULL pointer - Invalid data.

Note

Using NULL for the pointers would make sure that the parameter is not returned or has default value.

8.1382.2 Field Documentation

8.1382.2.1 voice_alphaIDInfo* unpack_voice_SLQSVoiceGetCallForwardingStatus_t::pAlphaIDInfo

8.1382.2.2 uint8_t* unpack_voice_SLQSVoiceGetCallForwardingStatus_t::pCallID

8.1382.2.3 uint8_t* unpack_voice_SLQSVoiceGetCallForwardingStatus_t::pCCResType

8.1382.2.4 voice_ccSUPSType* unpack_voice_SLQSVoiceGetCallForwardingStatus_t::pCCSUPSType

8.1382.2.5 uint16_t* unpack_voice_SLQSVoiceGetCallForwardingStatus_t::pFailCause

8.1382.2.6 voice_getCallFWExtInfo* unpack_voice_SLQSVoiceGetCallForwardingStatus_t::pGetCallFWExtInfo

8.1382.2.7 voice_getCallFWInfo* unpack_voice_SLQSVoiceGetCallForwardingStatus_t::pGetCallFWInfo

8.1383 unpack_voice_SLQSVoiceGetCallInfo_t Struct Reference

Data Fields

- voice_callInfo * pCallInfo
- voice_remotePartyNum * pRemotePartyNum

- uint16_t * pSrvOpt
- uint8_t * pVoicePrivacy
- uint8_t * pOTASPStatus
- voice_remotePartyName * pRemotePartyName
- voice_UUSInfo * pUUSInfo
- uint8_t * pAlertType
- voice_alphaIDInfo * pAlphaIDInfo
- voice_connectNumInfo * pConnectNumInfo
- voice_diagInfo * pDiagInfo
- uint32_t * pAlertingPattern

8.1383.1 Detailed Description

This structure contains information of the unpack parameters associated with a call.

Parameters

pCallInfo(optional)	• See voice_callInfo for more information. • NULL pointer - Invalid data.
pRemotePartyNum(optional)	• See voice_remotePartyNum for more information. • NULL pointer - Invalid data.
pSrvOpt	• Service option(optional) • Applicable only for 3GPP2 devices. • See Table8 qaGobiApiTableServiceOptions.h for standard service option number assignments. • NULL pointer - Invalid data.
pVoicePrivacy	• Voice Privacy.(optional) • Applicable only for 3GPP2 devices. • Values. – 0x00 - VOICE_PRIVACY_STANDARD - Standard privacy – 0x01 - VOICE_PRIVACY_ENHANCED - Enhanced privacy – 0xFF - Not Available • NULL pointer - Invalid data.

pOTASPStatus	• OTASP status for the OTASP call.(optional) • Applicable only for 3GPP2 devices. – 0x00 - OTASP_STATUS_SPL_UNLOCKED - SPL unlocked; only for user-initiated OTASP – 0x01 - OTASP_STATUS_SPRC_RETRIES_EXCEEDED - SPC retries exceeded; only for user-initiated OTASP – 0x02 - OTASP_STATUS_AKEY_EXCHANGED - A-key exchanged; only for user-initiated OTASP – 0x03 - OTASP_STATUS_SSD_UPDATED - SSD updated; for both user-initiated OTASP and network-initiated OTASP (OTAPA) – 0x04 - OTASP_STATUS_NAM_DOWNLOADED - NAM downloaded; only for user-initiated OTASP – 0x05 - OTASP_STATUS_MDN_DOWNLOADED - MDN downloaded; only for user-initiated OTASP – 0x06 - OTASP_STATUS_IMSI_DOWNLOADED - IMSI downloaded; only for user-initiated OTASP – 0x07 - OTASP_STATUS_PRL_DOWNLOADED - PRL downloaded; only for user-initiated OTASP – 0x08 - OTASP_STATUS_COMMITTED - Commit successful; only for user-initiated OTASP – 0x09 - OTASP_STATUS_OTAPA_STARTED - OTAPA started; only for network-initiated OTASP (OTAPA) – 0x0A - OTASP_STATUS_OTAPA_STOPPED - OTAPA stopped; only for network-initiated OTASP (OTAPA) – 0x0B - OTASP_STATUS_OTAPA_ABORTED - OTAPA aborted; only for network-initiated OTASP (OTAPA) – 0x0C - OTASP_STATUS_OTAPA_COMMITTED - OTAPA committed; only for network-initiated OTASP (OTAPA) – 0xFF - Not Available • NULL pointer - Invalid data.
pRemoteParty-Name(optional)	• Applicable only for 3GPP devices. • See voice_remotePartyName for more information. • NULL pointer - Invalid data.
pUUS-Info(optional)	• Applicable only for 3GPP devices. • See voice_UUSInfo for more information. • NULL pointer - Invalid data.
pAlert-Type(optional)	• Alerting type. • Applicable only for 3GPP devices. – 0x00 - ALERTING_LOCAL - Local – 0x01 - ALERTING_REMOTE - Remote – 0xFF - Not Available • NULL pointer - Invalid data.

pAlphaID-Info(optional)	• Applicable only for 3GPP devices. • See voice_alphaIDInfo for more information. • NULL pointer - Invalid data.
pConnectNum-Info(optional)	• See voice_connectNumInfo for more information. • NULL pointer - Invalid data.
pDiag-Info(optional)	• See voice_diagInfo for more information. • NULL pointer - Invalid data.
pAlertingPattern	• Alerting pattern.(optional) – 0x00 - QMI_VOICE_ALERTING_PATTERN_1 - Pattern 1 – 0x01 - QMI_VOICE_ALERTING_PATTERN_2 - Pattern 2 – 0x02 - QMI_VOICE_ALERTING_PATTERN_3 - Pattern 3 – 0x04 - QMI_VOICE_ALERTING_PATTERN_5 - Pattern 5 – 0x05 - QMI_VOICE_ALERTING_PATTERN_6 - Pattern 6 – 0x06 - QMI_VOICE_ALERTING_PATTERN_7 - Pattern 7 – 0x07 - QMI_VOICE_ALERTING_PATTERN_8 - Pattern 8 – 0x08 - QMI_VOICE_ALERTING_PATTERN_9 - Pattern 9 – 0xFF - Not Available • NULL pointer - Invalid data.

8.1383.2 Field Documentation

8.1383.2.1 uint32_t* unpack_voice_SLQSVoiceGetCallInfo_t::pAlertingPattern

8.1383.2.2 uint8_t* unpack_voice_SLQSVoiceGetCallInfo_t::pAlertType

8.1383.2.3 voice_alphaIDInfo* unpack_voice_SLQSVoiceGetCallInfo_t::pAlphaIDInfo

8.1383.2.4 voice_callInfo* unpack_voice_SLQSVoiceGetCallInfo_t::pCallInfo

8.1383.2.5 voice_connectNumInfo* unpack_voice_SLQSVoiceGetCallInfo_t::pConnectNumInfo

8.1383.2.6 voice_diagInfo* unpack_voice_SLQSVoiceGetCallInfo_t::pDiagInfo

8.1383.2.7 uint8_t* unpack_voice_SLQSVoiceGetCallInfo_t::pOTASPStatus

8.1383.2.8 voice_remotePartyName* unpack_voice_SLQSVoiceGetCallInfo_t::pRemotePartyName

8.1383.2.9 voice_remotePartyNum* unpack_voice_SLQSVoiceGetCallInfo_t::pRemotePartyNum

8.1383.2.10 uint16_t* unpack_voice_SLQSVoiceGetCallInfo_t::pSrvOpt

8.1383.2.11 voice_UUSInfo* unpack_voice_SLQSVoiceGetCallInfo_t::pUUSInfo

8.1383.2.12 uint8_t* unpack_voice_SLQSVoiceGetCallInfo_t::pVoicePrivacy

8.1384 unpack_voice_SLQSVoiceGetCallWaiting_t Struct Reference

Data Fields

- uint8_t * pSvcClass
- uint16_t * pFailCause
- voice_alphaIDInfo * pAlphaIDInfo
- uint8_t * pCCResType
- uint8_t * pCallID
- voice_ccSUPSType * pCCSUPSType

8.1384.1 Detailed Description

This structure contains Voice Get Call Waiting Unpack Parameters

Parameters

pSvcClass	• Service class is a combination (sum) of information class constants (optional) • See qaGobiApiTableSupServiceInfoClasses.h for service classes. • Service Class is set to 0 if call waiting is not active for any of the information classes. • 0xFF,if Not Available • NULL pointer - Invalid data.
pFailCause	• Supplementary services failure cause (optional) • see qaGobiApiTableVoiceCallEndReasons.h for more information. • 0xFFFF,if Not Available • NULL pointer - Invalid data.
pAlphaIDInfo	• Pointer to structure of alphaIDInfo (optional) – See voice_alphaIDInfo for more information • NULL pointer - Invalid data.

pCCResType	• Call Control Result Type (optional)
	  – 0x00 - CC_RESULT_TYPE_VOICE - Voice
	  – 0x01 - CC_RESULT_TYPE_SUPS - Supplementary service
	  – 0x02 - CC_RESULT_TYPE_USSD - Unstructured supplementary service
	  – 0xFF - Not Available
	• NULL pointer - Invalid data.

pCallID	• Call ID of the voice call that resulted from call control. (optional) • It is present when pCCResType is present and is Voice. • If zero(0) then invalid. • NULL pointer - Invalid data.

pCCSUPSType	• Supplementary service data that resulted from call control (optional) • Data is present when pCCResultType is present and is other than Voice. – See voice_ccSUPSType for more information • NULL pointer - Invalid data.

Note

Using NULL for the pointers would make sure that the parameter is not returned or has default value.

8.1384.2 Field Documentation

8.1384.2.1 voice_alphaIDInfo* unpack_voice_SLQSVoiceGetCallWaiting_t::pAlphaIDInfo

8.1384.2.2 uint8_t* unpack_voice_SLQSVoiceGetCallWaiting_t::pCallID

8.1384.2.3 uint8_t* unpack_voice_SLQSVoiceGetCallWaiting_t::pCCResType

8.1384.2.4 voice_ccSUPSType* unpack_voice_SLQSVoiceGetCallWaiting_t::pCCSUPSType

8.1384.2.5 uint16_t* unpack_voice_SLQSVoiceGetCallWaiting_t::pFailCause

8.1384.2.6 uint8_t* unpack_voice_SLQSVoiceGetCallWaiting_t::pSvcClass

8.1385 unpack_voice_SLQSVoiceGetCLIP_t Struct Reference

Data Fields

- voice_CLIPResp * pCLIPResp
- uint16_t * pFailCause
- voice_alphaIDInfo * pAlphaIDInfo
- uint8_t * pCCResType
- uint8_t * pCallID
- voice_ccSUPSType * pCCSUPSType

8.1385.1 Detailed Description

This structure contains Voice Get Calling Line Identification Presentation(CLIP) Response Parameters

Parameters

pCLIPResp	• Pointer to structure of CLIPResp (optional) – See voice_CLIPResp for more information • NULL pointer - Invalid data.
pFailCause	• Supplementary services failure cause (optional) • see qaGobiApiTableVoiceCallEndReasons.h for more information. • 0xFFFF,if Not Available • NULL pointer - Invalid data.

pAlphaIDInfo	• Pointer to structure of alphaIDInfo (optional) – See voice_alphaIDInfo for more information
pCCResType	• Call Control Result Type (optional) – 0x00 - CC_RESULT_TYPE_VOICE - Voice – 0x01 - CC_RESULT_TYPE_SUPS - Supplementary service – 0x02 - CC_RESULT_TYPE_USSD - Unstructured supplementary service – 0xFF - Not Available • NULL pointer - Invalid data.
pCallID	• Call ID of the voice call that resulted from call control. (optional) • It is present when pCCResType is present and is Voice. • If zero(0) then invalid. • NULL pointer - Invalid data.
pCCSUPSType	• Supplementary service data that resulted from call control (optional) • Data is present when pCCResultType is present and is other than Voice. – See voice_ccSUPSType for more information • NULL pointer - Invalid data.

Note

Using NULL for the pointers would make sure that the parameter is not returned or has default value.

8.1385.2 Field Documentation

8.1385.2.1 voice_alphaIDInfo* unpack_voice_SLQSVoiceGetCLIP_t::pAlphaIDInfo

8.1385.2.2 uint8_t* unpack_voice_SLQSVoiceGetCLIP_t::pCallID

8.1385.2.3 uint8_t* unpack_voice_SLQSVoiceGetCLIP_t::pCCResType

8.1385.2.4 voice_ccSUPSType* unpack_voice_SLQSVoiceGetCLIP_t::pCCSUPSType

8.1385.2.5 voice_CLIPResp* unpack_voice_SLQSVoiceGetCLIP_t::pCLIPResp

8.1385.2.6 uint16_t* unpack_voice_SLQSVoiceGetCLIP_t::pFailCause

8.1386 unpack_voice_SLQSVoiceGetCLIR_t Struct Reference

Data Fields

- voice_CLIRResp * pCLIRResp
- uint16_t * pFailCause
- voice_alphaIDInfo * pAlphaIDInfo
- uint8_t * pCCResType
- uint8_t * pCallID
- voice_ccSUPSType * pCCSUPSType

8.1386.1 Detailed Description

This structure contains Voice Get Calling Line Identification Restriction (CLIR) Response Parameters

Parameters

pCLIRResp	• Pointer to structure of CLIRResp (optional) – See voice_CLIRResp for more information • NULL pointer - Invalid data.
pFailCause	• Supplementary services failure cause (optional) • see qaGobiApiTableVoiceCallEndReasons.h for more information. • 0xFFFF,if Not Available • NULL pointer - Invalid data.
pAlphaIDInfo	• Pointer to structure of alphaIDInfo (optional) – See voice_alphaIDInfo for more information • NULL pointer - Invalid data.

pCCResType	• Call Control Result Type (optional)
	  – 0x00 - CC_RESULT_TYPE_VOICE - Voice
	  – 0x01 - CC_RESULT_TYPE_SUPS - Supplementary service
	  – 0x02 - CC_RESULT_TYPE_USSD - Unstructured supplementary service
	  – 0xFF - Not Available
	• NULL pointer - Invalid data.

pCallID	• Call ID of the voice call that resulted from call control. (optional) • It is present when pCCResType is present and is Voice. • If zero(0) then invalid. • NULL pointer - Invalid data.
pCCSUPSType	• Supplementary service data that resulted from call control (optional) • Data is present when pCCResultType is present and is other than Voice. – See voice_ccSUPSType for more information • NULL pointer - Invalid data.

Note

Using NULL for the pointers would make sure that the parameter is not returned or has default value.

8.1386.2 Field Documentation

8.1386.2.1 voice_alphaIDInfo* unpack_voice_SLQSVoiceGetCLIR_t::pAlphaIDInfo

8.1386.2.2 uint8_t* unpack_voice_SLQSVoiceGetCLIR_t::pCallID

8.1386.2.3 uint8_t* unpack_voice_SLQSVoiceGetCLIR_t::pCCResType

8.1386.2.4 voice_ccSUPSType* unpack_voice_SLQSVoiceGetCLIR_t::pCCSUPSType

8.1386.2.5 voice_CLIRResp* unpack_voice_SLQSVoiceGetCLIR_t::pCLIRResp

8.1386.2.6 uint16_t* unpack_voice_SLQSVoiceGetCLIR_t::pFailCause

8.1387 unpack_voice_SLQSVoiceGetCNAP_t Struct Reference

Data Fields

- voice_CNAPResp * pCNAPResp
- uint16_t * pFailCause
- voice_alphaIDInfo * pAlphaIDInfo
- uint8_t * pCCResType
- uint8_t * pCallID
- voice_ccSUPSType * pCCSUPSType

8.1387.1 Detailed Description

This structure contains Voice Get Calling Name Presentation(CNAP) Response Parameters

Parameters

pCNAPResp	• Pointer to structure of CNAPResp (optional) – See voice_CNAPResp for more information • NULL pointer - Invalid data.
pFailCause	• Supplementary services failure cause (optional) • see qaGobiApiTableVoiceCallEndReasons.h for more information. • 0xFFFF,if Not Available • NULL pointer - Invalid data.
pAlphaIDInfo	• Pointer to structure of alphaIDInfo (optional) – See voice_alphaIDInfo for more information • NULL pointer - Invalid data.

pCCResType	• Call Control Result Type (optional)
	  – 0x00 - CC_RESULT_TYPE_VOICE - Voice
	  – 0x01 - CC_RESULT_TYPE_SUPS - Supplementary service
	  – 0x02 - CC_RESULT_TYPE_USSD - Unstructured supplementary service
	  – 0xFF - Not Available
	• NULL pointer - Invalid data.

pCallID	• Call ID of the voice call that resulted from call control. (optional) • It is present when pCCResType is present and is Voice. • If zero(0) then invalid. • NULL pointer - Invalid data.
pCCSUPSType	• Supplementary service data that resulted from call control (optional) • Data is present when pCCResultType is present and is other than Voice. – See voice_ccSUPSType for more information • NULL pointer - Invalid data.

Note

Using NULL for the pointers would make sure that the parameter is not returned or has default value.

8.1387.2 Field Documentation

8.1387.2.1 voice_alphaIDInfo* unpack_voice_SLQSVoiceGetCNAP_t::pAlphaIDInfo

8.1387.2.2 uint8_t* unpack_voice_SLQSVoiceGetCNAP_t::pCallID

8.1387.2.3 uint8_t* unpack_voice_SLQSVoiceGetCNAP_t::pCCResType

8.1387.2.4 voice_ccSUPSType* unpack_voice_SLQSVoiceGetCNAP_t::pCCSUPSType

8.1387.2.5 voice_CNAPResp* unpack_voice_SLQSVoiceGetCNAP_t::pCNAPResp

8.1387.2.6 uint16_t* unpack_voice_SLQSVoiceGetCNAP_t::pFailCause

8.1388 unpack_voice_SLQSVoiceGetCOLP_t Struct Reference

Data Fields

- voice_COLPResp * pCOLPResp
- uint16_t * pFailCause
- voice_alphaIDInfo * pAlphaIDInfo
- uint8_t * pCCResType
- uint8_t * pCallID
- voice_ccSUPSType * pCCSUPSType

8.1388.1 Detailed Description

This structure contains Voice Get Connected Line Identification Presentation(COLP) Response Parameters

Parameters

pCOLPResp	• Pointer to structure of COLPResp (optional) – See voice_COLPResp for more information • NULL pointer - Invalid data.

pFailCause	• Supplementary services failure cause (optional) • see qaGobiApiTableVoiceCallEndReasons.h for more information. • 0xFFFF,if Not Available • NULL pointer - Invalid data.
pAlphaIDInfo	• Pointer to structure of alphaIDInfo (optional) – See voice_alphaIDInfo for more information • NULL pointer - Invalid data.
pCCResType	• Call Control Result Type (optional) – 0x00 - CC_RESULT_TYPE_VOICE - Voice – 0x01 - CC_RESULT_TYPE_SUPS - Supplementary service – 0x02 - CC_RESULT_TYPE_USSD - Unstructured supplementary service – 0xFF - Not Available • NULL pointer - Invalid data.
pCallID	• Call ID of the voice call that resulted from call control. (optional) • It is present when pCCResType is present and is Voice. • If zero(0) then invalid. • NULL pointer - Invalid data.
pCCSUPSType	• Supplementary service data that resulted from call control (optional) • Data is present when pCCResultType is present and is other than Voice. – See voice_ccSUPSType for more information • NULL pointer - Invalid data.

Note

Using NULL for the pointers would make sure that the parameter is not returned or has default value.

8.1388.2 Field Documentation

8.1388.2.1 voice_alphaIDInfo* unpack_voice_SLQSVoiceGetCOLP_t::pAlphaIDInfo

8.1388.2.2 uint8_t* unpack_voice_SLQSVoiceGetCOLP_t::pCallID

8.1388.2.3 uint8_t* unpack_voice_SLQSVoiceGetCOLP_t::pCCResType

8.1388.2.4 voice_ccSUPSType* unpack_voice_SLQSVoiceGetCOLP_t::pCCSUPSType

8.1388.2.5 voice_COLPResp* unpack_voice_SLQSVoiceGetCOLP_t::pCOLPResp

8.1388.2.6 uint16_t* unpack_voice_SLQSVoiceGetCOLP_t::pFailCause

8.1389 unpack_voice_SLQSVoiceGetCOLR_t Struct Reference

Data Fields

- voice_COLRResp * pCOLRResp
- uint16_t * pFailCause
- voice_alphaIDInfo * pAlphaIDInfo
- uint8_t * pCCResType
- uint8_t * pCallID
- voice_ccSUPSType * pCCSUPSType

8.1389.1 Detailed Description

This structure contains Voice Get Connected Line Identification Restriction(COLR) Response Parameters

Parameters

pCOLRResp	• Pointer to structure of COLRResp (optional) – See voice_COLRResp for more information • NULL pointer - Invalid data.
pFailCause	• Supplementary services failure cause (optional) • see qaGobiApiTableVoiceCallEndReasons.h for more information. • 0xFFFF,if Not Available • NULL pointer - Invalid data.
pAlphaIDInfo	• Pointer to structure of alphaIDInfo (optional) – See voice_alphaIDInfo for more information • NULL pointer - Invalid data.

pCCResType	• Call Control Result Type (optional)
	  – 0x00 - CC_RESULT_TYPE_VOICE - Voice
	  – 0x01 - CC_RESULT_TYPE_SUPS - Supplementary service
	  – 0x02 - CC_RESULT_TYPE_USSD - Unstructured supplementary service
	  – 0xFF - Not Available
	• NULL pointer - Invalid data.

pCallID	• Call ID of the voice call that resulted from call control. (optional) • It is present when pCCResType is present and is Voice. • If zero(0) then invalid. • NULL pointer - Invalid data.
pCCSUPSType	• Supplementary service data that resulted from call control (optional) • Data is present when pCCResultType is present and is other than Voice. – See voice_ccSUPSType for more information • NULL pointer - Invalid data.

Note

Using NULL for the pointers would make sure that the parameter is not returned or has default value.

8.1389.2 Field Documentation

8.1389.2.1 voice_alphaIDInfo* unpack_voice_SLQSVoiceGetCOLR_t::pAlphaIDInfo

8.1389.2.2 uint8_t* unpack_voice_SLQSVoiceGetCOLR_t::pCallID

8.1389.2.3 uint8_t* unpack_voice_SLQSVoiceGetCOLR_t::pCCResType

8.1389.2.4 voice_ccSUPSType* unpack_voice_SLQSVoiceGetCOLR_t::pCCSUPSType

8.1389.2.5 voice_COLRResp* unpack_voice_SLQSVoiceGetCOLR_t::pCOLRResp

8.1389.2.6 uint16_t* unpack_voice_SLQSVoiceGetCOLR_t::pFailCause

8.1390 unpack_voice_SLQSVoiceGetConfig_t Struct Reference

Data Fields

- uint8_t * pAutoAnswerStat
- voice_airTimer * pAirTimerCnt
- voice_roamTimer * pRoamTimerCnt
- uint8_t * pCurrTTYMode
- voice_prefVoiceSO * pCurPrefVoiceSO
- voice_curAMRConfig * pCurAMRConfig
- uint8_t * pCurVoicePrivacyPref
- uint8_t * pCurVoiceDomainPref

8.1390.1 Detailed Description

This structure contains Voice Get Configuration Response Parameters.

Parameters

pAutoAnswer-Stat(optional)	• Auto Answer Status • Value returned is read from NV_AUTO_ANSWER_I. – 0x00 - Disabled – 0x01 - Enabled – 0xFF - Not Available • NULL pointer - Invalid data.
pAirTimer-Cnt(optional)	• Air Timer Count • Value returned is read from NV_AIR_CNT_I. • See voice_airTimer for more information • NULL pointer - Invalid data.

pRoamTimer-Cnt(optional)	• Roam Timer Count • Value returned is read from NV_ROAM_CNT_I. • See voice_roamTimer for more information • NULL pointer - Invalid data.
pCurrTTY-Mode(optional)	• Current TTY Mode • Value returned is read from NV_TTY_I. – 0x00 - TTY_MODE_FULL - Full – 0x01 - TTY_MODE_VCO - Voice carry over – 0x02 - TTY_MODE_HCO - Hearing carry over – 0x03 - TTY_MODE_OFF - Off – 0xFF - Not Available • NULL pointer - Invalid data.
pCurPrefVoiceS-O(optional)	• Current Preferred Voice SO • Value returned is read from NV_PREF_VOICE_SO_I. • See voice_prefVoiceSO for more information • NULL pointer - Invalid data.
pCurAMR-Config(optional)	• Current Adaptive Multi-Rate Configuration. • Values returned are read from NV_GSM_ARM_CALL_CONFIG_I and NV_UMTS_AMR_COD-EC_PREFERENCE_CONFIG_I. • See voice_curAMRConfig for more information • NULL pointer - Invalid data.
pCurVoice-Privacy-Pref(optional)	• Current Voice Privacy Preference • Value returned is read from NV_VOICE_PRIV_I. – 0x00 - Standard privacy – 0x01 - Enhanced privacy – 0xFF - Not Available • NULL pointer - Invalid data.
pCurVoice-Domain-Pref(optional)	• Current Voice Domain Preference. – 0x00 - Circuit-switched (CS) only – 0x01 - Packet-switched (PS) only – 0x02 - CS is preferred; PS is secondary – 0x03 - PS is preferred; CS is secondary – 0xFF - Not Available • NULL pointer - Invalid data.

Note

Using NULL for the pointers would make sure that the parameter is not returned or has default value.

8.1390.2 Field Documentation

8.1390.2.1 voice_airTimer* unpack_voice_SLQSVoiceGetConfig_t::pAirTimerCnt

8.1390.2.2 uint8_t* unpack_voice_SLQSVoiceGetConfig_t::pAutoAnswerStat

8.1390.2.3 voice_curAMRConfig* unpack_voice_SLQSVoiceGetConfig_t::pCurAMRConfig

8.1390.2.4 voice_prefVoiceSO* unpack_voice_SLQSVoiceGetConfig_t::pCurPrefVoiceSO

8.1390.2.5 uint8_t* unpack_voice_SLQSVoiceGetConfig_t::pCurrTTYMode

8.1390.2.6 uint8_t* unpack_voice_SLQSVoiceGetConfig_t::pCurVoiceDomainPref

8.1390.2.7 uint8_t* unpack_voice_SLQSVoiceGetConfig_t::pCurVoicePrivacyPref

8.1390.2.8 voice_roamTimer* unpack_voice_SLQSVoiceGetConfig_t::pRoamTimerCnt

8.1391 unpack_voice_SLQSVoiceManageCalls_t Struct Reference

Data Fields

- uint16_t * pFailCause

8.1391.1 Detailed Description

This structure contains Failure cause Information. Populated when API Fails.

Parameters

pFailCause	• Supplementary service failure causes (optional, supply NULL if not required). • See Table8 qaGobiApiTableVoiceCallEndReasons.h for supplementary services failure cause – 0xFFFF is the value when the information is not received from device • NULL pointer - Invalid data.

8.1391.2 Field Documentation

8.1391.2.1 uint16_t* unpack_voice_SLQSVoiceManageCalls_t::pFailCause

8.1392 unpack_voice_SLQSVoiceSendFlash_t Struct Reference

Data Fields

- uint8_t * pCallID

8.1392.1 Detailed Description

This structure contains the flash information associated with a call.

Parameters

pCallID	• Unique call identifier associated with the current call. • NULL pointer - Invalid data.

8.1392.2 Field Documentation

8.1392.2.1 uint8_t* unpack_voice_SLQSVoiceSendFlash_t::pCallID

8.1393 unpack_voice_SLQSVoiceSetCallBarringPassword_t Struct Reference

Data Fields

- uint16_t * pFailCause
- voice_alphaIDInfo * pAlphaIDInfo
- uint8_t * pCCResType
- uint8_t * pCallID
- voice_ccSUPSType * pCCSUPSType

8.1393.1 Detailed Description

This structure contains Voice Set Call Barring Password Unpack Parameters

Parameters

pFailCause	• Supplementary services failure cause (optional) • see qaGobiApiTableVoiceCallEndReasons.h for more information. • 0xFFFF,if Not Available • NULL pointer - Invalid data.
pAlphaIDInfo	• Pointer to structure of alphaIDInfo (optional) – See voice_alphaIDInfo for more information • NULL pointer - Invalid data.

pCCResType	• Call Control Result Type (optional)
	  – 0x00 - CC_RESULT_TYPE_VOICE - Voice
	  – 0x01 - CC_RESULT_TYPE_SUPS - Supplementary service
	  – 0x02 - CC_RESULT_TYPE_USSD - Unstructured supplementary service
	  – 0xFF - Not Available
	• NULL pointer - Invalid data.

pCallID	• Call ID of the voice call that resulted from call control. (optional) • It is present when pCCResType is present and is Voice. • If zero(0) then invalid. • NULL pointer - Invalid data.

pCCSUPSType	• Supplementary service data that resulted from call control (optional) • Data is present when pCCResultType is present and is other than Voice. – See voice_ccSUPSType for more information • NULL pointer - Invalid data.

Note

Using NULL for the pointers would make sure that the parameter is not returned or has default value.

8.1393.2 Field Documentation

8.1393.2.1 voice_alphaIDInfo* unpack_voice_SLQSVoiceSetCallBarringPassword_t::pAlphaIDInfo

8.1393.2.2 uint8_t* unpack_voice_SLQSVoiceSetCallBarringPassword_t::pCallID

8.1393.2.3 uint8_t* unpack_voice_SLQSVoiceSetCallBarringPassword_t::pCCResType

8.1393.2.4 voice_ccSUPSType* unpack_voice_SLQSVoiceSetCallBarringPassword_t::pCCSUPSType

8.1393.2.5 uint16_t* unpack_voice_SLQSVoiceSetCallBarringPassword_t::pFailCause

8.1394 unpack_voice_SLQSVoiceSetConfig_t Struct Reference

Data Fields

- uint8_t * pAutoAnsStatus
- uint8_t * pAirTimerStatus
- uint8_t * pRoamTimerStatus
- uint8_t * pTTYConfigStatus
- uint8_t * pPrefVoiceSOStatus
- uint8_t * pVoiceDomainPrefStatus

8.1394.1 Detailed Description

This structure contains information about the Set Configuration Response Parameters.

Parameters

pAutoAnsStatus	• Auto Answer Status. (optional)
	• Values:
	  – 0x00 - Information was written successfully
	  – 0x01 - Information write failed
	  – 0xFF - Not Available.
	  – NULL pointer - Invalid data.

pAirTimerStatus	• Air Timer Status. (optional) • Values: – 0x00 - Information was written successfully – 0x01 - Information write failed – 0xFF - Not Available. – NULL pointer - Invalid data.
pRoamTimer-Status	• Roam Timer Status. (optional) • Values: – 0x00 - Information was written successfully – 0x01 - Information write failed – 0xFF - Not Available. – NULL pointer - Invalid data.
pTTYConfig-Status	• TTY Config Status. (optional) • Values: – 0x00 - Information was written successfully – 0x01 - Information write failed – 0xFF - Not Available. – NULL pointer - Invalid data.
pPrefVoiceSO-Status	• Preferred Voice SO Status. (optional) • Values: – 0x00 - Information was written successfully – 0x01 - Information write failed – 0xFF - Not Available. – NULL pointer - Invalid data.
pVoiceDomain-PrefStatus	• Voice-Domain Preference Status. (optional) • Values: – 0x00 - Information was written successfully – 0x01 - Information write failed – 0xFF - Not Available. – NULL pointer - Invalid data.

Note

Parameters which are mentioned as NULL will be ignored.

8.1394.2 Field Documentation

8.1394.2.1 uint8_t* unpack_voice_SLQSVoiceSetConfig_t::pAirTimerStatus

8.1394.2.2 uint8_t* unpack_voice_SLQSVoiceSetConfig_t::pAutoAnsStatus

8.1394.2.3 uint8_t* unpack_voice_SLQSVoiceSetConfig_t::pPrefVoiceSOStatus

8.1394.2.4 uint8_t* unpack_voice_SLQSVoiceSetConfig_t::pRoamTimerStatus

8.1394.2.5 uint8_t* unpack_voice_SLQSVoiceSetConfig_t::pTTYConfigStatus

8.1394.2.6 uint8_t* unpack_voice_SLQSVoiceSetConfig_t::pVoiceDomainPrefStatus

8.1395 unpack_voice_SLQSVoiceSetSUPSService_t Struct Reference

Data Fields

- uint16_t * pFailCause
- voice_alphaIDInfo * pAlphaIDInfo
- uint8_t * pCCResultType
- uint8_t * pCallID
- voice_ccSUPSType * pCCSUPSType

8.1395.1 Detailed Description

This structure contains Supplementary Service response parameters related to different features and their activation, deactivation, registration and erasure (applicable only for 3GPP)

Parameters

pFailCause	• Supplementary service failure causes (optional, supply NULL if not required). – 0xFFFF is the value when the information is not received from device – NULL pointer - Invalid data.
pAlphaIDInfo	• Pointer to structure of alphaIDInfo. The parameter used to pass the alpha (if any) given by the SIM/R-UIM after call control (optional, supply NULL if not required) – See voice_alphaIDInfo for more information – NULL pointer - Invalid data.
pCCResultType	• Call control result types (optional, supply NULL if not required) – 0x00 - CC_RESULT_TYPE_VOICE - Voice – 0x01 - CC_RESULT_TYPE_SUPS - Supplementary service – 0x02 - CC_RESULT_TYPE_USSD - Unstructured supplementary service – 0xFF - if the device does not provide this information – NULL pointer - Invalid data.
pCallID	• Unique call identifier for the dialed call (optional, supply NULL if not required) – 0x00 - if the device does not provide this information – NULL pointer - Invalid data.

pCCSUPSType	• Data is present when pCCResultType is present and is other than Voice. (optional, supply NULL if not required) – See voice_ccSUPSType for more information – NULL pointer - Invalid data.

8.1395.2 Field Documentation

8.1395.2.1 voice_alphaIDInfo* unpack_voice_SLQSVoiceSetSUPSService_t::pAlphaIDInfo

8.1395.2.2 uint8_t* unpack_voice_SLQSVoiceSetSUPSService_t::pCallID

8.1395.2.3 uint8_t* unpack_voice_SLQSVoiceSetSUPSService_t::pCCResultType

8.1395.2.4 voice_ccSUPSType* unpack_voice_SLQSVoiceSetSUPSService_t::pCCSUPSType

8.1395.2.5 uint16_t* unpack_voice_SLQSVoiceSetSUPSService_t::pFailCause

8.1396 unpack_voice_SLQSVoiceStartContDTMF_t Struct Reference

Data Fields

- uint8_t * pCallID

8.1396.1 Detailed Description

This structure contains parameters of continuous DTMF

Parameters

pCallID	• Call ID associated with call on which the DTMF information has to be sent. Start continuous DTMF request is sent to the current active/alerting call when pCallId is set to 0xFF. • This is IN/OUT parameter, value passed by user will be packed in request and value received from the device would be returned to the user. • If the call ID value received is 0, no value has been returned by the device • NULL pointer - Invalid data.

8.1396.2 Field Documentation

8.1396.2.1 uint8_t* unpack_voice_SLQSVoiceStartContDTMF_t::pCallID

8.1397 unpack_voice_SLQSVoiceStopContDTMF_t Struct Reference

Data Fields

- uint8_t callID

8.1397.1 Detailed Description

This structure contains parameters of stop continuous DTMF

Parameters

pCallID	• Call ID associated with call on which the DTMF information has to be sent. Stop continuous DTMF request is sent to the current active/alerting call when pCallId is set to 0xFF. • This is IN/OUT parameter, value passed by user will be packed in request and value received from the device would be returned to the user. • If the call ID value received is 0, no value has been returned by the device

8.1397.2 Field Documentation

8.1397.2.1 uint8_t unpack_voice_SLQSVoiceStopContDTMF_t::callID

8.1398 unpack_voice_SLQSVoiceSUPSCallback_ind_t Struct Reference

Data Fields

- voice_SUPSInfo SUPSInformation
- uint8_t * pSvcClass
- uint8_t * pReason
- uint8_t * pCallFWNum
- uint8_t * pCallFWTimerVal
- struct voice_USSInfo * pUSSInfo
- uint8_t * pCallID
- voice_alphaIDInfo * pAlphaIDInfo
- uint8_t * pCallBarPasswd
- voice_newPwdData * pNewPwdData
- uint8_t * pDataSrc
- uint16_t * pFailCause
- voice_getCallFWInfo * pCallFwdInfo
- voice_CLIRResp * pCLIRstatus
- voice_CLIPResp * pCLIPstatus
- voice_COLPResp * pCOLPstatus
- voice_COLRResp * pCOLRstatus
- voice_CNAPResp * pCNAPstatus

8.1398.1 Detailed Description

This structure contains the parameters passed for SUPS info indication by the device.

Parameters

SUPS-Information(mandatory)	See voice_SUPSInfo for more information.
pSvc-Class(optional)	• Service class is a combination (sum) of information class constants (optional) • See qaGobiApiTableSupServiceInfoClasses.h for service classes.

p-Reason(optional)	• See qaGobiApiTableCallControlReturnReasons.h for return reasons.
pCallFW-Num(optional)	• Call forwarding number to be registered with the network. • ASCII String, NULL terminated.
pCallFWTimer-Val(optional)	• Call Forwarding No Reply Timer. – Range: 5 to 30 in steps of 5.
pUSS-Info(optional)	• See voice_USSInfo for more information.
pCallID(optional)	• Call identifier of the voice call that has been modified to a supplementary service as a result of call control.
pAlphaID-Info(optional)	• See voice_alphaIDInfo for more information.
pCallBar-Passwd(optional)	• Password is required if call barring is provisioned using a password. – Password consists of 4 ASCII digits. – Range: 0000 to 9999. • This also serves as the old password in the register password scenario.
pNewPwd-Data(optional)	• See voice_newPwdData for more information.
pData-Src(optional)	• Sups Data Source. • Used to distinguish between the supplementary service data sent to the network and the response received from the network. • If absent, the supplementary service data in this indication can be assumed as a request sent to the network.
pFail-Cause(optional)	• Supplementary services failure cause. • See qaGobiApiTableVoiceCallEndReasons.h for more information.
pCallFwd-Info(optional)	• See voice_getCallFWInfo for more information.
pCLI-Rstatus(optional)	• See voice_CLIRResp for more information.
pCLI-Pstatus(optional)	• See voice_CLIPResp for more information.
pCOL-Pstatus(optional)	• See voice_COLPResp for more information.

pCOL-Rstatus(optional)	• See voice_COLRResp for more information.
pCNA-Pstatus(optional)	• See voice_CNAPResp for more information.

Note

None

8.1398.2 Field Documentation

8.1398.2.1 voice_alphaIDInfo* unpack_voice_SLQSVoiceSUPSCallback_ind_t::pAlphaIDInfo

8.1398.2.2 uint8_t* unpack_voice_SLQSVoiceSUPSCallback_ind_t::pCallBarPasswd

8.1398.2.3 voice_getCallFWInfo* unpack_voice_SLQSVoiceSUPSCallback_ind_t::pCallFwdInfo

8.1398.2.4 uint8_t* unpack_voice_SLQSVoiceSUPSCallback_ind_t::pCallFWNum

8.1398.2.5 uint8_t* unpack_voice_SLQSVoiceSUPSCallback_ind_t::pCallFWTimerVal

8.1398.2.6 uint8_t* unpack_voice_SLQSVoiceSUPSCallback_ind_t::pCallID

8.1398.2.7 voice_CLIPResp* unpack_voice_SLQSVoiceSUPSCallback_ind_t::pCLIPstatus

8.1398.2.8 voice_CLIRResp* unpack_voice_SLQSVoiceSUPSCallback_ind_t::pCLIRstatus

8.1398.2.9 voice_CNAPResp* unpack_voice_SLQSVoiceSUPSCallback_ind_t::pCNAPstatus

8.1398.2.10 voice_COLPResp* unpack_voice_SLQSVoiceSUPSCallback_ind_t::pCOLPstatus

8.1398.2.11 voice_COLRResp* unpack_voice_SLQSVoiceSUPSCallback_ind_t::pCOLRstatus

8.1398.2.12 uint8_t* unpack_voice_SLQSVoiceSUPSCallback_ind_t::pDataSrc

8.1398.2.13 uint16_t* unpack_voice_SLQSVoiceSUPSCallback_ind_t::pFailCause

8.1398.2.14 voice_newPwdData* unpack_voice_SLQSVoiceSUPSCallback_ind_t::pNewPwdData

8.1398.2.15 uint8_t* unpack_voice_SLQSVoiceSUPSCallback_ind_t::pReason

8.1398.2.16 uint8_t* unpack_voice_SLQSVoiceSUPSCallback_ind_t::pSvcClass

8.1398.2.17 struct voice_USSInfo* unpack_voice_SLQSVoiceSUPSCallback_ind_t::pUSSInfo

8.1398.2.18 voice_SUPSInfo unpack_voice_SLQSVoiceSUPSCallback_ind_t::SUPSInformation

8.1399 unpack_voice_SUPSNotificationCallback_ind_t Struct Reference

Data Fields

- uint8_t callID

- uint8_t notifType
- uint16_t * pCUGIndex
- voice_ECTNum * pECTNum

8.1399.1 Detailed Description

Contains the parameters passed for SUPS notification indication by the device.

Parameters

callID	• Unique identifier of the call for which the notification is applicable. (mandatory)
notifType	• Notification type parameter (mandatory) – 0x01 - NOTIFICATION_TYPE_OUTGOING_CALL_IS_FORWARDED Originated MO call is being forwarded to another user – 0x02 - NOTIFICATION_TYPE_OUTGOING_CALL_IS_WAITING Originated MO call is waiting at the called user – 0x03 - NOTIFICATION_TYPE_OUTGOING_CUG_CALL Outgoing call is a CUG call – 0x04 - NOTIFICATION_TYPE_OUTGOING_CALLS_BARRED Outgoing calls are barred – 0x05 - NOTIFICATION_TYPE_OUTGOING_CALL_IS_DEFLECTED Outgoing call is deflected – 0x06 - NOTIFICATION_TYPE_INCOMING_CUG_CALL Incoming call is a CUG call – 0x07 - NOTIFICATION_TYPE_INCOMING_CALLS_BARRED Incoming calls are barred – 0x08 - NOTIFICATION_TYPE_INCOMING_FORWARDED_CALL Incoming call received is a forwarded call – 0x09 - NOTIFICATION_TYPE_INCOMING_DEFLECTED_CALL Incoming call is a deflected call – 0x0A - NOTIFICATION_TYPE_INCOMING_CALL_IS_FORWARDED Incoming call is forwarded to another user – 0x0B - NOTIFICATION_TYPE_UNCOND_CALL_FORWARD_ACTIVE Unconditional call forwarding is active – 0x0C - NOTIFICATION_TYPE_COND_CALL_FORWARD_ACTIVE Conditional call forwarding is active – 0x0D - NOTIFICATION_TYPE_CLIR_SUPPRESSION_REJECTED CLIR suppression is rejected – 0x0E - NOTIFICATION_TYPE_CALL_IS_ON_HOLD Call is put on hold at the remote party – 0x0F - NOTIFICATION_TYPE_CALL_IS_RETRIEVED Call is retrieved at the remote party from the hold state – 0x10 - NOTIFICATION_TYPE_CALL_IS_IN_MPTY Call is in a conference – 0x11 - NOTIFICATION_TYPE_INCOMING_CALL_IS_ECT Incoming call is an explicit call transfer
pCUGIndex	• The CUG Index used to indicate that the incoming/outgoing call is a CUG call. (optional, NULL when not present) Range: 0x00 to 0x7FFF.

pECTNum	• The ECT Number is used to indicate that the incoming call is an explicitly transferred call. (optional, NULL when not present) Refer ECTNum for details.

Note

None

8.1399.2 Field Documentation

8.1399.2.1 uint8_t unpack_voice_SUPSNotificationCallback_ind_t::callID

8.1399.2.2 uint8_t unpack_voice_SUPSNotificationCallback_ind_t::notifType

8.1399.2.3 uint16_t* unpack_voice_SUPSNotificationCallback_ind_t::pCUGIndex

8.1399.2.4 voice_ECTNum* unpack_voice_SUPSNotificationCallback_ind_t::pECTNum

8.1400 unpack_voice_USSDNotificationCallback_ind_t Struct Reference

Data Fields

- uint8_t notification_Type
- voice_USSDNotificationNetworkInfo USSDNotificationNetworkInfo

8.1400.1 Detailed Description

Structure for storing the USSD notification indication parameters.

Parameters

notification_Type(mandatory)	Values: -0x01-FURTHER_USER_ACTION_NOT_REQUIRED -0x02-FURTHER_USER_ACTION_REQUIRED
USSDNotificationNetworkInfo(optional)	• USSD network info (See voice_USSDNotificationNetworkInfo)

8.1400.2 Field Documentation

8.1400.2.1 uint8_t unpack_voice_USSDNotificationCallback_ind_t::notification_Type

8.1400.2.2 voice_USSDNotificationNetworkInfo unpack_voice_USSDNotificationCallback_ind_t::USSDNotificationNetworkInfo

8.1401 unpack_voice_VoiceInfoRecCallback_ind_t Struct Reference

Data Fields

- uint8_t callID

- voice_signalInfo * pSignalInfo
- voice_callerIDInfo * pCallerIDInfo
- uint8_t * pDispInfo
- uint8_t * pExtDispInfo
- uint8_t * pCallerNameInfo
- uint8_t * pCallWaitInd
- voice_connectNumInfo * pConnectNumInfo
- voice_connectNumInfo * pCallingPartyInfo
- voice_calledPartyInfo * pCalledPartyInfo
- voice_redirNumInfo * pRedirNumInfo
- uint8_t * pCLIRCause
- voice_NSSAudioCtrl * pNSSAudioCtrl
- uint8_t * pNSSRelease
- voice_lineCtrlInfo * pLineCtrlInfo
- voice_extDispRecInfo * pExtDispRecInfo

8.1401.1 Detailed Description

This structure contains Voice record Information

Parameters

callID	[Mandatory] • Call identifier for the call.
pSignalInfo[-Optional]	• Signal Information • See voice_signalInfo for more information
pCallerIDInfo[-Optional]	• Caller ID Information • See voice_callerIDInfo for more information
pDispInfo[-Optional]	• Display Information
pExtDispInfo[-Optional]	• Extended Display Information
pCallerName-Info[Optional]	• Caller Name Information
pCallWaitInd[-Optional]	• Call Waiting Indicator
pConnectNum-Info[Optional]	• Connected Number Information • see voice_connectNumInfo for more information
pCallingParty-Info[Optional]	• Calling Party Number Information • This structure is having exactly same elements as connectNumInfo • see voice_connectNumInfo for more information

pCalledPartyInfo[Optional]	• Called Party Number Information • see voice_calledPartyInfo for more information
pRedirNumInfo[Optional]	• Redirecting Number Information • see voice_redirNumInfo for more information
pCLIRCause[Optional]	• National Supplementary Services - CLIR • see voice_NSSAudioCtrl for more information
pNSSAudioCtrl[Optional]	• National Supplementary Services - Audio Control
pNSSRelease[Optional]	• National Supplementary Services - Release
pLineCtrlInfo[Optional]	• Line Control Information • see voice_lineCtrlInfo for more information
pExtDispRecInfo[Optional]	• Extended Display Record Information • see voice_extDispRecInfo for more information

8.1401.2 Field Documentation

8.1401.2.1 uint8_t unpack_voice_VoiceInfoRecCallback_ind_t::callID

8.1401.2.2 voice_calledPartyInfo* unpack_voice_VoiceInfoRecCallback_ind_t::pCalledPartyInfo

8.1401.2.3 voice_callerIDInfo* unpack_voice_VoiceInfoRecCallback_ind_t::pCallerIDInfo

8.1401.2.4 uint8_t* unpack_voice_VoiceInfoRecCallback_ind_t::pCallerNameInfo

8.1401.2.5 voice_connectNumInfo* unpack_voice_VoiceInfoRecCallback_ind_t::pCallingPartyInfo

8.1401.2.6 uint8_t* unpack_voice_VoiceInfoRecCallback_ind_t::pCallWaitInd

8.1401.2.7 uint8_t* unpack_voice_VoiceInfoRecCallback_ind_t::pCLIRCause

8.1401.2.8 voice_connectNumInfo* unpack_voice_VoiceInfoRecCallback_ind_t::pConnectNumInfo

8.1401.2.9 uint8_t* unpack_voice_VoiceInfoRecCallback_ind_t::pDispInfo

8.1401.2.10 uint8_t* unpack_voice_VoiceInfoRecCallback_ind_t::pExtDispInfo

8.1401.2.11 voice_extDispRecInfo* unpack_voice_VoiceInfoRecCallback_ind_t::pExtDispRecInfo

8.1401.2.12 voice_lineCtrlInfo* unpack_voice_VoiceInfoRecCallback_ind_t::pLineCtrlInfo

8.1401.2.13 voice_NSSAudioCtrl* unpack_voice_VoiceInfoRecCallback_ind_t::pNSSAudioCtrl

8.1401.2.14 uint8_t* unpack_voice_VoiceInfoRecCallback_ind_t::pNSSRelease

8.1401.2.15 voice_redirNumInfo* unpack_voice_VoiceInfoRecCallback_ind_t::pRedirNumInfo

8.1401.2.16 voice_signalInfo* unpack_voice_VoiceInfoRecCallback_ind_t::pSignalInfo

8.1402 unpack_voice_voicePrivacyChangeCallback_ind_t Struct Reference

Data Fields

- uint8_t callID
- uint8_t voicePrivacy

8.1402.1 Detailed Description

Contains the parameters passed for voice privacy change indication

Parameters

callID	• Unique identifier of the call for which the voice privacy is applicable. (mandatory)
voicePrivacy	• Voice Privacy (mandatory) – 0x00 - VOICE_PRIVACY_STANDARD - Standard privacy – 0x01 - VOICE_PRIVACY_ENHANCED - Enhanced privacy

Note

None

8.1402.2 Field Documentation

8.1402.2.1 uint8_t unpack_voice_voicePrivacyChangeCallback_ind_t::callID

8.1402.2.2 uint8_t unpack_voice_voicePrivacyChangeCallback_ind_t::voicePrivacy

8.1403 unpack_wds_DHCPv4ClientLease_ind_t Struct Reference

Data Fields

- wds_DHCPProfileIdTlv ProfileIdTlv
- wds_DHCPLeaseStateTlv DHCPv4LeaseStateTlv
- wds_IPv4AdTlv IPv4AddrTlv
- wds_DHCPLeaseOptTlv DHCPv4LeaseOptTlv

8.1403.1 Detailed Description

This structure contains DHCP IPv4 client lease information

Parameters

ProfileIdTlv	profile identifier information, see wds_DHCPProfileIdTlv for more details
DHCPv4Lease-StateTlv	lease state, see wds_DHCPLeaseStateTlv for more details
IPv4AddrTlv	IPv4 address, see wds_IPv4AdTlv for more details
DHCPv4Lease-OptTlv	DHCP lease option, see wds_DHCPLeaseOptTlv for more details

8.1403.2 Field Documentation

8.1403.2.1 wds_DHCPLeaseOptTlv unpack_wds_DHCPv4ClientLease_ind_t::DHCPv4LeaseOptTlv

8.1403.2.2 wds_DHCPLeaseStateTlv unpack_wds_DHCPv4ClientLease_ind_t::DHCPv4LeaseStateTlv

8.1403.2.3 wds_IPv4AdTlv unpack_wds_DHCPv4ClientLease_ind_t::IPv4AddrTlv

8.1403.2.4 wds_DHCPProfileIdTlv unpack_wds_DHCPv4ClientLease_ind_t::ProfileIdTlv

8.1404 unpack_wds_GetAutoconnect_t Struct Reference

Data Fields

- uint32_t ∗ psetting

8.1404.1 Detailed Description

auto connect data session setting parameter.

Parameters

pSetting	• NDIS auto connect setting – 0 - Disabled – 1 - Enabled

8.1404.2 Field Documentation

8.1404.2.1 uint32_t∗ unpack_wds_GetAutoconnect_t::psetting

8.1405 unpack_wds_GetByteTotals_t Struct Reference

Data Fields

- uint64_t ∗ pTXTotalBytes
- uint64_t ∗ pRXTotalBytes

8.1405.1 Detailed Description

This structure contains unpack get byte totals information.

Parameters

pTXTotalBytes	• Bytes transmitted without error • NULL pointer - Invalid data.
pRXTotalBytes	• Bytes received without error • NULL pointer - Invalid data.

8.1405.2 Field Documentation

8.1405.2.1 uint64_t* unpack_wds_GetByteTotals_t::pRXTotalBytes

8.1405.2.2 uint64_t* unpack_wds_GetByteTotals_t::pTXTotalBytes

8.1406 unpack_wds_GetConnectionRate_t Struct Reference

Data Fields

- uint32_t currentChannelTXRate
- uint32_t currentChannelRXRate
- uint32_t maxChannelTXRate
- uint32_t maxChannelRXRate

8.1406.1 Detailed Description

This structure contains unpack get connection rate information.

Parameters

currentChannel-TXRate	• Current channel Tx rate (in bps)
currentChannel-RXRate	• Current channel Rx rate (in bps)
maxChannelTX-Rate	• Maximum Tx rate (bps) that may be assigned to device by serving system.
maxChannelRX-Rate	• Maximum Rx rate (bps) that may be assigned to device by serving system.

8.1406.2 Field Documentation

8.1406.2.1 uint32_t unpack_wds_GetConnectionRate_t::currentChannelRXRate

8.1406.2.2 uint32_t unpack_wds_GetConnectionRate_t::currentChannelTXRate

8.1406.2.3 uint32_t unpack_wds_GetConnectionRate_t::maxChannelRXRate

8.1406.2.4 uint32_t unpack_wds_GetConnectionRate_t::maxChannelTXRate

8.1407 unpack_wds_GetDataBearerTechnology_t Struct Reference

Data Fields

- uint32_t * pDataBearer

8.1407.1 Detailed Description

This structure contains unpack get data bearer technology information.

Parameters

pDataBearer[OUT]	• Data bearer technology – 0x01 - CDMA2000 1x – 0x02 - CDMA 1xEV-DO Rev 0 – 0x03 - GSM – 0x04 - UMTS – 0x05 - CDMA2000 HRPD (1xEV-DO Rev A) – 0x06 - EDGE – 0x07 - HSDPA AND WCDMA – 0x08 - WCDMA AND HSUPA – 0x09 - HSDPA AND HSUPA – 0x0A - LTE – 0x0B - CDMA2000 EHRPD – 0x0C - HSDPA+ and WCDMA – 0x0D - HSDPA+ and HSUPA – 0x0E - DC_HSDPA+ and WCDMA – 0x0F - DC_HSDPA+ and HSUPA – 0x10 - HSDPA+ and 64QAM – 0x11 - HSDPA+, 64QAM and HSUPA – 0x12 - TDSCDMA – 0x13 - TDSCDMA and HSDPA – 0xFF - Unknown

8.1407.2 Field Documentation

8.1407.2.1 uint32_t* unpack_wds_GetDataBearerTechnology_t::pDataBearer

8.1408 unpack_wds_GetDefaultProfile_t Struct Reference

Data Fields

- uint32_t pdptype
- uint32_t ipaddr
- uint32_t pridns
- uint32_t secdns
- uint16_t ipaddrv6

- uint16_t pridnsv6
- uint16_t secdnsv6
- uint32_t auth
- uint8_t namesize
- int8_t name [255]
- uint8_t apnsize
- int8_t apnname [255]
- uint8_t usersize
- int8_t username [255]

8.1408.1 Detailed Description

Reads the default profile settings from the device. The default profile is used to establish an auto connect data session.

Parameters

pdptype	• Packet Data Protocol (PDP) type specifies the type of data payload exchanged over the air link when the packet data session is established with this profile – 0 - PDP-IP (IPv4) – 1 - PDP-PPP – 2 - PDP-IPv6 – 3 - PDP-IPv4v6 – 0xff - Invalid data.
ipaddr	• Preferred IPv4 address to be assigned to device • 0xffffffff - Invalid data.
pridns	• Primary DNS IPv4 address preference • 0xffffffff - Invalid data.
secdns	• Secondary DNS IPv4 address preference • 0xffffffff - Invalid data.
ipaddrv6	• Preferred IPv6 address to be assigned to device • 0xffff - Invalid data.
pridnsv6	• Primary DNS Pv6 address preference • 0xffff - Invalid data.
secdnsv6	• Secondary DNS IPv6 address preference • 0xffff - Invalid data.

auth	• Bitmap that indicates authentication algorithm preference – 0x00000001 - PAP preference * 0 - Never performed * 1 - May be performed – 0x00000002 - CHAP preference * 0 - Never performed * 1 - May be performed – All other bits are reserved and must be set to 0 – If more than 1 bit is set, then device decides which authentication procedure is performed while setting up data session e.g. the device may have a policy to select the most secure authentication mechanism. – 0xffffffff - Invalid data.
namesize	• Maximum number of characters (including NULL terminator) that profile name array can contain. • 0xff - Invalid name data.
name	• Profile name
apnsize	• Maximum number of characters (including NULL terminator) that APN name array can contain • 0xff - Invalid apnname data.
apnname	• Access point name. NULL-terminated string parameter that is a logical name used to select GGSN and external packet data network. • If value is NULL or omitted, then subscription default value will be requested.
usersize	• Maximum number of characters (including NULL terminator) that username array can contain. • 0xff - Invalid username data.
username	• Username used during network authentication

8.1408.2 Field Documentation

8.1408.2.1 int8_t unpack_wds_GetDefaultProfile_t::apnname[255]

8.1408.2.2 uint8_t unpack_wds_GetDefaultProfile_t::apnsize

8.1408.2.3 uint32_t unpack_wds_GetDefaultProfile_t::auth

8.1408.2.4 uint32_t unpack_wds_GetDefaultProfile_t::ipaddr

8.1408.2.5 uint16_t unpack_wds_GetDefaultProfile_t::ipaddrv6

8.1408.2.6 int8_t unpack_wds_GetDefaultProfile_t::name[255]

8.1408.2.7 uint8_t unpack_wds_GetDefaultProfile_t::namesize

8.1408.2.8 uint32_t unpack_wds_GetDefaultProfile_t::pdptype

8.1408.2.9 uint32_t unpack_wds_GetDefaultProfile_t::pridns

8.1408.2.10 uint16_t unpack_wds_GetDefaultProfile_t::pridnsv6

8.1408.2.11 uint32_t unpack_wds_GetDefaultProfile_t::secdns

8.1408.2.12 uint16_t unpack_wds_GetDefaultProfile_t::secdnsv6

8.1408.2.13 int8_t unpack_wds_GetDefaultProfile_t::username[255]

8.1408.2.14 uint8_t unpack_wds_GetDefaultProfile_t::usersize

8.1409 unpack_wds_GetDefaultProfileNum_t Struct Reference

Data Fields

- uint8_t index

8.1409.1 Detailed Description

This structure contains unpack Get Default Profile Number information.

Parameters

index	profile index

8.1409.2 Field Documentation

8.1409.2.1 uint8_t unpack_wds_GetDefaultProfileNum_t::index

8.1410 unpack_wds_GetDormancyState_t Struct Reference

Data Fields

- uint32_t dormancyState

8.1410.1 Detailed Description

This structure contains unpack get dormancy state information.

Parameters

dormancyState	• Dormancy state of current packet data session – 1 - Traffic channel dormant – 2 - Traffic channel active

8.1410.2 Field Documentation

8.1410.2.1 uint32_t unpack_wds_GetDormancyState_t::dormancyState

8.1411 unpack_wds_GetLastMobileIPError_t Struct Reference

Data Fields

- uint32_t error

8.1411.1 Detailed Description

structure to store last mobile IP error.

Parameters

error	• Status of last MIP call (or attempt) – Zero - Success – NonZero - Error code See qaGobiApiTableCallEndReasons.h for Mobile IP Error codes

8.1411.2 Field Documentation

8.1411.2.1 uint32_t unpack_wds_GetLastMobileIPError_t::error

8.1412 unpack_wds_GetMobileIP_t Struct Reference

Data Fields

- uint32_t mipMode

8.1412.1 Detailed Description

This structure contains unpack get mobile IP information.

Parameters

mipMode	• Mobile IP setting – 0 - Mobile IP off (simple IP only) – 1 - Mobile IP preferred – 2 - Mobile IP only

8.1412.2 Field Documentation

8.1412.2.1 uint32_t unpack_wds_GetMobileIP_t::mipMode

8.1413 unpack_wds_GetMobileIPProfile_t Struct Reference

Data Fields

- uint8_t enabled
- uint32_t address
- uint32_t primaryHA
- uint32_t secondaryHA
- uint8_t revTunneling
- uint8_t naiSize
- int8_t NAI [255]
- uint32_t HASPI
- uint32_t AAASPI
- uint32_t HAState
- uint32_t AAAState

8.1413.1 Detailed Description

This structure contains unpack get mobile IP profile information.

Parameters

enabled	• Profile enabled: – 0 - Disabled – 1 - Enabled – 0xFF - Invalid data.
address	• Home IPv4 address: – 0xFFFFFFFF - Invalid data.
primaryHA	• Primary home agent IPv4 address – 0xFFFFFFFF - Invalid data.
secondaryHA	• Secondary home agent IPv4 address – 0xFFFFFFFF - Invalid data.
revTunneling	• Reverse tunneling enabled – 0 - Disabled – 1 - Enabled – 0xFF - Invalid data.
naiSize	• The maximum number of characters (including NULL terminator) that the NAI array can contain. • 0xFF - Invalid data.
NAI	• Network access identifier string • 0xFF - Invalid data.

HASPI	• Home agent security parameter index • 0xFF - Invalid data.
AAASPI	• AAA server security parameter index – 0xFFFFFFFF - Unknown
HAState	• Home agent key state – 0 - Unset – 1 - Set, default value – 2 - Set, modified from default – 3 - 0xFFFFFFFF - Unknown
AAAState	• AAA key state – 0 - Unset – 1 - Set, default value – 2 - Set, modified from default – 3 - 0xFFFFFFFF - Unknown

8.1413.2 Field Documentation

8.1413.2.1 uint32_t unpack_wds_GetMobileIPProfile_t::AAASPI

8.1413.2.2 uint32_t unpack_wds_GetMobileIPProfile_t::AAAState

8.1413.2.3 uint32_t unpack_wds_GetMobileIPProfile_t::address

8.1413.2.4 uint8_t unpack_wds_GetMobileIPProfile_t::enabled

8.1413.2.5 uint32_t unpack_wds_GetMobileIPProfile_t::HASPI

8.1413.2.6 uint32_t unpack_wds_GetMobileIPProfile_t::HAState

8.1413.2.7 int8_t unpack_wds_GetMobileIPProfile_t::NAI[255]

8.1413.2.8 uint8_t unpack_wds_GetMobileIPProfile_t::naiSize

8.1413.2.9 uint32_t unpack_wds_GetMobileIPProfile_t::primaryHA

8.1413.2.10 uint8_t unpack_wds_GetMobileIPProfile_t::revTunneling

8.1413.2.11 uint32_t unpack_wds_GetMobileIPProfile_t::secondaryHA

8.1414 unpack_wds_GetPacketStatistics_t Struct Reference

Data Fields

- uint32_t * pTXPacketSuccesses

- uint32_t * pRXPacketSuccesses
- uint32_t * pTXPacketErrors
- uint32_t * pRXPacketErrors
- uint32_t * pTXPacketOverflows
- uint32_t * pRXPacketOverflows
- uint64_t * pTXOkBytesCount
- uint64_t * pRXOkBytesCount
- uint64_t * pTXOKBytesLastCall
- uint64_t * pRXOKBytesLastCall
- uint32_t * pTXDroppedCount
- uint32_t * pRXDroppedCount

8.1414.1 Detailed Description

This structure contains unpack get packet statistics information.

Parameters

pTXPacket-Successes	• No of transmitted Packets without error. • NULL pointer - Invalid data.
pRXPacket-Successes	• No of received Packets without error. • NULL pointer - Invalid data.
pTXPacketErrors	• Number of outgoing packets with framing errors. • NULL pointer - Invalid data.
pRXPacket-Errors	• Number of incoming packets with framing errors. • NULL pointer - Invalid data.
pTXPacket-Overflows	• Number of packets dropped because Tx buffer overflowed (out of memory). • NULL pointer - Invalid data.
pRXPacket-Overflows	• Number of packets dropped because Rx buffer overflowed (out of memory). • NULL pointer - Invalid data.
pTXOkBytes-Count	• Number of bytes transmitted without error. • NULL pointer - Invalid data.
pRXOkBytes-Count	• Number of bytes received without error. • NULL pointer - Invalid data.

pTXOKBytes-LastCall	• Number of bytes transmitted without error during the last data call (0 if no call was made earlier). Returned only if not in a call, and when the previous call was made using RmNet (for any devices that support • NULL pointer - Invalid data.
pRXOKBytes-LastCall	• Number of bytes received without error during the last data call (0 if no call was made earlier). Returned only if not in a call, and when the previous call was made using RmNet (for any devices that support • NULL pointer - Invalid data.
pTXDropped-Count	• Number of outgoing packets dropped. • NULL pointer - Invalid data.
pRXDropped-Count	• Number of incoming packets dropped. • NULL pointer - Invalid data.

8.1414.2 Field Documentation

8.1414.2.1 uint32_t* unpack_wds_GetPacketStatistics_t::pRXDroppedCount

8.1414.2.2 uint64_t* unpack_wds_GetPacketStatistics_t::pRXOkBytesCount

8.1414.2.3 uint64_t* unpack_wds_GetPacketStatistics_t::pRXOKBytesLastCall

8.1414.2.4 uint32_t* unpack_wds_GetPacketStatistics_t::pRXPacketErrors

8.1414.2.5 uint32_t* unpack_wds_GetPacketStatistics_t::pRXPacketOverflows

8.1414.2.6 uint32_t* unpack_wds_GetPacketStatistics_t::pRXPacketSuccesses

8.1414.2.7 uint32_t* unpack_wds_GetPacketStatistics_t::pTXDroppedCount

8.1414.2.8 uint64_t* unpack_wds_GetPacketStatistics_t::pTXOkBytesCount

8.1414.2.9 uint64_t* unpack_wds_GetPacketStatistics_t::pTXOKBytesLastCall

8.1414.2.10 uint32_t* unpack_wds_GetPacketStatistics_t::pTXPacketErrors

8.1414.2.11 uint32_t* unpack_wds_GetPacketStatistics_t::pTXPacketOverflows

8.1414.2.12 uint32_t* unpack_wds_GetPacketStatistics_t::pTXPacketSuccesses

8.1415 unpack_wds_GetPacketStatus_t Struct Reference

Data Fields

- uint32_t tXPacketSuccesses
- uint32_t rXPacketSuccesses

- uint32_t tXPacketErrors
- uint32_t rXPacketErrors
- uint32_t tXPacketOverflows
- uint32_t rXPacketOverflows
- uint64_t tXOkBytesCount
- uint64_t rXOkBytesCount
- uint64_t tXOKBytesLastCall
- uint64_t rXOKBytesLastCall
- uint32_t tXDroppedCount
- uint32_t rXDroppedCount

8.1415.1 Detailed Description

Returns the packet data transfer statistics since the start of the current packet data.

Parameters

tXPacket-Successes	• No. of packets transmitted without error • 0xffffffff - Invalid data.
rXPacket-Successes	• No. of packets received without error • 0xffffffff - Invalid data.
tXPacketErrors	• No. of outgoing packets with framing errors • 0xffffffff - Invalid data.
rXPacketErrors	• No. of incoming packets with framing errors • 0xffffffff - Invalid data.
txPacket-Overflows	• Number of packets dropped because Tx buffer overflowed • 0xffffffff - Invalid data.
rxPacket-Overflows	• Number of packets dropped because Rx buffer overflowed • 0xffffffff - Invalid data.
txOkBytesCount	• No of bytes transmitted without error. • 0xffffffffffffffff - Invalid data.
rxOkBytesCount	• No of bytes received without error. • 0xffffffffffffffff - Invalid data.
txOKBytesLast-Call	• No of bytes transmitted without error during the last data call (0 if no call was made earlier). Returned only if not in a call, and when the previous call was made using RmNet (for any devices that support • 0xffffffffffffffff - Invalid data.

rxOKBytesLast-Call	• Number of bytes received without error during the last data call (0 if no call was made earlier). Returned only if not in a call, and when the previous call was made using RmNet (for any devices that support • 0xffffffffffffffff - Invalid data.
txDroppedCount	• Number of outgoing packets dropped. • 0xffffffff - Invalid data.
rxDroppedCount	• Number of incoming packets dropped. • 0xffffffff - Invalid data.

8.1415.2 Field Documentation

8.1415.2.1 uint32_t unpack_wds_GetPacketStatus_t::rXDroppedCount

8.1415.2.2 uint64_t unpack_wds_GetPacketStatus_t::rXOkBytesCount

8.1415.2.3 uint64_t unpack_wds_GetPacketStatus_t::rXOKBytesLastCall

8.1415.2.4 uint32_t unpack_wds_GetPacketStatus_t::rXPacketErrors

8.1415.2.5 uint32_t unpack_wds_GetPacketStatus_t::rXPacketOverflows

8.1415.2.6 uint32_t unpack_wds_GetPacketStatus_t::rXPacketSuccesses

8.1415.2.7 uint32_t unpack_wds_GetPacketStatus_t::tXDroppedCount

8.1415.2.8 uint64_t unpack_wds_GetPacketStatus_t::tXOkBytesCount

8.1415.2.9 uint64_t unpack_wds_GetPacketStatus_t::tXOKBytesLastCall

8.1415.2.10 uint32_t unpack_wds_GetPacketStatus_t::tXPacketErrors

8.1415.2.11 uint32_t unpack_wds_GetPacketStatus_t::tXPacketOverflows

8.1415.2.12 uint32_t unpack_wds_GetPacketStatus_t::tXPacketSuccesses

8.1416 unpack_wds_GetSessionDuration_t Struct Reference

Data Fields

- uint64_t callDuration

8.1416.1 Detailed Description

This structure contains unpack get session duration information.

Parameters

callDuration	• Duration of the current packet session in milliseconds

8.1416.2 Field Documentation

8.1416.2.1 uint64_t unpack_wds_GetSessionDuration_t::callDuration

8.1417 unpack_wds_GetSessionState_t Struct Reference

Data Fields

- uint32_t connectionStatus

8.1417.1 Detailed Description

This structure contains unpack get session state information.

Parameters

connection-Status	- state of the current packet data session. • 1 - Disconnected. • 2 - Connected. • 3 - Suspended. • 4 - Authenticating.

8.1417.2 Field Documentation

8.1417.2.1 uint32_t unpack_wds_GetSessionState_t::connectionStatus

8.1418 unpack_wds_RMSetTransferStatistics_t Struct Reference

8.1418.1 Detailed Description

This structure contains unpack fetch current data system transfer statistics information.

Parameters

NULL	• this is a dummy structure

8.1419 unpack_wds_SetMobileIPProfile_t Struct Reference

8.1419.1 Detailed Description

This structure contains set mobile IP profile information.

Parameters

NULL	• this is a dummy structure

8.1420 unpack_wds_SLQSCreateProfile_t Struct Reference

Data Fields

- PackCreateProfileOut ∗ pCreateProfileOut
- uint8_t ∗ pProfileID
- uint16_t Tlvresult

8.1420.1 Detailed Description

This structure contains unpack create profile information.

Parameters

pCreateProfile-Out	• SLQS Create profile Information • See PackCreateProfileOut
pProfileID	• SLQS profile identifier information
Tlvresult	• TLV present flag, TURE if presented, otherwise FALSE

8.1420.2 Field Documentation

8.1420.2.1 PackCreateProfileOut∗ unpack_wds_SLQSCreateProfile_t::pCreateProfileOut

8.1420.2.2 uint8_t∗ unpack_wds_SLQSCreateProfile_t::pProfileID

8.1420.2.3 uint16_t unpack_wds_SLQSCreateProfile_t::Tlvresult

8.1421 unpack_wds_SLQSDeleteProfile_t Struct Reference

Data Fields

- uint16_t extendedErrorCode

8.1421.1 Detailed Description

This structure contains unpack delete profile information.

Parameters

extendedErrorCode[OUT]	• The extended error code received from DS Profile subsystem of type eWDS_ERR_PROFILE_REG_xxx. • Error code will only will be present if error code eQCWWAN_ERR_QMI_EXTENDED_INTERNAL is returned by device. • See qm_wds_ds_profile_extended_err_codes enum in qmerrno.h for received error description. • 0xffff - Invalid data.

8.1421.2 Field Documentation

8.1421.2.1 uint16_t unpack_wds_SLQSDeleteProfile_t::extendedErrorCode

8.1422 unpack_wds_SLQSDUNCallInfoCallBack_ind_t Struct Reference

Data Fields

- wds_ConnStatusTlv CSTlv
- wds_LastMdmCallEndRsnTlv LMCERTlv
- wds_TXBytesOKTlv TXBOTlv
- wds_RXBytesOKTlv RXBOTlv
- wds_DormStatTlv DSTlv
- wds_DataBearTechTlv DBTTlv
- wds_ChannelRateTlv CRTlv

8.1422.1 Detailed Description

Structure used to store Reg Mgr Config Indication Parameters.

Parameters

CSTlv	• Connection status tlv • See wds_ConnStatusTlv for more information
LMCERTlv	• last modem call end reason tlv • see wds_LastMdmCallEndRsnTlv for more information
TXBOTlv	• Tx bytes OK tlv • see wds_TXBytesOKTlv for more information
RXBOTlv	• Rx bytes OK tlv • see wds_RXBytesOKTlv for more information
DSTlv	• Dormancy status tlv • see wds_DormStatTlv for more information

DBTTlv	• Data bear technology tlv • see wds_DataBearTechTlv for more information
CRTlv	• Channel rate Tlv • see wds_ChannelRateTlv for more information

Note

: None

8.1422.2 Field Documentation

8.1422.2.1 wds_ChannelRateTlv unpack_wds_SLQSDUNCallInfoCallBack_ind_t::CRTlv

8.1422.2.2 wds_ConnStatusTlv unpack_wds_SLQSDUNCallInfoCallBack_ind_t::CSTlv

8.1422.2.3 wds_DataBearTechTlv unpack_wds_SLQSDUNCallInfoCallBack_ind_t::DBTTlv

8.1422.2.4 wds_DormStatTlv unpack_wds_SLQSDUNCallInfoCallBack_ind_t::DSTlv

8.1422.2.5 wds_LastMdmCallEndRsnTlv unpack_wds_SLQSDUNCallInfoCallBack_ind_t::LMCERTlv

8.1422.2.6 wds_RXBytesOKTlv unpack_wds_SLQSDUNCallInfoCallBack_ind_t::RXBOTlv

8.1422.2.7 wds_TXBytesOKTlv unpack_wds_SLQSDUNCallInfoCallBack_ind_t::TXBOTlv

8.1423 unpack_wds_SLQSGet3GPPConfigItem_t Struct Reference

Data Fields

- uint16_t LTEAttachProfile
- uint16_t profileList [5]
- uint8_t defaultPDNEnabled
- uint8_t _3gppRelease
- uint16_t LTEAttachProfileList [24]
- uint16_t LTEAttachProfileListLen

8.1423.1 Detailed Description

This structure contains unpack get 3GPP configure item information.

Parameters

	LTEAttachProfile	• LTE Attach Profile
		  – points to a single WORD Value indicating the attached LTE Profile
		  – Optional parameter with possible values 1-16 (EM/MC73xx or earlier)
		• This setting is deprecated on MC/EM74xx
		• 0xffff - Invalid data.

	profileList	Profile List • an array of 4 profile configurations • Each element points to a single WORD value indicating profile • Optional parameter with possible values – 1 - 16 (MC/EM73xx and before) – 1 - 24 (MC/EM74xx and onwards) • function SLQSGet3GPPConfigItem() returns a default value 255 if no 3gpp configuration is present • 0xffff - Invalid data. • Note: the 5th entry is currently ignored, please set it to zero
`out`	*defaultPDN-Enabled*	• 0 - disabled • 1 - enabled • 0xff - Invalid data.
`out`	*_3gppRelease*	3GPP release • 0 - Release_99 • 1 - Release_5 • 2 - Release_6 • 3 - Release_7 • 4 - Release_8 • 5 - Release_9 (In 9x30 and toworads) • 6 - Release_10 (In 9x30 and toworads) • 7 - Release_11 (In 9x30 and toworads) • 0xff - Invalid data.
`out`	*LTEAttach-ProfileList*	• pointer to WORD array indiciating LTE Attach Profile List – Optional parameter – possible values: 1-24 – This setting is only supported for MC/EM74xx onwards – Please provide attach profiles in order of decreasing priority in this list.
`in,out`	*LTEAttach-ProfileListLen*	• Number of element in pLTEAttachProfileList – valid range: 1-24 – This setting is only supported for MC/EM74xx onwards • 0xffff - Invalid LTEAttachProfileList data.

8.1423.2 Field Documentation

8.1423.2.1 uint8_t unpack_wds_SLQSGet3GPPConfigItem_t::_3gppRelease

8.1423.2.2 uint8_t unpack_wds_SLQSGet3GPPConfigItem_t::defaultPDNEnabled

8.1423.2.3 uint16_t unpack_wds_SLQSGet3GPPConfigItem_t::LTEAttachProfile

8.1423.2.4 uint16_t unpack_wds_SLQSGet3GPPConfigItem_t::LTEAttachProfileList[24]

8.1423.2.5 uint16_t unpack_wds_SLQSGet3GPPConfigItem_t::LTEAttachProfileListLen

8.1423.2.6 uint16_t unpack_wds_SLQSGet3GPPConfigItem_t::profileList[5]

8.1424 unpack_wds_SLQSGetCurrDataSystemStat_t Struct Reference

Data Fields

- uint8_t prefNetwork
- uint8_t networkInfoLen
- currNetworkInfo currNetworkInfo [255]

8.1424.1 Detailed Description

Data System Status

Parameters

prefNetwork	• Preferred Network • Values: – 0 - 3GPP – 1 - 3GPP2 – 0xff - Invalid data system status.
networkInfoLen	• As input parameter size assigned to next parameter i.e. network information • As output the actual number of network information elements returned by the device
currNetworkInfo	• Network information • See currNetworkInfo for more details

8.1424.2 Field Documentation

8.1424.2.1 currNetworkInfo unpack_wds_SLQSGetCurrDataSystemStat_t::currNetworkInfo[255]

8.1424.2.2 uint8_t unpack_wds_SLQSGetCurrDataSystemStat_t::networkInfoLen

8.1424.2.3 uint8_t unpack_wds_SLQSGetCurrDataSystemStat_t::prefNetwork

8.1425 unpack_wds_SLQSGetCurrentChannelRate_t Struct Reference

Data Fields

- uint32_t current_channel_tx_rate
- uint32_t current_channel_rx_rate
- uint32_t max_channel_tx_rate
- uint32_t max_channel_rx_rate

8.1425.1 Detailed Description

This structure contains unpack get current channel rate information.

Parameters

current_channel-_tx_rate	• Current Channel Tx Rate. • Instantaneous channel Tx rate in bits per second. • In 9x15, this is the total current channel rate for all PDNs combined. • In 9x30 and later, this is the channel rate for a specific PDN.
current_channel-_rx_rate	• Current Channel Rx Rate. • Instantaneous channel Rx rate in bits per second. • In 9x15, this is the total current channel rate for all PDNs combined. • In 9x30 and later, this is the channel rate for a specific PDN
max_channel_-tx_rate	• Max Channel Tx Rate. • Maximum total Tx rate that modem is able to support in current serving system in bits per second. • In 9x15, this is a default hard coded value for the current serving system.
max_channel_-rx_rate	• Max Channel Rx Rate. • Maximum total Rx rate that modem is able to support in current serving system in bits per second. • In 9x15, this is a default hard coded value for the current serving system.

8.1425.2 Field Documentation

8.1425.2.1 uint32_t unpack_wds_SLQSGetCurrentChannelRate_t::current_channel_rx_rate

8.1425.2.2 uint32_t unpack_wds_SLQSGetCurrentChannelRate_t::current_channel_tx_rate

8.1425.2.3 uint32_t unpack_wds_SLQSGetCurrentChannelRate_t::max_channel_rx_rate

8.1425.2.4 uint32_t unpack_wds_SLQSGetCurrentChannelRate_t::max_channel_tx_rate

8.1426 unpack_wds_SLQSGetDataBearerTechnology_t Struct Reference

Data Fields

- uint8_t dataBearerMask
- qmiWDSDataBearerTechnology curDataBearerTechnology
- qmiWDSDataBearerTechnology lastCallDataBearerTechnology

8.1426.1 Detailed Description

Structure to hold the data bearer technology values

Parameters

dataBearerMask[OUT]	• This bit mask indicates if data bearer information for the current and/or last call has been received from the device. If a bit is set, then the information is available in the corresponding structure i.e. the one provided by the caller. Refer to liteQmiDataBearerMasks for bit-mask positions. • 0xff - Invalid data.
curDataBearerTechnology[OUT]	• current data bearer technology value. • See qmiWDSDataBearerTechnology – NULL if the parameter is not required
lastCallDataBearerTechnology[OUT]	• last call data bearer technology value. • See qmiWDSDataBearerTechnology – NULL if the parameter is not required

8.1426.2 Field Documentation

8.1426.2.1 qmiWDSDataBearerTechnology unpack_wds_SLQSGetDataBearerTechnology_t::curDataBearerTechnology

8.1426.2.2 uint8_t unpack_wds_SLQSGetDataBearerTechnology_t::dataBearerMask

8.1426.2.3 qmiWDSDataBearerTechnology unpack_wds_SLQSGetDataBearerTechnology_t::lastCallDataBearerTechnology

8.1427 unpack_wds_SLQSGetDUNCallInfo_t Struct Reference

Data Fields

- connectionStatus connectionStatus
- uint16_t callEndReason
- uint64_t txOKBytesCount
- uint64_t rxOKBytesCount
- uint8_t dormancyStatus
- uint8_t dataBearerTech
- dunchannelRate channelRate
- uint64_t lastCallTXOKBytesCnt
- uint64_t lastCallRXOKBytesCnt
- uint64_t mdmCallDurationActive
- uint8_t lastCallDataBearerTech

8.1427.1 Detailed Description

This structure contains the DUN Call Info response parameters

Parameters

connectionStatus	• See connectionStatus for more information

callEndReason	• Last modem call end reason • See qaGobiApiTableCallEndReasons.h for Call End Reason • Only valid if the last call made was DUN, else zero is returned • 0xffff - Invalid data.
txOKBytesCount	• Number of bytes transmitted without error • Returned only if a data call is up • 0xffffffffffffffff - Invalid data.
rxOKBytesCount	• Number of bytes received without error • Returned only if a data call is up • 0xffffffffffffffff - Invalid data.
dormancyStatus	• Current traffic channel status • Returned if a data call is up – 0x01 - Traffic channel dormant – 0x02 - Traffic channel active – 0xff - Invalid data.
dataBearerTech	• Current data bearer technology • Returned only if a data call is up – 0x01 - cdma2000 1X – 0x02 - cdma2000 HRPD (1xEV-DO) – 0x03 - GSM – 0x04 - UMTS – 0x05 - cdma200 HRPD (1xEV-DO RevA) – 0x06 - EDGE – 0x07 - HSDPA and WCDMA – 0x08 - WCDMA and HSUPA – 0x09 - HSDPA and HSUPA – 0x0A - LTE – 0x0B - cdma2000 EHRPD – 0x0C - HSDPA+ and WCDMA – 0x0D - HSDPA+ and HSUPA – 0x0E - DC_HSDPA+ and WCDMA – 0x0F - DC_HSDPA+ and HSUPA – 0x10 - HSDPA+ and 64QAM – 0x11 - HSDPA+, 64QAM and HSUPA – 0x12 - TDSCDMA – 0x13 - TDSCDMA and HSDPA – 0xFF - Unknown
channelRate	• See dunchannelRate for more information

lastCallTXOK-BytesCnt	• Number of bytes transmitted without error during the last data call (0 if no call was made). • Return only if not in a call and the previous call was made using DUN. • 0xffffffffffffffff - Invalid data.
lastCallRXOK-BytesCnt	• Number of bytes transmitted without error during the last data call (0 if no call was made). • Return only if not in a call and the previous call was made using DUN. • 0xffffffffffffffff - Invalid data.
mdmCall-DurationActive	• Duration that the call is active in milliseconds • If the modem connection status is connected, this represents the active duration of the current DUN call • If the modem connection status is disconnected, this represents the duration of the last DUN call since the device was powered up (0 if no call has been made or if the last call was not DUN) • 0xffffffffffffffff - Invalid data.
lastCallData-BearerTech	• Last Call Data Bearer Technology • Returned only if not in a call and when the previous call was made using DUN – 0x01 - cdma2000 1X – 0x02 - cdma2000 HRPD (1xEV-DO) – 0x03 - GSM – 0x04 - UMTS – 0x05 - cdma200 HRPD (1xEV-DO Rev A) – 0x06 - EDGE – 0x07 - HSDPA and WCDMA – 0x08 - WCDMA and HSUPA – 0x09 - HSDPA and HSUPA – 0x0A - LTE – 0x0B - cdma2000 EHRPD – 0x0C - HSDPA+ and WCDMA – 0x0D - HSDPA+ and HSUPA – 0x0E - DC_HSDPA+ and WCDMA – 0x0F - DC_HSDPA+ and HSUPA – 0x10 - HSDPA+ and 64QAM – 0x11 - HSDPA+, 64QAM and HSUPA – 0x12 - TDSCDMA – 0x13 - TDSCDMA and HSDPA – 0xFF - Unknown

8.1427.2 Field Documentation

8.1427.2.1 uint16_t unpack_wds_SLQSGetDUNCallInfo_t::callEndReason

8.1427.2.2 dunchannelRate unpack_wds_SLQSGetDUNCallInfo_t::channelRate

8.1427.2.3 connectionStatus unpack_wds_SLQSGetDUNCallInfo_t::connectionStatus

8.1427.2.4 uint8_t unpack_wds_SLQSGetDUNCallInfo_t::dataBearerTech

8.1427.2.5 uint8_t unpack_wds_SLQSGetDUNCallInfo_t::dormancyStatus

8.1427.2.6 uint8_t unpack_wds_SLQSGetDUNCallInfo_t::lastCallDataBearerTech

8.1427.2.7 uint64_t unpack_wds_SLQSGetDUNCallInfo_t::lastCallRXOKBytesCnt

8.1427.2.8 uint64_t unpack_wds_SLQSGetDUNCallInfo_t::lastCallTXOKBytesCnt

8.1427.2.9 uint64_t unpack_wds_SLQSGetDUNCallInfo_t::mdmCallDurationActive

8.1427.2.10 uint64_t unpack_wds_SLQSGetDUNCallInfo_t::rxOKBytesCount

8.1427.2.11 uint64_t unpack_wds_SLQSGetDUNCallInfo_t::txOKBytesCount

8.1428 unpack_wds_SLQSGetProfileSettings_t Struct Reference

Data Fields

- UnPackGetProfileSettingOut * pProfileSettings
- uint8_t ProfileType
- uint16_t Tlvresult

8.1428.1 Detailed Description

This structure contains the profile setting information of parameter pOutput for API unpack_wds_SLQSGetProfileSettings

Parameters

pProfileSettings	- Profile Settings
ProfileType	- Profile Type • 0 - Profile 3GPP • 1 - Profile 3GPP2
Tlvresult	- unpack Tlv Result.

8.1428.2 Field Documentation

8.1428.2.1 UnPackGetProfileSettingOut* unpack_wds_SLQSGetProfileSettings_t::pProfileSettings

8.1428.2.2 uint8_t unpack_wds_SLQSGetProfileSettings_t::ProfileType

8.1428.2.3 uint16_t unpack_wds_SLQSGetProfileSettings_t::Tlvresult

8.1429 unpack_wds_SLQSGetRuntimeSettings_t Struct Reference

Data Fields

- uint32_t IPv4
- uint8_t ProfileName [128]
- uint32_t PDPType
- uint8_t APNName [128]

- uint32_t PrimaryDNSV4
- uint32_t SecondaryDNSV4
- LibPackUMTSQoS UMTSGrantedQoS
- struct wds_GPRSQoS GPRSGrantedQoS
- uint8_t Username [128]
- uint32_t Authentication
- struct wds_ProfileIdentifier ProfileID
- uint32_t GWAddressV4
- uint32_t SubnetMaskV4
- uint8_t PCSCFAddrPCO
- struct wds_PCSCFIPv4ServerAddressList ServerAddrList
- struct wds_PCSCFFQDNAddressList PCSCFFQDNAddrList
- uint16_t PrimaryDNSV6 [8]
- uint16_t SecondaryDNSV6 [8]
- uint32_t Mtu
- struct wds_DomainNameList DomainList
- uint8_t IPFamilyPreference
- uint8_t IMCNflag
- uint16_t Technology
- struct wds_IPV6AddressInfo IPV6AddrInfo
- struct wds_IPV6GWAddressInfo IPV6GWAddrInfo

8.1429.1 Detailed Description

This structure contains unpack get runtime settings information.

Parameters

IPv4	ipv4 address • 0xff - Invalid data.
ProfileName	profile name • Invalid data when index 0 of ProfileName is equal 0xff.
PDPType	PDP type • 0xffffffff - Invalid data.
APNName	APN name • Invalid data when index 0 of APNName is equal 0xff.
PrimaryDNSV4	primary dns IPV4 • 0xffffffff - Invalid data.
SecondaryDNS-V4	secondary dns IPV4 • 0xffffffff - Invalid data.
UMTSGranted-QoS	UMTS Granted Qos
GPRSGranted-QoS	GPRS Granted QoS
Username	username for authentication process • Invalid data when index 0 of APNName is equal 0xff.

Authentication	authentication for authentication process • 0xffffffff - Invalid data.
ProfielID	profile ID
GWAddressV4	Gateway IPv4 • 0xffffffff - Invalid data.
SubnetMaskV4	Subnet mask IPV4 • 0xffffffff - Invalid data.
PCSCFAddrPCO	PCSCF address PCO • 0xff - Invalid data.
ServerAddrList	PCSCF server address list IPV4
PCSCFFQDNAddrList	PCSCF FQDN address list IPV4
PrimaryDNSV6	Primary DNS IPV6 • invaild when all array data are equal 0xffff
SecondryDNSV6	Secondry DNS IPV6 • invaild when all array data are equal 0xffff
Mtu	actual (runtime) Maximum Transfer Unit • 0xffffffff - Invalid data.
DomainList	domain list
IPFamilyPreference	ip family preference, it could be IPV4 or IPV6 • 0xff - Invalid data.
IMCNflag	IM control flag, value: TRUE or FALSE • 0xff - Invalid data.
Technology	technology on which current packet data session is in progress • Values: – 32767 - CDMA – 32764 - UMTS – 30592 - EPC – 30584 - modem link local – 0xffff - Invalid data.
IPV6AddrInfo	address information IPV6
IPV6GWAddrInfo	gateway address information IPV6

8.1429.2 Field Documentation

8.1429.2.1 uint8_t unpack_wds_SLQSGetRuntimeSettings_t::APNName[128]

8.1429.2.2 uint32_t unpack_wds_SLQSGetRuntimeSettings_t::Authentication

8.1429.2.3 struct wds_DomainNameList unpack_wds_SLQSGetRuntimeSettings_t::DomainList

8.1429.2.4 struct wds_GPRSQoS unpack_wds_SLQSGetRuntimeSettings_t::GPRSGrantedQoS

8.1429.2.5 uint32_t unpack_wds_SLQSGetRuntimeSettings_t::GWAddressV4

8.1429.2.6 uint8_t unpack_wds_SLQSGetRuntimeSettings_t::IMCNflag

8.1429.2.7 uint8_t unpack_wds_SLQSGetRuntimeSettings_t::IPFamilyPreference

8.1429.2.8 uint32_t unpack_wds_SLQSGetRuntimeSettings_t::IPv4

8.1429.2.9 struct wds_IPV6AddressInfo unpack_wds_SLQSGetRuntimeSettings_t::IPV6AddrInfo

8.1429.2.10 struct wds_IPV6GWAddressInfo unpack_wds_SLQSGetRuntimeSettings_t::IPV6GWAddrInfo

8.1429.2.11 uint32_t unpack_wds_SLQSGetRuntimeSettings_t::Mtu

8.1429.2.12 uint8_t unpack_wds_SLQSGetRuntimeSettings_t::PCSCFAddrPCO

8.1429.2.13 struct wds_PCSCFFQDNAddressList unpack_wds_SLQSGetRuntimeSettings_t::PCSCFFQDNAddrList

8.1429.2.14 uint32_t unpack_wds_SLQSGetRuntimeSettings_t::PDPType

8.1429.2.15 uint32_t unpack_wds_SLQSGetRuntimeSettings_t::PrimaryDNSV4

8.1429.2.16 uint16_t unpack_wds_SLQSGetRuntimeSettings_t::PrimaryDNSV6[8]

8.1429.2.17 struct wds_ProfileIdentifier unpack_wds_SLQSGetRuntimeSettings_t::ProfileID

8.1429.2.18 uint8_t unpack_wds_SLQSGetRuntimeSettings_t::ProfileName[128]

8.1429.2.19 uint32_t unpack_wds_SLQSGetRuntimeSettings_t::SecondaryDNSV4

8.1429.2.20 uint16_t unpack_wds_SLQSGetRuntimeSettings_t::SecondaryDNSV6[8]

8.1429.2.21 struct wds_PCSCFIPv4ServerAddressList unpack_wds_SLQSGetRuntimeSettings_t::ServerAddrList

8.1429.2.22 uint32_t unpack_wds_SLQSGetRuntimeSettings_t::SubnetMaskV4

8.1429.2.23 uint16_t unpack_wds_SLQSGetRuntimeSettings_t::Technology

8.1429.2.24 LibPackUMTSQoS unpack_wds_SLQSGetRuntimeSettings_t::UMTSGrantedQoS

8.1429.2.25 uint8_t unpack_wds_SLQSGetRuntimeSettings_t::Username[128]

8.1430 unpack_wds_SLQSModifyProfile_t Struct Reference

Data Fields

- uint16_t * pExtErrorCode

8.1430.1 Detailed Description

This structure contains out parameters for unpack_wds_SLQSModifyProfile

Parameters

pExtErrorCode	• The extended error code received from DS Profile subsystem of type eWDS_ERR_PROFILE_-REG_xxx. • Error code will only will be present if error code eQCWWAN_ERR_QMI_EXTENDED_INTERN-AL is returned by device. • See qm_wds_ds_profile_extended_err_codes enum in qmerrno.h for received error description. • NULL pointer - Invalid data.

8.1430.2 Field Documentation

8.1430.2.1 uint16_t* unpack_wds_SLQSModifyProfile_t::pExtErrorCode

8.1431 unpack_wds_SLQSSetIPFamilyPreference_t Struct Reference

Data Fields

- uint16_t Tlvresult

8.1431.1 Detailed Description

This structure contains unpack Set IP family preference information

Parameters

Tlvresult	unpack result

8.1431.2 Field Documentation

8.1431.2.1 uint16_t unpack_wds_SLQSSetIPFamilyPreference_t::Tlvresult

8.1432 unpack_wds_SLQSSetPacketSrvStatusCallback_t Struct Reference

Data Fields

- uint8_t conn_status
- uint8_t reconfigReqd
- uint16_t sessionEndReason
- uint16_t verboseSessnEndReasonType
- uint16_t verboseSessnEndReason
- uint8_t ipFamily
- uint16_t techName
- uint8_t bearerID

8.1432.1 Detailed Description

This structure contains unpack set packet service status callback information.

Parameters

conn_status	connection status. • Current link status. Values: – 1 - DISCONNECTED – 2 - CONNECTED – 3 - SUSPENDED – 4 - AUTHENTICATING – 0xff Invalid data.
reconfigReqd	Indicates whether the network interface on the host needs to be reconfigured. • Values: – 0 - No need to reconfigure. – 1 - Reconfiguration required. – 0xff - Invalid data.
sessionEnd-Reason	Call End Reason • See qaGobiApiTableCallEndReasons.h for Call End Reason • 0xffff - invalid data.
verboseSessn-EndReasonType	Verbose call end reason type • Call end reason type. Values: – 0 - Unspecified – 1 - Mobile IP – 2 - Internal – 3 - Call Manager defined – 6 - 3GPP Specification defined – 7 - PPP – 8 - EHRPD – 9 - IPv6 – 0xffff - invalid data.
verboseSessn-EndReason	Reason the call ended (verbose) • See qaGobiApiTableCallEndReasons.h for Call End Reason • 0xffff - invalid data.
ipFamily	IP family of the packet data connection. • Values – 4 - IPv4 – 6 - IPv6 – 0xff - Invalid data.
techName	Technology name of the packet data connection. • Values – 32767 - CDMA – 32764 - UMTS – 30592 - EPC – 30590 - EMBMS – 30584 - Modem Link Local EPC is a logical interface to support LTE/eHRPD handoff. It is returned if the device supports IP session continuity. Modem Link Local is an interface for transferring data between entities on the AP and modem. – 0xffff - Invalid data.

bearerID	• bearer ID (3GPP) or RLP ID (3GPP2) of the packet data connection. • Valid Values - 0 to 16 • 0xFF - Invalid value.

8.1432.2 Field Documentation

8.1432.2.1 uint8_t unpack_wds_SLQSSetPacketSrvStatusCallback_t::bearerID

8.1432.2.2 uint8_t unpack_wds_SLQSSetPacketSrvStatusCallback_t::conn_status

8.1432.2.3 uint8_t unpack_wds_SLQSSetPacketSrvStatusCallback_t::ipFamily

8.1432.2.4 uint8_t unpack_wds_SLQSSetPacketSrvStatusCallback_t::reconfigReqd

8.1432.2.5 uint16_t unpack_wds_SLQSSetPacketSrvStatusCallback_t::sessionEndReason

8.1432.2.6 uint16_t unpack_wds_SLQSSetPacketSrvStatusCallback_t::techName

8.1432.2.7 uint16_t unpack_wds_SLQSSetPacketSrvStatusCallback_t::verboseSessnEndReason

8.1432.2.8 uint16_t unpack_wds_SLQSSetPacketSrvStatusCallback_t::verboseSessnEndReasonType

8.1433 unpack_wds_SLQSSetWdsEventCallback_ind_t Struct Reference

Data Fields

- uint8_t xferStatAvail
- uint64_t tx_bytes
- uint64_t rx_bytes
- uint64_t tx_pkts
- uint64_t rx_pkts
- uint8_t mipstatAvail
- uint32_t mipStatus
- uint8_t dBTechAvail
- uint32_t dBTechnology
- uint8_t dormancyStatAvail
- uint32_t dormancyStatus
- uint8_t currDBTechAvail
- uint32_t ratMask
- uint32_t soMask
- uint8_t dataSysStatAvail
- uint8_t prefNetwork
- uint8_t netInfoLen
- wds_currNetworkInfo currNWInfo [255]
- uint8_t dBtechExtAvail
- uint32_t dBtechnologyExt
- uint32_t dBTechExtRatValue
- uint64_t dBTechExtSoMask

8.1433.1 Detailed Description

This structure contains unpack set WDS event callback information.

Parameters

xferStatAvail	transfer statistic available
tx_bytes	transmit bytes
rx_bytes	received bytes
tx_pkts	transmit packets
rx_pkts	received packets
mipstatAvail	Mobile IP status available
mipStatus	Mobile IP status
dBTechAvail	Data Bearer technology available
dBTechnology	Data Bearer technology
dormancyStat-Avail	Dormancy status available
dormancyStatus	Dormancy status
currDBTechAvail	Current Data Bearer technology available
ratMask	RAT mask to indicate type of technology
soMask	SO mask to indicate the service type
dataSysStatAvail	Data System Status available
prefNetwork	preferred network
currNWInfo	Current Network Info
dBtechExtAvail	Data bearer technology extended available
dBtechnologyExt	Data bearer technology Extended.
dBTechExtRat-Value	Data bearer technology Extended RAT Value
dBTechExtSo-Mask	Data bearer technology Extended SO Mask

8.1433.2 Field Documentation

8.1433.2.1 uint8_t unpack_wds_SLQSSetWdsEventCallback_ind_t::currDBTechAvail

8.1433.2.2 wds_currNetworkInfo unpack_wds_SLQSSetWdsEventCallback_ind_t::currNWInfo[255]

8.1433.2.3 uint8_t unpack_wds_SLQSSetWdsEventCallback_ind_t::dataSysStatAvail

8.1433.2.4 uint8_t unpack_wds_SLQSSetWdsEventCallback_ind_t::dBTechAvail

8.1433.2.5 uint8_t unpack_wds_SLQSSetWdsEventCallback_ind_t::dBtechExtAvail

8.1433.2.6 uint32_t unpack_wds_SLQSSetWdsEventCallback_ind_t::dBTechExtRatValue

8.1433.2.7 uint64_t unpack_wds_SLQSSetWdsEventCallback_ind_t::dBTechExtSoMask

8.1433.2.8 uint32_t unpack_wds_SLQSSetWdsEventCallback_ind_t::dBTechnology

8.1433.2.9 uint32_t unpack_wds_SLQSSetWdsEventCallback_ind_t::dBtechnologyExt

8.1433.2.10 uint8_t unpack_wds_SLQSSetWdsEventCallback_ind_t::dormancyStatAvail

8.1433.2.11 uint32_t unpack_wds_SLQSSetWdsEventCallback_ind_t::dormancyStatus

8.1433.2.12 uint8_t unpack_wds_SLQSSetWdsEventCallback_ind_t::mipstatAvail

8.1433.2.13 uint32_t unpack_wds_SLQSSetWdsEventCallback_ind_t::mipStatus

8.1433.2.14 uint8_t unpack_wds_SLQSSetWdsEventCallback_ind_t::netInfoLen

8.1433.2.15 uint8_t unpack_wds_SLQSSetWdsEventCallback_ind_t::prefNetwork

8.1433.2.16 uint32_t unpack_wds_SLQSSetWdsEventCallback_ind_t::ratMask

8.1433.2.17 uint64_t unpack_wds_SLQSSetWdsEventCallback_ind_t::rx_bytes

8.1433.2.18 uint64_t unpack_wds_SLQSSetWdsEventCallback_ind_t::rx_pkts

8.1433.2.19 uint32_t unpack_wds_SLQSSetWdsEventCallback_ind_t::soMask

8.1433.2.20 uint64_t unpack_wds_SLQSSetWdsEventCallback_ind_t::tx_bytes

8.1433.2.21 uint64_t unpack_wds_SLQSSetWdsEventCallback_ind_t::tx_pkts

8.1433.2.22 uint8_t unpack_wds_SLQSSetWdsEventCallback_ind_t::xferStatAvail

8.1434 unpack_wds_SLQSSGetDHCPv4ClientConfig_t Struct Reference

Data Fields

- wdsDhcpv4HwConfig * pHwConfig
- wdsDhcpv4OptionList * pRequestOptionList

8.1434.1 Detailed Description

WDS SWI DHCPv4 Config Structure

Parameters

pHWConfig	• pointer to HW Config structure • See wdsDhcpv4HwConfig • NULL pointer - Invalid data.
pRequestOption-List	• pointer to Option List structure to be sent in DHCP request • See wdsDhcpv4OptionList • NULL pointer - Invalid data.

8.1434.2 Field Documentation

8.1434.2.1 wdsDhcpv4HwConfig* unpack_wds_SLQSSGetDHCPv4ClientConfig_t::pHwConfig

8.1434.2.2 wdsDhcpv4OptionList* unpack_wds_SLQSSGetDHCPv4ClientConfig_t::pRequestOptionList

8.1435 unpack_wds_SLQSSGetLoopback_t Struct Reference

Data Fields

- uint8_t ByteLoopbackMode
- uint8_t ByteLoopbackMultiplier

8.1435.1 Detailed Description

This structure contains unpack Get loopback information.

Parameters

ByteLoopback-Mode	• Loopback Mode. – 0 - Disable – 1 - Enable – 0xff - Invalid data.
ByteLoopback-Multiplier	• Loopback multiplier. Number of downlink bytes to send for each uplink byte. • 0xff - Invalid data.

8.1435.2 Field Documentation

8.1435.2.1 uint8_t unpack_wds_SLQSSGetLoopback_t::ByteLoopbackMode

8.1435.2.2 uint8_t unpack_wds_SLQSSGetLoopback_t::ByteLoopbackMultiplier

8.1436 unpack_wds_SLQSStartDataSession_t Struct Reference

Data Fields

- uint32_t * psid
- uint32_t * pFailureReason
- uint32_t * pVerboseFailReasonType
- uint32_t * pVerboseFailureReason

8.1436.1 Detailed Description

This structure contains unpack Start Data Session Information.

Parameters

psid	• Assigned session ID when starting a data session
pFailureReason	• Reason data session failed to be established • See qaGobiApiTableCallEndReasons.h for Call End Reason • NULL pointer - Invalid data.

pVerboseFail-ReasonType	• Parameter describing type of verbose failure reason • See qaGobiApiTableCallEndReasons.h for Call End Reason Type • NULL pointer - Invalid data.
pVerboseFailure-Reason	• Verbose reason explaining why call failed. Depends on verbFailReasonType parameter • See qaGobiApiTableCallEndReasons.h for Call End Reason • NULL pointer - Invalid data.

8.1436.2 Field Documentation

8.1436.2.1 uint32_t* unpack_wds_SLQSStartDataSession_t::pFailureReason

8.1436.2.2 uint32_t* unpack_wds_SLQSStartDataSession_t::psid

8.1436.2.3 uint32_t* unpack_wds_SLQSStartDataSession_t::pVerboseFailReasonType

8.1436.2.4 uint32_t* unpack_wds_SLQSStartDataSession_t::pVerboseFailureReason

8.1437 unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t Struct Reference

Data Fields

- uint8_t contextId
- uint8_t bearerId
- int8_t apnName [100]
- uint32_t ipv4Address
- uint32_t ipv4GWAddress
- uint32_t prDNSIPv4Address
- uint32_t seDNSIPv4Address
- ipv6AddressInfo ipv6Address
- ipv6AddressInfo ipv6GWAddress
- uint16_t prDNSIPv6Address [8]
- uint16_t seDNSIPv6Address [8]
- uint32_t prPCSCFIPv4Address
- uint32_t sePCSCFIPv4Address
- uint16_t prPCSCFIPv6Address [8]
- uint16_t sePCSCFIPv6Address [8]

8.1437.1 Detailed Description

This structure contains the unpack parameters retrieved by the API unpack_wds_SLQSWdsSwiPDPRuntime-Settings

Parameters

contextId	(optional) • Context Identifier – 0xFF - Not Available

bearerId	(optional) • Bearer Identity • An EPS bearer identity uniquely identifies an EPS bearer for one UE accessing via E-UTRAN. The EPS Bearer Identity is allocated by the MME. – 0xFF - Not Available
apnName	(optional) • APN name associated with the context id – NULL terminated by default.
ipv4Address	(optional) • IPv4 Address – 0xFFFF - Not Available
ipv4GWAddress	(optional) • IPv4 Gateway Address – 0xFFFF - Not Available
prDNSIPv4-Address	(optional) • Primary DNS IPv4 Address – 0xFFFF - Not Available
seDNSIPv4-Address	(optional) • Secondary DNS IPv4 Address – 0xFFFF - Not Available
ipv6Address	(optional) • IPv6 Address • See ipv6AddressInfo for more information
ipv6GWAddress	(optional) • IPv6 Gateway Address • See ipv6AddressInfo for more information
prDNSIPv6-Address	(optional) • Primary IPv6 DNS Address(in network byte order) • This is an 8-element array of 16-bit numbers, each of which is in big-endian format • 0xffffffff - Invalid data.
seDNSIPv6-Address	(optional) • Secondary IPv6 DNS Address(in network byte order) • This is an 8-element array of 16-bit numbers, each of which is in big-endian format • 0xffffffff - Invalid data.
prPCSCFIPv4-Address	(optional) • Primary PCSCF IPv4 Address • 0xffffffff - Invalid data.
sePCSCFIPv4-Address	(optional) • Secondary PCSCF IPv4 Address • 0xffffffff - Invalid data.

prPCSCFIPv6-Address	(optional) • Primary PCSCF IPv6 Address • This is an 8-element array of 16-bit numbers, each of which is in big-endian format • 0xffff - Invalid data.
sePCSCFIPv6-Address	(optional) • Secondary PCSCF IPv6 Address • This is an 8-element array of 16-bit numbers, each of which is in big-endian format • 0xffff - Invalid data.

8.1437.2 Field Documentation

8.1437.2.1 int8_t unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t::apnName[100]

8.1437.2.2 uint8_t unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t::bearerId

8.1437.2.3 uint8_t unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t::contextId

8.1437.2.4 uint32_t unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t::ipv4Address

8.1437.2.5 uint32_t unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t::ipv4GWAddress

8.1437.2.6 ipv6AddressInfo unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t::ipv6Address

8.1437.2.7 ipv6AddressInfo unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t::ipv6GWAddress

8.1437.2.8 uint32_t unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t::prDNSIPv4Address

8.1437.2.9 uint16_t unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t::prDNSIPv6Address[8]

8.1437.2.10 uint32_t unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t::prPCSCFIPv4Address

8.1437.2.11 uint16_t unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t::prPCSCFIPv6Address[8]

8.1437.2.12 uint32_t unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t::seDNSIPv4Address

8.1437.2.13 uint16_t unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t::seDNSIPv6Address[8]

8.1437.2.14 uint32_t unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t::sePCSCFIPv4Address

8.1437.2.15 uint16_t unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t::sePCSCFIPv6Address[8]

8.1438 UnPackGetProfileSettingOut Struct Reference

Data Fields

- UnpackQmiProfileInfo curProfile
- uint16_t * pExtErrCode

8.1438.1 Detailed Description

This structure contains the profile settings output

Parameters

curProfile	• Structure containing details of the current profile • See UnpackQmiProfileInfo
pExtErrCode	• pointer to a 2 byte extended error code • Error code will only will be present if error code eQCWWAN_ERR_QMI_EXTENDED_INTERNAL is returned by device. • See qm_wds_ds_profile_extended_err_codes enum in qmerrno.h for received error description.

8.1438.2 Field Documentation

8.1438.2.1 UnpackQmiProfileInfo UnPackGetProfileSettingOut::curProfile

8.1438.2.2 uint16_t* UnPackGetProfileSettingOut::pExtErrCode

8.1439 unpackWdsProfileParam Union Reference

Data Fields

- LibpackProfile3GPP SlqsProfile3GPP
- LibpackProfile3GPP2 SlqsProfile3GPP2

8.1439.1 Detailed Description

This union WdsProfileParam consists of Profile3GPP and Profile3GPP2 out of which one will be used to create profile.

Parameters

SlqsProfile3GPP	3GPP profile • See LibpackProfile3GPP
SlqsProfile3GPP2	3GPP2 profile • See LibpackProfile3GPP2

8.1439.2 Field Documentation

8.1439.2.1 LibpackProfile3GPP unpackWdsProfileParam::SlqsProfile3GPP

8.1439.2.2 LibpackProfile3GPP2 unpackWdsProfileParam::SlqsProfile3GPP2

8.1440 urlAddr Struct Reference

Data Fields

- CHAR address [256]
- BYTE TlvPresent

8.1440.1 Detailed Description

This structure contains LOC Get Server URL address field.

Parameters

address	• Uniform Resource Locator • Type - NULL terminated string • Maximum string length (including NULL terminator) 256
TlvPresent	• Tlv Present or not

8.1440.2 Field Documentation

8.1440.2.1 CHAR urlAddr::address[256]

8.1440.2.2 BYTE urlAddr::TlvPresent

8.1441 URLAddrInfo Struct Reference

Data Fields

- CHAR urlAddr [256]

8.1441.1 Detailed Description

This structure specifies information regarding the URL.

Parameters

urlAddr	• URL address. • Type - NULL-terminated string • Maximum string length (including NULL terminator) - 256

8.1441.2 Field Documentation

8.1441.2.1 CHAR URLAddrInfo::urlAddr[256]

8.1442 USBCompConfig Struct Reference

Data Fields

- BYTE * pUSBComp

8.1442.1 Detailed Description

This structure is used to store USB composition information

Parameters

pUSBComp[IN]	• Current USB Composition • Values: – 0..5 - Reserved (non-QMI) – 6 - DM NMEA AT QMI – 7 - DM NMEA AT QMI1 QMI2 QMI3 – 8 - DM NMEA AT MBIM – 9 - MBIM – 10 - NMEA MBIM – 11 - DM MBIM – 12 - DM NMEA MBIM 13-22 are combined compositions. One is for Win8 MBIM interfaces, another is for legacy QMI interfaces – 13 - 6 for QMI, 8 for MBIM – 14 - 6 for QMI, 9 for MBIM – 15 - 6 for QMI, 10 for MBIM – 16 - 6 for QMI, 11 for MBIM – 17 - 6 for QMI, 12 for MBIM – 18 - 7 for QMI, 8 for MBIM – 19 - 7 for QMI, 9 for MBIM – 20 - 7 for QMI, 10 for MBIM – 21 - 7 for QMI, 11 for MBIM – 22 - 7 for QMI, 12 for MBIM

8.1442.2 Field Documentation

8.1442.2.1 BYTE* USBCompConfig::pUSBComp

8.1443 USBCompParams Struct Reference

Data Fields

- BYTE * pUSBComp
- BYTE * pNumSupUSBComps
- BYTE * pSupUSBComps

8.1443.1 Detailed Description

This structure is used to store retrieved USB Composition

Parameters

pUSBComp[OUT]	• Current USB Composition(optional parameter) • Values: – 0..5 - Reserved (non-QMI) – 6 - DM NMEA AT QMI – 7 - DM NMEA AT QMI1 QMI2 QMI3 – 8 - DM NMEA AT MBIM – 9 - MBIM – 10 - NMEA MBIM – 11 - DM MBIM – 12 - DM NMEA MBIM 13-22 are combined compositions. One is for Win8 MBIM interfaces, another is for legacy QMI interfaces – 13 - 6 for QMI, 8 for MBIM – 14 - 6 for QMI, 9 for MBIM – 15 - 6 for QMI, 10 for MBIM – 16 - 6 for QMI, 11 for MBIM – 17 - 6 for QMI, 12 for MBIM – 18 - 7 for QMI, 8 for MBIM – 19 - 7 for QMI, 9 for MBIM – 20 - 7 for QMI, 10 for MBIM – 21 - 7 for QMI, 11 for MBIM – 22 - 7 for QMI, 12 for MBIM
pNumSupUSBComps[OUT]	• Number of supported USB compositions in the parameter to follow • Range - 0-255

pSupUSB-Comps[OUT]	• Optional parameter • List of supported USB compositions(1 Byte each - Max 255) • Total length is defined by pNumSupUSBComps parameter • Values: – 0..5 - Reserved (non-QMI) – 6 - DM NMEA AT QMI – 7 - DM NMEA AT QMI1 QMI2 QMI3 – 8 - DM NMEA AT MBIM – 9 - MBIM – 10 - NMEA MBIM – 11 - DM MBIM – 12 - DM NMEA MBIM 13-22 are combined compositions. One is for Win8 MBIM interfaces, another is for legacy QMI interfaces – 13 - 6 for QMI, 8 for MBIM – 14 - 6 for QMI, 9 for MBIM – 15 - 6 for QMI, 10 for MBIM – 16 - 6 for QMI, 11 for MBIM – 17 - 6 for QMI, 12 for MBIM – 18 - 7 for QMI, 8 for MBIM – 19 - 7 for QMI, 9 for MBIM – 20 - 7 for QMI, 10 for MBIM – 21 - 7 for QMI, 11 for MBIM – 22 - 7 for QMI, 12 for MBIM

8.1443.2 Field Documentation

8.1443.2.1 BYTE* USBCompParams::pNumSupUSBComps

8.1443.2.2 BYTE* USBCompParams::pSupUSBComps

8.1443.2.3 BYTE* USBCompParams::pUSBComp

8.1444 usbMTUSizeTlv Struct Reference

Data Fields

- BYTE TlvPresent
- WORD UsbMTUSize

8.1444.1 Detailed Description

This structure contains the parameters for USB MTU Size

Parameters

TlvPresent	• Tlv Present.

UsbMTUSize	USB MTU size • Size of USB MTU

8.1444.2 Field Documentation

8.1444.2.1 BYTE usbMTUSizeTlv::TlvPresent

8.1444.2.2 WORD usbMTUSizeTlv::UsbMTUSize

8.1445 USSDNoWaitIndicationInfo Struct Reference

Data Fields

- BYTE * pError
- BYTE * pFailureCause
- struct USSInfo * pUSSDData
- alphaIDInfo * pAlphaIdentifier

8.1445.1 Detailed Description

Contains the parameters passed for USSDNoWaitIndicationCallback by the device.

Parameters

pError	• Type of Error (if any)
pFailureCause	• Supplementary services failure cause
pUSSDData	• USS Data from Network. • See USSInfo for more details.

8.1445.2 Field Documentation

8.1445.2.1 alphaIDInfo* USSDNoWaitIndicationInfo::pAlphaIdentifier

8.1445.2.2 BYTE* USSDNoWaitIndicationInfo::pError

8.1445.2.3 BYTE* USSDNoWaitIndicationInfo::pFailureCause

8.1445.2.4 struct USSInfo* USSDNoWaitIndicationInfo::pUSSDData

8.1446 USSDRespFNetwork Struct Reference

Data Fields

- char * pTypeCode

- char * pRespData

8.1446.1 Detailed Description

This structure contains the response from the network

Parameters

pTypeCode	"0" USSD-Notify – text in pRespData "1" USSD-Request – text in pRespData "2" Session terminated by network "3" other local client (eg, SIM Toolkit) has responded "4" Operation not supported "5" Network timeout
pRespData	• points to a message string received from the network

8.1446.2 Field Documentation

8.1446.2.1 char* USSDRespFNetwork::pRespData

8.1446.2.2 char* USSDRespFNetwork::pTypeCode

8.1447 USSInfo Struct Reference

Data Fields

- BYTE ussDCS
- BYTE ussLen
- BYTE ussData [182]

8.1447.1 Detailed Description

This structure contains USS Information

Parameters

ussDCS	• 1 - ASCII coding scheme • 2 - 8-BIT coding scheme • 3 - UCS2
ussLen	• Range 1 to 182
ussData	• Data encoded as per the DCS

8.1447.2 Field Documentation

8.1447.2.1 BYTE USSInfo::ussData[182]

8.1447.2.2 BYTE USSInfo::ussDCS

8.1447.2.3 BYTE USSInfo::ussLen

8.1448 USSResp Struct Reference

Data Fields

- WORD * pfailureCause
- alphaIDInfo * pAlphaIDInfo
- struct USSInfo * pUSSDInfo
- BYTE * pCcResultType
- BYTE * pCallId
- ccSUPSType * pCCSuppsType

8.1448.1 Field Documentation

8.1448.1.1 alphaIDInfo* USSResp::pAlphaIDInfo

8.1448.1.2 BYTE* USSResp::pCallId

8.1448.1.3 BYTE* USSResp::pCcResultType

8.1448.1.4 ccSUPSType* USSResp::pCCSuppsType

8.1448.1.5 WORD* USSResp::pfailureCause

8.1448.1.6 struct USSInfo* USSResp::pUSSDInfo

8.1449 UUSInfo Struct Reference

Data Fields

- BYTE UUSType
- BYTE UUSDcs
- BYTE UUSDatalen
- BYTE UUSData [255]

8.1449.1 Detailed Description

This structure contains User to User Signaling Service Information.

Parameters

UUSType	• UUS type values are: – 0x00 - UUS_DATA – 0x01 - UUS_TYPE1_IMPLICIT – 0x02 - UUS_TYPE1_REQUIRED – 0x03 - UUS_TYPE1_NOT_REQUIRED – 0x04 - UUS_TYPE2_REQUIRED – 0x05 - UUS_TYPE2_NOT_REQUIRED – 0x06 - UUS_TYPE3_REQUIRED – 0x07 - UUS_TYPE3_NOT_REQUIRED – 0xFF - Not Available

UUSDcs	• UUS data coding scheme values are: – 0x01 - UUS_DCS_USP – 0x02 - UUS_DCS_OHLP – 0x03 - UUS_DCS_X244 – 0x04 - UUS_DCS_SMCF – 0x05 - UUS_DCS_IA5 – 0x06 - UUS_DCS_RV12RD – 0x07 - UUS_DCS_Q931UNCCM – 0xFF - Not Available
UUSDatalen	• Number of sets of the following elements. – UUSData • If zero(0) then no further information exists.
UUSData[MAX_-DESCRIPTION-_LENGTH]	• UUS data encoded as per coding scheme

8.1449.2 Field Documentation

8.1449.2.1 BYTE UUSInfo::UUSData[255]

8.1449.2.2 BYTE UUSInfo::UUSDatalen

8.1449.2.3 BYTE UUSInfo::UUSDcs

8.1449.2.4 BYTE UUSInfo::UUSType

8.1450 verifyUIMPIN Struct Reference

Data Fields

- BYTE pinID
- BYTE pinLen
- BYTE pinVal [255]

8.1450.1 Detailed Description

This structure contains the information about the pin parameters that need to be verified.

Parameters

pinID	• Indicates the PIN ID to be verified. – 1 - PIN1 (also called PIN) – 2 - PIN2 – 3 - Universal PIN – 4 - Hidden key

pinLen	• Length of the following elements i.e. pin value.
pinVal[MAX_DESCRIPTION_LENGTH]	• PIN value. • This value is a sequence of ASCII characters.

8.1450.2 Field Documentation

8.1450.2.1 BYTE verifyUIMPIN::pinID

8.1450.2.2 BYTE verifyUIMPIN::pinLen

8.1450.2.3 BYTE verifyUIMPIN::pinVal[255]

8.1451 voice_airTimer Struct Reference

Data Fields

- uint8_t namID
- uint32_t airTimerValue

8.1451.1 Detailed Description

This structure contains information about the Air Timer.

Parameters

namID	• Index of the NAM(Number Assignment Module) to be configured. • Range 0 to 3. • Some modems support only 1 or 2 NAMs. • 0xFF,if not available.
airTimerValue	• Time in minutes. • Cumulative air time is slammed. • 0xFFFFFFFF,if not available.

8.1451.2 Field Documentation

8.1451.2.1 uint32_t voice_airTimer::airTimerValue

8.1451.2.2 uint8_t voice_airTimer::namID

8.1452 voice_allCallsAlphaIDInfo Struct Reference

Data Fields

- uint8_t callID
- voice_alphaIDInfo AlphaIDInfo

8.1452.1 Detailed Description

This structure contains information for Alpha Identifier for All Calls

Parameters

callID	• Unique call identifier for the call.
AlphaIDInfo	• See voice_alphaIDInfo for more information.

8.1452.2 Field Documentation

8.1452.2.1 voice_alphaIDInfo voice_allCallsAlphaIDInfo::AlphaIDInfo

8.1452.2.2 uint8_t voice_allCallsAlphaIDInfo::callID

8.1453 voice_allCallsDiagInfo Struct Reference

Data Fields

- uint8_t callID
- voice_diagInfo DiagInfo

8.1453.1 Detailed Description

This structure contains Diagnostic Information for All Calls

Parameters

callID	• Unique call identifier for the call.
DiagInfo	• See voice_diagInfo for more information.

8.1453.2 Field Documentation

8.1453.2.1 uint8_t voice_allCallsDiagInfo::callID

8.1453.2.2 voice_diagInfo voice_allCallsDiagInfo::DiagInfo

8.1454 voice_allCallsUUSInfo Struct Reference

Data Fields

- uint8_t callID
- voice_UUSInfo uusInfo

8.1454.1 Detailed Description

This structure contains information for User to User Signaling Service for All Calls.

Parameters

callID	• Unique call identifier for the call.
uusInfo	• See voice_UUSInfo for more information.

8.1454.2 Field Documentation

8.1454.2.1 uint8_t voice_allCallsUUSInfo::callID

8.1454.2.2 voice_UUSInfo voice_allCallsUUSInfo::uusInfo

8.1455 voice_alphaIDInfo Struct Reference

Data Fields

- uint8_t alphaDcs
- uint8_t alphaLen
- uint8_t alphaText [255]

8.1455.1 Detailed Description

This structure contains information about the Alpha Identifier.

Parameters

alphaDcs	• Alpha coding scheme – 0x01 - GSM Default_Char – 0x02 - UCS2 – 0xFF - Not Available
alphaLen	• Number of sets of the following elements: – pAlpha_text • If zero(0) then no further information exists.
alphaText[MAX_VOICE_DESCRIPTION_LENGTH]	• Data encoded as per the alpha_dcs

8.1455.2 Field Documentation

8.1455.2.1 uint8_t voice_alphaIDInfo::alphaDcs

8.1455.2.2 uint8_t voice_alphaIDInfo::alphaLen

8.1455.2.3 uint8_t voice_alphaIDInfo::alphaText[255]

8.1456 voice_arrAlertingPattern Struct Reference

Data Fields

- uint8_t numInstances
- uint8_t callID [20]
- uint32_t alertingPattern [20]

8.1456.1 Detailed Description

This structure contains an array of Alerting Pattern.

Parameters

numInstances	• Number of callID, alertingPattern that follow. • If zero(0) then no further information exists.
callID[VOICE_MAX_NO_OF_CALLS]	• Array of Unique call identifier for the call.
alertingPattern[VOICE_MAX_NO_OF_CALLS]	• Array of Alerting pattern. – 0x00 - QMI_VOICE_ALERTING_PATTERN_1 - Pattern 1 – 0x01 - QMI_VOICE_ALERTING_PATTERN_2 - Pattern 2 – 0x02 - QMI_VOICE_ALERTING_PATTERN_3 - Pattern 3 – 0x04 - QMI_VOICE_ALERTING_PATTERN_5 - Pattern 5 – 0x05 - QMI_VOICE_ALERTING_PATTERN_6 - Pattern 6 – 0x06 - QMI_VOICE_ALERTING_PATTERN_7 - Pattern 7 – 0x07 - QMI_VOICE_ALERTING_PATTERN_8 - Pattern 8 – 0x08 - QMI_VOICE_ALERTING_PATTERN_9 - Pattern 9

8.1456.2 Field Documentation

8.1456.2.1 uint32_t voice_arrAlertingPattern::alertingPattern[20]

8.1456.2.2 uint8_t voice_arrAlertingPattern::callID[20]

8.1456.2.3 uint8_t voice_arrAlertingPattern::numInstances

8.1457 voice_arrAlertingType Struct Reference

Data Fields

- uint8_t numInstances
- uint8_t callID [20]
- uint8_t AlertingType [20]

8.1457.1 Detailed Description

This structure contains an array of Alerting Type.

Parameters

numInstances	• Number of callID, AlertingType that follow. • If zero(0) then no further information exists.
callID[VOICE_MAX_NO_OF_CALLS]	• Array of Unique call identifier for the call.
AlertingType[VOICE_MAX_NO_OF_CALLS]	• Array of Alerting type. – 0x00 - ALERTING_LOCAL - Local – 0x01 - ALERTING_REMOTE - Remote

8.1457.2 Field Documentation

8.1457.2.1 uint8_t voice_arrAlertingType::AlertingType[20]

8.1457.2.2 uint8_t voice_arrAlertingType::callID[20]

8.1457.2.3 uint8_t voice_arrAlertingType::numInstances

8.1458 voice_arrAlphaID Struct Reference

Data Fields

- uint8_t numInstances
- voice_allCallsAlphaIDInfo allCallsAlphaIDInfoArr [20]

8.1458.1 Detailed Description

This structure contains an array of Alpha ID Info

Parameters

numInstances	• Number of allCallsAlphaIDInfo that follow. • If zero(0) then no further information exists.
allCallsAlphaIDInfo[VOICE_MAX_NO_OF_CALLS]	• Array of allCallsAlphaIDInfo. • See voice_allCallsAlphaIDInfo for more information.

8.1458.2 Field Documentation

8.1458.2.1 voice_allCallsAlphaIDInfo voice_arrAlphaID::allCallsAlphaIDInfoArr[20]

8.1458.2.2 uint8_t voice_arrAlphaID::numInstances

8.1459 voice_arrCalledPartyNum Struct Reference

Data Fields

- uint8_t numInstances
- voice_peerNumberInfo CalledPartyNum [20]

8.1459.1 Detailed Description

This structure contains an array of Called Party Numbers consisting of information of all the numbers which have been called from the device.

Parameters

numInstances	• Number of calledPartyNum that follow. • If zero(0) then no further information exists.
CalledPartyNum[VOICE_MAX_NO_OF_CALLS]	• Array of CalledPartyNum. • See voice_peerNumberInfo for more information.

8.1459.2 Field Documentation

8.1459.2.1 voice_peerNumberInfo voice_arrCalledPartyNum::CalledPartyNum[20]

8.1459.2.2 uint8_t voice_arrCalledPartyNum::numInstances

8.1460 voice_arrCallEndReason Struct Reference

Data Fields

- uint8_t numInstances
- uint8_t callID [20]
- uint16_t callEndReason [20]

8.1460.1 Detailed Description

This structure contains an array of Call End Reasons.

Parameters

numInstances	• Number of callID, callEndReason that follow. • If zero(0) then no further information exists.

callID[VOICE_MAX_NO_OF_CALLS]	• Array of Unique call identifier for the call.
callEndReason[VOICE_MAX_NO_OF_CALLS]	• Array of Call End Reason . • See Table9 qaGobiApiTableVoiceCallEndReasons.h for a list of valid voice-related call end reasons

8.1460.2 Field Documentation

8.1460.2.1 uint16_t voice_arrCallEndReason::callEndReason[20]

8.1460.2.2 uint8_t voice_arrCallEndReason::callID[20]

8.1460.2.3 uint8_t voice_arrCallEndReason::numInstances

8.1461 voice_arrCallInfo Struct Reference

Data Fields

- uint8_t numInstances
- voice_getAllCallInformation getAllCallInfo [20]

8.1461.1 Detailed Description

This structure contains an array of Call Info

Parameters

numInstances	• Number of getAllCallInfo that follow. • If zero(0) then no further information exists.
getAllCallInfo[VOICE_MAX_NO_OF_CALLS]	• Array of CallInfo. • See voice_getAllCallInformation for more information.

8.1461.2 Field Documentation

8.1461.2.1 voice_getAllCallInformation voice_arrCallInfo::getAllCallInfo[20]

8.1461.2.2 uint8_t voice_arrCallInfo::numInstances

8.1462 voice_arrConnectPartyNum Struct Reference

Data Fields

- uint8_t numInstances
- voice_peerNumberInfo ConnectedPartyNum [20]

8.1462.1 Detailed Description

This structure contains an array of Connected Party Numbers consisting of information regarding all the devices connected.

Parameters

numInstances	• Number of ConnectedPartyNum that follow. • If zero(0) then no further information exists.
ConnectedPartyNum[VOICE_MAX_NO_OF_CALLS]	• Array of ConnectedPartyNum. • See voice_peerNumberInfo for more information.

8.1462.2 Field Documentation

8.1462.2.1 voice_peerNumberInfo voice_arrConnectPartyNum::ConnectedPartyNum[20]

8.1462.2.2 uint8_t voice_arrConnectPartyNum::numInstances

8.1463 voice_arrDiagInfo Struct Reference

Data Fields

- uint8_t numInstances
- voice_allCallsDiagInfo DiagInfo [20]

8.1463.1 Detailed Description

This structure contains an array of Diagnostic Information.

Parameters

numInstances	• Number of DiagInfo that follow. • If zero(0) then no further information exists.
DiagInfo[VOICE_MAX_NO_OF_CALLS]	• Array of DiagInfo. • See voice_allCallsDiagInfo for more information.

8.1463.2 Field Documentation

8.1463.2.1 voice_allCallsDiagInfo voice_arrDiagInfo::DiagInfo[20]

8.1463.2.2 uint8_t voice_arrDiagInfo::numInstances

8.1464 voice_arrRedirPartyNum Struct Reference

Data Fields

- uint8_t numInstances
- voice_peerNumberInfo RedirPartyNum [20]

8.1464.1 Detailed Description

This structure contains an array of Redirecting Party Numbers consisting of information of all the numbers which have been redirected from the device.

Parameters

numInstances	• Number of redirPartyNum that follow. • If zero(0) then no further information exists.
RedirPartyNum[VOICE_MAX_NO_OF_CALLS]	• Array of RedirPartyNum. • See voice_peerNumberInfo for more information.

8.1464.2 Field Documentation

8.1464.2.1 uint8_t voice_arrRedirPartyNum::numInstances

8.1464.2.2 voice_peerNumberInfo voice_arrRedirPartyNum::RedirPartyNum[20]

8.1465 voice_arrRemotePartyName Struct Reference

Data Fields

- uint8_t numInstances
- voice_getAllCallRmtPtyName GetAllCallRmtPtyName [20]

8.1465.1 Detailed Description

This structure contains an array of Remote Party Names

Parameters

numInstances	• Number of remotePartyName that follow. • If zero(0) then no further information exists.
GetAllCallRmtPtyName[MAX_NO_OF_CALLS]	• Array of remotePartyName. • See voice_getAllCallRmtPtyName for more information.

8.1465.2 Field Documentation

8.1465.2.1 voice_getAllCallRmtPtyName voice_arrRemotePartyName::GetAllCallRmtPtyName[20]

8.1465.2.2 uint8_t voice_arrRemotePartyName::numInstances

8.1466 voice_arrRemotePartyNum Struct Reference

Data Fields

- uint8_t numInstances
- voice_getAllCallRmtPtyNum RmtPtyNum [20]

8.1466.1 Detailed Description

This structure contains an array of Remote Party Numbers

Parameters

numInstances	• Number of remotePartyNum that follow. • If zero(0) then no further information exists.
RmtPtyNum[VOICE_MAX_NO_OF_CALLS]	• Array of remotePartyNum. • See voice_getAllCallRmtPtyNum for more information.

8.1466.2 Field Documentation

8.1466.2.1 uint8_t voice_arrRemotePartyNum::numInstances

8.1466.2.2 voice_getAllCallRmtPtyNum voice_arrRemotePartyNum::RmtPtyNum[20]

8.1467 voice_arrSvcOption Struct Reference

Data Fields

- uint8_t numInstances
- uint8_t callID [20]
- uint16_t srvOption [20]

8.1467.1 Detailed Description

This structure contains array an of Servicing option.

Parameters

numInstances	• Number of callID, srvOption that follow. • If zero(0) then no further information exists.
callID[VOICE_MAX_NO_OF_CALLS]	• Array of Unique call identifier for the call.

srvOption[VOICE_MAX_NO_OF_CALLS]	• Array of Service option. • See Table9 qaGobiApiTableServiceOptions.h for standard service option number assignments.

8.1467.2 Field Documentation

8.1467.2.1 uint8_t voice_arrSvcOption::callID[20]

8.1467.2.2 uint8_t voice_arrSvcOption::numInstances

8.1467.2.3 uint16_t voice_arrSvcOption::srvOption[20]

8.1468 voice_arrUUSInfo Struct Reference

Data Fields

- uint8_t numInstances
- voice_allCallsUUSInfo AllCallsUUSInfo [20]

8.1468.1 Detailed Description

This structure contains an array of User to User Signaling Service Information

Parameters

numInstances	• Number of allCallsUUSInfo that follow. • If zero(0) then no further information exists.
AllCallsUUSInfo[VOICE_MAX_NO_OF_CALLS]	• Array of allCallsUUSInfo. • See voice_allCallsUUSInfo for more information.

8.1468.2 Field Documentation

8.1468.2.1 voice_allCallsUUSInfo voice_arrUUSInfo::AllCallsUUSInfo[20]

8.1468.2.2 uint8_t voice_arrUUSInfo::numInstances

8.1469 voice_burstDTMFInfo Struct Reference

Data Fields

- uint8_t * pCallID
- uint8_t digitCnt
- uint8_t pDigitBuff [255]

8.1469.1 Detailed Description

This structure contains Voice Burst DTMF Information

Parameters

pCallID	• Call ID associated with call on which the DTMF information has to be sent. A burst DTMF request is sent to the current active/alerting call when pCallId is set to 0xFF. • This is IN/OUT parameter, value passed by user will be packed in request and value received from the device would be returned to the user. • If the call ID value received is 0, no value has been returned by the device • NULL pointer - Invalid data.
digitCnt	• Length of DTMF digit buffer which follows
pDigitBuff[MAX_VOICE_DESCRIPTION_LENGTH]	• DTMF digit buffer in ASCII, NULL terminated

8.1469.2 Field Documentation

8.1469.2.1 uint8_t voice_burstDTMFInfo::digitCnt

8.1469.2.2 uint8_t* voice_burstDTMFInfo::pCallID

8.1469.2.3 uint8_t voice_burstDTMFInfo::pDigitBuff[255]

8.1470 voice_calledPartyInfo Struct Reference

Data Fields

- uint8_t PI
- uint8_t SI
- uint8_t numType
- uint8_t numPlan
- uint8_t numLen
- uint8_t number [255]

8.1470.1 Detailed Description

This structure contains Called party Number Information

Parameters

PI	• Presentation indicator; refer to [S1, Table 2.7.4.4-1] for valid values.
SI	• Number of sets of following elements – Caller Id

SI	• Number screening indicator. • Values: – 0x00 - QMI_VOICE_SI_USER_PROVIDED_NOT_SCREENED - Provided user is not screened – 0x01 - QMI_VOICE_SI_USER_PROVIDED_VERIFIED_PASSED - Provided user passed verification – 0x02 - QMI_VOICE_SI_USER_PROVIDED_VERIFIED_FAILED - Provided user failed verification – 0x03 - QMI_VOICE_SI_NETWORK_PROVIDED - Provided network
numType	• Number type. • Values: – 0x00 - QMI_VOICE_NUM_TYPE_UNKNOWN - Unknown – 0x01 - QMI_VOICE_NUM_TYPE_INTERNATIONAL - International – 0x02 - QMI_VOICE_NUM_TYPE_NATIONAL - National – 0x03 - QMI_VOICE_NUM_TYPE_NETWORK_SPECIFIC - Network-specific – 0x04 - QMI_VOICE_NUM_TYPE_SUBSCRIBER - Subscriber – 0x05 - QMI_VOICE_NUM_TYPE_RESERVED - Reserved – 0x06 - QMI_VOICE_NUM_TYPE_ABBREVIATED - Abbreviated – 0x07 - QMI_VOICE_NUM_TYPE_RESERVED_EXTENSION - Reserved extension
numPlan	• Number plan. • Values: – 0x00 - QMI_VOICE_NUM_PLAN_UNKNOWN - Unknown – 0x01 - QMI_VOICE_NUM_PLAN_ISDN - ISDN – 0x03 - QMI_VOICE_NUM_PLAN_DATA - Data – 0x04 - QMI_VOICE_NUM_PLAN_TELEX - Telex – 0x08 - QMI_VOICE_NUM_PLAN_NATIONAL - National – 0x09 - QMI_VOICE_NUM_PLAN_PRIVATE - Private – 0x0B - QMI_VOICE_NUM_PLAN_RESERVED_CTS - Reserved cordless telephony system – 0x0F - QMI_VOICE_NUM_PLAN_RESERVED_EXTENSION - Reserved extension
numLen	• Provides the length of number which follow.
number[255]	• number of numLen length, NULL terminated.

8.1470.2 Field Documentation

8.1470.2.1 uint8_t voice_calledPartyInfo::number[255]

8.1470.2.2 uint8_t voice_calledPartyInfo::numLen

8.1470.2.3 uint8_t voice_calledPartyInfo::numPlan

8.1470.2.4 uint8_t voice_calledPartyInfo::numType

8.1470.2.5 uint8_t voice_calledPartyInfo::PI

8.1470.2.6 uint8_t voice_calledPartyInfo::SI

8.1471 voice_calledPartySubAdd Struct Reference

Data Fields

- uint8_t extBit
- uint8_t subAddrType
- uint8_t oddEvenInd
- uint8_t subAddrLen
- uint8_t subAddr [255]

8.1471.1 Detailed Description

This structure contains information about the Called Sub Party Addresses.

Parameters

extBit	• Extension bit.
subAddrType	• Subaddress type. – 0x00 - NSAP – 0x01 - USER
oddEvenInd	• Even/odd indicator. – 0x00 - Even number of address signals – 0x01 - Odd number of address signals
subAddrLen	• Number of sets of the following elements: – SubAddress
subAddr[MAX_VOICE_DESCRIPTION_LENGTH]	• Array of the SubAddress in BCD number format.

8.1471.2 Field Documentation

8.1471.2.1 uint8_t voice_calledPartySubAdd::extBit

8.1471.2.2 uint8_t voice_calledPartySubAdd::oddEvenInd

8.1471.2.3 uint8_t voice_calledPartySubAdd::subAddr[255]

8.1471.2.4 uint8_t voice_calledPartySubAdd::subAddrLen

8.1471.2.5 uint8_t voice_calledPartySubAdd::subAddrType

8.1472 voice_callerIDInfo Struct Reference

Data Fields

- uint8_t PI
- uint8_t callerIDLen
- uint8_t callerID [255]

8.1472.1 Detailed Description

This structure contains Caller ID Information

Parameters

PI	• Presentation indicator; refer to [S1, Table 2.7.4.4-1] for valid values.
callerIDLen	• Number of sets of following elements – Caller Id
pCallerID	• Caller ID in ASCII string.

8.1472.2 Field Documentation

8.1472.2.1 uint8_t voice_callerIDInfo::callerID[255]

8.1472.2.2 uint8_t voice_callerIDInfo::callerIDLen

8.1472.2.3 uint8_t voice_callerIDInfo::PI

8.1473 voice_callFwdTypeAndPlan Struct Reference

Data Fields

- uint8_t numberType
- uint8_t numberPlan

8.1473.1 Detailed Description

This structure contains Supplementary Service request parameters related to different features and their activation, deactivation, registration and erasure (applicable only for 3GPP)

Parameters

numberType	• Call forwarding number type – 0x00 - QMI_VOICE_NUM_TYPE_UNKNOWN Unknown – 0x01 - QMI_VOICE_NUM_TYPE_INTERNATIONAL International – 0x02 - QMI_VOICE_NUM_TYPE_NATIONAL National – 0x03 - QMI_VOICE_NUM_TYPE_NETWORK_SPECIFIC Network-specific – 0x04 - QMI_VOICE_NUM_TYPE_SUBSCRIBER Subscriber – 0x05 - QMI_VOICE_NUM_TYPE_RESERVED Reserved – 0x06 - QMI_VOICE_NUM_TYPE_ABBREVIATED Abbreviated – 0x07 - QMI_VOICE_NUM_TYPE_RESERVED_EXTENSION Reserved extension
numberPlan	• Call forwarding number plan – 0x00 - QMI_VOICE_NUM_PLAN_UNKNOWN Unknown – 0x01 - QMI_VOICE_NUM_PLAN_ISDN ISDN – 0x03 - QMI_VOICE_NUM_PLAN_DATA Data – 0x04 - QMI_VOICE_NUM_PLAN_TELEX Telex – 0x08 - QMI_VOICE_NUM_PLAN_NATIONAL National – 0x09 - QMI_VOICE_NUM_PLAN_PRIVATE Private – 0x0B - QMI_VOICE_NUM_PLAN_RESERVED_CTS Reserved cordless telephony system – 0x0F - QMI_VOICE_NUM_PLAN_RESERVED_EXTENSION Reserved extension

8.1473.2 Field Documentation

8.1473.2.1 uint8_t voice_callFwdTypeAndPlan::numberPlan

8.1473.2.2 uint8_t voice_callFwdTypeAndPlan::numberType

8.1474 voice_callFWExtInfo Struct Reference

Data Fields

- uint8_t SvcStatus
- uint8_t SvcClass
- uint8_t noReplyTimer
- uint8_t PI
- uint8_t SI
- uint8_t numType
- uint8_t numPlan
- uint8_t numLen
- uint8_t number [255]

8.1474.1 Detailed Description

This structure contains information for Get Call Forwarding Extended Information.

Parameters

SvcStatus	• Service status. Values: – 0x00 - SERVICE_STATUS_INACTIVE - Inactive – 0x01 - SERVICE_STATUS_ACTIVE - Active
SvcClass	• Service Class is a combination (sum) of information class constants • See qaGobiApiTableSupServiceInfoClasses.h for service classes.
noReplyTimer	• No reply timer value in seconds • A value of 0 indicates that no_reply_timer is ignored.
PI	• Presentation indicator; refer to [S1, Table 2.7.4.4-1] for valid values.
SI	• Number screening indicator. • Values: – 0x00 - QMI_VOICE_SI_USER_PROVIDED_NOT_SCREENED - Provided user is not screened – 0x01 - QMI_VOICE_SI_USER_PROVIDED_VERIFIED_PASSED - Provided user passed verification – 0x02 - QMI_VOICE_SI_USER_PROVIDED_VERIFIED_FAILED - Provided user failed verification – 0x03 - QMI_VOICE_SI_NETWORK_PROVIDED - Provided network
numType	• Number type. • Values: – 0x00 - QMI_VOICE_NUM_TYPE_UNKNOWN - Unknown – 0x01 - QMI_VOICE_NUM_TYPE_INTERNATIONAL - International – 0x02 - QMI_VOICE_NUM_TYPE_NATIONAL - National – 0x03 - QMI_VOICE_NUM_TYPE_NETWORK_SPECIFIC - Network-specific – 0x04 - QMI_VOICE_NUM_TYPE_SUBSCRIBER - Subscriber – 0x05 - QMI_VOICE_NUM_TYPE_RESERVED - Reserved – 0x06 - QMI_VOICE_NUM_TYPE_ABBREVIATED - Abbreviated – 0x07 - QMI_VOICE_NUM_TYPE_RESERVED_EXTENSION - Reserved extension
numPlan	• Number plan. • Values: – 0x00 - QMI_VOICE_NUM_PLAN_UNKNOWN - Unknown – 0x01 - QMI_VOICE_NUM_PLAN_ISDN - ISDN – 0x03 - QMI_VOICE_NUM_PLAN_DATA - Data – 0x04 - QMI_VOICE_NUM_PLAN_TELEX - Telex – 0x08 - QMI_VOICE_NUM_PLAN_NATIONAL - National – 0x09 - QMI_VOICE_NUM_PLAN_PRIVATE - Private – 0x0B - QMI_VOICE_NUM_PLAN_RESERVED_CTS - Reserved cordless telephony system – 0x0F - QMI_VOICE_NUM_PLAN_RESERVED_EXTENSION - Reserved extension

numLen	• Provides the length of number which follow.
number[255]	• number of numLen length, NULL terminated.

8.1474.2 Field Documentation

8.1474.2.1 uint8_t voice_callFWExtInfo::noReplyTimer

8.1474.2.2 uint8_t voice_callFWExtInfo::number[255]

8.1474.2.3 uint8_t voice_callFWExtInfo::numLen

8.1474.2.4 uint8_t voice_callFWExtInfo::numPlan

8.1474.2.5 uint8_t voice_callFWExtInfo::numType

8.1474.2.6 uint8_t voice_callFWExtInfo::PI

8.1474.2.7 uint8_t voice_callFWExtInfo::SI

8.1474.2.8 uint8_t voice_callFWExtInfo::SvcClass

8.1474.2.9 uint8_t voice_callFWExtInfo::SvcStatus

8.1475 voice_callFWInfo Struct Reference

Data Fields

- uint8_t SvcStatus
- uint8_t SvcClass
- uint8_t numLen
- uint8_t number [255]
- uint8_t noReplyTimer

8.1475.1 Detailed Description

This structure contains information for Get Call Forwarding Information.

Parameters

SvcStatus	• Service status. Values: – 0x00 - SERVICE_STATUS_INACTIVE - Inactive – 0x01 - SERVICE_STATUS_ACTIVE - Active
SvcClass	• Service Class is a combination (sum) of information class constants • See qaGobiApiTableSupServiceInfoClasses.h for service classes.

numLen	• Provides the length of number which follow.
number[255]	• number of numLen length, NULL terminated.
noReplyTimer	• No reply timer value in seconds • A value of 0 indicates that noReplyTimer is ignored.

8.1475.2 Field Documentation

8.1475.2.1 uint8_t voice_callFWInfo::noReplyTimer

8.1475.2.2 uint8_t voice_callFWInfo::number[255]

8.1475.2.3 uint8_t voice_callFWInfo::numLen

8.1475.2.4 uint8_t voice_callFWInfo::SvcClass

8.1475.2.5 uint8_t voice_callFWInfo::SvcStatus

8.1476 voice_callInfo Struct Reference

Data Fields

- uint8_t callID
- uint8_t callState
- uint8_t callType
- uint8_t direction
- uint8_t mode

8.1476.1 Detailed Description

This structure contains Information about call state changes. For example, when an incoming call is received, this structure is populated and indicate the incoming call information. When this incoming call is answered, the call status changes from INCOMING to CONVERSATION, which means a change in the call information and this structure is populated again with the changes and notified to/retrived by the user.

Parameters

callID	• Call identifier for the call queried for information. • If zero(0) then invalid.
callState	• Call state. – 0x01 - CALL_STATE_ORIGINATION - Origination – 0x02 - CALL_STATE_INCOMING - Incoming – 0x03 - CALL_STATE_CONVERSATION - Conversation – 0x04 - CALL_STATE_CC_IN_PROGRESS - Call is originating but waiting for call control to complete – 0x05 - CALL_STATE_ALERTING - Alerting – 0x06 - CALL_STATE_HOLD - Hold – 0x07 - CALL_STATE_WAITING - Waiting – 0x08 - CALL_STATE_DISCONNECTING - Disconnecting – 0x09 - CALL_STATE_END - End – 0x0A - CALL_STATE_SETUP - MT call is in Setup state in 3GPP – 0xFF - Not Available
callType	• Call type. – 0x00 - CALL_TYPE_VOICE - Voice – 0x02 - CALL_TYPE_VOICE_IP - Voice over IP – 0x06 - CALL_TYPE_OTAPA - OTAPA – 0x07 - CALL_TYPE_STD_OTASP - Standard OTASP – 0x08 - CALL_TYPE_NON_STD_OTASP - Nonstandard OTASP – 0x09 - CALL_TYPE_EMERGENCY - Emergency – 0xFF - Not Available
direction	• Direction. – 0x01 - CALL_DIRECTION_MO - MO call – 0x02 - CALL_DIRECTION_MT - MT call – 0xFF - Not Available
mode	• Mode. • If the mode field is "0x01 - CDMA",the optional Service Option, Voice Privacy, and OTASP Status (only for OTASP calls) TLVs are included in the response. – 0x01 - CALL_MODE_CDMA - CDMA – 0x02 - CALL_MODE_GSM - GSM – 0x03 - CALL_MODE_UMTS - UMTS – 0x04 - CALL_MODE_LTE - LTE – 0x05 - CALL_MODE_TDS - TD-SCDMA – 0xFF - Not Available

8.1476.2 Field Documentation

8.1476.2.1 uint8_t voice_callInfo::callID

8.1476.2.2 uint8_t voice_callInfo::callState

8.1476.2.3 uint8_t voice_callInfo::callType

8.1476.2.4 uint8_t voice_callInfo::direction

8.1476.2.5 uint8_t voice_callInfo::mode

8.1477 voice_callingPartyInfo Struct Reference

Data Fields

- uint8_t PI
- uint8_t SI
- uint8_t numType
- uint8_t numPlan
- uint8_t numLen
- uint8_t number [255]

8.1477.1 Detailed Description

This structure contains Calling party Number Information

Parameters

PI	• Presentation indicator; refer to [S1, Table 2.7.4.4-1] for valid values.
SI	• Number of sets of following elements – Caller Id
SI	• Number screening indicator. • Values: – 0x00 - QMI_VOICE_SI_USER_PROVIDED_NOT_SCREENED - Provided user is not screened – 0x01 - QMI_VOICE_SI_USER_PROVIDED_VERIFIED_PASSED - Provided user passed verification – 0x02 - QMI_VOICE_SI_USER_PROVIDED_VERIFIED_FAILED - Provided user failed verification – 0x03 - QMI_VOICE_SI_NETWORK_PROVIDED - Provided network

numType	• Number type. • Values: – 0x00 - QMI_VOICE_NUM_TYPE_UNKNOWN - Unknown – 0x01 - QMI_VOICE_NUM_TYPE_INTERNATIONAL - International – 0x02 - QMI_VOICE_NUM_TYPE_NATIONAL - National – 0x03 - QMI_VOICE_NUM_TYPE_NETWORK_SPECIFIC - Network-specific – 0x04 - QMI_VOICE_NUM_TYPE_SUBSCRIBER - Subscriber – 0x05 - QMI_VOICE_NUM_TYPE_RESERVED - Reserved – 0x06 - QMI_VOICE_NUM_TYPE_ABBREVIATED - Abbreviated – 0x07 - QMI_VOICE_NUM_TYPE_RESERVED_EXTENSION - Reserved extension
numPlan	• Number plan. • Values: – 0x00 - QMI_VOICE_NUM_PLAN_UNKNOWN - Unknown – 0x01 - QMI_VOICE_NUM_PLAN_ISDN - ISDN – 0x03 - QMI_VOICE_NUM_PLAN_DATA - Data – 0x04 - QMI_VOICE_NUM_PLAN_TELEX - Telex – 0x08 - QMI_VOICE_NUM_PLAN_NATIONAL - National – 0x09 - QMI_VOICE_NUM_PLAN_PRIVATE - Private – 0x0B - QMI_VOICE_NUM_PLAN_RESERVED_CTS - Reserved cordless telephony system – 0x0F - QMI_VOICE_NUM_PLAN_RESERVED_EXTENSION - Reserved extension
numLen	• Provides the length of number which follow.
number[255]	• number of numLen length, NULL terminated.

8.1477.2 Field Documentation

8.1477.2.1 uint8_t voice_callingPartyInfo::number[255]

8.1477.2.2 uint8_t voice_callingPartyInfo::numLen

8.1477.2.3 uint8_t voice_callingPartyInfo::numPlan

8.1477.2.4 uint8_t voice_callingPartyInfo::numType

8.1477.2.5 uint8_t voice_callingPartyInfo::PI

8.1477.2.6 uint8_t voice_callingPartyInfo::SI

8.1478 voice_ccSUPSType Struct Reference

Data Fields

- uint8_t svcType

- uint8_t reason

8.1478.1 Detailed Description

This structure contains information about the Call Control Supplementary Service Types

Parameters

svcType	• Service type. – 0x01 - VOICE_CC_SUPS_RESULT_SERVICE_TYPE_ACTIVATE - Activate – 0x02 - VOICE_CC_SUPS_RESULT_SERVICE_TYPE_DEACTIVATE - Deactivate – 0x03 - VOICE_CC_SUPS_RESULT_SERVICE_TYPE_REGISTER - Register – 0x04 - VOICE_CC_SUPS_RESULT_SERVICE_TYPE_ERASE - Erase – 0x05 - VOICE_CC_SUPS_RESULT_SERVICE_TYPE_INTERROGATE - Interrogate – 0x06 - VOICE_CC_SUPS_RESULT_SERVICE_TYPE_REGISTER_PASSWORD - Register password – 0x07 - VOICE_CC_SUPS_RESULT_SERVICE_TYPE_USSD - USSD – 0xFF - Not Available
reason	• Call control supplementary service result reason • Values: – See qaGobiApiTableCallControlReturnReasons.h for return reasons.

8.1478.2 Field Documentation

8.1478.2.1 uint8_t voice_ccSUPSType::reason

8.1478.2.2 uint8_t voice_ccSUPSType::svcType

8.1479 voice_CLIPResp Struct Reference

Data Fields

- uint8_t ActiveStatus
- uint8_t ProvisionStatus

8.1479.1 Detailed Description

This structure contains information about the Calling Line Identification Presentation (CLIP) supplementary service responses.

Parameters

ActiveStatus	• Active status. • Values: – 0x00 - ACTIVE_STATUS_INACTIVE - Inactive – 0x01 - ACTIVE_STATUS_ACTIVE - Active – 0xFF - Not Available

ProvisionStatus	• Provisioned status. • Values: – 0x00 - PROVISION_STATUS_NOT_PROVISIONED - Not provisioned – 0x01 - PROVISION_STATUS_PROVISIONED - Provisioned – 0xFF - Not Available

8.1479.2 Field Documentation

8.1479.2.1 uint8_t voice_CLIPResp::ActiveStatus

8.1479.2.2 uint8_t voice_CLIPResp::ProvisionStatus

8.1480 voice_CLIRResp Struct Reference

Data Fields

- uint8_t ActiveStatus
- uint8_t ProvisionStatus

8.1480.1 Detailed Description

This structure contains information about the Calling Line Identification Restriction (CLIR) supplementary service responses.

Parameters

ActiveStatus	• Active status. • Values: – 0x00 - ACTIVE_STATUS_INACTIVE - Inactive – 0x01 - ACTIVE_STATUS_ACTIVE - Active – 0xFF - Not Available
ProvisionStatus	• Provisioned status. • Values: – 0x00 - PROVISION_STATUS_NOT_PROVISIONED - Not provisioned – 0x01 - PROVISION_STATUS_PROVISIONED_PERMANENT - Permanently provisioned – 0x02 - PROVISION_STATUS_PRESENTATION_RESTRICTED - Restricted presentation – 0x03 - PROVISION_STATUS_PRESENTATION_ALLOWED - Allowed presentation – 0xFF - Not Available

8.1480.2 Field Documentation

8.1480.2.1 uint8_t voice_CLIRResp::ActiveStatus

8.1480.2.2 uint8_t voice_CLIRResp::ProvisionStatus

8.1481 voice_CNAPResp Struct Reference

Data Fields

- uint8_t ActiveStatus
- uint8_t ProvisionStatus

8.1481.1 Detailed Description

This structure contains information about the Calling Name Presentation (CNAP) supplementary service responses.

Parameters

ActiveStatus	• Active status. • Values: – 0x00 - ACTIVE_STATUS_INACTIVE - Inactive – 0x01 - ACTIVE_STATUS_ACTIVE - Active – 0xFF - Not Available
ProvisionStatus	• Provisioned status. • Values: – 0x00 - PROVISION_STATUS_NOT_PROVISIONED - Not provisioned – 0x01 - PROVISION_STATUS_PROVISIONED - Provisioned – 0xFF - Not Available

8.1481.2 Field Documentation

8.1481.2.1 uint8_t voice_CNAPResp::ActiveStatus

8.1481.2.2 uint8_t voice_CNAPResp::ProvisionStatus

8.1482 voice_COLPResp Struct Reference

Data Fields

- uint8_t ActiveStatus
- uint8_t ProvisionStatus

8.1482.1 Detailed Description

This structure contains information about the Connected Line Identification Presentation (COLP) supplementary service responses.

Parameters

ActiveStatus	• Active status. • Values: – 0x00 - ACTIVE_STATUS_INACTIVE - Inactive – 0x01 - ACTIVE_STATUS_ACTIVE - Active – 0xFF - Not Available
ProvisionStatus	• Provisioned status. • Values: – 0x00 - PROVISION_STATUS_NOT_PROVISIONED - Not provisioned – 0x01 - PROVISION_STATUS_PROVISIONED - Provisioned – 0xFF - Not Available

8.1482.2 Field Documentation

8.1482.2.1 uint8_t voice_COLPResp::ActiveStatus

8.1482.2.2 uint8_t voice_COLPResp::ProvisionStatus

8.1483 voice_COLRResp Struct Reference

Data Fields

- uint8_t ActiveStatus
- uint8_t ProvisionStatus

8.1483.1 Detailed Description

This structure contains information about the Connected Line Identification Restriction (COLR) supplementary service responses.

Parameters

ActiveStatus	• Active status. • Values: – 0x00 - ACTIVE_STATUS_INACTIVE - Inactive – 0x01 - ACTIVE_STATUS_ACTIVE - Active – 0xFF - Not Available
ProvisionStatus	• Provisioned status. • Values: – 0x00 - PROVISION_STATUS_NOT_PROVISIONED - Not provisioned – 0x01 - PROVISION_STATUS_PROVISIONED - Provisioned – 0xFF - Not Available

8.1483.2 Field Documentation

8.1483.2.1 uint8_t voice_COLRResp::ActiveStatus

8.1483.2.2 uint8_t voice_COLRResp::ProvisionStatus

8.1484 voice_connectNumInfo Struct Reference

Data Fields

- uint8_t numPresInd
- uint8_t screeningInd
- uint8_t numType
- uint8_t numPlan
- uint8_t callerIDLen
- uint8_t callerID [81]

8.1484.1 Detailed Description

This structure contains information about the numbers connected to a device. It contains information such as number type, eg International or Local.

Parameters

numPresInd	• Presentation indicator – 0x00 - PRESENTATION_ALLOWED - Allowed presentation – 0x01 - PRESENTATION_RESTRICTED - Restricted presentation – 0x02 - PRESENTATION_NUM_UNAVAILABLE - Unavailable presentation – 0x04 - PRESENTATION_PAYPHONE - Payphone presentation (GSM/UMTS specific) – 0xFF - Not Available
screeningInd	• Screening indicator. – 0x00 - QMI_VOICE_SI_USER_PROVIDED_NOT_SCREENED - Provided user is not screened – 0x01 - QMI_VOICE_SI_USER_PROVIDED_VERIFIED_PASSED - Provided user passed verification – 0x02 - QMI_VOICE_SI_USER_PROVIDED_VERIFIED_FAILED - Provided user failed verification – 0x03 - QMI_VOICE_SI_NETWORK_PROVIDED - Provided network – 0xFF - Not Available

numType	• Number type. – 0x00 - QMI_VOICE_NUM_TYPE_UNKNOWN - Unknown – 0x01 - QMI_VOICE_NUM_TYPE_INTERNATIONAL - International – 0x02 - QMI_VOICE_NUM_TYPE_NATIONAL - National – 0x03 - QMI_VOICE_NUM_TYPE_NETWORK_SPECIFIC - Network-specific – 0x04 - QMI_VOICE_NUM_TYPE_SUBSCRIBER - Subscriber – 0x05 - QMI_VOICE_NUM_TYPE_RESERVED - Reserved – 0x06 - QMI_VOICE_NUM_TYPE_ABBREVIATED - Abbreviated – 0x07 - QMI_VOICE_NUM_TYPE_RESERVED_EXTENSION - Reserved extension – 0xFF - Not Available
numPlan	• Number plan. – 0x00 - QMI_VOICE_NUM_PLAN_UNKNOWN - Unknown – 0x01 - QMI_VOICE_NUM_PLAN_ISDN - ISDN – 0x03 - QMI_VOICE_NUM_PLAN_DATA - Data – 0x04 - QMI_VOICE_NUM_PLAN_TELEX - Telex – 0x08 - QMI_VOICE_NUM_PLAN_NATIONAL - National – 0x09 - QMI_VOICE_NUM_PLAN_PRIVATE - Private – 0x0B - QMI_VOICE_NUM_PLAN_RESERVED_CTS - Reserved cordless telephony system – 0x0F - QMI_VOICE_NUM_PLAN_RESERVED_EXTENSION - Reserved extension – 0xFF - Not Available
callerIDLen	• Provides the length of caller ID which follow. • If zero(0) then no further information exists.
callerID[MAX_VOICE_CALL_NO_LEN]	• callerID of numLen length, NULL terminated.

8.1484.2 Field Documentation

8.1484.2.1 uint8_t voice_connectNumInfo::callerID[81]

8.1484.2.2 uint8_t voice_connectNumInfo::callerIDLen

8.1484.2.3 uint8_t voice_connectNumInfo::numPlan

8.1484.2.4 uint8_t voice_connectNumInfo::numPresInd

8.1484.2.5 uint8_t voice_connectNumInfo::numType

8.1484.2.6 uint8_t voice_connectNumInfo::screeningInd

8.1485 voice_CUGInfo Struct Reference

Data Fields

- uint16_t CUGIndex
- uint8_t SuppPrefCUG
- uint8_t SuppOA

8.1485.1 Detailed Description

This structure contains Closed User Group Information

Parameters

CUGIndex	• Range 0x00... 0x7FFF
SuppPrefCUG	• Suppress preferential CUG – 0x00 - FALSE – 0x01 - TRUE
SuppOA	• Suppress OA subscription option – 0x00 - FALSE – 0x01 - TRUE

8.1485.2 Field Documentation

8.1485.2.1 uint16_t voice_CUGInfo::CUGIndex

8.1485.2.2 uint8_t voice_CUGInfo::SuppOA

8.1485.2.3 uint8_t voice_CUGInfo::SuppPrefCUG

8.1486 voice_curAMRConfig Struct Reference

Data Fields

- uint8_t gsmAmrStat
- uint8_t wcdmaAmrStat

8.1486.1 Detailed Description

This structure contains the Current Adaptive Multi Rate Configuration Information.

Parameters

gsmAmrStat	• GSM AMR Status – 0x00 - Disable – 0x01 - Enable – 0xFF - Not Available

wcdmaAmrStat	• WCDMA AMR Status • One or a combination of the following bitmask values: – Bit 0 - AMR codec advertised is not supported – Bit 1 - Controls WCDMA AMR wideband – Bit 2 - Controls GSM half rate AMR – Bit 3 - Controls GSM AMR wideband – Bit 4 - Controls GSM AMR narrowband • 0xFF, if not available

8.1486.2 Field Documentation

8.1486.2.1 uint8_t voice_curAMRConfig::gsmAmrStat

8.1486.2.2 uint8_t voice_curAMRConfig::wcdmaAmrStat

8.1487 voice_diagInfo Struct Reference

Data Fields

- uint8_t diagInfoLen
- uint8_t diagnosticInfo [255]

8.1487.1 Detailed Description

This structure contains Diagnostic Information

Parameters

diagInfoLen	• Provides the length of information which follow. • If zero(0) then no further information exists.
diagnosticInfo[MAX_VOICE_DESCRIPTION_LENGTH]	• Diagnostic information.

8.1487.2 Field Documentation

8.1487.2.1 uint8_t voice_diagInfo::diagInfoLen

8.1487.2.2 uint8_t voice_diagInfo::diagnosticInfo[255]

8.1488 voice_DTMFInfo Struct Reference

Data Fields

- uint8_t callID
- uint8_t DTMFEvent

- uint8_t digitCnt
- uint8_t digitBuff [255]

8.1488.1 Detailed Description

This structure contains information about the DTMF (Dual Tone Multi-Frequency).

Parameters

callID	• Call identifier for the current call.
DTMFEvent	• DTMF event – 0x00 - DTMF_EVENT_REV_BURST - Sends a CDMA-burst DTMF – 0x01 - DTMF_EVENT_REV_START_CONT - Starts a continuous DTMF tone – 0x03 - DTMF_EVENT_REV_STOP_CONT - Stops a continuous DTMF tone – 0x05 - DTMF_EVENT_FWD_BURST - Received a CDMA-burst DTMF message – 0x06 - DTMF_EVENT_FWD_START_CONT - Received a start-continuous DTMF tone order – 0x07 - DTMF_EVENT_FWD_STOP_CONT - Received a stop-continuous DTMF tone order
digitCnt	• Number of set of following element i.e. digitBuff.
digitBuff[MAX_VOICE_DESCRIPTION_LENGTH]	• DTMF digit buffer in ASCII string which is NULL terminated

8.1488.2 Field Documentation

8.1488.2.1 uint8_t voice_DTMFInfo::callID

8.1488.2.2 uint8_t voice_DTMFInfo::digitBuff[255]

8.1488.2.3 uint8_t voice_DTMFInfo::digitCnt

8.1488.2.4 uint8_t voice_DTMFInfo::DTMFEvent

8.1489 voice_DTMFLengths Struct Reference

Data Fields

- uint8_t DTMFPulseWidth
- uint8_t DTMFInterdigitInterval

8.1489.1 Detailed Description

This structure contains Voice Burst DTMF pulse length information

Parameters

DTMFPulse-Width	• DTMF pulse width. Values: – 0x00 - DTMF_ONLENGTH_95MS - 95 ms – 0x01 - DTMF_ONLENGTH_150MS - 150 ms – 0x02 - DTMF_ONLENGTH_200MS - 200 ms – 0x03 - DTMF_ONLENGTH_250MS - 250 ms – 0x04 - DTMF_ONLENGTH_300MS - 300 ms – 0x05 - DTMF_ONLENGTH_350MS - 350 ms – 0x06 - DTMF_ONLENGTH_SMS SMS Tx special pulse width
DTMFInterdigit-Interval	• DTMF interdigit interval Values: – 0x00 - DTMF_OFFLENGTH_60MS - 60 ms – 0x01 - DTMF_OFFLENGTH_100MS - 100 ms – 0x02 - DTMF_OFFLENGTH_150MS - 150 ms – 0x03 - DTMF_OFFLENGTH_200MS - 200 ms

8.1489.2 Field Documentation

8.1489.2.1 uint8_t voice_DTMFLengths::DTMFInterdigitInterval

8.1489.2.2 uint8_t voice_DTMFLengths::DTMFPulseWidth

8.1490 voice_ECTNum Struct Reference

Data Fields

- uint8_t ECTCallState
- uint8_t presentationInd
- uint8_t number [81]

8.1490.1 Detailed Description

Contains the parameters passed for Explicit Communication Transfer by the device.

Parameters

ECTCallState	• ECT call state: – 0x00 - ECT_CALL_STATE_NONE - None – 0x01 - ECT_CALL_STATE_ALERTING - Alerting – 0x02 - ECT_CALL_STATE_ACTIVE - Active
presentationInd	• Presentation indicator – 0x00 - presentationAllowedAddress – 0x01 - presentationRestricted – 0x02 - numberNotAvailable – 0x04 - presentationRestrictedAddress

number	• Number in ASCII characters terminated by NULL

8.1490.2 Field Documentation

8.1490.2.1 uint8_t voice_ECTNum::ECTCallState

8.1490.2.2 uint8_t voice_ECTNum::number[81]

8.1490.2.3 uint8_t voice_ECTNum::presentationInd

8.1491 voice_extDispRecInfo Struct Reference

Data Fields

- uint8_t dispType
- uint8_t extDispInfoLen
- uint8_t extDispInfo [255]

8.1491.1 Detailed Description

This structure contains Line Control Information

Parameters

dispType	• Values are per [S1, Table 3.7.5.16-1].
extDispInfoLen	• Number of sets of the following elements: – ext_display_info
extDispInfo	• Extended display information buffer containing the display record; refer to [S1, Section 3.7.5.16] for the format information of the buffer contents.

8.1491.2 Field Documentation

8.1491.2.1 uint8_t voice_extDispRecInfo::dispType

8.1491.2.2 uint8_t voice_extDispRecInfo::extDispInfo[255]

8.1491.2.3 uint8_t voice_extDispRecInfo::extDispInfoLen

8.1492 voice_getAllCallInformation Struct Reference

Data Fields

- voice_callInfo CallInfo
- uint8_t isEmpty

- uint8_t ALS

8.1492.1 Detailed Description

This structure contains information related to call state change.

Parameters

CallInfo	• See voice_callInfo for more information.
isEmpty	• Multiparty indicator. – 0x00 - False – 0x01 - True
ALS	• Alternate Line Service line indicator. • Feature for supporting two different phone numbers on the same mobile device. – 0x00 - ALS_LINE1 - Line 1 (default) – 0x01 - ALS_LINE2 - Line 2

8.1492.2 Field Documentation

8.1492.2.1 uint8_t voice_getAllCallInformation::ALS

8.1492.2.2 voice_callInfo voice_getAllCallInformation::CallInfo

8.1492.2.3 uint8_t voice_getAllCallInformation::isEmpty

8.1493 voice_getAllCallRmtPtyName Struct Reference

Data Fields

- uint8_t callID
- voice_remotePartyName RemotePartyName

8.1493.1 Detailed Description

This structure contains information for All Call Remote Party Names

Parameters

callID	• Unique call identifier for the call.
RemoteParty-Name	• See voice_remotePartyName for more information.

8.1493.2 Field Documentation

8.1493.2.1 uint8_t voice_getAllCallRmtPtyName::callID

8.1493.2.2 voice_remotePartyName voice_getAllCallRmtPtyName::RemotePartyName

8.1494 voice_getAllCallRmtPtyNum Struct Reference

Data Fields

- uint8_t callID
- voice_remotePartyNum RemotePartyNum

8.1494.1 Detailed Description

This structure contains information for All Call Remote Party Numbers

Parameters

callID	• Unique call identifier for the call.
RemoteParty-Num	• See voice_remotePartyNum for more information.

8.1494.2 Field Documentation

8.1494.2.1 uint8_t voice_getAllCallRmtPtyNum::callID

8.1494.2.2 voice_remotePartyNum voice_getAllCallRmtPtyNum::RemotePartyNum

8.1495 voice_getCallFWExtInfo Struct Reference

Data Fields

- uint8_t numInstances
- voice_callFWExtInfo CallFWExtInfo [20]

8.1495.1 Detailed Description

This structure contains an array of Call Forwarded Extended Information.

Parameters

numInstances	• Number of callFWExtInfo that follow. • If zero(0) then no further information exists.
CallFWExtInfo[-VOICE_MAX_N-O_OF_CALLS]	• Array of CallFWExtInfo. – See voice_callFWExtInfo for more information.

8.1495.2 Field Documentation

8.1495.2.1 voice_callFWExtInfo voice_getCallFWExtInfo::CallFWExtInfo[20]

8.1495.2.2 uint8_t voice_getCallFWExtInfo::numInstances

8.1496 voice_getCallFWInfo Struct Reference

Data Fields

- uint8_t numInstances
- voice_callFWInfo CallFWInfo [20]

8.1496.1 Detailed Description

This structure contains an array of Call Forwarded Information.

Parameters

numInstances	• Number of callFWInfo that follow. • If zero(0) then no further information exists.
CallFWInfo[VOICE_MAX_NO_OF_CALLS]	• Array of callFWInfo. – See voice_callFWInfo for more information.

8.1496.2 Field Documentation

8.1496.2.1 voice_callFWInfo voice_getCallFWInfo::CallFWInfo[20]

8.1496.2.2 uint8_t voice_getCallFWInfo::numInstances

8.1497 voice_lineCtrlInfo Struct Reference

Data Fields

- uint8_t polarityIncluded
- uint8_t toggleMode
- uint8_t revPolarity
- uint8_t pwrDenialTime

8.1497.1 Detailed Description

This structure contains Line Control Information

Parameters

polarityIncluded	• Included Polarity; Boolean Value

toggleMode	• Toggle mode; Boolean Value
revPolarity	• Reverse Polarity; Boolean Value
pwrDenialTime	• Power denial time; refer to [S1, Section 3.7.5.15 Line Control] for valid values

8.1497.2 Field Documentation

8.1497.2.1 uint8_t voice_lineCtrlInfo::polarityIncluded

8.1497.2.2 uint8_t voice_lineCtrlInfo::pwrDenialTime

8.1497.2.3 uint8_t voice_lineCtrlInfo::revPolarity

8.1497.2.4 uint8_t voice_lineCtrlInfo::toggleMode

8.1498 voice_newPwdData Struct Reference

Data Fields

- uint8_t newPwd [4]
- uint8_t newPwdAgain [4]

8.1498.1 Detailed Description

This structure contains New Password Data.

Parameters

newPwd[BARRING_PASSWORD_LENGTH]	• New password. – Password consists of 4 ASCII digits. – Range: 0000 to 9999.
newPwdAgain[BARRING_PASSWORD_LENGTH]	• New password again. – Password consists of 4 ASCII digits. – Range: 0000 to 9999.

8.1498.2 Field Documentation

8.1498.2.1 uint8_t voice_newPwdData::newPwd[4]

8.1498.2.2 uint8_t voice_newPwdData::newPwdAgain[4]

8.1499 voice_NSSAudioCtrl Struct Reference

Data Fields

- uint8_t upLink
- uint8_t downLink

8.1499.1 Detailed Description

This structure contains National Supplementary Services - Audio Control Information

Parameters

upLink	• Values as per[S24, 4.10 Reservation response].
downLink	• Values as per[S24, 4.10 Reservation response].

8.1499.2 Field Documentation

8.1499.2.1 uint8_t voice_NSSAudioCtrl::downLink

8.1499.2.2 uint8_t voice_NSSAudioCtrl::upLink

8.1500 voice_peerNumberInfo Struct Reference

Data Fields

- uint8_t callID
- uint8_t numPI
- uint8_t numSI
- uint8_t numType
- uint8_t numPlan
- uint8_t numLen
- uint8_t number [81]

8.1500.1 Detailed Description

This structure contains information for Connected Peer Numbers.

Parameters

callID	• Unique call identifier for the call.
numPI	• Number presentation indicator. – 0x00 - PRESENTATION_ALLOWED - Allowed presentation – 0x01 - PRESENTATION_RESTRICTED - Restricted presentation – 0x02 - PRESENTATION_NUM_UNAVAILABLE - Unavailable presentation – 0x04 - PRESENTATION_PAYPHONE - Payphone presentation (GSM/UMTS specific) – 0xFF - Not Available
numSI	• Number screening indicator. – 0x00 - QMI_VOICE_SI_USER_PROVIDED_NOT_SCREENED - Provided user is not screened – 0x01 - QMI_VOICE_SI_USER_PROVIDED_VERIFIED_PASSED - Provided user passed verification – 0x02 - QMI_VOICE_SI_USER_PROVIDED_VERIFIED_FAILED - Provided user failed verification – 0x03 - QMI_VOICE_SI_NETWORK_PROVIDED - Provided network
numType	• Number type. – 0x00 - QMI_VOICE_NUM_TYPE_UNKNOWN - Unknown – 0x01 - QMI_VOICE_NUM_TYPE_INTERNATIONAL - International – 0x02 - QMI_VOICE_NUM_TYPE_NATIONAL - National – 0x03 - QMI_VOICE_NUM_TYPE_NETWORK_SPECIFIC - Network-specific – 0x04 - QMI_VOICE_NUM_TYPE_SUBSCRIBER - Subscriber – 0x05 - QMI_VOICE_NUM_TYPE_RESERVED - Reserved – 0x06 - QMI_VOICE_NUM_TYPE_ABBREVIATED - Abbreviated – 0x07 - QMI_VOICE_NUM_TYPE_RESERVED_EXTENSION - Reserved extension
numPlan	• Number plan. – 0x00 - QMI_VOICE_NUM_PLAN_UNKNOWN - Unknown – 0x01 - QMI_VOICE_NUM_PLAN_ISDN - ISDN – 0x03 - QMI_VOICE_NUM_PLAN_DATA - Data – 0x04 - QMI_VOICE_NUM_PLAN_TELEX - Telex – 0x08 - QMI_VOICE_NUM_PLAN_NATIONAL - National – 0x09 - QMI_VOICE_NUM_PLAN_PRIVATE - Private – 0x0B - QMI_VOICE_NUM_PLAN_RESERVED_CTS - Reserved cordless telephony system – 0x0F - QMI_VOICE_NUM_PLAN_RESERVED_EXTENSION - Reserved extension
numLen	• Provides the length of number which follow.
number[MAX_VOICE_CALL_NO_LEN]	• number of numLen length, NULL terminated.

8.1500.2 Field Documentation

8.1500.2.1 uint8_t voice_peerNumberInfo::callID

8.1500.2.2 uint8_t voice_peerNumberInfo::number[81]

8.1500.2.3 uint8_t voice_peerNumberInfo::numLen

8.1500.2.4 uint8_t voice_peerNumberInfo::numPI

8.1500.2.5 uint8_t voice_peerNumberInfo::numPlan

8.1500.2.6 uint8_t voice_peerNumberInfo::numSI

8.1500.2.7 uint8_t voice_peerNumberInfo::numType

8.1501 voice_prefVoiceSO Struct Reference

Data Fields

- uint8_t namID
- uint8_t evrcCapability
- uint16_t homePageVoiceSO
- uint16_t homeOrigVoiceSO
- uint16_t roamOrigVoiceSO

8.1501.1 Detailed Description

This structure contains information about the Preferred Voice Service Options.

Parameters

namID	• Index of the NAM(Number Assignment Module) to be configured. • Range 0 to 3. • Some modems support only 1 or 2 NAMs. • 0xFF,if not available.
evrcCapability	• EVRC capability. • Values: – 0x00 - Disable – 0x01 - Enable – 0xFF - Not Available

homePageVoiceSO	• Home page voice SO; most preferred CDMA SO to be requested from the network when receiving an incoming (MT) voice call within the home network. • Values: – 0x0000 - VOICE_SO_WILD - Any service option – 0x0001 - VOICE_SO_IS_96A - IS-96A – 0x0003 - VOICE_SO_EVRC - EVRC – 0x0011 - VOICE_SO_13K_IS733 - 13K_IS733 – 0x0038 - VOICE_SO_SELECTABLE_MODE_VOCODER - Selectable mode vocoder – 0x0044 - VOICE_SO_4GV_NARR0W_BAND - 4GV narrowband – 0x0046 - VOICE_SO_4GV_WIDE_BAND - 4GV wideband – 0x8000 - VOICE_SO_13K - 13K – 0x8001 - VOICE_SO_IS_96 - IS-96 – 0x8023 - VOICE_SO_WVRC - WVRC – 0xFFFF - Not Available
homeOrigVoiceSO	• Home origination voice SO; most preferred CDMA SO to be requested from the network when receiving an incoming (MT) voice call within the home network. • Values: – 0x0000 - VOICE_SO_WILD - Any service option – 0x0001 - VOICE_SO_IS_96A - IS-96A – 0x0003 - VOICE_SO_EVRC - EVRC – 0x0011 - VOICE_SO_13K_IS733 - 13K_IS733 – 0x0038 - VOICE_SO_SELECTABLE_MODE_VOCODER - Selectable mode vocoder – 0x0044 - VOICE_SO_4GV_NARR0W_BAND - 4GV narrowband – 0x0046 - VOICE_SO_4GV_WIDE_BAND - 4GV wideband – 0x8000 - VOICE_SO_13K - 13K – 0x8001 - VOICE_SO_IS_96 - IS-96 – 0x8023 - VOICE_SO_WVRC - WVRC – 0xFFFF - Not Available
roamOrigVoiceSO	• Roaming origination voice SO; most preferred CDMA SO to be requested from the network when receiving an incoming (MT) voice call within the home network. • Values: – 0x0000 - VOICE_SO_WILD - Any service option – 0x0001 - VOICE_SO_IS_96A - IS-96A – 0x0003 - VOICE_SO_EVRC - EVRC – 0x0011 - VOICE_SO_13K_IS733 - 13K_IS733 – 0x0038 - VOICE_SO_SELECTABLE_MODE_VOCODER - Selectable mode vocoder – 0x0044 - VOICE_SO_4GV_NARR0W_BAND - 4GV narrowband – 0x0046 - VOICE_SO_4GV_WIDE_BAND - 4GV wideband – 0x8000 - VOICE_SO_13K - 13K – 0x8001 - VOICE_SO_IS_96 - IS-96 – 0x8023 - VOICE_SO_WVRC - WVRC – 0xFFFF - Not Available

8.1501.2 Field Documentation

8.1501.2.1 uint8_t voice_prefVoiceSO::evrcCapability

8.1501.2.2 uint16_t voice_prefVoiceSO::homeOrigVoiceSO

8.1501.2.3 uint16_t voice_prefVoiceSO::homePageVoiceSO

8.1501.2.4 uint8_t voice_prefVoiceSO::namID

8.1501.2.5 uint16_t voice_prefVoiceSO::roamOrigVoiceSO

8.1502 voice_redirNumInfo Struct Reference

Data Fields

- uint8_t PI
- uint8_t SI
- uint8_t numType
- uint8_t numPlan
- uint8_t reason
- uint8_t numLen
- uint8_t number [255]

8.1502.1 Detailed Description

This structure contains Redirecting Number Information

Parameters

PI	• Presentation indicator; refer to [S1, Table 2.7.4.4-1] for valid values.
SI	• Number of sets of following elements – Caller Id
SI	• Number screening indicator. • Values: – 0x00 - QMI_VOICE_SI_USER_PROVIDED_NOT_SCREENED - Provided user is not screened – 0x01 - QMI_VOICE_SI_USER_PROVIDED_VERIFIED_PASSED - Provided user passed verification – 0x02 - QMI_VOICE_SI_USER_PROVIDED_VERIFIED_FAILED - Provided user failed verification – 0x03 - QMI_VOICE_SI_NETWORK_PROVIDED - Provided network

numType	• Number type. • Values: – 0x00 - QMI_VOICE_NUM_TYPE_UNKNOWN - Unknown – 0x01 - QMI_VOICE_NUM_TYPE_INTERNATIONAL - International – 0x02 - QMI_VOICE_NUM_TYPE_NATIONAL - National – 0x03 - QMI_VOICE_NUM_TYPE_NETWORK_SPECIFIC - Network-specific – 0x04 - QMI_VOICE_NUM_TYPE_SUBSCRIBER - Subscriber – 0x05 - QMI_VOICE_NUM_TYPE_RESERVED - Reserved – 0x06 - QMI_VOICE_NUM_TYPE_ABBREVIATED - Abbreviated – 0x07 - QMI_VOICE_NUM_TYPE_RESERVED_EXTENSION - Reserved extension
numPlan	• Number plan. • Values: – 0x00 - QMI_VOICE_NUM_PLAN_UNKNOWN - Unknown – 0x01 - QMI_VOICE_NUM_PLAN_ISDN - ISDN – 0x03 - QMI_VOICE_NUM_PLAN_DATA - Data – 0x04 - QMI_VOICE_NUM_PLAN_TELEX - Telex – 0x08 - QMI_VOICE_NUM_PLAN_NATIONAL - National – 0x09 - QMI_VOICE_NUM_PLAN_PRIVATE - Private – 0x0B - QMI_VOICE_NUM_PLAN_RESERVED_CTS - Reserved cordless telephony system – 0x0F - QMI_VOICE_NUM_PLAN_RESERVED_EXTENSION - Reserved extension
reason	-Redirecting reason; refer to [S1, Table 3.7.5.11-1] for valid values
numLen	• Provides the length of number which follow.
number[255]	• number of numLen length, NULL terminated.

8.1502.2 Field Documentation

8.1502.2.1 uint8_t voice_redirNumInfo::number[255]

8.1502.2.2 uint8_t voice_redirNumInfo::numLen

8.1502.2.3 uint8_t voice_redirNumInfo::numPlan

8.1502.2.4 uint8_t voice_redirNumInfo::numType

8.1502.2.5 uint8_t voice_redirNumInfo::PI

8.1502.2.6 uint8_t voice_redirNumInfo::reason

8.1502.2.7 uint8_t voice_redirNumInfo::SI

8.1503 voice_remotePartyName Struct Reference

Data Fields

- uint8_t namePI
- uint8_t codingScheme
- uint8_t nameLen
- uint8_t callerName [255]

8.1503.1 Detailed Description

This structure contains information about the names that are dialed from the device or from which a call is received on the device.

Parameters

namePI	• Name presentation indicator. – 0x00 - PRESENTATION_NAME_PRESENTATION_ALLOWED - Allowed presentation – 0x01 - PRESENTATION_NAME_PRESENTATION_RESTRICTED - Restricted presentation – 0x02 - PRESENTATION_NAME_UNAVAILABLE - Unavailable presentation – 0x03 - PRESENTATION_NAME_NAME_PRESENTATION_RESTRICTED - Restricted name presentation – 0xFF - Not Available
codingScheme	• Refer to Table10 qaGobiApiTableCodingScheme.h for coding schemes • 0xFF - Not Available
nameLen	• Provides the length of name which follow. • If zero(0) then no further information exists.
callerName[MAX_VOICE_DESCRIPTION_LENGTH]	• Name in ASCII, NULL ending.

8.1503.2 Field Documentation

8.1503.2.1 uint8_t voice_remotePartyName::callerName[255]

8.1503.2.2 uint8_t voice_remotePartyName::codingScheme

8.1503.2.3 uint8_t voice_remotePartyName::nameLen

8.1503.2.4 uint8_t voice_remotePartyName::namePI

8.1504 voice_remotePartyNum Struct Reference

Data Fields

- uint8_t presentationInd
- uint8_t numLen
- uint8_t remPartyNumber [81]

8.1504.1 Detailed Description

This structure contains information about the numbers that are dialed from the device or from which a call is received on the device.

Parameters

presentationInd	• Presentation indicator. – 0x00 - PRESENTATION_ALLOWED - Allowed presentation – 0x01 - PRESENTATION_RESTRICTED - Restricted presentation – 0x02 - PRESENTATION_NUM_UNAVAILABLE - Unavailable presentation – 0x04 - PRESENTATION_PAYPHONE - Payphone presentation (GSM/UMTS specific) – 0xFF - Not Available
numLen	• Provides the length of number which follow. • If zero(0) then no further information exists.
remPartyNumber[MAX_CALL_NO_LEN]	• Array of numbers in ASCII, NULL ending.

8.1504.2 Field Documentation

8.1504.2.1 uint8_t voice_remotePartyNum::numLen

8.1504.2.2 uint8_t voice_remotePartyNum::presentationInd

8.1504.2.3 uint8_t voice_remotePartyNum::remPartyNumber[81]

8.1505 voice_roamTimer Struct Reference

Data Fields

- uint8_t namID
- uint32_t roamTimerValue

8.1505.1 Detailed Description

This structure contains information about the Roam Timer.

Parameters

namID	• Index of the NAM(Number Assignment Module) to be configured. • Range 0 to 3. • Some modems support only 1 or 2 NAMs. • 0xFF,if not available.
roamTimerValue	• Time in minutes. • Cumulative air time is slammed. • 0xFFFFFFFF,if not available.

8.1505.2 Field Documentation

8.1505.2.1 uint8_t voice_roamTimer::namID

8.1505.2.2 uint32_t voice_roamTimer::roamTimerValue

8.1506 voice_signalInfo Struct Reference

Data Fields

- uint8_t signalType
- uint8_t alertPitch
- uint8_t signal

8.1506.1 Detailed Description

This structure contains Signal Information

Parameters

signalType	• Call identifier for the call.
alertPitch	• Signal Information
signal	• Caller ID Information

8.1506.2 Field Documentation

8.1506.2.1 uint8_t voice_signalInfo::alertPitch

8.1506.2.2 uint8_t voice_signalInfo::signal

8.1506.2.3 uint8_t voice_signalInfo::signalType

8.1507 voice_SUPSInfo Struct Reference

Data Fields

- uint8_t svcType
- uint8_t isModByCC

8.1507.1 Detailed Description

This structure contains information about the Supplementary Services.

Parameters

svcType	• Service type. – 0x01 - SERVICE_TYPE_ACTIVATE - Activate – 0x02 - SERVICE_TYPE_DEACTIVATE - Deactivate – 0x03 - SERVICE_TYPE_REGISTER - Register – 0x04 - SERVICE_TYPE_ERASE - Erase – 0x05 - SERVICE_TYPE_INTERROGATE - Interrogate – 0x06 - SERVICE_TYPE_REGISTER_PASSWORD - Register password – 0x07 - SERVICE_TYPE_USSD - USSD
isModByCC	• Indicates whether the supplementary service data is modified by the card (SIM/USIM) as part of the call control: – 0 - False – 1 - True

8.1507.2 Field Documentation

8.1507.2.1 uint8_t voice_SUPSInfo::isModByCC

8.1507.2.2 uint8_t voice_SUPSInfo::svcType

8.1508 voice_USSDNotificationNetworkInfo Struct Reference

Data Fields

- uint8_t tlvPresent
- struct voice_USSInfo networkInfo

8.1508.1 Detailed Description

Structure for storing the USS info present in USSDNotification callback.

Parameters

tlvPresent	Values: • 0 - Not present • 1 - Tlv is present

NetworkInfo	• USS Data from Network (See structure voice_USSInfo) • NULL pointer - Invalid data.

8.1508.2 Field Documentation

8.1508.2.1 struct voice_USSInfo voice_USSDNotificationNetworkInfo::networkInfo

8.1508.2.2 uint8_t voice_USSDNotificationNetworkInfo::tlvPresent

8.1509 voice_USSInfo Struct Reference

Data Fields

- uint8_t ussDCS
- uint8_t ussLen
- uint8_t ussData [182]

8.1509.1 Detailed Description

This structure contains USS Information

Parameters

ussDCS	• 1 - ASCII coding scheme • 2 - 8-BIT coding scheme • 3 - UCS2
ussLen	• Range 1 to 182
ussData	• Data encoded as per the DCS

8.1509.2 Field Documentation

8.1509.2.1 uint8_t voice_USSInfo::ussData[182]

8.1509.2.2 uint8_t voice_USSInfo::ussDCS

8.1509.2.3 uint8_t voice_USSInfo::ussLen

8.1510 voice_UUSInfo Struct Reference

Data Fields

- uint8_t UUSType
- uint8_t UUSDcs

- uint8_t UUSDatalen
- uint8_t UUSData [255]

8.1510.1 Detailed Description

This structure contains User to User Signaling Service Information.

Parameters

UUSType	• UUS type values are: – 0x00 - UUS_DATA – 0x01 - UUS_TYPE1_IMPLICIT – 0x02 - UUS_TYPE1_REQUIRED – 0x03 - UUS_TYPE1_NOT_REQUIRED – 0x04 - UUS_TYPE2_REQUIRED – 0x05 - UUS_TYPE2_NOT_REQUIRED – 0x06 - UUS_TYPE3_REQUIRED – 0x07 - UUS_TYPE3_NOT_REQUIRED – 0xFF - Not Available
UUSDcs	• UUS data coding scheme values are: – 0x01 - UUS_DCS_USP – 0x02 - UUS_DCS_OHLP – 0x03 - UUS_DCS_X244 – 0x04 - UUS_DCS_SMCF – 0x05 - UUS_DCS_IA5 – 0x06 - UUS_DCS_RV12RD – 0x07 - UUS_DCS_Q931UNCCM – 0xFF - Not Available
UUSDatalen	• Number of sets of the following elements. – UUSData • If zero(0) then no further information exists.
UUSData[MAX_VOICE_DESCRIPTION_LENGTH]	• UUS data encoded as per coding scheme

8.1510.2 Field Documentation

8.1510.2.1 uint8_t voice_UUSInfo::UUSData[255]

8.1510.2.2 uint8_t voice_UUSInfo::UUSDatalen

8.1510.2.3 uint8_t voice_UUSInfo::UUSDcs

8.1510.2.4 uint8_t voice_UUSInfo::UUSType

8.1511 voiceALSSelectLineInfo Struct Reference

Data Fields

- BYTE lineValue

8.1511.1 Detailed Description

This structure contains ALS Select Line Information Parameters.

Parameters

lineValue	• ALS Line Value. – 0x00 - ALS_LINE1 - Line 1 (default) – 0x01 - ALS_LINE2 - Line 2

8.1511.2 Field Documentation

8.1511.2.1 BYTE voiceALSSelectLineInfo::lineValue

8.1512 voiceALSSetLineSwitchInfo Struct Reference

Data Fields

- BYTE switchOption

8.1512.1 Detailed Description

This structure contains ALS Set Line Switching Information Parameters.

Parameters

switchOption	• Switch Option. – 0x00 - VOICE_LINE_SWITCHING_NOT_ALLOWED - Line switching is not allowed – 0x01 - VOICE_LINE_SWITCHING_ALLOWED - Line switching is allowed

8.1512.2 Field Documentation

8.1512.2.1 BYTE voiceALSSetLineSwitchInfo::switchOption

8.1513 voiceAnswerCall Struct Reference

Data Fields

- BYTE * pCallId

8.1513.1 Detailed Description

Contains the parameters passed for SLQSVoiceAnswerCall.

Parameters

pCallId[IN/OUT]	• Unique call identifier for the call that must be answered.

8.1513.2 Field Documentation

8.1513.2.1 BYTE* voiceAnswerCall::pCallId

8.1514 voiceBindSubscriptionInfo Struct Reference

Data Fields

- BYTE subsType

8.1514.1 Detailed Description

This structure contains Bind Subscription Information Parameters.

Parameters

subsType	• Subscription Type. – 0x00 - VOICE_SUBS_TYPE_PRIMARY - Primary – 0x01 - VOICE_SUBS_TYPE_SECONDARY - Secondary

8.1514.2 Field Documentation

8.1514.2.1 BYTE voiceBindSubscriptionInfo::subsType

8.1515 voiceBurstDTMFInfo Struct Reference

Data Fields

- burstDTMFInfo BurstDTMFInfo
- DTMFLengths * pBurstDTMFLengths

8.1515.1 Detailed Description

This structure contains parameters of burst Dual-Tone Multifrequency (DTMF)

Parameters

BurstDTMFInfo	• Burst DTMF Information – See burstDTMFInfo for more information

pBurstDTMF-Lengths	[optional] • DTMF Lengths – See DTMFLengths for more information

8.1515.2 Field Documentation

8.1515.2.1 burstDTMFInfo voiceBurstDTMFInfo::BurstDTMFInfo

8.1515.2.2 DTMFLengths* voiceBurstDTMFInfo::pBurstDTMFLengths

8.1516 voiceCallInfoReq Struct Reference

Data Fields

- BYTE callID

8.1516.1 Detailed Description

This structure contains information of the request parameters associated with a call.

Parameters

callID	• Call identifier for the call queried for information.

8.1516.2 Field Documentation

8.1516.2.1 BYTE voiceCallInfoReq::callID

8.1517 voiceCallInfoResp Struct Reference

Data Fields

- callInfo * pCallInfo
- remotePartyNum * pRemotePartyNum
- WORD * pSrvOpt
- BYTE * pVoicePrivacy
- BYTE * pOTASPStatus
- remotePartyName * pRemotePartyName
- UUSInfo * pUUSInfo
- BYTE * pAlertType
- alphaIDInfo * pAlphaIDInfo
- connectNumInfo * pConnectNumInfo
- diagInfo * pDiagInfo
- ULONG * pAlertingPattern

8.1517.1 Detailed Description

This structure contains information of the response parameters associated with a call.

Parameters

pCallInfo(optional)	• See callInfo for more information.
pRemotePartyNum(optional)	• See remotePartyNum for more information.
pSrvOpt	• Service option(optional) • Applicable only for 3GPP2 devices. • See Table8 qaGobiApiTableServiceOptions.h for standard service option number assignments.
pVoicePrivacy	• Voice Privacy.(optional) • Applicable only for 3GPP2 devices. • Values. – 0x00 - VOICE_PRIVACY_STANDARD - Standard privacy – 0x01 - VOICE_PRIVACY_ENHANCED - Enhanced privacy – 0xFF - Not Available
pOTASPStatus	• OTASP status for the OTASP call.(optional) • Applicable only for 3GPP2 devices. – 0x00 - OTASP_STATUS_SPL_UNLOCKED - SPL unlocked; only for user-initiated OTASP – 0x01 - OTASP_STATUS_SPRC_RETRIES_EXCEEDED - SPC retries exceeded; only for user-initiated OTASP – 0x02 - OTASP_STATUS_AKEY_EXCHANGED - A-key exchanged; only for user-initiated OTASP – 0x03 - OTASP_STATUS_SSD_UPDATED - SSD updated; for both user-initiated OTASP and network-initiated OTASP (OTAPA) – 0x04 - OTASP_STATUS_NAM_DOWNLOADED - NAM downloaded; only for user-initiated OTASP – 0x05 - OTASP_STATUS_MDN_DOWNLOADED - MDN downloaded; only for user-initiated OTASP – 0x06 - OTASP_STATUS_IMSI_DOWNLOADED - IMSI downloaded; only for user-initiated OTASP – 0x07 - OTASP_STATUS_PRL_DOWNLOADED - PRL downloaded; only for user-initiated OTASP – 0x08 - OTASP_STATUS_COMMITTED - Commit successful; only for user-initiated OTASP – 0x09 - OTASP_STATUS_OTAPA_STARTED - OTAPA started; only for network-initiated OTASP (OTAPA) – 0x0A - OTASP_STATUS_OTAPA_STOPPED - OTAPA stopped; only for network-initiated OTASP (OTAPA) – 0x0B - OTASP_STATUS_OTAPA_ABORTED - OTAPA aborted; only for network-initiated OTASP (OTAPA) – 0x0C - OTASP_STATUS_OTAPA_COMMITTED - OTAPA committed; only for network-initiated OTASP (OTAPA) – 0xFF - Not Available
pRemotePartyName(optional)	• Applicable only for 3GPP devices. • See remotePartyName for more information.

pUUS-Info(optional)	• Applicable only for 3GPP devices. • See UUSInfo for more information.
pAlert-Type(optional)	• Alerting type. • Applicable only for 3GPP devices. – 0x00 - ALERTING_LOCAL - Local – 0x01 - ALERTING_REMOTE - Remote – 0xFF - Not Available
pAlphaID-Info(optional)	• Applicable only for 3GPP devices. • See alphaIDInfo for more information.
pConnectNum-Info(optional)	• See connectNumInfo for more information.
pDiag-Info(optional)	• See diagInfo for more information.
pAlertingPattern	• Alerting pattern.(optional) – 0x00 - QMI_VOICE_ALERTING_PATTERN_1 - Pattern 1 – 0x01 - QMI_VOICE_ALERTING_PATTERN_2 - Pattern 2 – 0x02 - QMI_VOICE_ALERTING_PATTERN_3 - Pattern 3 – 0x04 - QMI_VOICE_ALERTING_PATTERN_5 - Pattern 5 – 0x05 - QMI_VOICE_ALERTING_PATTERN_6 - Pattern 6 – 0x06 - QMI_VOICE_ALERTING_PATTERN_7 - Pattern 7 – 0x07 - QMI_VOICE_ALERTING_PATTERN_8 - Pattern 8 – 0x08 - QMI_VOICE_ALERTING_PATTERN_9 - Pattern 9 – 0xFF - Not Available

8.1517.2 Field Documentation

8.1517.2.1 ULONG* voiceCallInfoResp::pAlertingPattern

8.1517.2.2 BYTE* voiceCallInfoResp::pAlertType

8.1517.2.3 alphaIDInfo* voiceCallInfoResp::pAlphaIDInfo

8.1517.2.4 callInfo* voiceCallInfoResp::pCallInfo

8.1517.2.5 connectNumInfo* voiceCallInfoResp::pConnectNumInfo

8.1517.2.6 diagInfo* voiceCallInfoResp::pDiagInfo

8.1517.2.7 BYTE* voiceCallInfoResp::pOTASPStatus

8.1517.2.8 remotePartyName* voiceCallInfoResp::pRemotePartyName

8.1517.2.9 remotePartyNum∗ voiceCallInfoResp::pRemotePartyNum

8.1517.2.10 WORD∗ voiceCallInfoResp::pSrvOpt

8.1517.2.11 UUSInfo∗ voiceCallInfoResp::pUUSInfo

8.1517.2.12 BYTE∗ voiceCallInfoResp::pVoicePrivacy

8.1518 voiceCallRequestParams Struct Reference

Data Fields

- BYTE callNumber [81]
- BYTE ∗ pCallType
- BYTE ∗ pCLIRType
- UUSInfo ∗ pUUSInFo
- CUGInfo ∗ pCUGInfo
- BYTE ∗ pEmergencyCategory
- calledPartySubAdd ∗ pCallPartySubAdd
- ULONG ∗ pSvcType

8.1518.1 Detailed Description

This structure contains Voice Call Request Parameters

Parameters

callNumber[81]	• Number to be dialed in ASCII string, NULL terminated. • Length Range [1 to 81]
pCall-Type(optional)	• the type of call to be dialed. CALL_TYPE_VOICE is automatically selected if this parameter is not provided. When CALL_TYPE_NON_STD_OTASP is selected, the call is sent as a nonstandard OTASP call regardless of the digit string Call type values are: – 0x00 - CALL_TYPE_VOICE - Voice (automatic selection) – 0x01 - CALL_TYPE_VOICE_FORCED - Avoid modem call classification – 0x08 - CALL_TYPE_NON_STD_OTASP - Nonstandard OTASP∗ – 0x09 - CALL_TYPE_EMERGENCY - Emergency
pCLIR-Type(optional)	• CLIR type values are: – 0x01 - CLIR_SUPPRESSION - Suppression – 0x02 - CLIR_INVOCATION - Invocation
pUUSIn-Fo(optional)	• Pointer to structure of UUSInfo – See UUSInfo for more information
pCUG-Info(optional)	• Pointer to structure of CUGInfo – See CUGInfo for more information

pEmergency-Category(optional)	• Bit mask of emergency number categories. This is only applicable when the call type is set to Emergency. – Bit 0 - VOICE_EMER_CAT_POLICE_BIT - Police – Bit 1 - VOICE_EMER_CAT_AMBULANCE_BIT - Ambulance – Bit 2 - VOICE_EMER_CAT_FIRE_BRIGADE_BIT- Fire brigade – Bit 3 - VOICE_EMER_CAT_MARINE_GUARD_BIT - Marine guard – Bit 4 - VOICE_EMER_CAT_MOUNTAIN_RESCUE_BIT - Mountain rescue – Bit 5 - VOICE_EMER_CAT_MANUAL_ECALL_BIT - Manual emergency call – Bit 6 - VOICE_EMER_CAT_AUTO_ECALL_BIT - Automatic emergency call – Bit 7 - VOICE_EMER_CAT_SPARE_BIT - Spare bit
pCallPartySub-Add(optional)	• Pointer to structure of calledPartySubAdd – See calledPartySubAdd for more information
pSvc-Type(optional)	• Service Type. – 0x01 - VOICE_DIAL_CALL_SRV_TYPE_AUTOMATIC - Automatic – 0x02 - VOICE_DIAL_CALL_SRV_TYPE_GSM - GSM – 0x03 - VOICE_DIAL_CALL_SRV_TYPE_WCDMA - WCDMA – 0x04 - VOICE_DIAL_CALL_SRV_TYPE_CDMA_AUTOMATIC - CDMA automatic – 0x05 - VOICE_DIAL_CALL_SRV_TYPE_GSM_WCDMA - GSM or WCDMA – 0x06 - VOICE_DIAL_CALL_SRV_TYPE_LTE -LTE

8.1518.2 Field Documentation

8.1518.2.1 BYTE voiceCallRequestParams::callNumber[81]

8.1518.2.2 calledPartySubAdd* voiceCallRequestParams::pCallPartySubAdd

8.1518.2.3 BYTE* voiceCallRequestParams::pCallType

8.1518.2.4 BYTE* voiceCallRequestParams::pCLIRType

8.1518.2.5 CUGInfo* voiceCallRequestParams::pCUGInfo

8.1518.2.6 BYTE* voiceCallRequestParams::pEmergencyCategory

8.1518.2.7 ULONG* voiceCallRequestParams::pSvcType

8.1518.2.8 UUSInfo* voiceCallRequestParams::pUUSInFo

8.1519 voiceCallResponseParams Struct Reference

Data Fields

- BYTE * pCallID
- alphaIDInfo * pAlphaIDInfo
- BYTE * pCCResultType
- ccSUPSType * pCCSUPSType

8.1519.1 Detailed Description

This structure contains Voice Call Response Parameters

Parameters

pCallID(optional)	• Unique call identifier for the dialed call
pAlphaID-Info(optional)	• Pointer to structure of alphaIDInfo – See alphaIDInfo for more information
pCCResult-Type(optional)	• Call Control Result Type. – 0x00 - CC_RESULT_TYPE_VOICE - Voice – 0x01 - CC_RESULT_TYPE_SUPS - Supplementary service – 0x02 - CC_RESULT_TYPE_USSD - Unstructured supplementary service
pCCSUPS-Type(optional)	• Pointer to structure of ccSUPSType • Data is present when pCCResultType is present and is other than Voice. – See ccSUPSType for more information

8.1519.2 Field Documentation

8.1519.2.1 alphaIDInfo* voiceCallResponseParams::pAlphaIDInfo

8.1519.2.2 BYTE* voiceCallResponseParams::pCallID

8.1519.2.3 BYTE* voiceCallResponseParams::pCCResultType

8.1519.2.4 ccSUPSType* voiceCallResponseParams::pCCSUPSType

8.1520 voiceContDTMFinfo Struct Reference

Data Fields

- BYTE * pCallID
- BYTE DTMFdigit

8.1520.1 Detailed Description

This structure contains parameters of continuous DTMF

Parameters

pCallID[IN/OUT]	• Call ID associated with call on which the DTMF information has to be sent. Start continuous DTMF request is sent to the current active/alerting call when pCallId is set to 0xFF. • This is IN/OUT parameter, value passed by user will be packed in request and value received from the device would be returned to the user. • If the call ID value received is 0, no value has been returned by the device
DTMFdigit[IN]	• DTMF digit in ASCII.

8.1520.2 Field Documentation

8.1520.2.1 BYTE voiceContDTMFinfo::DTMFdigit

8.1520.2.2 BYTE* voiceContDTMFinfo::pCallID

8.1521 voiceDTMFEventInfo Struct Reference

Data Fields

- DTMFInfo DTMFInformation
- BYTE * pOnLength
- BYTE * pOffLength

8.1521.1 Detailed Description

This structure contains the parameters passed for SLQSVoiceSetDTMFEventCallBack by the device.

Parameters

DTMF-Information(mandatory)	See DTMFInfo for more information.
pOn-Length(optional)	• DTMF Pulse Width – 0x00 - DTMF_ONLENGTH_95MS - 95 ms – 0x01 - DTMF_ONLENGTH_150MS - 150 ms – 0x02 - DTMF_ONLENGTH_200MS - 200 ms – 0x03 - DTMF_ONLENGTH_250MS - 250 ms – 0x04 - DTMF_ONLENGTH_300MS - 300 ms – 0x05 - DTMF_ONLENGTH_350MS - 350 ms – 0x06 - DTMF_ONLENGTH_SMS - SMS Tx special pulse width
pOff-Length(optional)	• DTMF Interdigit Interval – 0x00 - DTMF_OFFLENGTH_60MS - 60 ms – 0x01 - DTMF_OFFLENGTH_100MS - 100 ms – 0x02 - DTMF_OFFLENGTH_150MS - 150 ms – 0x03 - DTMF_OFFLENGTH_200MS - 200 ms

Note

None

8.1521.2 Field Documentation

8.1521.2.1 DTMFInfo voiceDTMFEventInfo::DTMFInformation

8.1521.2.2 BYTE* voiceDTMFEventInfo::pOffLength

8.1521.2.3 BYTE* voiceDTMFEventInfo::pOnLength

8.1522 voiceFlashInfo Struct Reference

Data Fields

- BYTE * pCallID
- BYTE * pFlashPayLd
- BYTE * pFlashType

8.1522.1 Detailed Description

This structure contains the flash information associated with a call.

Parameters

pCallID[IN/OUT]	• Unique call identifier associated with the current call.
pFlashPayLd[IN](optional)	• Payload in ASCII to be sent in Flash. • Variable Length, NULL terminated.
pFlashType[IN](optional)	• Flash type. – 0 - Simple Flash (default) – 1 - Activate answer hold – 2 - Deactivate answer hold

8.1522.2 Field Documentation

8.1522.2.1 BYTE* voiceFlashInfo::pCallID

8.1522.2.2 BYTE* voiceFlashInfo::pFlashPayLd

8.1522.2.3 BYTE* voiceFlashInfo::pFlashType

8.1523 voiceGetAllCallInfo Struct Reference

Data Fields

- arrCallInfo * pArrCallInfo

- arrRemotePartyNum * pArrRemotePartyNum
- arrRemotePartyName * pArrRemotePartyName
- arrAlertingType * pArrAlertingType
- arrUUSInfo * pArrUUSInfo
- arrSvcOption * pArrSvcOption
- BYTE * pOTASPStatus
- BYTE * pVoicePrivacy
- arrCallEndReason * pArrCallEndReason
- arrAlphaID * pArrAlphaID
- arrConnectPartyNum * pArrConnectPartyNum
- arrDiagInfo * pArrDiagInfo
- arrCalledPartyNum * pArrCalledPartyNum
- arrRedirPartyNum * pArrRedirPartyNum
- arrAlertingPattern * pArrAlertingPattern

8.1523.1 Detailed Description

This structure contains information about the response parameters with all the calls originating or terminating from a particular device.

Parameters

pArrCallInfo(optional)	• See arrCallInfo for more information.
pArrRemotePartyNum(optional)	• See arrRemotePartyNum for more information.
pArrRemotePartyName(optional)	• See arrRemotePartyName for more information.
pArrAlertingType(optional)	• See arrAlertingType for more information.
pArrUUSInfo(optional)	• See arrUUSInfo for more information.
pArrSvcOption(optional)	• See arrSvcOption for more information.

pOTASP-Status(optional)	• OTASP status for the OTASP call. • Applicable only for 3GPP2 devices. – 0x00 - OTASP_STATUS_SPL_UNLOCKED - SPL unlocked; only for user-initiated OTASP – 0x01 - OTASP_STATUS_SPRC_RETRIES_EXCEEDED - SPC retries exceeded; only for user-initiated OTASP – 0x02 - OTASP_STATUS_AKEY_EXCHANGED - A-key exchanged; only for user-initiated OTASP – 0x03 - OTASP_STATUS_SSD_UPDATED - SSD updated; for both user-initiated OTASP and network-initiated OTASP (OTAPA) – 0x04 - OTASP_STATUS_NAM_DOWNLOADED - NAM downloaded; only for user-initiated OTASP – 0x05 - OTASP_STATUS_MDN_DOWNLOADED - MDN downloaded; only for user-initiated OTASP – 0x06 - OTASP_STATUS_IMSI_DOWNLOADED - IMSI downloaded; only for user-initiated OTASP – 0x07 - OTASP_STATUS_PRL_DOWNLOADED - PRL downloaded; only for user-initiated OTASP – 0x08 - OTASP_STATUS_COMMITTED - Commit successful; only for user-initiated OTASP – 0x09 - OTASP_STATUS_OTAPA_STARTED - OTAPA started; only for network-initiated OTASP (OTAPA) – 0x0A - OTASP_STATUS_OTAPA_STOPPED - OTAPA stopped; only for network-initiated OTASP (OTAPA) – 0x0B - OTASP_STATUS_OTAPA_ABORTED - OTAPA aborted; only for network-initiated OTASP (OTAPA) – 0x0C - OTASP_STATUS_OTAPA_COMMITTED - OTAPA committed; only for network-initiated OTASP (OTAPA) – 0xFF - Not Available
pVoice-Privacy(optional)	• Voice Privacy. • Values. – 0x00 - VOICE_PRIVACY_STANDARD - Standard privacy – 0x01 - VOICE_PRIVACY_ENHANCED - Enhanced privacy – 0xFF - Not Available
pArrCallEnd-Reason(optional)	• See arrCallEndReason for more information.
pArrAlphaI-D(optional)	• See arrAlphaID for more information.
pArrConnect-Party-Num(optional)	• See arrConnectPartyNum for more information.
pArrDiag-Info(optional)	• See arrDiagInfo for more information.
pArrCalledParty-Num(optional)	• See arrCalledPartyNum for more information.

pArrRedirParty-Num(optional)	• See arrRedirPartyNum for more information.
pArrAlerting-Pattern(optional)	• See arrAlertingPattern for more information.

8.1523.2 Field Documentation

8.1523.2.1 arrAlertingPattern∗ voiceGetAllCallInfo::pArrAlertingPattern

8.1523.2.2 arrAlertingType∗ voiceGetAllCallInfo::pArrAlertingType

8.1523.2.3 arrAlphaID∗ voiceGetAllCallInfo::pArrAlphaID

8.1523.2.4 arrCalledPartyNum∗ voiceGetAllCallInfo::pArrCalledPartyNum

8.1523.2.5 arrCallEndReason∗ voiceGetAllCallInfo::pArrCallEndReason

8.1523.2.6 arrCallInfo∗ voiceGetAllCallInfo::pArrCallInfo

8.1523.2.7 arrConnectPartyNum∗ voiceGetAllCallInfo::pArrConnectPartyNum

8.1523.2.8 arrDiagInfo∗ voiceGetAllCallInfo::pArrDiagInfo

8.1523.2.9 arrRedirPartyNum∗ voiceGetAllCallInfo::pArrRedirPartyNum

8.1523.2.10 arrRemotePartyName∗ voiceGetAllCallInfo::pArrRemotePartyName

8.1523.2.11 arrRemotePartyNum∗ voiceGetAllCallInfo::pArrRemotePartyNum

8.1523.2.12 arrSvcOption∗ voiceGetAllCallInfo::pArrSvcOption

8.1523.2.13 arrUUSInfo∗ voiceGetAllCallInfo::pArrUUSInfo

8.1523.2.14 BYTE∗ voiceGetAllCallInfo::pOTASPStatus

8.1523.2.15 BYTE∗ voiceGetAllCallInfo::pVoicePrivacy

8.1524 voiceGetCallBarringReq Struct Reference

Data Fields

- BYTE reason
- BYTE ∗ pSvcClass

8.1524.1 Detailed Description

This structure contains Voice Get Call Barring Request Parameters

Parameters

reason	• Call Barring Reason • Values: – 0x07 - QMI_VOICE_REASON_BARR_ALLOUTGOING - All outgoing – 0x08 - QMI_VOICE_REASON_BARR_OUTGOINGINT - Outgoing internal – 0x09 - QMI_VOICE_REASON_BARR_OUTGOINGINTEXTOHOME - Outgoing external to home – 0x0A - QMI_VOICE_REASON_BARR_ALLINCOMING - All incoming – 0x0B - QMI_VOICE_REASON_BARR_INCOMINGROAMING - Roaming incoming – 0x0C - QMI_VOICE_REASON_BARR_ALLBARRING - All calls are barred – 0x0D - QMI_VOICE_REASON_BARR_ALLOUTGOINGBARRING - All outgoing calls are barred – 0x0E - QMI_VOICE_REASON_BARR_ALLINCOMINGBARRING - All incoming calls are barred
pSvcClass[IN/OUT]	• Service class is a combination (sum) of information class constants (optional) • See qaGobiApiTableSupServiceInfoClasses.h for service classes. • Service Class is set to 0 if call waiting is not active for any of the information classes. • 0xFF,if Not Available

8.1524.2 Field Documentation

8.1524.2.1 BYTE∗ voiceGetCallBarringReq::pSvcClass

8.1524.2.2 BYTE voiceGetCallBarringReq::reason

8.1525 voiceGetCallBarringResp Struct Reference

Data Fields

- BYTE ∗ pSvcClass
- WORD ∗ pFailCause
- alphaIDInfo ∗ pAlphaIDInfo
- BYTE ∗ pCCResType
- BYTE ∗ pCallID
- ccSUPSType ∗ pCCSUPSType

8.1525.1 Detailed Description

This structure contains Voice Get Call Barring Response Parameters

Parameters

pSvcClass[IN/OUT]	• Service class is a combination (sum) of information class constants (optional) • See qaGobiApiTableSupServiceInfoClasses.h for service classes. • Service Class is set to 0 if call waiting is not active for any of the information classes. • 0xFF,if Not Available

pFailCause	• Supplementary services failure cause (optional) • see qaGobiApiTableVoiceCallEndReasons.h for more information. • 0xFFFF,if Not Available
pAlphaIDInfo	• Pointer to structure of alphaIDInfo (optional) – See alphaIDInfo for more information
pCCResType	• Call Control Result Type (optional) – 0x00 - CC_RESULT_TYPE_VOICE - Voice – 0x01 - CC_RESULT_TYPE_SUPS - Supplementary service – 0x02 - CC_RESULT_TYPE_USSD - Unstructured supplementary service – 0xFF - Not Available
pCallID	• Call ID of the voice call that resulted from call control. (optional) • It is present when pCCResType is present and is Voice. • If zero(0) then invalid.
pCCSUPSType	• Supplementary service data that resulted from call control (optional) • Data is present when pCCResultType is present and is other than Voice. – See ccSUPSType for more information

Note

Using NULL for the pointers would make sure that the parameter is not returned or has default value.

8.1525.2 Field Documentation

8.1525.2.1 alphaIDInfo* voiceGetCallBarringResp::pAlphaIDInfo

8.1525.2.2 BYTE* voiceGetCallBarringResp::pCallID

8.1525.2.3 BYTE* voiceGetCallBarringResp::pCCResType

8.1525.2.4 ccSUPSType* voiceGetCallBarringResp::pCCSUPSType

8.1525.2.5 WORD* voiceGetCallBarringResp::pFailCause

8.1525.2.6 BYTE* voiceGetCallBarringResp::pSvcClass

8.1526 voiceGetCallFWReq Struct Reference

Data Fields

- BYTE Reason
- BYTE * pSvcClass

8.1526.1 Detailed Description

This structure contains Voice Get Call Forwarding Status Request Parameters

Parameters

Reason	• Call Forwarding Reason • Values: – 0x01 - QMI_VOICE_REASON_FWDREASON_UNCONDITIONAL - Unconditional call forwarding – 0x02 - QMI_VOICE_REASON_FWDREASON_MOBILEBUSY - Forward when the mobile is busy – 0x03 - QMI_VOICE_REASON_FWDREASON_NOREPLY - Forward when there is no reply – 0x04 - QMI_VOICE_REASON_FWDREASON_UNREACHABLE - Forward when the call is unreachable – 0x05 - QMI_VOICE_REASON_FWDREASON_ALLFORWARDING - All forwarding – 0x06 - QMI_VOICE_REASON_FWDREASON_ALLCONDITIONAL - All conditional forwarding
pSvcClass(optional)	• Service Class is a combination (sum) of information class constants • See qaGobiApiTableSupServiceInfoClasses.h for service classes.

8.1526.2 Field Documentation

8.1526.2.1 BYTE* voiceGetCallFWReq::pSvcClass

8.1526.2.2 BYTE voiceGetCallFWReq::Reason

8.1527 voiceGetCallFWResp Struct Reference

Data Fields

- getCallFWInfo * pGetCallFWInfo
- WORD * pFailCause
- alphaIDInfo * pAlphaIDInfo
- BYTE * pCCResType
- BYTE * pCallID
- ccSUPSType * pCCSUPSType
- getCallFWExtInfo * pGetCallFWExtInfo

8.1527.1 Detailed Description

This structure contains Voice Get Call Forwarding Status Response Parameters

Parameters

pGetCallFWInfo	• Pointer to structure of getCallFWInfo (optional) – See getCallFWInfo for more information

pFailCause	• Supplementary services failure cause (optional) • see qaGobiApiTableVoiceCallEndReasons.h for more information. • 0xFFFF,if Not Available
pAlphaIDInfo	• Pointer to structure of alphaIDInfo (optional) – See alphaIDInfo for more information
pCCResType	• Call Control Result Type (optional) – 0x00 - CC_RESULT_TYPE_VOICE - Voice – 0x01 - CC_RESULT_TYPE_SUPS - Supplementary service – 0x02 - CC_RESULT_TYPE_USSD - Unstructured supplementary service – 0xFF - Not Available
pCallID	• Call ID of the voice call that resulted from call control. (optional) • It is present when pCCResType is present and is Voice. • If zero(0) then invalid.
pCCSUPSType	• Supplementary service data that resulted from call control (optional) • Data is present when pCCResultType is present and is other than Voice. – See ccSUPSType for more information
pGetCallFWExt-Info	• Pointer to structure of getCallFWExtInfo (optional) – See getCallFWExtInfo for more information

Note

Using NULL for the pointers would make sure that the parameter is not returned or has default value.

8.1527.2 Field Documentation

8.1527.2.1 alphaIDInfo* voiceGetCallFWResp::pAlphaIDInfo

8.1527.2.2 BYTE* voiceGetCallFWResp::pCallID

8.1527.2.3 BYTE* voiceGetCallFWResp::pCCResType

8.1527.2.4 ccSUPSType* voiceGetCallFWResp::pCCSUPSType

8.1527.2.5 WORD* voiceGetCallFWResp::pFailCause

8.1527.2.6 getCallFWExtInfo* voiceGetCallFWResp::pGetCallFWExtInfo

8.1527.2.7 getCallFWInfo* voiceGetCallFWResp::pGetCallFWInfo

8.1528 voiceGetCallWaitInfo Struct Reference

Data Fields

- BYTE * pSvcClass
- WORD * pFailCause
- alphaIDInfo * pAlphaIDInfo
- BYTE * pCCResType
- BYTE * pCallID
- ccSUPSType * pCCSUPSType

8.1528.1 Detailed Description

This structure contains Voice Get Call Waiting Response Parameters

Parameters

pSvcClass[IN/OUT]	• Service class is a combination (sum) of information class constants (optional) • See qaGobiApiTableSupServiceInfoClasses.h for service classes. • Service Class is set to 0 if call waiting is not active for any of the information classes. • 0xFF,if Not Available
pFailCause[OUT]	• Supplementary services failure cause (optional) • see qaGobiApiTableVoiceCallEndReasons.h for more information. • 0xFFFF,if Not Available
pAlphaIDInfo[OUT]	• Pointer to structure of alphaIDInfo (optional) – See alphaIDInfo for more information

pCCResType[OUT]	• Call Control Result Type (optional)
	  – 0x00 - CC_RESULT_TYPE_VOICE - Voice
	  – 0x01 - CC_RESULT_TYPE_SUPS - Supplementary service
	  – 0x02 - CC_RESULT_TYPE_USSD - Unstructured supplementary service
	  – 0xFF - Not Available

pCallID[OUT]	• Call ID of the voice call that resulted from call control. (optional) • It is present when pCCResType is present and is Voice. • If zero(0) then invalid.
pCCSUPSType[OUT]	• Supplementary service data that resulted from call control (optional) • Data is present when pCCResultType is present and is other than Voice. – See ccSUPSType for more information

Note

Using NULL for the pointers would make sure that the parameter is not returned or has default value.

8.1528.2 Field Documentation

8.1528.2.1 alphaIDInfo* voiceGetCallWaitInfo::pAlphaIDInfo

8.1528.2.2 BYTE* voiceGetCallWaitInfo::pCallID

8.1528.2.3 BYTE* voiceGetCallWaitInfo::pCCResType

8.1528.2.4 ccSUPSType* voiceGetCallWaitInfo::pCCSUPSType

8.1528.2.5 WORD* voiceGetCallWaitInfo::pFailCause

8.1528.2.6 BYTE* voiceGetCallWaitInfo::pSvcClass

8.1529 voiceGetCLIPResp Struct Reference

Data Fields

- CLIPResp * pCLIPResp
- WORD * pFailCause
- alphaIDInfo * pAlphaIDInfo
- BYTE * pCCResType
- BYTE * pCallID
- ccSUPSType * pCCSUPSType

8.1529.1 Detailed Description

This structure contains Voice Get Calling Line Identification Presentation(CLIP) Response Parameters

Parameters

pCLIPResp	• Pointer to structure of CLIPResp (optional) – See CLIPResp for more information
pFailCause	• Supplementary services failure cause (optional) • see qaGobiApiTableVoiceCallEndReasons.h for more information. • 0xFFFF,if Not Available
pAlphaIDInfo	• Pointer to structure of alphaIDInfo (optional) – See alphaIDInfo for more information
pCCResType	• Call Control Result Type (optional) – 0x00 - CC_RESULT_TYPE_VOICE - Voice – 0x01 - CC_RESULT_TYPE_SUPS - Supplementary service – 0x02 - CC_RESULT_TYPE_USSD - Unstructured supplementary service – 0xFF - Not Available
pCallID	• Call ID of the voice call that resulted from call control. (optional) • It is present when pCCResType is present and is Voice. • If zero(0) then invalid.

pCCSUPSType	• Supplementary service data that resulted from call control (optional) • Data is present when pCCResultType is present and is other than Voice. – See ccSUPSType for more information

Note

Using NULL for the pointers would make sure that the parameter is not returned or has default value.

8.1529.2 Field Documentation

8.1529.2.1 alphaIDInfo* voiceGetCLIPResp::pAlphaIDInfo

8.1529.2.2 BYTE* voiceGetCLIPResp::pCallID

8.1529.2.3 BYTE* voiceGetCLIPResp::pCCResType

8.1529.2.4 ccSUPSType* voiceGetCLIPResp::pCCSUPSType

8.1529.2.5 CLIPResp* voiceGetCLIPResp::pCLIPResp

8.1529.2.6 WORD* voiceGetCLIPResp::pFailCause

8.1530 voiceGetCLIRResp Struct Reference

Data Fields

- CLIRResp * pCLIRResp
- WORD * pFailCause
- alphaIDInfo * pAlphaIDInfo
- BYTE * pCCResType
- BYTE * pCallID
- ccSUPSType * pCCSUPSType

8.1530.1 Detailed Description

This structure contains Voice Get Calling Line Identification Restriction (CLIR) Response Parameters

Parameters

pCLIRResp	• Pointer to structure of CLIRResp (optional) – See CLIRResp for more information
pFailCause	• Supplementary services failure cause (optional) • see qaGobiApiTableVoiceCallEndReasons.h for more information. • 0xFFFF,if Not Available
pAlphaIDInfo	• Pointer to structure of alphaIDInfo (optional) – See alphaIDInfo for more information

pCCResType	• Call Control Result Type (optional) – 0x00 - CC_RESULT_TYPE_VOICE - Voice – 0x01 - CC_RESULT_TYPE_SUPS - Supplementary service – 0x02 - CC_RESULT_TYPE_USSD - Unstructured supplementary service – 0xFF - Not Available
pCallID	• Call ID of the voice call that resulted from call control. (optional) • It is present when pCCResType is present and is Voice. • If zero(0) then invalid.
pCCSUPSType	• Supplementary service data that resulted from call control (optional) • Data is present when pCCResultType is present and is other than Voice. – See ccSUPSType for more information

Note

Using NULL for the pointers would make sure that the parameter is not returned or has default value.

8.1530.2 Field Documentation

8.1530.2.1 alphaIDInfo∗ voiceGetCLIRResp::pAlphaIDInfo

8.1530.2.2 BYTE∗ voiceGetCLIRResp::pCallID

8.1530.2.3 BYTE∗ voiceGetCLIRResp::pCCResType

8.1530.2.4 ccSUPSType∗ voiceGetCLIRResp::pCCSUPSType

8.1530.2.5 CLIRResp∗ voiceGetCLIRResp::pCLIRResp

8.1530.2.6 WORD∗ voiceGetCLIRResp::pFailCause

8.1531 voiceGetCNAPResp Struct Reference

Data Fields

- CNAPResp ∗ pCNAPResp
- WORD ∗ pFailCause
- alphaIDInfo ∗ pAlphaIDInfo
- BYTE ∗ pCCResType
- BYTE ∗ pCallID
- ccSUPSType ∗ pCCSUPSType

8.1531.1 Detailed Description

This structure contains Voice Get Calling Name Presentation(CNAP) Response Parameters

Parameters

pCNAPResp	• Pointer to structure of CNAPResp (optional) – See CNAPResp for more information
pFailCause	• Supplementary services failure cause (optional) • see qaGobiApiTableVoiceCallEndReasons.h for more information. • 0xFFFF,if Not Available
pAlphaIDInfo	• Pointer to structure of alphaIDInfo (optional) – See alphaIDInfo for more information
pCCResType	• Call Control Result Type (optional) – 0x00 - CC_RESULT_TYPE_VOICE - Voice – 0x01 - CC_RESULT_TYPE_SUPS - Supplementary service – 0x02 - CC_RESULT_TYPE_USSD - Unstructured supplementary service – 0xFF - Not Available
pCallID	• Call ID of the voice call that resulted from call control. (optional) • It is present when pCCResType is present and is Voice. • If zero(0) then invalid.
pCCSUPSType	• Supplementary service data that resulted from call control (optional) • Data is present when pCCResultType is present and is other than Voice. – See ccSUPSType for more information

Note

Using NULL for the pointers would make sure that the parameter is not returned or has default value.

8.1531.2 Field Documentation

8.1531.2.1 alphaIDInfo* voiceGetCNAPResp::pAlphaIDInfo

8.1531.2.2 BYTE* voiceGetCNAPResp::pCallID

8.1531.2.3 BYTE* voiceGetCNAPResp::pCCResType

8.1531.2.4 ccSUPSType* voiceGetCNAPResp::pCCSUPSType

8.1531.2.5 CNAPResp* voiceGetCNAPResp::pCNAPResp

8.1531.2.6 WORD* voiceGetCNAPResp::pFailCause

8.1532 voiceGetCOLPResp Struct Reference

Data Fields

- COLPResp * pCOLPResp
- WORD * pFailCause
- alphaIDInfo * pAlphaIDInfo
- BYTE * pCCResType
- BYTE * pCallID
- ccSUPSType * pCCSUPSType

8.1532.1 Detailed Description

This structure contains Voice Get Connected Line Identification Presentation(COLP) Response Parameters

Parameters

pCOLPResp	• Pointer to structure of COLPResp (optional) – See COLPResp for more information
pFailCause	• Supplementary services failure cause (optional) • see qaGobiApiTableVoiceCallEndReasons.h for more information. • 0xFFFF,if Not Available
pAlphaIDInfo	• Pointer to structure of alphaIDInfo (optional) – See alphaIDInfo for more information
pCCResType	• Call Control Result Type (optional) – 0x00 - CC_RESULT_TYPE_VOICE - Voice – 0x01 - CC_RESULT_TYPE_SUPS - Supplementary service – 0x02 - CC_RESULT_TYPE_USSD - Unstructured supplementary service – 0xFF - Not Available
pCallID	• Call ID of the voice call that resulted from call control. (optional) • It is present when pCCResType is present and is Voice. • If zero(0) then invalid.
pCCSUPSType	• Supplementary service data that resulted from call control (optional) • Data is present when pCCResultType is present and is other than Voice. – See ccSUPSType for more information

Note

Using NULL for the pointers would make sure that the parameter is not returned or has default value.

8.1532.2 Field Documentation

8.1532.2.1 alphaIDInfo* voiceGetCOLPResp::pAlphaIDInfo

8.1532.2.2 BYTE* voiceGetCOLPResp::pCallID

8.1532.2.3 BYTE* voiceGetCOLPResp::pCCResType

8.1532.2.4 ccSUPSType* voiceGetCOLPResp::pCCSUPSType

8.1532.2.5 COLPResp* voiceGetCOLPResp::pCOLPResp

8.1532.2.6 WORD* voiceGetCOLPResp::pFailCause

8.1533 voiceGetCOLRResp Struct Reference

Data Fields

- COLRResp * pCOLRResp
- WORD * pFailCause
- alphaIDInfo * pAlphaIDInfo
- BYTE * pCCResType
- BYTE * pCallID
- ccSUPSType * pCCSUPSType

8.1533.1 Detailed Description

This structure contains Voice Get Connected Line Identification Restriction(COLR) Response Parameters

Parameters

pCOLRResp	• Pointer to structure of COLRResp (optional) – See COLRResp for more information
pFailCause	• Supplementary services failure cause (optional) • see qaGobiApiTableVoiceCallEndReasons.h for more information. • 0xFFFF,if Not Available
pAlphaIDInfo	• Pointer to structure of alphaIDInfo (optional) – See alphaIDInfo for more information
pCCResType	• Call Control Result Type (optional) – 0x00 - CC_RESULT_TYPE_VOICE - Voice – 0x01 - CC_RESULT_TYPE_SUPS - Supplementary service – 0x02 - CC_RESULT_TYPE_USSD - Unstructured supplementary service – 0xFF - Not Available
pCallID	• Call ID of the voice call that resulted from call control. (optional) • It is present when pCCResType is present and is Voice. • If zero(0) then invalid.

pCCSUPSType	• Supplementary service data that resulted from call control (optional) • Data is present when pCCResultType is present and is other than Voice. – See ccSUPSType for more information

Note

Using NULL for the pointers would make sure that the parameter is not returned or has default value.

8.1533.2 Field Documentation

8.1533.2.1 alphaIDInfo∗ voiceGetCOLRResp::pAlphaIDInfo

8.1533.2.2 BYTE∗ voiceGetCOLRResp::pCallID

8.1533.2.3 BYTE∗ voiceGetCOLRResp::pCCResType

8.1533.2.4 ccSUPSType∗ voiceGetCOLRResp::pCCSUPSType

8.1533.2.5 COLRResp∗ voiceGetCOLRResp::pCOLRResp

8.1533.2.6 WORD∗ voiceGetCOLRResp::pFailCause

8.1534 voiceGetConfigReq Struct Reference

Data Fields

- BYTE ∗ pAutoAnswer
- BYTE ∗ pAirTimer
- BYTE ∗ pRoamTimer
- BYTE ∗ pTTYMode
- BYTE ∗ pPrefVoiceSO
- BYTE ∗ pAMRStatus
- BYTE ∗ pPrefVoicePrivacy
- BYTE ∗ pNamID
- BYTE ∗ pVoiceDomainPref

8.1534.1 Detailed Description

This structure contains Voice Get Configuration Request Parameters

Parameters

pAutoAnswer(optional)	• Indicator to retrieve the Auto Answer Information. – 0x01 - Include auto answer information
pAirTimer(optional)	• Indicator to retrieve the Air Timer Information. – 0x01 - Include air calls timer count information • Currently Not Supported.

pRoamTimer(optional)	• Indicator to retrieve the Roam Timer Information. – 0x01 - Include roam calls timer information • Currently Not Supported.
pTTYMode(optional)	• Indicator to retrieve the TTY Mode Information. – 0x01 - Include TTY configuration status information
pPrefVoiceSO(optional)	• Indicator to retrieve the Preferred Voice SO Information. – 0x01 - Include preferred voice configuration status information • Currently Not Supported.
pAMRStatus(optional)	• Indicator to retrieve the AMR Status Information. – 0x01 - Include AMR status information
pPrefVoicePrivacy(optional)	• Indicator to retrieve the Preferred Voice Privacy Information. – 0x01 - Include preferred voice privacy status information
pNamID(optional)	• Index of the Number Assignment Module Index (CDMA subscription) to be configured • Range: 0 to 3. • Some modems support only 1 or 2 NAMs. • The NAM Index is valid only when the request contains at least one of Air Timer, Roam Timer, and Preferred Voice SO. • If no nam_id value is specified in the request,the default value is 0.
pVoiceDomainPref(optional)	• Indicator to retrieve the Preferred Voice Domain Information. – 0x01 - Include voice domain preference information

Note

Using NULL for the pointers would make sure that the parameter is not returned.

8.1534.2 Field Documentation

8.1534.2.1 BYTE* voiceGetConfigReq::pAirTimer

8.1534.2.2 BYTE* voiceGetConfigReq::pAMRStatus

8.1534.2.3 BYTE* voiceGetConfigReq::pAutoAnswer

8.1534.2.4 BYTE* voiceGetConfigReq::pNamID

8.1534.2.5 BYTE* voiceGetConfigReq::pPrefVoicePrivacy

8.1534.2.6 BYTE* voiceGetConfigReq::pPrefVoiceSO

8.1534.2.7 BYTE* voiceGetConfigReq::pRoamTimer

8.1534.2.8 BYTE* voiceGetConfigReq::pTTYMode

8.1534.2.9 BYTE* voiceGetConfigReq::pVoiceDomainPref

8.1535 voiceGetConfigResp Struct Reference

Data Fields

- BYTE * pAutoAnswerStat
- airTimer * pAirTimerCnt
- roamTimer * pRoamTimerCnt
- BYTE * pCurrTTYMode
- prefVoiceSO * pCurPrefVoiceSO
- curAMRConfig * pCurAMRConfig
- BYTE * pCurVoicePrivacyPref
- BYTE * pCurVoiceDomainPref

8.1535.1 Detailed Description

This structure contains Voice Get Configuration Response Parameters.

Parameters

pAutoAnswer-Stat(optional)	• Auto Answer Status • Value returned is read from NV_AUTO_ANSWER_I. – 0x00 - Disabled – 0x01 - Enabled – 0xFF - Not Available
pAirTimer-Cnt(optional)	• Air Timer Count • Value returned is read from NV_AIR_CNT_I. • See airTimer for more information
pRoamTimer-Cnt(optional)	• Roam Timer Count • Value returned is read from NV_ROAM_CNT_I. • See roamTimer for more information
pCurrTTY-Mode(optional)	• Current TTY Mode • Value returned is read from NV_TTY_I. – 0x00 - TTY_MODE_FULL - Full – 0x01 - TTY_MODE_VCO - Voice carry over – 0x02 - TTY_MODE_HCO - Hearing carry over – 0x03 - TTY_MODE_OFF - Off – 0xFF - Not Available

pCurPrefVoiceSO(optional)	• Current Preferred Voice SO • Value returned is read from NV_PREF_VOICE_SO_I. • See prefVoiceSO for more information
pCurAMRConfig(optional)	• Current Adaptive Multi-Rate Configuration. • Values returned are read from NV_GSM_ARM_CALL_CONFIG_I and NV_UMTS_AMR_CODEC_PREFERENCE_CONFIG_I. • See curAMRConfig for more information
pCurVoicePrivacyPref(optional)	• Current Voice Privacy Preference • Value returned is read from NV_VOICE_PRIV_I. – 0x00 - Standard privacy – 0x01 - Enhanced privacy – 0xFF - Not Available
pCurVoiceDomainPref(optional)	• Current Voice Domain Preference. – 0x00 - Circuit-switched (CS) only – 0x01 - Packet-switched (PS) only – 0x02 - CS is preferred; PS is secondary – 0x03 - PS is preferred; CS is secondary – 0xFF - Not Available

Note

Using NULL for the pointers would make sure that the parameter is not returned or has default value.

8.1535.2 Field Documentation

8.1535.2.1 airTimer∗ voiceGetConfigResp::pAirTimerCnt

8.1535.2.2 BYTE∗ voiceGetConfigResp::pAutoAnswerStat

8.1535.2.3 curAMRConfig∗ voiceGetConfigResp::pCurAMRConfig

8.1535.2.4 prefVoiceSO∗ voiceGetConfigResp::pCurPrefVoiceSO

8.1535.2.5 BYTE∗ voiceGetConfigResp::pCurrTTYMode

8.1535.2.6 BYTE∗ voiceGetConfigResp::pCurVoiceDomainPref

8.1535.2.7 BYTE∗ voiceGetConfigResp::pCurVoicePrivacyPref

8.1535.2.8 roamTimer∗ voiceGetConfigResp::pRoamTimerCnt

8.1536 voiceIndicationRegisterInfo Struct Reference

Data Fields

- BYTE * pRegDTMFEvents
- BYTE * pRegVoicePrivacyEvents
- BYTE * pSuppsNotifEvents

8.1536.1 Detailed Description

This structure contains parameters of Indication Register Information

Parameters

pRegDTMF-Events(optional)	• Registration Indication For DTMF Events. • When this registration is enabled, the device learns of DTMF events via the QMI_VOICE_DTMF_IND indication. – 0x00 - Disable – 0x01 - Enable
pRegVoice-Privacy-Events(optional)	• Registration Indication For Voice Privacy Events. • When this registration is enabled, the device learns of DTMF events via the QMI_VOICE_PRIVACY_IND indication. – 0x00 - Disable – 0x01 - Enable
pSuppsNotif-Events(optional)	• Registration Indication For Supplementary Service Notification Events. • When this registration is enabled, the device learns of DTMF events via the QMI_VOICE_SUPS_NOTIFICATION_IND indication. – 0x00 - Disable – 0x01 - Enable

Note

One of the optional parameter is mandatory to be present in the request.

8.1536.2 Field Documentation

8.1536.2.1 BYTE* voiceIndicationRegisterInfo::pRegDTMFEvents

8.1536.2.2 BYTE* voiceIndicationRegisterInfo::pRegVoicePrivacyEvents

8.1536.2.3 BYTE* voiceIndicationRegisterInfo::pSuppsNotifEvents

8.1537 voiceInfoRec Struct Reference

Data Fields

- BYTE callID
- signalInfo * pSignalInfo
- callerIDInfo * pCallerIDInfo

- BYTE * pDispInfo
- BYTE * pExtDispInfo
- BYTE * pCallerNameInfo
- BYTE * pCallWaitInd
- connectNumInfo * pConnectNumInfo
- connectNumInfo * pCallingPartyInfo
- calledPartyInfo * pCalledPartyInfo
- redirNumInfo * pRedirNumInfo
- BYTE * pCLIRCause
- NSSAudioCtrl * pNSSAudioCtrl
- BYTE * pNSSRelease
- lineCtrlInfo * pLineCtrlInfo
- extDispRecInfo * pExtDispRecInfo

8.1537.1 Detailed Description

This structure contains Voice record Information

Parameters

callID	[Mandatory] • Call identifier for the call.
pSignalInfo[-Optional]	• Signal Information • See signalInfo for more information
pCallerIDInfo[-Optional]	• Caller ID Information • See callerIDInfo for more information
pDispInfo[-Optional]	• Display Information
pExtDispInfo[-Optional]	• Extended Display Information
pCallerName-Info[Optional]	• Caller Name Information
pCallWaitInd[-Optional]	• Call Waiting Indicator
pConnectNum-Info[Optional]	• Connected Number Information • see connectNumInfo for more information
pCallingParty-Info[Optional]	• Calling Party Number Information • This structure is having exactly same elements as connectNumInfo • see connectNumInfo for more information
pCalledParty-Info[Optional]	• Called Party Number Information • see calledPartyInfo for more information

pRedirNumInfo[-Optional]	• Redirecting Number Information • see redirNumInfo for more information
pCLIRCause[-Optional]	• National Supplementary Services - CLIR • see NSSAudioCtrl for more information
pNSSAudioCtrl[-Optional]	• National Supplementary Services - Audio Control
pNSSRelease[-Optional]	• National Supplementary Services - Release
pLineCtrlInfo[-Optional]	• Line Control Information • see lineCtrlInfo for more information
pExtDispRec-Info[Optional]	• Extended Display Record Information • see extDispRecInfo for more information

8.1537.2 Field Documentation

8.1537.2.1 BYTE voiceInfoRec::callID

8.1537.2.2 calledPartyInfo* voiceInfoRec::pCalledPartyInfo

8.1537.2.3 callerIDInfo* voiceInfoRec::pCallerIDInfo

8.1537.2.4 BYTE* voiceInfoRec::pCallerNameInfo

8.1537.2.5 connectNumInfo* voiceInfoRec::pCallingPartyInfo

8.1537.2.6 BYTE* voiceInfoRec::pCallWaitInd

8.1537.2.7 BYTE* voiceInfoRec::pCLIRCause

8.1537.2.8 connectNumInfo* voiceInfoRec::pConnectNumInfo

8.1537.2.9 BYTE* voiceInfoRec::pDispInfo

8.1537.2.10 BYTE* voiceInfoRec::pExtDispInfo

8.1537.2.11 extDispRecInfo* voiceInfoRec::pExtDispRecInfo

8.1537.2.12 lineCtrlInfo* voiceInfoRec::pLineCtrlInfo

8.1537.2.13 NSSAudioCtrl* voiceInfoRec::pNSSAudioCtrl

8.1537.2.14 BYTE* voiceInfoRec::pNSSRelease

8.1537.2.15 redirNumInfo∗ voiceInfoRec::pRedirNumInfo

8.1537.2.16 signalInfo∗ voiceInfoRec::pSignalInfo

8.1538 voiceManageCallsReq Struct Reference

Data Fields

- BYTE SUPSType
- BYTE ∗ pCallID

8.1538.1 Detailed Description

This structure contains Manage Calls Information.

Parameters

SUPSType	• Supplementary service type during the call. – 0x01 - SUPS_TYPE_RELEASE_HELD_OR_WAITING ⋆ Release is held or waiting – 0x02 - SUPS_TYPE_RELEASE_ACTIVE_ACCEPT_HELD_OR_WAITING ⋆ Release is active and accepting held or waiting – 0x03 - SUPS_TYPE_HOLD_ACTIVE_ACCEPT_WAITING_OR_HELD ⋆ Hold is active and accepting waiting or held – 0x04 - SUPS_TYPE_HOLD_ALL_EXCEPT_SPECIFIED_CALL ⋆ Hold all calls except a specified one – 0x05 - SUPS_TYPE_MAKE_CONFERENCE_CALL ⋆ Make a conference call – 0x06 - SUPS_TYPE_EXPLICIT_CALL_TRANSFER ⋆ Explicit call transfer – 0x07 - SUPS_TYPE_CCBS_ACTIVATION ⋆ Activate completion of calls to busy subscriber – 0x08 - SUPS_TYPE_END_ALL_CALLS ⋆ End all calls – 0x09 - SUPS_TYPE_RELEASE_SPECIFIED_CALL ⋆ Release a specified call
pCallID[Optional]	• Applicable only for SUPSType 0x04, 0x07, and 0x09

8.1538.2 Field Documentation

8.1538.2.1 BYTE∗ voiceManageCallsReq::pCallID

8.1538.2.2 BYTE voiceManageCallsReq::SUPSType

8.1539 voiceManageCallsResp Struct Reference

Data Fields

- WORD * pFailCause

8.1539.1 Detailed Description

This structure contains Failure cause Information. Populated when API Fails.

Parameters

pFailCause	• Supplementary service failure causes (optional, supply NULL if not required). • See Table8 qaGobiApiTableVoiceCallEndReasons.h for supplementary services failure cause – 0xFFFF is the value when the information is not received from device

8.1539.2 Field Documentation

8.1539.2.1 WORD* voiceManageCallsResp::pFailCause

8.1540 voiceOrigUSSDNoWaitInfo Struct Reference

Data Fields

- struct USSInfo USSInformation

8.1540.1 Detailed Description

This structure contains Orig USSD No Wait Information Parameters.

Parameters

USSInformation	• See USSInfo for more information.

8.1540.2 Field Documentation

8.1540.2.1 struct USSInfo voiceOrigUSSDNoWaitInfo::USSInformation

8.1541 voiceOTASPStatusInfo Struct Reference

Data Fields

- BYTE callID
- BYTE OTASPStatus

8.1541.1 Detailed Description

This structure consist of OTASP or OTAPA event params

Parameters

callID	• Call identifier for the call.
OTASPStatus	• OTASP status for the OTASP call. Values: – 0x00 - OTASP_STATUS_SPL_UNLOCKED.SPL unlocked; only for user-initiated OTASP – 0x01 - OTASP_STATUS_SPRC_RETRIES_EXCEEDED. SPC retries exceeded; only for user-initiated OTASP – 0x02 - OTASP_STATUS_AKEY_EXCHANGED.A-key exchanged; only for user-initiated O-TASP – 0x03 - OTASP_STATUS_SSD_UPDATED. SSD updated; for both user-initiated OTASP and network-initiated OTASP (OTAPA) – 0x04 - OTASP_STATUS_NAM_DOWNLOADED - NAM downloaded; only for user-initiated OTASP – 0x05 - OTASP_STATUS_MDN_DOWNLOADED - MDN downloaded; only for user-initiated OTASP – 0x06 - OTASP_STATUS_IMSI_DOWNLOADED - IMSI downloaded; only for user-initiated OTASP – 0x07 - OTASP_STATUS_PRL_DOWNLOADED - PRL downloaded; only for user-initiated OTASP – 0x08 - OTASP_STATUS_COMMITTED - Commit successful; only for user-initiated OTASP – 0x09 - OTASP_STATUS_OTAPA_STARTED - OTAPA started; only for network-initiated OTASP(OTAPA) – 0x0A - OTASP_STATUS_OTAPA_STOPPED - OTAPA stopped; only for network-initiated OTASP(OTAPA) – 0x0B - OTASP_STATUS_OTAPA_ABORTED - OTAPA aborted; only for network-initiated OTASP(OTAPA) – 0x0C - OTASP_STATUS_OTAPA_COMMITTED - OTAPA committed; only for network-initiated OTASP(OTAPA)

8.1541.2 Field Documentation

8.1541.2.1 BYTE voiceOTASPStatusInfo::callID

8.1541.2.2 BYTE voiceOTASPStatusInfo::OTASPStatus

8.1542 voicePrivacyInfo Struct Reference

Data Fields

- BYTE callID
- BYTE voicePrivacy

8.1542.1 Detailed Description

Contains the parameters passed for SLQSVoiceSetPrivacyChangeCallBack by the device.

Parameters

callID	• Unique identifier of the call for which the voice privacy is applicable. (mandatory)
voicePrivacy	• Voice Privacy (mandatory) – 0x00 - VOICE_PRIVACY_STANDARD - Standard privacy – 0x01 - VOICE_PRIVACY_ENHANCED - Enhanced privacy

Note

None

8.1542.2 Field Documentation

8.1542.2.1 BYTE voicePrivacyInfo::callID

8.1542.2.2 BYTE voicePrivacyInfo::voicePrivacy

8.1543 voiceSetAllCallStatusCbkInfo Struct Reference

Data Fields

- arrCallInfo arrCallInfomation
- arrRemotePartyNum * pArrRemotePartyNum
- arrRemotePartyName * pArrRemotePartyName
- arrAlertingType * pArrAlertingType
- arrSvcOption * pArrSvcOption
- arrCallEndReason * pArrCallEndReason
- arrAlphaID * pArrAlphaID
- arrConnectPartyNum * pArrConnectPartyNum
- arrDiagInfo * pArrDiagInfo
- arrCalledPartyNum * pArrCalledPartyNum
- arrRedirPartyNum * pArrRedirPartyNum
- arrAlertingPattern * pArrAlertingPattern

8.1543.1 Detailed Description

This structure contains VoiceCall Information parameters. arrCallInfomation will be populated in case of change in the call information. Other paramters are optional therefore are populated based on device and technology type being used.

Parameters

arrCallInfomation	[mandatory] • Array of Call Information This must be populated if Indication is received See arrCallInfo for more information. – Applicable for both "3GPP/3GPP2"
pArrRemote-PartyNum	[optional] • Array of Remote Party Name.(NULL when not present) See arrRemotePartyNum for more information. – Applicable only for "3GPP/3GPP2"

pArrRemote-PartyName	[optional] • Array of Alerting Type.(NULL when not present) See arrRemotePartyName for more information. – Applicable only for "3GPP"
pArrAlertingType	[optional] • Array of Alerting Type(NULL when not present) See arrAlertingType for more information. – Applicable only for "3GPP"
pArrSvcOption	[optional] • Array of Service Option.(NULL when not present) See arrSvcOption for more information. – Applicable only for "3GPP"
pArrCallEnd-Reason	[optional] • Array of Call End Reason.(NULL when not present) See arrCallEndReason for more information. – Applicable only for "3GPP"
pArrAlphaID	[optional] • Array of Alpha Identifier(NULL when not present) See arrAlphaID for more information. – Applicable only for "3GPP"
pArrConnect-PartyNum	[optional] • Array of Connected Party Number.(NULL when not present) See arrConnectPartyNum for more information. – Applicable for both "3GPP/3GPP2"
pArrDiagInfo	[optional] • Array of Diagnostic Information.(NULL when not present) See arrDiagInfo for more information. – Applicable only for "3GPP"
pArrCalledParty-Num	[optional] • Array of Called Party Number.(NULL when not present) See arrCalledPartyNum for more information. – Applicable only for "3GPP"
pArrRedirParty-Num	[optional] • Array of Redirecting Party Number.(NULL when not present) See arrRedirPartyNum for more information. – Applicable only for "3GPP"
pArrAlerting-Pattern	[optional] • Array of Alerting Pattern.(NULL when not present) See arrAlertingPattern for more information. – Applicable only for "3GPP"

Note

Optional paramters would be NULL, if not received from the device.

8.1543.2 Field Documentation

8.1543.2.1 arrCallInfo voiceSetAllCallStatusCbkInfo::arrCallInfomation

8.1543.2.2 arrAlertingPattern* voiceSetAllCallStatusCbkInfo::pArrAlertingPattern

8.1543.2.3 arrAlertingType* voiceSetAllCallStatusCbkInfo::pArrAlertingType

8.1543.2.4 arrAlphaID* voiceSetAllCallStatusCbkInfo::pArrAlphaID

8.1543.2.5 arrCalledPartyNum* voiceSetAllCallStatusCbkInfo::pArrCalledPartyNum

8.1543.2.6 arrCallEndReason* voiceSetAllCallStatusCbkInfo::pArrCallEndReason

8.1543.2.7 arrConnectPartyNum* voiceSetAllCallStatusCbkInfo::pArrConnectPartyNum

8.1543.2.8 arrDiagInfo* voiceSetAllCallStatusCbkInfo::pArrDiagInfo

8.1543.2.9 arrRedirPartyNum* voiceSetAllCallStatusCbkInfo::pArrRedirPartyNum

8.1543.2.10 arrRemotePartyName* voiceSetAllCallStatusCbkInfo::pArrRemotePartyName

8.1543.2.11 arrRemotePartyNum* voiceSetAllCallStatusCbkInfo::pArrRemotePartyNum

8.1543.2.12 arrSvcOption* voiceSetAllCallStatusCbkInfo::pArrSvcOption

8.1544 voiceSetCallBarringPwdInfo Struct Reference

Data Fields

- BYTE Reason
- BYTE oldPasswd [4]
- BYTE newPasswd [4]
- BYTE newPasswdAgain [4]

8.1544.1 Detailed Description

This structure contains Voice Set Call Barring Password Request Parameters

Parameters

Reason	• Call Barring Reason • Values: – 0x07 - QMI_VOICE_REASON_BARR_ALLOUTGOING - All outgoing – 0x08 - QMI_VOICE_REASON_BARR_OUTGOINGINT - Outgoing internal – 0x09 - QMI_VOICE_REASON_BARR_OUTGOINGINTEXTOHOME - Outgoing external to home – 0x0A - QMI_VOICE_REASON_BARR_ALLINCOMING - All incoming – 0x0B - QMI_VOICE_REASON_BARR_INCOMINGROAMING - Roaming incoming – 0x0C - QMI_VOICE_REASON_BARR_ALLBARRING - All calls are barred – 0x0D - QMI_VOICE_REASON_BARR_ALLOUTGOINGBARRING - All outgoing calls are barred – 0x0E - QMI_VOICE_REASON_BARR_ALLINCOMINGBARRING - All incoming calls are barred
oldPasswd[PASSWORD_LENGTH]	• Old password. – Password consists of 4 ASCII digits. – Range: 0000 to 9999.
newPasswd[PASSWORD_LENGTH]	• New password. – Password consists of 4 ASCII digits. – Range: 0000 to 9999.
newPasswdAgain[PASSWORD_LENGTH]	• New password Again. – Password consists of 4 ASCII digits. – Range: 0000 to 9999.

8.1544.2 Field Documentation

8.1544.2.1 BYTE voiceSetCallBarringPwdInfo::newPasswd[4]

8.1544.2.2 BYTE voiceSetCallBarringPwdInfo::newPasswdAgain[4]

8.1544.2.3 BYTE voiceSetCallBarringPwdInfo::oldPasswd[4]

8.1544.2.4 BYTE voiceSetCallBarringPwdInfo::Reason

8.1545 voiceSetCallBarringPwdResp Struct Reference

Data Fields

- WORD * pFailCause
- alphaIDInfo * pAlphaIDInfo
- BYTE * pCCResType
- BYTE * pCallID
- ccSUPSType * pCCSUPSType

8.1545.1 Detailed Description

This structure contains Voice Set Call Barring Password Response Parameters

Parameters

pFailCause	• Supplementary services failure cause (optional) • see qaGobiApiTableVoiceCallEndReasons.h for more information. • 0xFFFF,if Not Available
pAlphaIDInfo	• Pointer to structure of alphaIDInfo (optional) – See alphaIDInfo for more information
pCCResType	• Call Control Result Type (optional) – 0x00 - CC_RESULT_TYPE_VOICE - Voice – 0x01 - CC_RESULT_TYPE_SUPS - Supplementary service – 0x02 - CC_RESULT_TYPE_USSD - Unstructured supplementary service – 0xFF - Not Available
pCallID	• Call ID of the voice call that resulted from call control. (optional) • It is present when pCCResType is present and is Voice. • If zero(0) then invalid.
pCCSUPSType	• Supplementary service data that resulted from call control (optional) • Data is present when pCCResultType is present and is other than Voice. – See ccSUPSType for more information

Note

Using NULL for the pointers would make sure that the parameter is not returned or has default value.

8.1545.2 Field Documentation

8.1545.2.1 alphaIDInfo* voiceSetCallBarringPwdResp::pAlphaIDInfo

8.1545.2.2 BYTE* voiceSetCallBarringPwdResp::pCallID

8.1545.2.3 BYTE* voiceSetCallBarringPwdResp::pCCResType

8.1545.2.4 ccSUPSType* voiceSetCallBarringPwdResp::pCCSUPSType

8.1545.2.5 WORD* voiceSetCallBarringPwdResp::pFailCause

8.1546 voiceSetConfigReq Struct Reference

Data Fields

- BYTE * pAutoAnswer

- airTimer * pAirTimerConfig
- roamTimer * pRoamTimerConfig
- BYTE * pTTYMode
- prefVoiceSO * pPrefVoiceSO
- BYTE * pPrefVoiceDomain

8.1546.1 Detailed Description

This structure contains information about the Set Configuration Request Parameters.

Parameters

pAutoAnswer	• Value specified is written to NV_AUTO_ANSWER_I. (optional) • Values: – 0x00 - Disable – 0x01 - Enable
pAirTimerConfig	• Value specified is written to NV_AIR_CNT_I. (optional) • See airTimer for more information
pRoamTimer-Config	• Value specified is written to NV_ROAM_CNT_I. (optional) • See roamTimer for more information
pTTYMode	• Value specified is written to NV_TTY_I. (optional) • Values: – 0x00 - TTY_MODE_FULL - Full – 0x01 - TTY_MODE_VCO - Voice carry over – 0x02 - TTY_MODE_HCO - Hearing carry over – 0x03 - TTY_MODE_OFF - Off
pPrefVoiceSO	• Value specified is written to NV_PREF_VOICE_SO_I. (optional) • See prefVoiceSO for more information
pPrefVoice-Domain	• Preferred Voice-Domain. (optional) • Values: – 0x00 - VOICE_DOMAIN_PREF_CS_ONLY - Circuit-switched (CS) only – 0x01 - VOICE_DOMAIN_PREF_PS_ONLY - Packet-switched (PS) only – 0x02 - VOICE_DOMAIN_PREF_CS_PREF - CS is preferred, PS is secondary – 0x03 - VOICE_DOMAIN_PREF_PS_PREF - PS is preferred, CS is secondary

Note

One of the optional parameters must be present in the request.

8.1546.2 Field Documentation

8.1546.2.1 airTimer* voiceSetConfigReq::pAirTimerConfig

8.1546.2.2 BYTE* voiceSetConfigReq::pAutoAnswer

8.1546.2.3 BYTE* voiceSetConfigReq::pPrefVoiceDomain

8.1546.2.4 prefVoiceSO* voiceSetConfigReq::pPrefVoiceSO

8.1546.2.5 roamTimer* voiceSetConfigReq::pRoamTimerConfig

8.1546.2.6 BYTE* voiceSetConfigReq::pTTYMode

8.1547 voiceSetConfigResp Struct Reference

Data Fields

- BYTE * pAutoAnsStatus
- BYTE * pAirTimerStatus
- BYTE * pRoamTimerStatus
- BYTE * pTTYConfigStatus
- BYTE * pPrefVoiceSOStatus
- BYTE * pVoiceDomainPrefStatus

8.1547.1 Detailed Description

This structure contains information about the Set Configuration Response Parameters.

Parameters

pAutoAnsStatus	• Auto Answer Status. (optional) • Values: – 0x00 - Information was written successfully – 0x01 - Information write failed – 0xFF - Not Available.
pAirTimerStatus	• Air Timer Status. (optional) • Values: – 0x00 - Information was written successfully – 0x01 - Information write failed – 0xFF - Not Available.
pRoamTimer-Status	• Roam Timer Status. (optional) • Values: – 0x00 - Information was written successfully – 0x01 - Information write failed – 0xFF - Not Available.

pTTYConfig-Status	• TTY Config Status. (optional) • Values: – 0x00 - Information was written successfully – 0x01 - Information write failed – 0xFF - Not Available.
pPrefVoiceSO-Status	• Preferred Voice SO Status. (optional) • Values: – 0x00 - Information was written successfully – 0x01 - Information write failed – 0xFF - Not Available.
pVoiceDomain-PrefStatus	• Voice-Domain Preference Status. (optional) • Values: – 0x00 - Information was written successfully – 0x01 - Information write failed – 0xFF - Not Available.

Note

Parameters which are mentioned as NULL will be ignored.

8.1547.2 Field Documentation

8.1547.2.1 BYTE* voiceSetConfigResp::pAirTimerStatus

8.1547.2.2 BYTE* voiceSetConfigResp::pAutoAnsStatus

8.1547.2.3 BYTE* voiceSetConfigResp::pPrefVoiceSOStatus

8.1547.2.4 BYTE* voiceSetConfigResp::pRoamTimerStatus

8.1547.2.5 BYTE* voiceSetConfigResp::pTTYConfigStatus

8.1547.2.6 BYTE* voiceSetConfigResp::pVoiceDomainPrefStatus

8.1548 voiceSetPrefPrivacy Struct Reference

Data Fields

- BYTE privacyPref

8.1548.1 Detailed Description

This structure contains the preferred voice privacy values.

Parameters

privacyPref	• Voice Privacy Preference – 0x00 - VOICE_PRIVACY_STANDARD - Standard privacy – 0x01 - VOICE_PRIVACY_ENHANCED - Enhanced privacy

8.1548.2 Field Documentation

8.1548.2.1 BYTE voiceSetPrefPrivacy::privacyPref

8.1549 voiceSetSUPSServiceReq Struct Reference

Data Fields

- BYTE voiceSvc
- BYTE reason
- BYTE * pServiceClass
- BYTE * pCallBarringPasswd
- BYTE * pCallForwardingNumber
- BYTE * pTimerVal
- callFwdTypeAndPlan * pCallFwdTypeAndPlan

8.1549.1 Detailed Description

This structure contains Supplementary Service request parameters related to different features and their activation, deactivation, registration and erasure (applicable only for 3GPP)

Parameters

voiceSvc	• Manages all call-independent supplementary services, such as activation, deactivation, registration, and erasure (mandatory) – 0x01 - VOICE_SERVICE_ACTIVATE – 0x02 - VOICE_SERVICE_DEACTIVATE – 0x03 - VOICE_SERVICE_REGISTER – 0x04 - VOICE_SERVICE_ERASE
reason	• supplementary service reason values (mandatory) – 0x01 - QMI_VOICE_REASON_FWD_UNCONDITIONAL Unconditional call forwarding – 0x02 - QMI_VOICE_REASON_FWD_MOBILEBUSY Forward when the mobile is busy – 0x03 - QMI_VOICE_REASON_FWD_NOREPLY Forward when there is no reply – 0x04 - QMI_VOICE_REASON_FWD_UNREACHABLE Forward when the call is unreachable – 0x05 - QMI_VOICE_REASON_FWD_ALLFORWARDING All forwarding – 0x06 - QMI_VOICE_REASON_FWD_ALLCONDITIONAL All conditional forwarding – 0x07 - QMI_VOICE_REASON_BARR_ALLOUTGOING All outgoing calls are barred – 0x08 - QMI_VOICE_REASON_BARR_OUTGOINGINT Outgoing internal calls are barred – 0x09 - QMI_VOICE_REASON_BARR_OUTGOINGINTEXTOHOME Outgoing calls external to home are barred – 0x0A - QMI_VOICE_REASON_BARR_ALLINCOMING All incoming calls are barred – 0x0B - QMI_VOICE_REASON_BARR_INCOMINGROAMING Roaming incoming calls are barred – 0x0C - QMI_VOICE_REASON_BARR_ALLBARRING All calls are barred – 0x0D - QMI_VOICE_REASON_BARR_ALLOUTGOINGBARRING All outgoing calls are barred – 0x0E - QMI_VOICE_REASON_BARR_ALLINCOMINGBARRING All incoming calls are barred – 0x0F - QMI_VOICE_REASON_CALLWAITING Call waiting
pServiceClass	• Service class is a combination (sum) of information class constants (optional) – See serviceClassInformation for more information
pCallBarring-Passwd	• Password is required if call barring is provisioned using a password. Password consists of 4 ASCII digits. Range: 0000 to 9999 (optional)

pCallForwarding-Number	• Call forwarding number to be registered with the network. This has to be included in the request only when the service is set to VOICE_SERVICE_REGISTER. NULL terminated ASCII string. (optional)
pTimerVal	• Call forwarding no reply timer value in seconds. This has to be included in the request only when the service is set to VOICE_SERVICE_REGISTER and the reason is QMI_VOICE_REASON_FWD_NOREPLY. (optional) – Range: 5 to 30 in steps of 5
pCallFwdType-AndPlan	• Information about call forwarding type and plan. This parameter is ignored when the Call Forwarding Number is not included (optional) – See callFwdTypeAndPlan for more information

8.1549.2 Field Documentation

8.1549.2.1 BYTE* voiceSetSUPSServiceReq::pCallBarringPasswd

8.1549.2.2 BYTE* voiceSetSUPSServiceReq::pCallForwardingNumber

8.1549.2.3 callFwdTypeAndPlan* voiceSetSUPSServiceReq::pCallFwdTypeAndPlan

8.1549.2.4 BYTE* voiceSetSUPSServiceReq::pServiceClass

8.1549.2.5 BYTE* voiceSetSUPSServiceReq::pTimerVal

8.1549.2.6 BYTE voiceSetSUPSServiceReq::reason

8.1549.2.7 BYTE voiceSetSUPSServiceReq::voiceSvc

8.1550 voiceSetSUPSServiceResp Struct Reference

Data Fields

- WORD * pFailCause
- alphaIDInfo * pAlphaIDInfo
- BYTE * pCCResultType
- BYTE * pCallID
- ccSUPSType * pCCSUPSType

8.1550.1 Detailed Description

This structure contains Supplementary Service response parameters related to different features and their activation, deactivation, registration and erasure (applicable only for 3GPP)

Parameters

pFailCause	• Supplementary service failure causes (optional, supply NULL if not required). – 0xFFFF is the value when the information is not received from device

pAlphaIDInfo	• Pointer to structure of alphaIDInfo. The parameter used to pass the alpha (if any) given by the SIM/R-UIM after call control (optional, supply NULL if not required) – See alphaIDInfo for more information
pCCResultType	• Call control result types (optional, supply NULL if not required) – 0x00 - CC_RESULT_TYPE_VOICE - Voice – 0x01 - CC_RESULT_TYPE_SUPS - Supplementary service – 0x02 - CC_RESULT_TYPE_USSD - Unstructured supplementary service – 0xFF - if the device does not provide this information
pCallID	• Unique call identifier for the dialed call (optional, supply NULL if not required) – 0x00 - if the device does not provide this information
pCCSUPSType	• Data is present when pCCResultType is present and is other than Voice. (optional, supply NULL if not required) – See ccSUPSType for more information

8.1550.2 Field Documentation

8.1550.2.1 alphaIDInfo* voiceSetSUPSServiceResp::pAlphaIDInfo

8.1550.2.2 BYTE* voiceSetSUPSServiceResp::pCallID

8.1550.2.3 BYTE* voiceSetSUPSServiceResp::pCCResultType

8.1550.2.4 ccSUPSType* voiceSetSUPSServiceResp::pCCSUPSType

8.1550.2.5 WORD* voiceSetSUPSServiceResp::pFailCause

8.1551 voiceStopContDTMFinfo Struct Reference

Data Fields

- BYTE callID

8.1551.1 Detailed Description

This structure contains parameters of stop continuous DTMF

Parameters

pCallID[IN/OUT]	• Call ID associated with call on which the DTMF information has to be sent. Stop continuous DTMF request is sent to the current active/alerting call when pCallId is set to 0xFF. • This is IN/OUT parameter, value passed by user will be packed in request and value received from the device would be returned to the user. • If the call ID value received is 0, no value has been returned by the device

8.1551.2 Field Documentation

8.1551.2.1 BYTE voiceStopContDTMFinfo::callID

8.1552 voiceSUPSInfo Struct Reference

Data Fields

- SUPSInfo SUPSInformation
- BYTE * pSvcClass
- BYTE * pReason
- BYTE * pCallFWNum
- BYTE * pCallFWTimerVal
- struct USSInfo * pUSSInfo
- BYTE * pCallID
- alphaIDInfo * pAlphaIDInfo
- BYTE * pCallBarPasswd
- newPwdData * pNewPwdData
- BYTE * pDataSrc
- WORD * pFailCause
- getCallFWInfo * pCallFwdInfo
- CLIRResp * pCLIRstatus
- CLIPResp * pCLIPstatus
- COLPResp * pCOLPstatus
- COLRResp * pCOLRstatus
- CNAPResp * pCNAPstatus

8.1552.1 Detailed Description

This structure contains the parameters passed for SLQSVoiceSetSUPSCallBack by the device.

Parameters

SUPS-Information(mandatory)	See SUPSInfo for more information.
pSvc-Class(optional)	• Service class is a combination (sum) of information class constants (optional) • See qaGobiApiTableSupServiceInfoClasses.h for service classes.
p-Reason(optional)	• See qaGobiApiTableCallControlReturnReasons.h for return reasons.

pCallFW-Num(optional)	• Call forwarding number to be registered with the network. • ASCII String, NULL terminated.
pCallFWTimer-Val(optional)	• Call Forwarding No Reply Timer. – Range: 5 to 30 in steps of 5.
pUSS-Info(optional)	• See USSInfo for more information.
pCallID(optional)	• Call identifier of the voice call that has been modified to a supplementary service as a result of call control.
pAlphaID-Info(optional)	• See alphaIDInfo for more information.
pCallBar-Passwd(optional)	• Password is required if call barring is provisioned using a password. – Password consists of 4 ASCII digits. – Range: 0000 to 9999. • This also serves as the old password in the register password scenario.
pNewPwd-Data(optional)	• See newPwdData for more information.
pData-Src(optional)	• Sups Data Source. • Used to distinguish between the supplementary service data sent to the network and the response received from the network. • If absent, the supplementary service data in this indication can be assumed as a request sent to the network.
pFail-Cause(optional)	• Supplementary services failure cause. • See qaGobiApiTableVoiceCallEndReasons.h for more information.
pCallFwd-Info(optional)	• See getCallFWInfo for more information.
pCLI-Rstatus(optional)	• See CLIRResp for more information.
pCLI-Pstatus(optional)	• See CLIPResp for more information.
pCOL-Pstatus(optional)	• See COLPResp for more information.
pCOL-Rstatus(optional)	• See COLRResp for more information.

pCNA-Pstatus(optional)	• See CNAPResp for more information.

Note

None

8.1552.2 Field Documentation

8.1552.2.1 alphaIDInfo∗ voiceSUPSInfo::pAlphaIDInfo

8.1552.2.2 BYTE∗ voiceSUPSInfo::pCallBarPasswd

8.1552.2.3 getCallFWInfo∗ voiceSUPSInfo::pCallFwdInfo

8.1552.2.4 BYTE∗ voiceSUPSInfo::pCallFWNum

8.1552.2.5 BYTE∗ voiceSUPSInfo::pCallFWTimerVal

8.1552.2.6 BYTE∗ voiceSUPSInfo::pCallID

8.1552.2.7 CLIPResp∗ voiceSUPSInfo::pCLIPstatus

8.1552.2.8 CLIRResp∗ voiceSUPSInfo::pCLIRstatus

8.1552.2.9 CNAPResp∗ voiceSUPSInfo::pCNAPstatus

8.1552.2.10 COLPResp∗ voiceSUPSInfo::pCOLPstatus

8.1552.2.11 COLRResp∗ voiceSUPSInfo::pCOLRstatus

8.1552.2.12 BYTE∗ voiceSUPSInfo::pDataSrc

8.1552.2.13 WORD∗ voiceSUPSInfo::pFailCause

8.1552.2.14 newPwdData∗ voiceSUPSInfo::pNewPwdData

8.1552.2.15 BYTE∗ voiceSUPSInfo::pReason

8.1552.2.16 BYTE∗ voiceSUPSInfo::pSvcClass

8.1552.2.17 struct USSInfo∗ voiceSUPSInfo::pUSSInfo

8.1552.2.18 SUPSInfo voiceSUPSInfo::SUPSInformation

8.1553 voiceSUPSNotification Struct Reference

Data Fields

- BYTE callID
- BYTE notifType
- WORD ∗ pCUGIndex
- ECTNum ∗ pECTNum

8.1553.1 Detailed Description

Contains the parameters passed for SLQSVoiceSetSUPSNotificationCallback by the device.

Parameters

callID	• Unique identifier of the call for which the notification is applicable. (mandatory)
notifType	• Notification type parameter (mandatory) – 0x01 - NOTIFICATION_TYPE_OUTGOING_CALL_IS_FORWARDED Originated MO call is being forwarded to another user – 0x02 - NOTIFICATION_TYPE_OUTGOING_CALL_IS_WAITING Originated MO call is waiting at the called user – 0x03 - NOTIFICATION_TYPE_OUTGOING_CUG_CALL Outgoing call is a CUG call – 0x04 - NOTIFICATION_TYPE_OUTGOING_CALLS_BARRED Outgoing calls are barred – 0x05 - NOTIFICATION_TYPE_OUTGOING_CALL_IS_DEFLECTED Outgoing call is deflected – 0x06 - NOTIFICATION_TYPE_INCOMING_CUG_CALL Incoming call is a CUG call – 0x07 - NOTIFICATION_TYPE_INCOMING_CALLS_BARRED Incoming calls are barred – 0x08 - NOTIFICATION_TYPE_INCOMING_FORWARDED_CALL Incoming call received is a forwarded call – 0x09 - NOTIFICATION_TYPE_INCOMING_DEFLECTED_CALL Incoming call is a deflected call – 0x0A - NOTIFICATION_TYPE_INCOMING_CALL_IS_FORWARDED Incoming call is forwarded to another user – 0x0B - NOTIFICATION_TYPE_UNCOND_CALL_FORWARD_ACTIVE Unconditional call forwarding is active – 0x0C - NOTIFICATION_TYPE_COND_CALL_FORWARD_ACTIVE Conditional call forwarding is active – 0x0D - NOTIFICATION_TYPE_CLIR_SUPPRESSION_REJECTED CLIR suppression is rejected – 0x0E - NOTIFICATION_TYPE_CALL_IS_ON_HOLD Call is put on hold at the remote party – 0x0F - NOTIFICATION_TYPE_CALL_IS_RETRIEVED Call is retrieved at the remote party from the hold state – 0x10 - NOTIFICATION_TYPE_CALL_IS_IN_MPTY Call is in a conference – 0x11 - NOTIFICATION_TYPE_INCOMING_CALL_IS_ECT Incoming call is an explicit call transfer
pCUGIndex	• The CUG Index used to indicate that the incoming/outgoing call is a CUG call. (optional, NULL when not present) Range: 0x00 to 0x7FFF.
pECTNum	• The ECT Number is used to indicate that the incoming call is an explicitly transferred call. (optional, NULL when not present) Refer ECTNum for details.

Note

None

8.1553.2 Field Documentation

8.1553.2.1 BYTE voiceSUPSNotification::callID

8.1553.2.2 BYTE voiceSUPSNotification::notifType

8.1553.2.3 WORD* voiceSUPSNotification::pCUGIndex

8.1553.2.4 ECTNum* voiceSUPSNotification::pECTNum

8.1554 wcdmaCellInfo Struct Reference

Data Fields

- WORD psc
- SHORT cpich_rscp
- SHORT cpich_ecno
- SHORT srxlev

8.1554.1 Detailed Description

This structure contains information about the WCDMA Cell.

Parameters

psc	• Primary scrambling code. • Range: 0 to 511.
cpich_rscp	• Absolute power level (in 1/10 dBm) of the common pilot channel as received by the UE. • Range: -120.0 dBm to -25.0 dBm
cpich_ecno	• CPICH Ec/No; ratio (in 1/10 dB) of the received energy per PN chip for the CPICH to the total received power spectral density at the UE antenna connector. • Range: -50.0 dB to 0.
srxlev	• Cell selection Rx level (Srxlev) value. • Range: -128 to 128. • This field is only valid when ue_in_idle is TRUE.

8.1554.2 Field Documentation

8.1554.2.1 SHORT wcdmaCellInfo::cpich_ecno

8.1554.2.2 SHORT wcdmaCellInfo::cpich_rscp

8.1554.2.3 WORD wcdmaCellInfo::psc

8.1554.2.4 SHORT wcdmaCellInfo::srxlev

8.1555 WCDMAECIOThresh Struct Reference

Data Fields

- BYTE WCDMAECIOThreshListLen
- WORD * pWCDMAECIOThreshList

8.1555.1 Detailed Description

This structure contains WCDMA ECIO threshold related parameters.

Parameters

WCDMAECIO-ThreshListLen	• Length of the WCDMA ECIO threshold list parameter to follow
pWCDMAECIO-ThreshList	• Array of ECIO thresholds (in units of 0.1 dB) • Maximum of 32 values • Range for ECIO values: -31.5 to 0 (in dB)

8.1555.2 Field Documentation

8.1555.2.1 WORD* WCDMAECIOThresh::pWCDMAECIOThreshList

8.1555.2.2 BYTE WCDMAECIOThresh::WCDMAECIOThreshListLen

8.1556 WCDMAInfoLTENeighborCell Struct Reference

Data Fields

- ULONG wcdmaRRCState
- BYTE umtsLTENbrCellLen
- umtsLTENbrCell UMTSLTENbrCell [255]

8.1556.1 Detailed Description

This structure contains information about the WCDMA - LTE Neighboring Cell Info Set.

Parameters

wcdmaRRC-State	• WCDMA RRC states. • Defined in 3GPP TS 25.331 • Values: – 0x00 - NAS_WCDMA_RRC_STATE_DISCONNECTED * WCDMA RRC State is IDLE – 0x01 - NAS_WCDMA_RRC_STATE_CELL_PCH * WCDMA RRC state is CELL_PCH – 0x02 - NAS_WCDMA_RRC_STATE_URA_PCH * WCDMA RRC state is URA_PCH – 0x03 - NAS_WCDMA_RRC_STATE_CELL_FACH * WCDMA RRC state is CELL_FACH – 0x04 - NAS_WCDMA_RRC_STATE_CELL_DCH * WCDMA RRC state is CELL_DCH
umtsLTENbr-CellLen	• Number of sets of UMTS LTE Neighbors.
UMTSLTENbr-Cell	• See umtsLTENbrCell for more information.

8.1556.2 Field Documentation

8.1556.2.1 umtsLTENbrCell WCDMAInfoLTENeighborCell::UMTSLTENbrCell[255]

8.1556.2.2 BYTE WCDMAInfoLTENeighborCell::umtsLTENbrCellLen

8.1556.2.3 ULONG WCDMAInfoLTENeighborCell::wcdmaRRCState

8.1557 wcdmaLongMsgDecodingParams Struct Reference

Data Fields

- BYTE * pMessage
- BYTE * pSenderAddrLength
- CHAR * pSenderAddr
- BYTE * pTextMsgLength
- CHAR * pTextMsg
- BYTE * pScAddrLength
- CHAR * pScAddr
- BYTE Time [0x09]
- BYTE Date [0x09]
- BYTE * pReferenceNum
- BYTE * pTotalNum
- BYTE * pPartNum
- BOOL * pIsUDHPresent

8.1557.1 Detailed Description

Structure contains parameters which need to be decoded from message

Parameters

pMessage[IN]	• Message read off the device via SLQSGetSMS
pSenderAddr-Length[IN/OUT]	• Upon input, indicates the maximum number of ASCII characters (including NULL termination) that the pSenderAddr buffer can accommodate. A length with 24 will be much safe since this address filed can be up to 12 octets (24 bytes) Upon successful output, returns the length of destination address string.
pSenderAddr[O-UT]	• Note that a length with 24 bytes will be much safe. Returns NULL-terminated ASCII String containing destination address This field contains the Type of Address. To get the exact address, skip the first two bytes. e.g, 9085290100334, 90 is the Type of Address, indicates international format of phone number
pTextMsg-Length[IN/OUT]	• Upon input, specifies the number of characters the given text message buffer can accommodate. Upon successful output, returns the number of characters returns in the given text message buffer.
pTextMsg[OUT]	• Encoded PDU message
pScAddrLength[-IN/OUT]	• A length with 24 will be much safe since this address filed can be up to 12 octets (24 bytes) Returns NULL-terminated ASCII String containing destination address
pScAddr[OUT]	• Note that a length with 24 bytes will be much safe. Returns NULL-terminated ASCII String containing service center address. This SMSC field contains the Type of Address. To get the exact SMSC address, skip the first two bytes. e.g, 9085290100334, 90 is the Type of Address, indicates international format of phone number
pTime[OUT]	• Time fecthed from message
pReference-Num[OUT]	• Reference number of the sms
pTotalNum[OUT]	• Total number of the concatenated message
pPartNum[OUT]	• Sequence number of the current message
pIsUDHPresent	• Is User Data Header Prensent in the PDU? If yes, it means it is a • concatenated SMS.

8.1557.2 Field Documentation

8.1557.2.1 BYTE wcdmaLongMsgDecodingParams::Date[0x09]

8.1557.2.2 BOOL∗ wcdmaLongMsgDecodingParams::pIsUDHPresent

8.1557.2.3 BYTE∗ wcdmaLongMsgDecodingParams::pMessage

8.1557.2.4 BYTE∗ wcdmaLongMsgDecodingParams::pPartNum

8.1557.2.5 BYTE∗ wcdmaLongMsgDecodingParams::pReferenceNum

8.1557.2.6 CHAR∗ wcdmaLongMsgDecodingParams::pScAddr

8.1557.2.7 BYTE∗ wcdmaLongMsgDecodingParams::pScAddrLength

8.1557.2.8 CHAR∗ wcdmaLongMsgDecodingParams::pSenderAddr

8.1557.2.9 BYTE∗ wcdmaLongMsgDecodingParams::pSenderAddrLength

8.1557.2.10 CHAR∗ wcdmaLongMsgDecodingParams::pTextMsg

8.1557.2.11 BYTE∗ wcdmaLongMsgDecodingParams::pTextMsgLength

8.1557.2.12 BYTE∗ wcdmaLongMsgDecodingParams::pTotalNum

8.1557.2.13 BYTE wcdmaLongMsgDecodingParams::Time[0x09]

8.1558 wcdmaMsgDecodingParams Struct Reference

Data Fields

- BYTE ∗ pMessage
- BYTE ∗ pSenderAddrLength
- CHAR ∗ pSenderAddr
- BYTE ∗ pTextMsgLength
- CHAR ∗ pTextMsg
- BYTE ∗ pScAddrLength
- CHAR ∗ pScAddr
- BYTE Time [0x09]
- BYTE Date [0x09]

8.1558.1 Detailed Description

Structure contains parameters which need to be decoded from message

Parameters

pMessage[IN]	• Message read off the device via SLQSGetSMS
pSenderAddr-Length[IN/OUT]	• Upon input, indicates the maximum number of ASCII characters (including NULL termination) that the pSenderAddr buffer can accommodate. A length with 24 will be much safe since this address filed can be up to 12 octets (24 bytes) Upon successful output, returns the length of destination address string.

pSenderAddr[OUT]	• Note that a length with 24 bytes will be much safe. Returns NULL-terminated ASCII String containing destination address
pTextMsgLength[IN/OUT]	• Upon input, specifies the number of characters the given text message buffer can accommodate. Upon successful output, returns the number of characters returns in the given text message buffer.
pTextMsg[OUT]	• Encoded PDU message
pScAddrLength[IN/OUT]	• A length with 24 will be much safe since this address filed can be up to 12 octets (24 bytes) Returns NULL-terminated ASCII String containing destination address
pScAddr[OUT]	• Note that a length with 24 bytes will be much safe. Returns NULL-terminated ASCII String containing service center address. This SMSC field contains the Type of Address. To get the exact SMSC address, skip the first two bytes. e.g, 9085290100334, 90 is the Type of Address, indicates international format of phone number
pTime[OUT]	• Time fecthed from message
pDate	• Date fecthed from message

8.1558.2 Field Documentation

8.1558.2.1 BYTE wcdmaMsgDecodingParams::Date[0x09]

8.1558.2.2 BYTE* wcdmaMsgDecodingParams::pMessage

8.1558.2.3 CHAR* wcdmaMsgDecodingParams::pScAddr

8.1558.2.4 BYTE* wcdmaMsgDecodingParams::pScAddrLength

8.1558.2.5 CHAR* wcdmaMsgDecodingParams::pSenderAddr

8.1558.2.6 BYTE* wcdmaMsgDecodingParams::pSenderAddrLength

8.1558.2.7 CHAR* wcdmaMsgDecodingParams::pTextMsg

8.1558.2.8 BYTE* wcdmaMsgDecodingParams::pTextMsgLength

8.1558.2.9 BYTE wcdmaMsgDecodingParams::Time[0x09]

8.1559 wcdmaMsgEncodingParams Struct Reference

Data Fields

- ULONG messageSize
- CHAR * pDestAddr
- CHAR * pTextMsg
- CHAR * pPDUMessage
- BYTE alphabet

8.1559.1 Detailed Description

Structure contains parameters which need to encoded with message

Parameters

messageSize	• The length of the message contents in bytes
pDestAddr[IN]	• Gives NULL-terminated ASCII String containing destination address
pTextMsg[IN]	• Text message to be encoded, maximum limit is 160 charaters
pPDUMessage[-OUT]	• Encoded PDU message
alphabet[IN]	• Encoding method to generate the PDU – 0 - 7 bit encoding – 4 - 8 bit encoding – 8 - 16 bit UCS2 encoding – others value will be treated as default 7 bit encoding

8.1559.2 Field Documentation

8.1559.2.1 BYTE wcdmaMsgEncodingParams::alphabet

8.1559.2.2 ULONG wcdmaMsgEncodingParams::messageSize

8.1559.2.3 CHAR* wcdmaMsgEncodingParams::pDestAddr

8.1559.2.4 CHAR* wcdmaMsgEncodingParams::pPDUMessage

8.1559.2.5 CHAR* wcdmaMsgEncodingParams::pTextMsg

8.1560 WCDMARSSIThresh Struct Reference

Data Fields

- BYTE WCDMARSSIThreshListLen
- WORD * pWCDMARSSIThreshList

8.1560.1 Detailed Description

This structure contains WCDMA RSSI threshold related parameters.

Parameters

WCDMARSSI-ThreshListLen	• Length of the WCDMA RSSI threshold list parameter to follow
pWCDMARSSI-ThreshList	• Array of RSSI thresholds (in units of 0.1 dBm) • Maximum of 32 values. • Range for RSSI values: -121 to 0 (in dBm)

8.1560.2 Field Documentation

8.1560.2.1 WORD* WCDMARSSIThresh::pWCDMARSSIThreshList

8.1560.2.2 BYTE WCDMARSSIThresh::WCDMARSSIThreshListLen

8.1561 WCDMASysInfo Struct Reference

Data Fields

- sysInfoCommon sysInfoWCDMA
- BYTE lacValid
- WORD lac
- BYTE cellIdValid
- ULONG cellId
- BYTE regRejectInfoValid
- BYTE rejectSrvDomain
- BYTE rejCause
- BYTE networkIdValid
- BYTE MCC [3]
- BYTE MNC [3]
- BYTE hsCallStatusValid
- BYTE hsCallStatus
- BYTE hsIndValid
- BYTE hsInd
- BYTE pscValid
- WORD psc

8.1561.1 Detailed Description

Structure for storing the WCDMA System Information.

Parameters

sysInfoWCDMA	• See sysInfoCommon for more information.

lacValid	• Indicates whether the location area code is valid.. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
lac	• Location area code. • Only applies to 3GPP. – 0xFFFF - Not Available
cellIdValid	• Indicates whether the cell ID is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
cellId	• Cell ID. – 0xFFFFFFFF - Not Available
regRejectInfo-Valid	• Indicates whether the registration reject information is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
rejectSrvDomain	• Type of service domain in which the registration is rejected. – 0x00 - SYS_SRV_DOMAIN_NO_SRV - No service – 0x01 - Circuit-switched only – 0x02 - Packet-switched only – 0x03 - Circuit-switched and packet-switched – 0x04 - Camped – 0xFF - Not Available
rejCause	• Reject cause values sent are specified in [3GPP TS 24.008, Section 10.5.3.6]. – 0xFF - Not Available
networkIdValid	• Indicates whether the network ID is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
MCC[PLMN_LE-NGTH]	• Mobile Country Code. • MCC digits in ASCII characters

MNC[PLMN_LENGTH]	• Mobile Network Code. • MNC digits in ASCII characters • An unused byte is set to 0xFF. • In case of two-digit MNC values, the third (unused) digit is set to 0xFF. For example, 15 (a two-digit MNC) is reported using the byte stream 0x31 0x35 0xFF.
hsCallStatusValid	• Indicates whether the high-speed call status is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
hsCallStatus	• Call status on high speed. • Only applicable for WCDMA. – 0x00 - HSDPA and HSUPA are unsupported – 0x01 - HSDPA is supported – 0x02 - HSUPA is supported – 0x03 - HSDPA and HSUPA are supported – 0x04 - HSDPA+ is supported – 0x05 - HSDPA+ and HSUPA are supported – 0x06 - Dual-cell HSDPA+ is supported – 0x07 - Dual-cell HSDPA+ and HSUPA are supported – 0xFF - Not Available
hsIndValid	• Indicates whether high-speed service indication is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available
hsInd	• High-speed service indication • Only applicable for WCDMA. – 0x00 - HSDPA and HSUPA are unsupported – 0x01 - HSDPA is supported – 0x02 - HSUPA is supported – 0x03 - HSDPA and HSUPA are supported – 0x04 - HSDPA+ is supported – 0x05 - HSDPA+ and HSUPA are supported – 0x06 - Dual-cell HSDPA+ is supported – 0x07 - Dual-cell HSDPA+ and HSUPA are supported – 0xFF - Not Available
pscValid	• Indicates whether primary scrambling code is valid. – 0x00 - Invalid – 0x01 - Valid – 0xFF - Not Available

psc	• Primary scrambling code. – 0xFFFF - Not Available

8.1561.2 Field Documentation

8.1561.2.1 ULONG WCDMASysInfo::cellId

8.1561.2.2 BYTE WCDMASysInfo::cellIdValid

8.1561.2.3 BYTE WCDMASysInfo::hsCallStatus

8.1561.2.4 BYTE WCDMASysInfo::hsCallStatusValid

8.1561.2.5 BYTE WCDMASysInfo::hsInd

8.1561.2.6 BYTE WCDMASysInfo::hsIndValid

8.1561.2.7 WORD WCDMASysInfo::lac

8.1561.2.8 BYTE WCDMASysInfo::lacValid

8.1561.2.9 BYTE WCDMASysInfo::MCC[3]

8.1561.2.10 BYTE WCDMASysInfo::MNC[3]

8.1561.2.11 BYTE WCDMASysInfo::networkIdValid

8.1561.2.12 WORD WCDMASysInfo::psc

8.1561.2.13 BYTE WCDMASysInfo::pscValid

8.1561.2.14 BYTE WCDMASysInfo::regRejectInfoValid

8.1561.2.15 BYTE WCDMASysInfo::rejCause

8.1561.2.16 BYTE WCDMASysInfo::rejectSrvDomain

8.1561.2.17 sysInfoCommon WCDMASysInfo::sysInfoWCDMA

8.1562 wcdmaUARFCN Struct Reference

Data Fields

- BYTE status
- ULONG uarfcn

8.1562.1 Detailed Description

This structure contains the parameters for WCDMA UARFCN.

Parameters

status	• 0 - Disable • 1 - Enable
uarfcn	• UARFCN to which UE is locked

8.1562.2 Field Documentation

8.1562.2.1 BYTE wcdmaUARFCN::status

8.1562.2.2 ULONG wcdmaUARFCN::uarfcn

8.1563 wds_channelRate Struct Reference

Data Fields

- uint32_t CurrChanTxRate
- uint32_t CurrChanRxRate

8.1563.1 Detailed Description

This structure contains Channel Rate

Parameters

CurrChanTxRate	• Max channel Tx rate in bits per second
CurrChanRx-Rate	• Max channel Rx rate in bits per second

8.1563.2 Field Documentation

8.1563.2.1 uint32_t wds_channelRate::CurrChanRxRate

8.1563.2.2 uint32_t wds_channelRate::CurrChanTxRate

8.1564 wds_ChannelRateTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- wds_channelRate ChannelRate

8.1564.1 Detailed Description

This structure stores information about channel rate TLV.

Parameters

TlvPresent	• value is 1 if this TLV is present in indication, otherwise 0
ChannelRate	• see wds_channelRate for more info

8.1564.2 Field Documentation

8.1564.2.1 wds_channelRate wds_ChannelRateTlv::ChannelRate

8.1564.2.2 uint8_t wds_ChannelRateTlv::TlvPresent

8.1565 wds_ConnStatusTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint8_t MDMConnStatus

8.1565.1 Detailed Description

This structure stores information about modem connection status TLV.

Parameters

TlvPresent	• value is 1 if this TLV is present in indication, otherwise 0
MDMConn-Status	-Modem connecton status • 0x01 - disconnected • 0x02 - connected

8.1565.2 Field Documentation

8.1565.2.1 uint8_t wds_ConnStatusTlv::MDMConnStatus

8.1565.2.2 uint8_t wds_ConnStatusTlv::TlvPresent

8.1566 wds_currNetworkInfo Struct Reference

Data Fields

- uint8_t NetworkType
- uint32_t RATMask
- uint32_t SOMask

8.1566.1 Detailed Description

Network information structure

Parameters

NetworkType	• Values: – 0 - 3GPP – 1 - 3GPP2
RATMask	• Radio Access Technology (RAT) mask to indicate the type of technology. • Values: – 0 - Don't Care – 0x8000 - NULL Bearer • CDMA RAT mask values: – 0x01 - CDMA_1x – 0x02 - EVDO_REV0 – 0x05 - HRPD – 0x0B - EHRPD • UMTS RAT mask values: – 0x03 - GPRS – 0x04 - WCDMA – 0x06 - EDGE – 0x07 - HSDPA and WCDMA – 0x08 - HSUPA and WCDMA – 0x08 - HSDPA and HSUPA – 0x0A - LTE – 0x0C - HSDPA+ and WCDMA – 0x0D - HSDPA+ and HSUPA – 0x0E - DC_HSDPA+ and WCDMA – 0x0F - DC_HSDPA+ and HSUPA

SOMask	• Service Option (SO) mask to indicate the service option or type of application. • Values: – 0 - Don't Care • CDMA 1x SO mask values: – 0x01 - CDMA_1X_IS95 – 0x02 - CDMA_1X_IS2000 – 0x04 - CDMA_1X_IS2000_REL_A • CDMA EV-DO Rev 0 SO mask values: – 0x01 - DPA • CDMA EV-DO Rev A SO mask values: – 0x01 - DPA – 0x02 - MFPA – 0x04 - EMPA – 0x08 - EMPA_EHRPD • CDMA EV-DO Rev B SO mask values: – 0x01 - DPA – 0x02 - MFPA – 0x04 - EMPA – 0x08 - EMPA_EHRPD – 0x10 - MMPA – 0x20 - MMPA_EHRPD

8.1566.2 Field Documentation

8.1566.2.1 uint8_t wds_currNetworkInfo::NetworkType

8.1566.2.2 uint32_t wds_currNetworkInfo::RATMask

8.1566.2.3 uint32_t wds_currNetworkInfo::SOMask

8.1567 wds_DataBearTechTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint8_t DataBearerTech

8.1567.1 Detailed Description

This structure hold parameters about data bearer technology TLV.

Parameters

TlvPresent	• value is 1 if this TLV is present in indication, otherwise 0

DataBearerTech	• Data bear technology – 0x01 - cdma2000 1X – 0x02 - cdma2000 HRPD (1xEV-DO) – 0x03 - GSM – 0x04 - UMTS – 0x05 - cdma200 HRPD (1xEV-DO RevA) – 0x06 - EDGE – 0x07 - HSDPA and WCDMA – 0x08 - WCDMA and HSUPA – 0x09 - HSDPA and HSUPA – 0x0A - LTE – 0x0B - cdma2000 EHRPD – 0x0C - HSDPA+ and WCDMA – 0x0D - HSDPA+ and HSUPA – 0x0E - DC_HSDPA+ and WCDMA – 0x0F - DC_HSDPA+ and HSUPA – 0x10 - HSDPA+ and 64QAM – 0x11 - HSDPA+, 64QAM and HSUPA – 0x12 - TDSCDMA – 0x13 - TDSCDMA and HSDPA – 0xFF - Unknown

8.1567.2 Field Documentation

8.1567.2.1 uint8_t wds_DataBearerTechTlv::DataBearerTech

8.1567.2.2 uint8_t wds_DataBearerTechTlv::TlvPresent

8.1568 wds_DataULongLongTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint64_t ullData

8.1568.1 Detailed Description

This structure contains Data unsigned long long TLV data.

Parameters

TlvPresent	a flag indicates whether TLV presented or not
ullData	unsigend long long data in 64bit

8.1568.2 Field Documentation

8.1568.2.1 uint8_t wds_DataULongLongTlv::TlvPresent

8.1568.2.2 uint64_t wds_DataULongLongTlv::ullData

8.1569 wds_DataULongTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint32_t ulData

8.1569.1 Detailed Description

This structure contains Data unsigned long TLV data.

Parameters

TlvPresent	a flag indicates whether TLV presented or not
ulData	unsigend long data in 32bit

8.1569.2 Field Documentation

8.1569.2.1 uint8_t wds_DataULongTlv::TlvPresent

8.1569.2.2 uint32_t wds_DataULongTlv::ulData

8.1570 wds_DHCPLeaseOptTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint8_t numOpt
- wds_DHCPOpt optList [30]
- uint8_t optListData [2048]

8.1570.1 Detailed Description

DHCP lease option information

Parameters

TlvPresent	a flag indicates whether TLV presented or not
numOpt	number of sets of wds_DHCPOpt
optList	option list
optListData	option list data

8.1570.2 Field Documentation

8.1570.2.1 uint8_t wds_DHCPLeaseOptTlv::numOpt

8.1570.2.2 wds_DHCPOpt wds_DHCPLeaseOptTlv::optList[30]

8.1570.2.3 uint8_t wds_DHCPLeaseOptTlv::optListData[2048]

8.1570.2.4 uint8_t wds_DHCPLeaseOptTlv::TlvPresent

8.1571 wds_DHCPLeaseStateTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint8_t leaseState

8.1571.1 Detailed Description

DHCP lease state information

Parameters

TlvPresent	a flag indicates whether TLV presented or not
leaseState	lease state • 0 - active, newly acquired • 1 - active, renewed • 2 - active, renewing • 3 - active, rebinding • 4 - inactive, expired • 5 - inactive, renew refused • 6 - inactive, rebind refused • 7 - inactive, other

8.1571.2 Field Documentation

8.1571.2.1 uint8_t wds_DHCPLeaseStateTlv::leaseState

8.1571.2.2 uint8_t wds_DHCPLeaseStateTlv::TlvPresent

8.1572 wds_DHCPOpt Struct Reference

Data Fields

- uint8_t optCode
- uint8_t optValLen
- uint8_t * pOptVal

8.1572.1 Detailed Description

DHCP option code information

Parameters

optCode	option code • values: – 0 - 255

optValLen	length of option code • values: – 0 - 255
pOptVal	option value

8.1572.2 Field Documentation

8.1572.2.1 uint8_t wds_DHCPOpt::optCode

8.1572.2.2 uint8_t wds_DHCPOpt::optValLen

8.1572.2.3 uint8_t* wds_DHCPOpt::pOptVal

8.1573 wds_DHCPProfileIdTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint8_t profileType
- uint8_t profileId

8.1573.1 Detailed Description

DHCP profile id TLV information

Parameters

TlvPresent	a flag indicates whether TLV presented or not
profileType	identifying the type of the profile • 0 - 3GPP
profileId	index identifying the profile • 1-24 valid for 3GPP profile type (9x30 and onwards)

8.1573.2 Field Documentation

8.1573.2.1 uint8_t wds_DHCPProfileIdTlv::profileId

8.1573.2.2 uint8_t wds_DHCPProfileIdTlv::profileType

8.1573.2.3 uint8_t wds_DHCPProfileIdTlv::TlvPresent

8.1574 wds_DHCPv4HWConfig Struct Reference

Data Fields

- uint8_t hwType
- uint8_t chaddrLen
- uint8_t chaddr [16]

8.1574.1 Detailed Description

WDS SWI DHCPv4 HW Config Structure.

Parameters

hwType	• HW Type 1 - Ethernet 20 - Serial
chaddrlen	• chaddrlen
chaddr	• chaddr. Max size 16 bytes

8.1574.2 Field Documentation

8.1574.2.1 uint8_t wds_DHCPv4HWConfig::chaddr[16]

8.1574.2.2 uint8_t wds_DHCPv4HWConfig::chaddrLen

8.1574.2.3 uint8_t wds_DHCPv4HWConfig::hwType

8.1575 wds_DHCPv4Option Struct Reference

Data Fields

- uint8_t optCode
- uint8_t optValLen
- uint8_t optVal [255]

8.1575.1 Detailed Description

WDS SWI DHCPv4 Option Structure

Parameters

optCode	• Option code – 0 - 255
optValLen	• Option value length – 0 - 255
optVal	• Option value

8.1575.2 Field Documentation

8.1575.2.1 uint8_t wds_DHCPv4Option::optCode

8.1575.2.2 uint8_t wds_DHCPv4Option::optVal[255]

8.1575.2.3 uint8_t wds_DHCPv4Option::optValLen

8.1576 wds_DHCPv4OptionList Struct Reference

Data Fields

- uint8_t numOpt
- wds_DHCPv4Option * pOptList

8.1576.1 Detailed Description

WDS SWI DHCPv4 Option List Structure

Parameters

numOpt	• number of options – 0 - 255
pOptList	• pointer to list of DHCP Options

8.1576.2 Field Documentation

8.1576.2.1 uint8_t wds_DHCPv4OptionList::numOpt

8.1576.2.2 wds_DHCPv4Option* wds_DHCPv4OptionList::pOptList

8.1577 wds_DHCPv4ProfileId Struct Reference

Data Fields

- uint8_t profileType
- uint8_t profileId

8.1577.1 Detailed Description

WDS SWI DHCPv4 Profile Identifier Structure

Parameters

profileType	• 0 for 3GPP
profileId	• 1 to 24 for 3GPP profile

8.1577.2 Field Documentation

8.1577.2.1 uint8_t wds_DHCPv4ProfileId::profileId

8.1577.2.2 uint8_t wds_DHCPv4ProfileId::profileType

8.1578 wds_Domain Struct Reference

Data Fields

- uint16_t domainLen
- uint8_t domainName [256]

8.1578.1 Detailed Description

This structure contains the DomainName Information

Parameters

domainLen	• length of the recieved Domain name
domainName	• Domain name(Max 256 characters)

8.1578.2 Field Documentation

8.1578.2.1 uint16_t wds_Domain::domainLen

8.1578.2.2 uint8_t wds_Domain::domainName[256]

8.1579 wds_DomainNameList Struct Reference

Data Fields

- uint8_t numInstances
- struct wds_Domain domain [10]

8.1579.1 Detailed Description

This structure contains the DomainNameList Information

Parameters

numInstances	• Number of Domain name receieved
domain	• Domain name information(Max 10 Domain names)

Note

Data invalid when numInstances equal 0xff.

8.1579.2 Field Documentation

8.1579.2.1 struct wds_Domain wds_DomainNameList::domain[10]

8.1579.2.2 uint8_t wds_DomainNameList::numInstances

8.1580 wds_DormStatTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint8_t DormancyStat

8.1580.1 Detailed Description

This structure stores information about dormancy status TLV.

Parameters

TlvPresent	• value is 1 if this TLV is present in indication, otherwise 0
DormancyStat	-Dormancy status • 0x01 - Traffic channel dormant • 0x02 - Traffic channel active

8.1580.2 Field Documentation

8.1580.2.1 uint8_t wds_DormStatTlv::DormancyStat

8.1580.2.2 uint8_t wds_DormStatTlv::TlvPresent

8.1581 wds_GPRSQoS Struct Reference

Data Fields

- uint32_t precedenceClass
- uint32_t delayClass
- uint32_t reliabilityClass
- uint32_t peakThroughputClass
- uint32_t meanThroughputClass

8.1581.1 Detailed Description

This structure contains the GPRS Quality Of Service Information

Parameters

precedence-Class	• Precedence class

delayClass	• Delay class
reliabilityClass	• Reliability class
peak-Throughput-Class	• Peak throughput class
mean-Throughput-Class	• Mean throughput class

Note

Data invalid when all parameters are equal to 0xffffffff.

8.1581.2 Field Documentation

8.1581.2.1 uint32_t wds_GPRSQoS::delayClass

8.1581.2.2 uint32_t wds_GPRSQoS::meanThroughputClass

8.1581.2.3 uint32_t wds_GPRSQoS::peakThroughputClass

8.1581.2.4 uint32_t wds_GPRSQoS::precedenceClass

8.1581.2.5 uint32_t wds_GPRSQoS::reliabilityClass

8.1582 wds_IPv4AdTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint32_t IPv4Addr

8.1582.1 Detailed Description

IPv4 address TLV information

Parameters

TlvPresent	a flag indicates whether TLV presented or not
IPv4Addr	IPv4 address

8.1582.2 Field Documentation

8.1582.2.1 uint32_t wds_IPv4AdTlv::IPv4Addr

8.1582.2.2 uint8_t wds_IPv4AdTlv::TlvPresent

8.1583 wds_IPV6AddressInfo Struct Reference

Data Fields

- uint8_t IPV6PrefixLen
- uint16_t IPAddressV6 [8]

8.1583.1 Detailed Description

This structure contains the IPV6 Address Information

Parameters

IPV6PrefixLen	• Length of the received IPv6 address in no. of bits; can take value between 0 and 128 – 0xFF - Not Available
IPAddressV6	• IPv6 address(in network byte order); This is an 8-element array of 16 bit numbers, each of which is in big endian format.

8.1583.2 Field Documentation

8.1583.2.1 uint16_t wds_IPV6AddressInfo::IPAddressV6[8]

8.1583.2.2 uint8_t wds_IPV6AddressInfo::IPV6PrefixLen

8.1584 wds_IPV6GWAddressInfo Struct Reference

Data Fields

- uint8_t gwV6PrefixLen
- uint16_t gwAddressV6 [8]

8.1584.1 Detailed Description

This structure contains the IPV6 Gateway Address Information

Parameters

gwV6PrefixLen	• Length of the received IPv6 Gateway address in no. of bits; can take value between 0 and 128
IPAddressV6	• IPv6 Gateway address(in network byte order); This is an 8-element array of 16 bit numbers, each of which is in big endian format.

Note

Data invalid when IPV6PrefixLen equal 0xff.

8.1584.2 Field Documentation

8.1584.2.1 uint16_t wds_IPV6GWAddressInfo::gwAddressV6[8]

8.1584.2.2 uint8_t wds_IPV6GWAddressInfo::gwV6PrefixLen

8.1585 wds_LastMdmCallEndRsnTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint16_t CallEndReason

8.1585.1 Detailed Description

This structure stores information about modem last call end reason TLV.

Parameters

TlvPresent	• value is 1 if this TLV is present in indication, otherwise 0
CallEndReason	-Modem call end reason • See qaGobiApiTableCallEndReasons.h for Call End Reason

8.1585.2 Field Documentation

8.1585.2.1 uint16_t wds_LastMdmCallEndRsnTlv::CallEndReason

8.1585.2.2 uint8_t wds_LastMdmCallEndRsnTlv::TlvPresent

8.1586 wds_PCSCFFQDNAddress Struct Reference

Data Fields

- uint16_t fqdnLen
- uint8_t fqdnAddr [256]

8.1586.1 Detailed Description

This structure contains the PCSCFFQDNAddress Information

Parameters

fqdnLen	• length of the received FQDN address
fqdnAddr	• FQDN address(Max 256 characters)

8.1586.2 Field Documentation

8.1586.2.1 uint8_t wds_PCSCFFQDNAddress::fqdnAddr[256]

8.1586.2.2 uint16_t wds_PCSCFFQDNAddress::fqdnLen

8.1587 wds_PCSCFFQDNAddressList Struct Reference

Data Fields

- uint8_t numInstances
- struct wds_PCSCFFQDNAddress pcsfFQDNAddress [10]

8.1587.1 Detailed Description

This structure contains the PCSCFFQDNAddressList Information

Parameters

numInstances	• Number of FQDN addresses received
pcsfFQDN-Address	• FQDN address information(Max 10 addresses)

Note

Data invalid when numInstances equal 0xff.

8.1587.2 Field Documentation

8.1587.2.1 uint8_t wds_PCSCFFQDNAddressList::numInstances

8.1587.2.2 struct wds_PCSCFFQDNAddress wds_PCSCFFQDNAddressList::pcsfFQDNAddress[10]

8.1588 wds_PCSCFIPv4ServerAddressList Struct Reference

Data Fields

- uint8_t numInstances
- uint32_t pscsfIPv4Addr [64]

8.1588.1 Detailed Description

This structure contains the PCSCFIPv4ServerAddressList Information

Parameters

numInstances	• number of address following
pscsfIPv4Addr	• P-CSCF IPv4 server addresses(Max 16 address, 4 bytes each)

Note

Data invalid when numInstances equal 0xff and pscsfIPv4Addr equal to 0xffffffff.

8.1588.2 Field Documentation

8.1588.2.1 uint8_t wds_PCSCFIPv4ServerAddressList::numInstances

8.1588.2.2 uint32_t wds_PCSCFIPv4ServerAddressList::pscsfIPv4Addr[64]

8.1589 wds_ProfileIdentifier Struct Reference

Data Fields

- uint8_t profileType
- uint8_t profileIndex

8.1589.1 Detailed Description

This structure contains the Profile Identifier Information

Parameters

profileType	• Identifies the type of profile 0x00 = 3GPP
profileIndex	• Index of profile whose settings were loaded prior to session parameter negotiation for the current call. If this TLV is not present, data call parameters are based on device default settings for each parameter

Note

Data invalid when all parameters are equal to 0xff.

8.1589.2 Field Documentation

8.1589.2.1 uint8_t wds_ProfileIdentifier::profileIndex

8.1589.2.2 uint8_t wds_ProfileIdentifier::profileType

8.1590 wds_profileInfo Union Reference

Data Fields

- LibPackprofile_3GPP SlqsProfile3GPP
- LibPackprofile_3GPP2 SlqsProfile3GPP2

8.1590.1 Detailed Description

This union consist of profile_3GPP and profile_3GPP2 out of which one will be used to create profile.

Parameters

SlqsProfile3GPP	3GPP profile See LibPackprofile_3GPP
SlqsProfile3GP-P2	3GPP2 profile See LibPackprofile_3GPP2

8.1590.2 Field Documentation

8.1590.2.1 LibPackprofile_3GPP wds_profileInfo::SlqsProfile3GPP

8.1590.2.2 LibPackprofile_3GPP2 wds_profileInfo::SlqsProfile3GPP2

8.1591 wds_RXBytesOKTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint64_t RxByteOKCnt

8.1591.1 Detailed Description

This structure stores information about Rx Bytes OK TLV.

Parameters

TlvPresent	• value is 1 if this TLV is present in indication, otherwise 0
RxByteOKCnt	-Number of bytes received without error

8.1591.2 Field Documentation

8.1591.2.1 uint64_t wds_RXBytesOKTlv::RxByteOKCnt

8.1591.2.2 uint8_t wds_RXBytesOKTlv::TlvPresent

8.1592 wds_transferStatInd Struct Reference

Data Fields

- uint8_t StatsPeriod
- uint32_t StatsMask

8.1592.1 Detailed Description

This structure contains the transfer statistic indication information

Parameters

StatsPeriod	Field Period between transfer statistic reports. • 0 - Do not report. • 1 - Other - Period between reports (in seconds).

StatsMask	requested statistic bit mask. • 0x00000040 - Tx bytes OK • 0x00000080 - Rx bytes OK

8.1592.2 Field Documentation

8.1592.2.1 uint32_t wds_transferStatInd::StatsMask

8.1592.2.2 uint8_t wds_transferStatInd::StatsPeriod

8.1593 wds_TrStatInd Struct Reference

Data Fields

- uint8_t statsPeriod
- uint32_t statsMask

8.1593.1 Detailed Description

This structure contains the information about the Transfer Statistics Indicator parameters.

Parameters

statsPeriod	• Period between transfer statistics reports. – 0 - Do not report – Other - Period between reports (seconds)
statsMask	• Requested statistic bit mask. – 0x00000001 - Tx packets OK – 0x00000002 - Rx packets OK – 0x00000004 - Tx packet errors – 0x00000008 - Rx packet errors – 0x00000010 - Tx overflows – 0x00000020 - Rx overflows – 0x00000040 - Tx bytes OK – 0x00000080 - Rx bytes OK • Each bit set causes the corresponding optional information to be sent in SLQSWdsEventReport-CallBack. • All unlisted bits are reserved for future use and must be set to zero.

8.1593.2 Field Documentation

8.1593.2.1 uint32_t wds_TrStatInd::statsMask

8.1593.2.2 uint8_t wds_TrStatInd::statsPeriod

8.1594 wds_TXBytesOKTlv Struct Reference

Data Fields

- uint8_t TlvPresent
- uint64_t TxByteOKCnt

8.1594.1 Detailed Description

This structure stores information about Tx Bytes OK TLV.

Parameters

TlvPresent	• value is 1 if this TLV is present in indication, otherwise 0
TxByteOKCnt	• Number of bytes transmitted without error

8.1594.2 Field Documentation

8.1594.2.1 uint8_t wds_TXBytesOKTlv::TlvPresent

8.1594.2.2 uint64_t wds_TXBytesOKTlv::TxByteOKCnt

8.1595 wds_UMTSMinQoS Struct Reference

Data Fields

- uint8_t trafficClass
- uint32_t maxUplinkBitrate
- uint32_t maxDownlinkBitrate
- uint32_t grntUplinkBitrate
- uint32_t grntDownlinkBitrate
- uint8_t qosDeliveryOrder
- uint32_t maxSDUSize
- uint8_t sduErrorRatio
- uint8_t resBerRatio
- uint8_t deliveryErrSDU
- uint32_t transferDelay
- uint32_t trafficPriority

8.1595.1 Detailed Description

This structure contains the UMTS Quality Of Service Information

Parameters

trafficClass	• 0x00 - Subscribed • 0x01 - Conversational • 0x02 - Streaming • 0x03 - Interactive • 0x04 - Background
maxUplinkBitrate	• Maximum uplink bit rate in bits/sec
maxDownlink-Bitrate	• Maximum downlink bit rate in bits/sec
grntUplinkBitrate	• Guaranteed uplink bit rate in bits/sec
grntDownlink-Bitrate	• Guaranteed downlink bit rate in bits/sec
qosDelivery-Order	- Qos delivery order • 0x00 - Subscribe • 0x01 - Delivery order on • 0x02 - Delivery order off
maxSDUSize	• Maximum SDU size
sduErrorRatio	- SDU error ratio • Target value for fraction of SDUs lost or detected as erroneous. • 0x00 - Subscribe • 0x01 - 1∗10^(-2) • 0x02 - 7∗10^(-3) • 0x03 - 1∗10^(-3) • 0x04 - 1∗10^(-4) • 0x05 - 1∗10^(-5) • 0x06 - 1∗10^(-6) • 0x07 - 1∗10^(-1)
resBerRatio	- Residual bit error ratio • Target value for undetected bit error ratio in in the delivered SDUs. • 0x00 - Subscribe • 0x01 - 5∗10^(-2) • 0x02 - 1∗10^(-2) • 0x03 - 5∗10^(-3) • 0x04 - 4∗10^(-3) • 0x05 - 1∗10^(-3) • 0x06 - 1∗10^(-4) • 0x07 - 1∗10^(-5) • 0x08 - 1∗10^(-6) • 0x09 - 1∗10^(-8)

deliveryErrSDU	- delivery of erroneous SDUs • Indicates whether SDUs detected as erroneous shall be delivered or not. • 0x00 - Subscribe • 0x01 - 5∗10^(-2) • 0x02 - 1∗10^(-2) • 0x03 - 5∗10^(-3) • 0x04 - 4∗10^(-3) • 0x05 - 1∗10^(-3) • 0x06 - 1∗10^(-4) • 0x07 - 1∗10^(-5) • 0x08 - 1∗10^(-6) • 0x09 - 1∗10^(-8)
transferDelay	- Transfer delay (ms) • Indicates the targeted time between a request to transfer an SDU at one SAP to its delivery at the other SAP in milliseconds.
trafficPriority	- Transfer handling priority • Specifies the relative importance for handling of SDUs that belong to the UMTS bearer, compared to the SDUs of other bearers.

8.1595.2 Field Documentation

8.1595.2.1 uint8_t wds_UMTSMinQoS::deliveryErrSDU

8.1595.2.2 uint32_t wds_UMTSMinQoS::grntDownlinkBitrate

8.1595.2.3 uint32_t wds_UMTSMinQoS::grntUplinkBitrate

8.1595.2.4 uint32_t wds_UMTSMinQoS::maxDownlinkBitrate

8.1595.2.5 uint32_t wds_UMTSMinQoS::maxSDUSize

8.1595.2.6 uint32_t wds_UMTSMinQoS::maxUplinkBitrate

8.1595.2.7 uint8_t wds_UMTSMinQoS::qosDeliveryOrder

8.1595.2.8 uint8_t wds_UMTSMinQoS::resBerRatio

8.1595.2.9 uint8_t wds_UMTSMinQoS::sduErrorRatio

8.1595.2.10 uint8_t wds_UMTSMinQoS::trafficClass

8.1595.2.11 uint32_t wds_UMTSMinQoS::trafficPriority

8.1595.2.12 uint32_t wds_UMTSMinQoS::transferDelay

8.1596 WdsByteTotals Struct Reference

Data Fields

- ULONG * pV4sessionId
- ULONG * pV6sessionId
- struct WdsByteTotalsElmnts ByteTotalsElmntsV4
- struct WdsByteTotalsElmnts ByteTotalsElmntsV6

8.1596.1 Detailed Description

WDS ByteTotals request data structure

Parameters

pV4sessionId	• The v4 session ID for which the byte totals are to be retrieved • provide a NULL pointer if not applicable
pV6sessionId	• The v6 session ID for which the byte totals are to be retrieved • provide a NULL pointer if not applicable
ByteTotals-ElmntsV4	• data structure to be populated with the byte totals for V4 session
ByteTotals-ElmntsV6	• data structure to be populated with the byte totals for V6 session

Note

At least one of pV4sessionId and pV6sessionId must point to a valid session ID.

8.1596.2 Field Documentation

8.1596.2.1 struct WdsByteTotalsElmnts WdsByteTotals::ByteTotalsElmntsV4

8.1596.2.2 struct WdsByteTotalsElmnts WdsByteTotals::ByteTotalsElmntsV6

8.1596.2.3 ULONG* WdsByteTotals::pV4sessionId

8.1596.2.4 ULONG* WdsByteTotals::pV6sessionId

8.1597 WdsByteTotalsElmnts Struct Reference

Data Fields

- ULONGLONG * pTXTotalBytes
- ULONGLONG * pRXTotalBytes

8.1597.1 Detailed Description

WDS Bytes Totals request data structure for individual session

Parameters

pTXTotalBytes	• No of transmitted bytes without error.
pRXTotalBytes	• No of received bytes without error.

8.1597.2 Field Documentation

8.1597.2.1 ULONGLONG* WdsByteTotalsElmnts::pRXTotalBytes

8.1597.2.2 ULONGLONG* WdsByteTotalsElmnts::pTXTotalBytes

8.1598 WdsClientLeaseChange Struct Reference

Data Fields

- BYTE * pEnableNotification

8.1598.1 Detailed Description

WDS SWI DHCPv4 Client Lease Change Structure

Parameters

pEnable-Notification	[IN] • Enable Notification or not

8.1598.2 Field Documentation

8.1598.2.1 BYTE* WdsClientLeaseChange::pEnableNotification

8.1599 WdsConnectionRate Struct Reference

Data Fields

- ULONG * pV4sessionId
- ULONG * pV6sessionId
- struct WdsConnectionRateElmnts ConnRateElmntsV4
- struct WdsConnectionRateElmnts ConnRateElmntsV6

8.1599.1 Detailed Description

WDS ConnectionRate request data structure

Parameters

pV4sessionId	• The v4 session ID for which the connection rate are to be retrieved • provide a NULL pointer if not applicable

pV6sessionId	• The v6 session ID for which the connection rate are to be retrieved • provide a NULL pointer if not applicable
ConnRate-ElmntsV4	• data structure to be populated with the connection rate for V4 session
ConnRate-ElmntsV6	• data structure to be populated with the connection rate for V6 session

Note

At least one of pV4sessionId and pV6sessionId must point to a valid session ID.

8.1599.2 Field Documentation

8.1599.2.1 struct WdsConnectionRateElmnts WdsConnectionRate::ConnRateElmntsV4

8.1599.2.2 struct WdsConnectionRateElmnts WdsConnectionRate::ConnRateElmntsV6

8.1599.2.3 ULONG* WdsConnectionRate::pV4sessionId

8.1599.2.4 ULONG* WdsConnectionRate::pV6sessionId

8.1600 WdsConnectionRateElmnts Struct Reference

Data Fields

- ULONG * pCurrentChannelTXRate
- ULONG * pCurrentChannelRXRate
- ULONG * pMaxChannelTXRate
- ULONG * pMaxChannelRXRate

8.1600.1 Detailed Description

WDS Connection rates request data structure for individual session

Parameters

pCurrent-ChannelTX-Rate[OUT]	• Instantaneous channel Tx rate in bits per second.
pCurrent-ChannelRX-Rate[OUT]	• Instantaneous channel Rx rate in bits per second.
pMaxChannelT-XRate[OUT]	• Maximum Tx rate that can be assigned to the device by the • serving system in bits per second
pMaxChannelR-XRate[OUT]	• Maximum Rx rate that can be assigned to the device by the • serving system in bits per second

8.1600.2 Field Documentation

8.1600.2.1 ULONG* WdsConnectionRateElmnts::pCurrentChannelRXRate

8.1600.2.2 ULONG* WdsConnectionRateElmnts::pCurrentChannelTXRate

8.1600.2.3 ULONG* WdsConnectionRateElmnts::pMaxChannelRXRate

8.1600.2.4 ULONG* WdsConnectionRateElmnts::pMaxChannelTXRate

8.1601 WdsDHCPv4ClientLeaseInd Struct Reference

Data Fields

- WdsDHCPv4ProfileId * pProfileId
- BYTE * pLeaseState
- ULONG * pIPv4Addr
- DHCPOptionList * pOptList

8.1601.1 Detailed Description

This structure contains DHCPv4 client lease status

Parameters

pProfileId	• Profile Type and Id
pLeaseState	• Values – 0 - active, newly acquired – 1 - active, renewed – 2 - active, renewing – 3 - active, rebinding – 4 - inactive, expired – 5 - inactive, renew refused – 6 - inactive, rebind refused – 7 - inactive, other
pIPv4Addr	• Values – IPv4 Address
pOptList	• Option list

8.1601.2 Field Documentation

8.1601.2.1 ULONG* WdsDHCPv4ClientLeaseInd::pIPv4Addr

8.1601.2.2 BYTE* WdsDHCPv4ClientLeaseInd::pLeaseState

8.1601.2.3 DHCPOptionList* WdsDHCPv4ClientLeaseInd::pOptList

8.1601.2.4 WdsDHCPv4ProfileId* WdsDHCPv4ClientLeaseInd::pProfileId

8.1602 WdsDHCPv4Config Struct Reference

Data Fields

- WdsDHCPv4ProfileId * pProfileId
- WdsDHCPv4HWConfig * pHwConfig
- WdsDHCPv4OptionList * pRequestOptionList

8.1602.1 Detailed Description

WDS SWI DHCPv4 Config Structure

Parameters

pProfileId	[IN] • pointer to Profile Id structure
pHWConfig	[IN/OUT] • pointer to HW Config structure
pRequestOption-List	[IN/OUT] • pointer to Option List structure to be sent in DHCP request

8.1602.2 Field Documentation

8.1602.2.1 WdsDHCPv4HWConfig* WdsDHCPv4Config::pHwConfig

8.1602.2.2 WdsDHCPv4ProfileId* WdsDHCPv4Config::pProfileId

8.1602.2.3 WdsDHCPv4OptionList* WdsDHCPv4Config::pRequestOptionList

8.1603 WdsDHCPv4HWConfig Struct Reference

Data Fields

- BYTE hwType
- BYTE chaddrLen
- BYTE chaddr [16]

8.1603.1 Detailed Description

WDS SWI DHCPv4 HW Config Structure.

Parameters

hwType	• HW Type 1 - Ethernet 20 - Serial

chaddrlen	• chaddrlen
chaddr	• chaddr. Max size 16 bytes

8.1603.2 Field Documentation

8.1603.2.1 BYTE WdsDHCPv4HWConfig::chaddr[16]

8.1603.2.2 BYTE WdsDHCPv4HWConfig::chaddrLen

8.1603.2.3 BYTE WdsDHCPv4HWConfig::hwType

8.1604 wdsDhcpv4HwConfig Struct Reference

Data Fields

- uint8_t hwType
- uint8_t chaddrLen
- uint8_t chaddr [16]

8.1604.1 Detailed Description

Structure contain DHCP V4 Hardware Configuration.

Parameters

hwType	DHCP HW Type, examples: • 0 - Ethernet • 20 - Serial
chaddrLen	Length of chaddr field, examples: • 6 for Ethernet MAC address
chaddr	Client hardware address

8.1604.2 Field Documentation

8.1604.2.1 uint8_t wdsDhcpv4HwConfig::chaddr[16]

8.1604.2.2 uint8_t wdsDhcpv4HwConfig::chaddrLen

8.1604.2.3 uint8_t wdsDhcpv4HwConfig::hwType

8.1605 WdsDHCPv4Option Struct Reference

Data Fields

- BYTE optCode

- BYTE optValLen
- BYTE optVal [255]

8.1605.1 Detailed Description

WDS SWI DHCPv4 Option Structure

Parameters

optCode	• Option code – 0 - 255
optValLen	• Option value length – 0 - 255
optVal	• Option value

8.1605.2 Field Documentation

8.1605.2.1 BYTE WdsDHCPv4Option::optCode

8.1605.2.2 BYTE WdsDHCPv4Option::optVal[255]

8.1605.2.3 BYTE WdsDHCPv4Option::optValLen

8.1606 wdsDhcpv4Option Struct Reference

Data Fields

- uint8_t optCode
- uint8_t optValLen
- uint8_t optVal [255]

8.1606.1 Detailed Description

This structure contains DHCP V4 Option information.

Parameters

optCode	Option code • 0 - 255
optValLen	Option value length • 0 - 255
optVal	Option Value

8.1606.2 Field Documentation

8.1606.2.1 uint8_t wdsDhcpv4Option::optCode

8.1606.2.2 uint8_t wdsDhcpv4Option::optVal[255]

8.1606.2.3 uint8_t wdsDhcpv4Option::optValLen

8.1607 WdsDHCPv4OptionList Struct Reference

Data Fields

- BYTE numOpt
- WdsDHCPv4Option * pOptList

8.1607.1 Detailed Description

WDS SWI DHCPv4 Option List Structure

Parameters

numOpt	• number of options – 0 - 255
pOptList	• pointer to list of DHCP Options

8.1607.2 Field Documentation

8.1607.2.1 BYTE WdsDHCPv4OptionList::numOpt

8.1607.2.2 WdsDHCPv4Option* WdsDHCPv4OptionList::pOptList

8.1608 wdsDhcpv4OptionList Struct Reference

Data Fields

- uint8_t numOpt
- wdsDhcpv4Option * pOptList

8.1608.1 Detailed Description

Structure contain DHCP V4 Option List

Parameters

numOpt	number of options • 0 - 255
pOptList	pointer to list of DHCP Options • See wdsDhcpv4Option

8.1608.2 Field Documentation

8.1608.2.1 uint8_t wdsDhcpv4OptionList::numOpt

8.1608.2.2 wdsDhcpv4Option* wdsDhcpv4OptionList::pOptList

8.1609 wdsDhcpv4ProfileId Struct Reference

Data Fields

- uint8_t profileType
- uint8_t profileId

8.1609.1 Detailed Description

This structure contains DHCP v4 ProfieIID Information.

Parameters

profileType	profile type • 0 - 3GPP
profileId	profile index • index identifiying the profile 1-24 valid for 3GPP profile type (EM74xx and onwards)

8.1609.2 Field Documentation

8.1609.2.1 uint8_t wdsDhcpv4ProfileId::profileId

8.1609.2.2 uint8_t wdsDhcpv4ProfileId::profileType

8.1610 WdsDHCPv4ProfileId Struct Reference

Data Fields

- BYTE profileType
- BYTE profileId

8.1610.1 Detailed Description

WDS SWI DHCPv4 Profile Identifier Structure

Parameters

profileType	• 0 for 3GPP
profileId	• 1 to 24 for 3GPP profile

8.1610.2 Field Documentation

8.1610.2.1 BYTE WdsDHCPv4ProfileId::profileId

8.1610.2.2 BYTE WdsDHCPv4ProfileId::profileType

8.1611 WDSGetLoopbackData Struct Reference

Data Fields

- BYTE ByteLoopbackMode
- BYTE ByteLoopbackMultiplier

8.1611.1 Detailed Description

This API to Queries Enable/disable Data Loopback Mode and set the value of loopback multiplier.

Parameters

pReq	[IN] • See WDSSetLoopbackData for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

```
Timeout: 2 seconds\n
```

WDS SWI Get Loopback Structure of Packet Data Connection Information.

Parameters

ByteLoopback-Mode	• Loopback Mode. – 0 - Disable – 1 - Enable
ByteLoopback-Multiplier	• Loopback multiplier. Number of downlink bytes to send for each uplink byte.

8.1611.2 Field Documentation

8.1611.2.1 BYTE WDSGetLoopbackData::ByteLoopbackMode

8.1611.2.2 BYTE WDSGetLoopbackData::ByteLoopbackMultiplier

8.1612 WdsIpAddressInfoReq Struct Reference

Data Fields

- ULONG * pv4sessionId
- ULONG * pv6sessionId
- QmiWdsIpAddressInfo ip

8.1612.1 Detailed Description

Parameters

pv4sessionId[OUT]	• IPv4 session id
pv6sessionId[OUT]	• IPv6 session id
ip[OUT]	• IP address information see QmiWdsIpAddressInfo for more details

8.1612.2 Field Documentation

8.1612.2.1 QmiWdsIpAddressInfo WdsIpAddressInfoReq::ip

8.1612.2.2 ULONG* WdsIpAddressInfoReq::pv4sessionId

8.1612.2.3 ULONG* WdsIpAddressInfoReq::pv6sessionId

8.1613 WdsPktStatisticsElmnts Struct Reference

Data Fields

- ULONG * pTXPacketSuccesses
- ULONG * pRXPacketSuccesses
- ULONG * pTXPacketErrors
- ULONG * pRXPacketErrors
- ULONG * pTXPacketOverflows
- ULONG * pRXPacketOverflows
- ULONGLONG * pTXOkBytesCount
- ULONGLONG * pRXOkBytesCount
- ULONGLONG * pTXOKBytesLastCall
- ULONGLONG * pRXOKBytesLastCall
- ULONG * pTXDroppedCount
- ULONG * pRXDroppedCount

8.1613.1 Detailed Description

WDS Pkt Statistics request data structure for individual session

Parameters

pTXPacket-Successes	• Number of transmitted Packets without error.
pRXPacket-Successes	• Number of received Packets without error.
pTXPacketErrors	• Number of outgoing packets with framing errors.
pRXPacket-Errors	• Number of incoming packets with framing errors.
pTXPacket-Overflows	• Number of packets dropped because Tx buffer overflowed (out of memory).
pRXPacket-Overflows	• Number of packets dropped because Rx buffer overflowed (out of memory).
pTXOkBytes-Count	• Number of bytes transmitted without error.
pRXOkBytes-Count	• Number of bytes received without error.
pTXOKBytes-LastCall	• Number of bytes transmitted without error during the last data call (0 if no call was made earlier). Returned only if not in a call, and when the previous call was made using RmNet (for any devices that support
pRXOKBytes-LastCall	• Number of bytes received without error during the last data call (0 if no call was made earlier). Returned only if not in a call, and when the previous call was made using RmNet (for any devices that support
pTXDropped-Count	• Number of outgoing packets dropped.
pRXDropped-Count	• Number of incoming packets dropped.

8.1613.2 Field Documentation

8.1613.2.1 ULONG* WdsPktStatisticsElmnts::pRXDroppedCount

8.1613.2.2 ULONGLONG* WdsPktStatisticsElmnts::pRXOkBytesCount

8.1613.2.3 ULONGLONG* WdsPktStatisticsElmnts::pRXOKBytesLastCall

8.1613.2.4 ULONG* WdsPktStatisticsElmnts::pRXPacketErrors

8.1613.2.5 ULONG* WdsPktStatisticsElmnts::pRXPacketOverflows

8.1613.2.6 ULONG∗ WdsPktStatisticsElmnts::pRXPacketSuccesses

8.1613.2.7 ULONG∗ WdsPktStatisticsElmnts::pTXDroppedCount

8.1613.2.8 ULONGLONG∗ WdsPktStatisticsElmnts::pTXOkBytesCount

8.1613.2.9 ULONGLONG∗ WdsPktStatisticsElmnts::pTXOKBytesLastCall

8.1613.2.10 ULONG∗ WdsPktStatisticsElmnts::pTXPacketErrors

8.1613.2.11 ULONG∗ WdsPktStatisticsElmnts::pTXPacketOverflows

8.1613.2.12 ULONG∗ WdsPktStatisticsElmnts::pTXPacketSuccesses

8.1614 WdsPktStatisticsReq Struct Reference

Data Fields

- ULONG ∗ pStatMask

8.1614.1 Detailed Description

WDS PktStatistics request data structure

Parameters

pStatMask	• Packet Statistics Mask 0x00000001 - Tx packets OK 0x00000002 - Rx packets OK 0x00000004 - Tx packet errors 0x00000008 - Rx packet errors 0x00000010 - Tx overflows 0x00000020 - Rx overflows 0x00000040 - Tx bytes OK 0x00000080 - Rx bytes OK

8.1614.2 Field Documentation

8.1614.2.1 ULONG∗ WdsPktStatisticsReq::pStatMask

8.1615 WdsPktStatisticsResp Struct Reference

Data Fields

- ULONG ∗ pV4sessionId
- ULONG ∗ pV6sessionId
- struct WdsPktStatisticsElmnts PktStatElmntsV4
- struct WdsPktStatisticsElmnts PktStatElmntsV6

8.1615.1 Detailed Description

WDS PktStatistics response data structure

Parameters

pV4sessionId	• The v4 session ID for which the byte totals are to be retrieved • provide a NULL pointer if not applicable
pV6sessionId	• The v6 session ID for which the byte totals are to be retrieved • provide a NULL pointer if not applicable
PktStatElmntsV4	• data structure to be populated with the Pkt Statistics for V4 session
PktStatElmntsV6	• data structure to be populated with the Pkt Statistics for V6 session

Note

At least one of pV4sessionId and pV6sessionId must point to a valid session ID.

8.1615.2 Field Documentation

8.1615.2.1 struct WdsPktStatisticsElmnts WdsPktStatisticsResp::PktStatElmntsV4

8.1615.2.2 struct WdsPktStatisticsElmnts WdsPktStatisticsResp::PktStatElmntsV6

8.1615.2.3 ULONG* WdsPktStatisticsResp::pV4sessionId

8.1615.2.4 ULONG* WdsPktStatisticsResp::pV6sessionId

8.1616 WdsProfileParam Union Reference

Data Fields

- struct Profile3GPP SlqsProfile3GPP
- struct Profile3GPP2 SlqsProfile3GPP2

8.1616.1 Detailed Description

This union WdsProfileParam consist of Profile3GPP and Profile3GPP2 out of which one will be used to create profile.

Parameters

SlqsProfile3GPP	• 3GPP profile
SlqsProfile3GP-P2	• 3GPP2 profile

8.1616.2 Field Documentation

8.1616.2.1 struct Profile3GPP WdsProfileParam::SlqsProfile3GPP

8.1616.2.2 struct Profile3GPP2 WdsProfileParam::SlqsProfile3GPP2

8.1617 WdsRunTimeSettings Struct Reference

Data Fields

- ULONG * v4sessionId
- ULONG * v6sessionId
- struct qmiWdsRunTimeSettings rts

8.1617.1 Detailed Description

WDS runtime settings request data structure

Parameters

v4sessionId	• The v4 session ID for which the runtime settings are to be retrieved • provide a NULL pointer if not applicable
v6sessionId	• The v6 session ID for which the runtime settings are to be retrieved • provide a NULL pointer if not applicable
qmiWdsRun-TimeSettings	• data structure to be populated with the runtime settings

Note

At least one of v4sessionId and v6sessionId must point to a valid session ID.

8.1617.2 Field Documentation

8.1617.2.1 struct qmiWdsRunTimeSettings WdsRunTimeSettings::rts

8.1617.2.2 ULONG* WdsRunTimeSettings::v4sessionId

8.1617.2.3 ULONG* WdsRunTimeSettings::v6sessionId

8.1618 wdsSetEventReportReq Struct Reference

Data Fields

- BYTE * pCurrChannelRateInd
- TrStatInd * pTransferStatInd
- BYTE * pDataBearerTechInd
- BYTE * pDormancyStatusInd
- BYTE * pMIPStatusInd
- BYTE * pCurrDataBearerTechInd
- BYTE * pDataCallStatusChangeInd

- BYTE * pCurrPrefDataSysInd
- BYTE * pEVDOPageMonPerChangeInd
- BYTE * pDataSystemStatusChangeInd

8.1618.1 Detailed Description

This structure contains the information about the Set Event Report Request parameters.

Parameters

pCurrChannelRateInd	(optional) • Current Channel Rate Indicator. – 0 - Do not report – 1 - Report channel rate when it changes
pTransferStatInd	(optional) • See TrStatInd for more information.
pDataBearerTechInd	(optional) • Data Bearer Technology Indicator. – 0 - Do not report – 1 - Report radio interface used for data transfer when it changes
pDormancyStatusInd	(optional) • Dormancy Status indicator. – 0 - Do not report – 1 - Report traffic channel state of interface used for data connection
pMIPStatusInd	(optional) • MIP Status Indicator. – 0 - Do not report – 1 - Report MIP status
pCurrDataBearerTechInd	(optional) • Current Data Bearer Technology Indicator. – 0 - Do not report – 1 - Report current data bearer technology when it changes
pDataCallStatusChangeInd	(optional) • Data Call Status Change Indicator. – 0 - Do not report – 1 - Report data call status change when it changes
pCurrPrefDataSysInd	(optional) • Current Preferred Data System Indicator. – 0 - Do not report – 1 - Report preferred data system when it changes
pEVDOPageMonPerChangeInd	(optional) • EV-DO Page Monitor Period Change Indicator. – 0 - Do not report – 1 - Report EV-DO page monitor period change event

pDataSystem-StatusChange-Ind	(optional) • Data System Status Change Indicator. – 0 - Do not report – 1 - Report data system status change event

Note

At least one parameter should be present.

8.1618.2 Field Documentation

8.1618.2.1 BYTE* wdsSetEventReportReq::pCurrChannelRateInd

8.1618.2.2 BYTE* wdsSetEventReportReq::pCurrDataBearerTechInd

8.1618.2.3 BYTE* wdsSetEventReportReq::pCurrPrefDataSysInd

8.1618.2.4 BYTE* wdsSetEventReportReq::pDataBearerTechInd

8.1618.2.5 BYTE* wdsSetEventReportReq::pDataCallStatusChangeInd

8.1618.2.6 BYTE* wdsSetEventReportReq::pDataSystemStatusChangeInd

8.1618.2.7 BYTE* wdsSetEventReportReq::pDormancyStatusInd

8.1618.2.8 BYTE* wdsSetEventReportReq::pEVDOPageMonPerChangeInd

8.1618.2.9 BYTE* wdsSetEventReportReq::pMIPStatusInd

8.1618.2.10 TrStatInd* wdsSetEventReportReq::pTransferStatInd

8.1619 WDSSetLoopbackData Struct Reference

Data Fields

- BYTE * pLoopbackMode
- BYTE * pLoopbackMultiplier

8.1619.1 Detailed Description

WDS SWI Set Loopback Structure of Set Loopback Information.

Parameters

pLoopbackMode	• Loopback Mode. – 0 - Disable – 1 - Enable
pLoopback-Multiplier	• Loopback multiplier. Number of downlink bytes to send for each uplink byte.

8.1619.2 Field Documentation

8.1619.2.1 BYTE* WDSSetLoopbackData::pLoopbackMode

8.1619.2.2 BYTE* WDSSetLoopbackData::pLoopbackMultiplier

8.1620 WDSSWICurrentChannelRates Struct Reference

Data Fields

- unsigned long current_channel_tx_rate
- unsigned long current_channel_rx_rate
- unsigned long max_channel_tx_rate
- unsigned long max_channel_rx_rate

8.1620.1 Detailed Description

WDS SWI Current Channel Rates Structure of Packet Data Connection Information.

Parameters

current_channel-_tx_rate	• Current Channel Tx Rate.
current_channel-_rx_rate	• Current Channel Rx Rate.
max_channel_-tx_rate	• Max Channel Tx Rate.
max_channel_-rx_rate	• Max Channel Rx Rate.

8.1620.2 Field Documentation

8.1620.2.1 unsigned long WDSSWICurrentChannelRates::current_channel_rx_rate

8.1620.2.2 unsigned long WDSSWICurrentChannelRates::current_channel_tx_rate

8.1620.2.3 unsigned long WDSSWICurrentChannelRates::max_channel_rx_rate

8.1620.2.4 unsigned long WDSSWICurrentChannelRates::max_channel_tx_rate

Chapter 9

File Documentation

9.1 apdoxypages.c File Reference

Contains the module declaration for the Doxygen output. Also contains the content of the main page and related pages.

Namespaces

- Tables

9.1.1 Detailed Description

Contains the module declaration for the Doxygen output. Also contains the content of the main page and related pages.

9.2 common.h File Reference

Data Structures

- struct pack_qmi_t
- struct unpack_qmi_t
- struct unpack_result_t

Macros

- #define SDU_HDR_LEN (3)
- #define MINREQBKLEN (2048)
- #define MSGID_AND_LEN (4)
- #define MSGID_DONT_CARE (0xffff)
- #define UNUSEDPARAM(x) (void)x
- #define DEAULT_LOC_TIMEOUT_IN_SEC 2
- #define SDK_VALIDATE_INPUT_PACK_PARAM(pCtx, pBuf, pLen)
- #define SDK_VALIDATE_INPUT_PACK_PARAM_AND_FILL_XID(pCtx, pBuf, pLen)
- #define SDK_VALIDATE_INPUT_UNPACK_PARAM(pResp, respLen, pOutput)

Typedefs

- typedef void(∗ logger)(uint8_t lvl, const char ∗buff)

Enumerations

- enum eLOG_LEVEL {
  eLOG_INFO,
  eLOG_DEBUG,
  eLOG_WARN,
  eLOG_FATAL }
- enum eTimeout {
  eTIMEOUT_2_S = 2000,
  eTIMEOUT_5_S = 5000,
  eTIMEOUT_8_S = 8000,
  eTIMEOUT_10_S = 10000,
  eTIMEOUT_20_S = 20000,
  eTIMEOUT_30_S = 30000,
  eTIMEOUT_60_S = 60000,
  eTIMEOUT_300_S = 300000,
  eTIMEOUT_DEFAULT = eTIMEOUT_8_S }
- enum eQMI_SVC {
  eCTL,
  eWDS,
  eDMS,
  eNAS =3,
  eQOS,
  eSMS =5,
  ePDS =0x06,
  eVOICE =0x09,
  eCAT =0x0A,
  eUIM =0x0B,
  eLOC =0x10,
  eSAR =0x11,
  eIMS =0x12,
  eTMD =0x18,
  eIMSA =0x21,
  eRMS =225,
  eSWIOMA =240,
  eAUDIO =241,
  eSWIM2MCMD =243,
  eSWIM2MCMD_AVC2 =0xfd,
  eSWIOMAEXT =244,
  eSWIAUDIO = 245,
  eSWILOC =246,
  eSWIDMS =254 }
- enum msgtype {
  eREQ =0,
  eRSP =2,
  eIND =4 }

Functions

- uint16_t helper_get_xid (uint8_t ∗qmi_resp)
- uint16_t helper_get_error_code (uint8_t ∗qmi_resp)
- char ∗ helper_get_error_reason (uint16_t retVal)

- const char * helper_get_resp_ctx (uint8_t svc, uint8_t *pbuf, uint32_t len, unpack_qmi_t *pCtx)
- const char * helper_get_req_str (uint8_t svc, uint8_t *req, uint32_t len)
- unsigned unpack_result_code_only (uint8_t *pMdmResp)
- int helper_set_log_func (logger func)
- void liteqmi_log (uint8_t lvl, const char *fmt,...)
- int helper_set_log_lvl (uint8_t lvl)
- void fill_sdu_hdr (pack_qmi_t *pCtx, uint8_t *pReqBuf)
- void fill_pack_ctx (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, uint8_t svc, int timeout)
- char * get_version ()
- char * liteqmi_GetVersion ()
- void liteqmi_helper_decode7bitAsciiEncString (uint8_t *encoded_str, uint8_t encoded_len, uint8_t *decoded_str)

Variables

- logger glog
- uint8_t gloglvl

9.2.1 Macro Definition Documentation

9.2.1.1 #define DEAULT_LOC_TIMEOUT_IN_SEC 2

9.2.1.2 #define MINREQBKLEN (2048)

9.2.1.3 #define MSGID_AND_LEN (4)

9.2.1.4 #define MSGID_DONT_CARE (0xffff)

9.2.1.5 #define SDK_VALIDATE_INPUT_PACK_PARAM(*pCtx, pBuf, pLen*)

Value:

```
if ((pCtx == NULL) || (pBuf == NULL) || (pLen == NULL) ) \
        {\
        liteqmi_log(eLOG_DEBUG,"[  pack] %s parameter NULL\n",__func__); \
        return eQCWWAN_ERR_INVALID_ARG; \
        }
```

9.2.1.6 #define SDK_VALIDATE_INPUT_PACK_PARAM_AND_FILL_XID(*pCtx, pBuf, pLen*)

Value:

```
if ((pCtx == NULL) || (pBuf == NULL) || (pLen == NULL) ) \
        {\
        liteqmi_log(eLOG_DEBUG,"[  pack] %s parameter NULL\n",__func__); \
        return eQCWWAN_ERR_INVALID_ARG; \
        } \
    if (pCtx->xid == 0) \
       return eQCWWAN_ERR_INVALID_XID; \
    pBuf[0] = eREQ; \
    pBuf[1] = pCtx->xid & 0xff; \
    pBuf[2] = pCtx->xid >> 8;
```

9.2.1.7 #define SDK_VALIDATE_INPUT_UNPACK_PARAM(*pResp, respLen, pOutput*)

Value:

```
if ((pResp == NULL) || (respLen == 0) || (pOutput == NULL) ) \
        {\
        liteqmi_log(eLOG_DEBUG,"[ unpack] %s parameter NULL or invalid\n",
      __func__); \
        return eQCWWAN_ERR_INVALID_ARG; \
        }
```

9.2.1.8 #define SDU_HDR_LEN (3)

9.2.1.9 #define UNUSEDPARAM(*x*) (void)x

9.2.2 Typedef Documentation

9.2.2.1 typedef void(∗ logger)(uint8_t lvl, const char ∗buff)

9.2.3 Enumeration Type Documentation

9.2.3.1 enum eLOG_LEVEL

log levels

Enumerator

eLOG_INFO

eLOG_DEBUG

eLOG_WARN

eLOG_FATAL

9.2.3.2 enum eQMI_SVC

qmi service

Enumerator

eCTL

eWDS

eDMS

eNAS

eQOS

eSMS

ePDS

eVOICE

eCAT

eUIM

eLOC

eSAR

eIMS

eTMD

eIMSA

eRMS

eSWIOMA

eAUDIO

eSWIM2MCMD

eSWIM2MCMD_AVC2

eSWIOMAEXT

eSWIAUDIO

eSWILOC

eSWIDMS

9.2.3.3 enum eTimeout

eTimeout

Enumerator

eTIMEOUT_2_S

eTIMEOUT_5_S

eTIMEOUT_8_S

eTIMEOUT_10_S

eTIMEOUT_20_S

eTIMEOUT_30_S

eTIMEOUT_60_S

eTIMEOUT_300_S

eTIMEOUT_DEFAULT

9.2.3.4 enum msgtype

qmi message type

Enumerator

eREQ

eRSP

eIND

9.2.4 Function Documentation

9.2.4.1 void fill_pack_ctx (pack_qmi_t * *pCtx,* uint8_t * *pReqBuf,* uint16_t * *pLen,* uint8_t *svc,* int *timeout*)

9.2.4.2 void fill_sdu_hdr (pack_qmi_t * *pCtx,* uint8_t * *pReqBuf*)

9.2.4.3 char* get_version ( )

Returns

version string

9.2.4.4 uint16_t helper_get_error_code (uint8_t * *qmi_resp*)

9.2.4.5 char* helper_get_error_reason (uint16_t *retVal*)

9.2.4.6 const char* helper_get_req_str (uint8_t *svc,* uint8_t * *req,* uint32_t *len*)

extract msgid string from modem req

Parameters

in	*svc*	qmi service
in	*req*	qmi request
in	*len*	request length

Returns

qmi message string

9.2.4.7 const char* helper_get_resp_ctx (uint8_t *svc,* uint8_t * *pbuf,* uint32_t *len,* **unpack_qmi_t** * *pCtx*)

extract msgid/xid/type from modem reply

Parameters

in	*svc*	qmi service
in	*pbuf*	qmi response/indication
in	*len*	response/indication length
out	*pCtx*	unpacked context

Returns

qmi message string

9.2.4.8 uint16_t helper_get_xid (uint8_t * *qmi_resp*)

9.2.4.9 int helper_set_log_func (**logger** *func*)

set log function

9.2.4.10 int helper_set_log_lvl (uint8_t *lvl*)

set log level

9.2.4.11 char* liteqmi_GetVersion ( )

Returns

version string

9.2.4.12 void liteqmi_helper_decode7bitAsciiEncString (uint8_t * *encoded_str,* uint8_t *encoded_len,* uint8_t * *decoded_str*)

decode 7bit encoded string

Parameters

in	*encoded_str*	7 bit encoded ASCII
in	*encoded_len*	encoded length
out	*decoded_str*	decoded ASCII string

9.2.4.13 void liteqmi_log (uint8_t *lvl*, const char * *fmt*, ...)

9.2.4.14 unsigned unpack_result_code_only (uint8_t * *pMdmResp*)

common handler for unpacking response with TLV type 0x02 only

9.2.5 Variable Documentation

9.2.5.1 logger glog

9.2.5.2 uint8_t gloglvl

9.3 dms.h File Reference

Data Structures

- struct unpack_dms_GetModelID_t
- struct unpack_dms_GetIMSI_t
- struct unpack_dms_GetFirmwareInfo_t
- struct unpack_dms_GetPower_t
- struct unpack_dms_GetSerialNumbers_t
- struct unpack_dms_GetHardwareRevision_t
- struct unpack_dms_SLQSGetBandCapability_t
- struct unpack_dms_GetDeviceCapabilities_t
- struct unpack_dms_GetFirmwareRevisions_t
- struct unpack_dms_GetFirmwareRevision_t
- struct unpack_dms_GetDeviceSerialNumbers_t
- struct unpack_dms_GetPRLVersion_t
- struct unpack_dms_GetNetworkTime_t
- struct unpack_dms_GetVoiceNumber_t
- struct unpack_dms_GetDeviceHardwareRev_t
- struct unpack_dms_GetFSN_t
- struct unpack_dms_GetDeviceCap_t
- struct pack_dms_SetPower_t
- struct unpack_dms_SetPower_t
- struct unpack_dms_GetBandCapability_t
- struct unpack_dms_GetUSBComp_t
- struct pack_dms_SetUSBComp_t
- struct unpack_dms_SetUSBComp_t
- struct pack_dms_SetCustFeature_t
- struct unpack_dms_SetCustFeature_t
- struct unpack_dms_GetCustFeature_t
- struct unpack_dms_SetFirmwarePreference_t
- struct unpack_dms_GetCrashAction_t
- struct pack_dms_SetCrashAction_t
- struct unpack_dms_SetCrashAction_t
- struct unpack_dms_GetDeviceMfr_t

- struct pack_dms_SetEventReport_t
- struct unpack_dms_SetEventReport_t
- struct dms_OperatingModeTlv
- struct dms_ActivationStatusTlv
- struct unpack_dms_SetEventReport_ind_t
- struct pack_dms_UIMGetICCID_t
- struct unpack_dms_UIMGetICCID_t
- struct pack_dms_SetCustFeaturesV2_t
- struct unpack_dms_SetCustFeaturesV2_t
- struct pack_dms_GetCustFeaturesV2_t
- struct DMSgetCustomInput
- struct DMScustSettingInfo
- struct DMScustSettingList
- struct DMSgetCustomFeatureV2
- struct unpack_dms_GetCustFeaturesV2_t
- struct unpack_dms_GetActivationState_t
- struct image_info_t
- struct unpack_dms_SLQSSwiGetFirmwareCurr_t
- struct pack_dms_SLQSSwiSetDyingGaspCfg_t
- struct unpack_dms_SLQSSwiSetDyingGaspCfg_t
- struct unpack_dms_SLQSSwiClearDyingGaspStatistics_t
- struct packgetDyingGaspStatistics
- struct unpack_dms_SLQSSwiGetDyingGaspStatistics_t
- struct packgetDyingGaspCfg
- struct unpack_dms_SLQSSwiGetDyingGaspCfg_t
- struct unpack_dms_SLQSDmsSwiGetResetInfo_t
- struct unpack_dms_SLQSDmsSwiGetResetInfo_Ind_t
- struct pack_dms_SLQSDmsSwiIndicationRegister_t
- struct unpack_dms_SLQSDmsSwiIndicationRegister_t
- struct unpack_dms_SLQSSwiGetFwUpdateStatus_t
- struct unpack_dms_GetManufacturer_t
- struct unpack_dms_GetOfflineReason_t
- struct pack_dms_SetActivationStatusCallback_t
- struct unpack_dms_SetActivationStatusCallback_t
- struct pack_dms_UIMSetPINProtection_t
- struct unpack_dms_UIMSetPINProtection_t
- struct pack_dms_UIMUnblockPIN_t
- struct pack_dms_UIMVerifyPIN_t
- struct pack_dms_UIMChangePIN_t
- struct pack_dms_UIMGetControlKeyStatus_t
- struct unpack_dms_UIMGetControlKeyStatus_t
- struct unpack_dms_UIMGetPINStatus_t
- struct pack_dms_UIMSetControlKeyProtection_t
- struct unpack_dms_UIMSetControlKeyProtection_t
- struct pack_dms_UIMUnblockControlKey_t
- struct unpack_dms_UIMUnblockControlKey_t
- struct pack_dms_ResetToFactoryDefaults_t
- struct unpack_dms_ResetToFactoryDefaults_t
- struct pack_dms_ActivateAutomatic_t
- struct eriDataparams
- struct unpack_dms_SLQSGetERIFile_t
- struct unpack_dms_SLQSUIMGetState_t
- struct pack_dms_SLQSSwiGetCrashInfo_t
- struct crashInformation
- struct crashInfoParams

- struct unpack_dms_SLQSSwiGetCrashInfo_t
- struct unpack_dms_SLQSSwiGetHostDevInfo_t
- struct pack_dms_SLQSSwiSetHostDevInfo_t
- struct unpack_dms_SLQSSwiSetHostDevInfo_t
- struct unpack_dms_SLQSSwiGetOSInfo_t
- struct pack_dms_SLQSSwiSetOSInfo_t
- struct unpack_dms_SLQSSwiSetOSInfo_t
- struct unpack_dms_SLQSSwiGetSerialNoExt_t
- struct unpack_dms_SLQSDmsSwiGetPCInfo_t
- struct dms_PSMEnableStateTlv
- struct dms_PSMDurationThresholdTlv
- struct dms_PSMDurationDueToOOSTlv
- struct dms_PSMRandomizationWindowTlv
- struct dms_PSMActiveTimerTlv
- struct dms_PSMPeriodicUpdateTimerTlv
- struct dms_PSMEarlyWakeupTimeTlv
- struct unpack_dms_SLQSGetPowerSaveModeConfig_t
- struct pack_dms_SLQSSetPowerSaveModeConfig_t
- struct unpack_dms_SLQSSetPowerSaveModeConfig_t
- struct pack_dms_SetIndicationRegister_t
- struct unpack_dms_SetIndicationRegister_t
- struct dms_PSMEnableStateIndTlv
- struct dms_PSMActiveTimerIndTlv
- struct dms_PSMPeriodicUpdateTimerIndTlv
- struct unpack_dms_PSMCfgChange_ind_t
- struct pack_dms_SwiSetEventReport_t
- struct unpack_dms_SwiSetEventReport_t
- struct dms_TemperatureTlv
- struct dms_VoltageTlv
- struct unpack_dms_SwiEventReportCallBack_ind_t

Macros

- #define DMS_UINT8_MAX_STRING_SZ 255
- #define DMS_MAX_CUST_ID_LEN 64
- #define DMS_MAX_CUST_VALUE_LEN 8
- #define DMS_IMGDETAILS_LEN 16
- #define DMS_MAX_FWUPDATE_LOG_STR_SZ 255
- #define DMS_MAX_FWUPDATE_REF_STR_SZ 15
- #define DMS_VALID_FSN_LEN 14
- #define DMS_MAX_RADIO_IFCS_SIZE 64
- #define DMS_SLQSFWINFO_MODELID_SZ 20
- #define DMS_SLQSFWINFO_BOOTVERSION_SZ 85
- #define DMS_SLQSFWINFO_APPVERSION_SZ 85
- #define DMS_SLQSFWINFO_SKU_SZ 15
- #define DMS_SLQSFWINFO_PACKAGEID_SZ 85
- #define DMS_SLQSFWINFO_CARRIER_SZ 20
- #define DMS_SLQSFWINFO_PRIVERSION_SZ 16
- #define DMS_SLQSFWINFO_CUR_CARR_NAME 17
- #define DMS_SLQSFWINFO_CUR_CARR_REV 13
- #define MAX_BUILD_ID_LEN 255
- #define UNIQUE_ID_LEN 16
- #define SLQS_MAX_DYING_GASP_CFG_SMS_CONTENT_LENGTH 160
- #define SLQS_MAX_DYING_GASP_CFG_SMS_NUMBER_LENGTH 20

- #define SPC_SIZE 6
- #define CK_MAX_SIZE 8
- #define ACT_CODE_MAX_SIZE 81
- #define ERI_DATA_MAX_SIZE 1024
- #define MEID_MAX_SIZE 8
- #define DMS_PM_ONLINE 0x00 /∗ Online ∗/
- #define DMS_PM_LOW 0x01 /∗ Low Power ∗/
- #define DMS_PM_FACTORY 0x02 /∗ Factory Test Mode ∗/
- #define DMS_PM_OFFLINE 0x03 /∗ Offline ∗/
- #define DMS_PM_RESET 0x04 /∗ Reset ∗/
- #define DMS_PM_SHUT_DOWN 0x05 /∗ Shut Down ∗/
- #define DMS_PM_PERSISTENT_LOW 0x06 /∗ Persistent Low Power ∗/
- #define DMS_SET_REPORT_ENABLE 1
- #define DMS_SET_REPORT_DISABLE 0
- #define DMS_SWI_SET_IND_ENABLE 1
- #define DMS_SWI_SET_IND_DISABLE 0
- #define DMS_SET_REG_IND_ENABLE 1
- #define DMS_SET_REG_IND_DISABLE 0
- #define DMS_SET_REG_IND_NO_CHANGE 2

Functions

- int pack_dms_GetIMSI (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, void ∗reqArg)
- int unpack_dms_GetIMSI (uint8_t ∗pResp, uint16_t respLen, unpack_dms_GetIMSI_t ∗pOutput)
- int pack_dms_GetModelID (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, void ∗reqArg)
- int unpack_dms_GetModelID (uint8_t ∗pResp, uint16_t respLen, unpack_dms_GetModelID_t ∗pOutput)
- int pack_dms_GetFirmwareInfo (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, void ∗reqArg)
- int unpack_dms_GetFirmwareInfo (uint8_t ∗pResp, uint16_t respLen, unpack_dms_GetFirmwareInfo_t ∗pOutput)
- int pack_dms_GetPower (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, void ∗reqArg)
- int unpack_dms_GetPower (uint8_t ∗pResp, uint16_t respLen, unpack_dms_GetPower_t ∗pOutput)
- int pack_dms_GetSerialNumbers (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, void ∗reqArg)
- int unpack_dms_GetSerialNumbers (uint8_t ∗pResp, uint16_t respLen, unpack_dms_GetSerialNumbers_t ∗pOutput)
- int pack_dms_GetHardwareRevision (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, void ∗reqArg)
- int unpack_dms_GetHardwareRevision (uint8_t ∗pResp, uint16_t respLen, unpack_dms_GetHardwareRevision_t ∗pOutput)
- int pack_dms_SLQSGetBandCapability (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, void ∗reqArg)
- int unpack_dms_SLQSGetBandCapability (uint8_t ∗pResp, uint16_t respLen, unpack_dms_SLQSGetBandCapability_t ∗pOutput)
- int pack_dms_GetDeviceCapabilities (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, void ∗reqArg)
- int unpack_dms_GetDeviceCapabilities (uint8_t ∗pResp, uint16_t respLen, unpack_dms_GetDeviceCapabilities_t ∗pOutput)
- int pack_dms_GetFirmwareRevisions (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, void ∗reqArg)
- int unpack_dms_GetFirmwareRevisions (uint8_t ∗pResp, uint16_t respLen, unpack_dms_GetFirmwareRevisions_t ∗pOutput)
- int pack_dms_GetFirmwareRevision (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, void ∗reqArg)
- int unpack_dms_GetFirmwareRevision (uint8_t ∗pResp, uint16_t respLen, unpack_dms_GetFirmwareRevision_t ∗pOutput)
- int pack_dms_GetDeviceSerialNumbers (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, void ∗reqArg)
- int unpack_dms_GetDeviceSerialNumbers (uint8_t ∗pResp, uint16_t respLen, unpack_dms_GetDeviceSerialNumbers_t ∗pOutput)
- int pack_dms_GetPRLVersion (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, void ∗reqArg)
- int unpack_dms_GetPRLVersion (uint8_t ∗pResp, uint16_t respLen, unpack_dms_GetPRLVersion_t ∗pOutput)

- int pack_dms_GetNetworkTime (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, void *reqArg)
- int unpack_dms_GetNetworkTime (uint8_t *pResp, uint16_t respLen, unpack_dms_GetNetworkTime_t *pOutput)
- int pack_dms_GetVoiceNumber (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, void *reqArg)
- int unpack_dms_GetVoiceNumber (uint8_t *pResp, uint16_t respLen, unpack_dms_GetVoiceNumber_t *pOutput)
- int pack_dms_GetDeviceHardwareRev (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, void *reqArg)
- int unpack_dms_GetDeviceHardwareRev (uint8_t *pResp, uint16_t respLen, unpack_dms_GetDeviceHardwareRev_t *pOutput)
- int pack_dms_GetFSN (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, void *reqArg)
- int unpack_dms_GetFSN (uint8_t *pResp, uint16_t respLen, unpack_dms_GetFSN_t *pOutput)
- int pack_dms_GetDeviceCap (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, void *reqArg)
- int unpack_dms_GetDeviceCap (uint8_t *pResp, uint16_t respLen, unpack_dms_GetDeviceCap_t *pOutput)
- int pack_dms_SetPower (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_SetPower_t *reqArg)
- int unpack_dms_SetPower (uint8_t *pResp, uint16_t respLen, unpack_dms_SetPower_t *pOutput)
- int pack_dms_GetBandCapability (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, void *reqArg)
- int unpack_dms_GetBandCapability (uint8_t *pResp, uint16_t respLen, unpack_dms_GetBandCapability_t *pOutput)
- int pack_dms_GetUSBComp (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, void *reqArg)
- int unpack_dms_GetUSBComp (uint8_t *pResp, uint16_t respLen, unpack_dms_GetUSBComp_t *pOutput)
- int pack_dms_SetUSBComp (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_SetUSBComp_t *reqArg)
- int unpack_dms_SetUSBComp (uint8_t *pResp, uint16_t respLen, unpack_dms_SetUSBComp_t *pOutput)
- int pack_dms_SetCustFeature (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_SetCustFeature_t *reqArg)
- int unpack_dms_SetCustFeature (uint8_t *pResp, uint16_t respLen, unpack_dms_SetCustFeature_t *pOutput)
- int pack_dms_GetCustFeature (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, void *reqArg)
- int unpack_dms_GetCustFeature (uint8_t *pResp, uint16_t respLen, unpack_dms_GetCustFeature_t *pOutput)
- int pack_dms_SetFirmwarePreference (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, void *reqArg)
- int unpack_dms_SetFirmwarePreference (uint8_t *pResp, uint16_t respLen, unpack_dms_SetFirmwarePreference_t *pOutput)
- int pack_dms_GetCrashAction (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, void *reqArg)
- int unpack_dms_GetCrashAction (uint8_t *pResp, uint16_t respLen, unpack_dms_GetCrashAction_t *pOutput)
- int pack_dms_SetCrashAction (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_SetCrashAction_t reqArg)
- int unpack_dms_SetCrashAction (uint8_t *pResp, uint16_t respLen, unpack_dms_SetCrashAction_t *pOutput)
- int pack_dms_GetDeviceMfr (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, void *reqArg)
- int unpack_dms_GetDeviceMfr (uint8_t *pResp, uint16_t respLen, unpack_dms_GetDeviceMfr_t *pOutput)
- int pack_dms_SetEventReport (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_SetEventReport_t *reqArg)
- int unpack_dms_SetEventReport (uint8_t *pResp, uint16_t respLen, unpack_dms_SetEventReport_t *pOutput)
- int unpack_dms_SetEventReport_ind (uint8_t *pResp, uint16_t respLen, unpack_dms_SetEventReport_ind_t *pOutput)
- int pack_dms_UIMGetICCID (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_UIMGetICCID_t *reqArg)
- int unpack_dms_UIMGetICCID (uint8_t *pResp, uint16_t respLen, unpack_dms_UIMGetICCID_t *pOutput)
- int pack_dms_SetCustFeaturesV2 (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_SetCustFeaturesV2_t *reqArg)
- int unpack_dms_SetCustFeaturesV2 (uint8_t *pResp, uint16_t respLen, unpack_dms_SetCustFeaturesV2_t *pOutput)

- int pack_dms_GetCustFeaturesV2 (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_GetCustFeaturesV2_t *reqArg)
- int unpack_dms_GetCustFeaturesV2 (uint8_t *pResp, uint16_t respLen, unpack_dms_GetCustFeaturesV2_t *pOutput)
- int pack_dms_GetActivationState (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_dms_GetActivationState (uint8_t *pResp, uint16_t respLen, unpack_dms_GetActivationState_t *pOutput)
- int pack_dms_SLQSSwiGetFirmwareCurr (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_dms_SLQSSwiGetFirmwareCurr (uint8_t *pResp, uint16_t respLen, unpack_dms_SLQSSwiGetFirmwareCurr_t *pOutput)
- int pack_dms_SLQSSwiSetDyingGaspCfg (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_SLQSSwiSetDyingGaspCfg_t *reqArg)
- int unpack_dms_SLQSSwiSetDyingGaspCfg (uint8_t *pResp, uint16_t respLen, unpack_dms_SLQSSwiSetDyingGaspCfg_t *pOutput)
- int pack_dms_SLQSSwiClearDyingGaspStatistics (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_dms_SLQSSwiClearDyingGaspStatistics (uint8_t *pResp, uint16_t respLen, unpack_dms_SLQSSwiClearDyingGaspStatistics_t *pOutput)
- int pack_dms_SLQSSwiGetDyingGaspStatistics (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_dms_SLQSSwiGetDyingGaspStatistics (uint8_t *pResp, uint16_t respLen, unpack_dms_SLQSSwiGetDyingGaspStatistics_t *pOutput)
- int pack_dms_SLQSSwiGetDyingGaspCfg (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_dms_SLQSSwiGetDyingGaspCfg (uint8_t *pResp, uint16_t respLen, unpack_dms_SLQSSwiGetDyingGaspCfg_t *pOutput)
- int pack_dms_SLQSDmsSwiGetResetInfo (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_dms_SLQSDmsSwiGetResetInfo (uint8_t *pResp, uint16_t respLen, unpack_dms_SLQSDmsSwiGetResetInfo_t *pOutput)
- int unpack_dms_SLQSDmsSwiGetResetInfo_Ind (uint8_t *pResp, uint16_t respLen, unpack_dms_SLQSDmsSwiGetResetInfo_Ind_t *pOutput)
- int pack_dms_SLQSDmsSwiIndicationRegister (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_SLQSDmsSwiIndicationRegister_t *reqArg)
- int unpack_dms_SLQSDmsSwiIndicationRegister (uint8_t *pResp, uint16_t respLen, unpack_dms_SLQSDmsSwiIndicationRegister_t *pOutput)
- int pack_dms_SLQSSwiGetFwUpdateStatus (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_dms_SLQSSwiGetFwUpdateStatus (uint8_t *pResp, uint16_t respLen, unpack_dms_SLQSSwiGetFwUpdateStatus_t *pOutput)
- int pack_dms_GetManufacturer (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_dms_GetManufacturer (uint8_t *pResp, uint16_t respLen, unpack_dms_GetManufacturer_t *pOutput)
- int pack_dms_GetOfflineReason (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_dms_GetOfflineReason (uint8_t *pResp, uint16_t respLen, unpack_dms_GetOfflineReason_t *pOutput)
- int pack_dms_SetActivationStatusCallback (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_SetActivationStatusCallback_t *reqArg)
- int unpack_dms_SetActivationStatusCallback (uint8_t *pResp, uint16_t respLen, unpack_dms_SetActivationStatusCallback_t *pOutput)
- int pack_dms_UIMSetPINProtection (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_UIMSetPINProtection_t *pReq)
- int unpack_dms_UIMSetPINProtection (uint8_t *pResp, uint16_t respLen, unpack_dms_UIMSetPINProtection_t *pOutput)
- int pack_dms_UIMUnblockPIN (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_UIMUnblockPIN_t *pReq)
- int unpack_dms_UIMUnblockPIN (uint8_t *pResp, uint16_t respLen, unpack_dms_UIMSetPINProtection_t *pOutput)
- int pack_dms_UIMVerifyPIN (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_UIMVerifyPIN_t *pReq)

- int unpack_dms_UIMVerifyPIN (uint8_t *pResp, uint16_t respLen, unpack_dms_UIMSetPINProtection_t *pOutput)
- int pack_dms_UIMChangePIN (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_UIMChangePIN_t *pReq)
- int unpack_dms_UIMChangePIN (uint8_t *pResp, uint16_t respLen, unpack_dms_UIMSetPINProtection_t *pOutput)
- int pack_dms_UIMGetControlKeyStatus (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_UIMGetControlKeyStatus_t *pReq)
- int unpack_dms_UIMGetControlKeyStatus (uint8_t *pResp, uint16_t respLen, unpack_dms_UIMGetControlKeyStatus_t *pOutput)
- int pack_dms_UIMGetPINStatus (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_dms_UIMGetPINStatus (uint8_t *pResp, uint16_t respLen, unpack_dms_UIMGetPINStatus_t *pOutput)
- int pack_dms_UIMSetControlKeyProtection (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_UIMSetControlKeyProtection_t *pReq)
- int unpack_dms_UIMSetControlKeyProtection (uint8_t *pResp, uint16_t respLen, unpack_dms_UIMSetControlKeyProtection_t *pOutput)
- int pack_dms_UIMUnblockControlKey (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_UIMUnblockControlKey_t *pReq)
- int unpack_dms_UIMUnblockControlKey (uint8_t *pResp, uint16_t respLen, unpack_dms_UIMUnblockControlKey_t *pOutput)
- int pack_dms_ResetToFactoryDefaults (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_ResetToFactoryDefaults_t *pReq)
- int unpack_dms_ResetToFactoryDefaults (uint8_t *pResp, uint16_t respLen, unpack_dms_ResetToFactoryDefaults_t *pOutput)
- int pack_dms_ValidateSPC (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_ResetToFactoryDefaults_t *pReq)
- int unpack_dms_ValidateSPC (uint8_t *pResp, uint16_t respLen, unpack_dms_ResetToFactoryDefaults_t *pOutput)
- int pack_dms_ActivateAutomatic (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_ActivateAutomatic_t *pReq)
- int unpack_dms_ActivateAutomatic (uint8_t *pResp, uint16_t respLen, unpack_dms_ResetToFactoryDefaults_t *pOutput)
- int pack_dms_SLQSGetERIFile (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_dms_SLQSGetERIFile (uint8_t *pResp, uint16_t respLen, unpack_dms_SLQSGetERIFile_t *pOutput)
- int pack_dms_SLQSUIMGetState (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_dms_SLQSUIMGetState (uint8_t *pResp, uint16_t respLen, unpack_dms_SLQSUIMGetState_t *pOutput)
- int pack_dms_SLQSSwiGetCrashInfo (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_SLQSSwiGetCrashInfo_t *pReq)
- int unpack_dms_SLQSSwiGetCrashInfo (uint8_t *pResp, uint16_t respLen, unpack_dms_SLQSSwiGetCrashInfo_t *pOutput)
- int pack_dms_SLQSSwiGetHostDevInfo (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_dms_SLQSSwiGetHostDevInfo (uint8_t *pResp, uint16_t respLen, unpack_dms_SLQSSwiGetHostDevInfo_t *pOutput)
- int pack_dms_SLQSSwiSetHostDevInfo (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_SLQSSwiSetHostDevInfo_t *pReq)
- int unpack_dms_SLQSSwiSetHostDevInfo (uint8_t *pResp, uint16_t respLen, unpack_dms_SLQSSwiSetHostDevInfo_t *pOutput)
- int pack_dms_SLQSSwiGetOSInfo (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_dms_SLQSSwiGetOSInfo (uint8_t *pResp, uint16_t respLen, unpack_dms_SLQSSwiGetOSInfo_t *pOutput)
- int pack_dms_SLQSSwiSetOSInfo (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_SLQSSwiSetOSInfo_t *pReq)

- int unpack_dms_SLQSSwiSetOSInfo (uint8_t *pResp, uint16_t respLen, unpack_dms_SLQSSwiSetOSInfo_t *pOutput)
- int pack_dms_SLQSSwiGetSerialNoExt (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_dms_SLQSSwiGetSerialNoExt (uint8_t *pResp, uint16_t respLen, unpack_dms_SLQSSwiGetSerialNoExt_t *pOutput)
- int pack_dms_SLQSDmsSwiGetPCInfo (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, void *reqArg)
- int unpack_dms_SLQSDmsSwiGetPCInfo (uint8_t *pResp, uint16_t respLen, unpack_dms_SLQSDmsSwiGetPCInfo_t *pOutput)
- int pack_dms_SLQSGetPowerSaveModeConfig (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, void *reqArg)
- int unpack_dms_SLQSGetPowerSaveModeConfig (uint8_t *pResp, uint16_t respLen, unpack_dms_SLQSGetPowerSaveModeConfig_t *pOutput)
- int pack_dms_SLQSSetPowerSaveModeConfig (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_SLQSSetPowerSaveModeConfig_t *reqArg)
- int unpack_dms_SLQSSetPowerSaveModeConfig (uint8_t *pResp, uint16_t respLen, unpack_dms_SLQSSetPowerSaveModeConfig_t *pOutput)
- int pack_dms_SetIndicationRegister (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_SetIndicationRegister_t *reqArg)
- int unpack_dms_SetIndicationRegister (uint8_t *pResp, uint16_t respLen, unpack_dms_SetIndicationRegister_t *pOutput)
- int unpack_dms_PSMCfgChange_ind (uint8_t *pResp, uint16_t respLen, unpack_dms_PSMCfgChange_ind_t *pOutput)
- int pack_dms_SwiSetEventReport (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_dms_SwiSetEventReport_t *reqArg)
- int unpack_dms_SwiSetEventReport (uint8_t *pResp, uint16_t respLen, unpack_dms_SwiSetEventReport_t *pOutput)
- int unpack_dms_SwiEventReportCallBack_ind (uint8_t *pResp, uint16_t respLen, unpack_dms_SwiEventReportCallBack_ind_t *pOutput)

9.3.1 Macro Definition Documentation

9.3.1.1 #define ACT_CODE_MAX_SIZE 81

9.3.1.2 #define CK_MAX_SIZE 8

9.3.1.3 #define DMS_IMGDETAILS_LEN 16

9.3.1.4 #define DMS_MAX_CUST_ID_LEN 64

9.3.1.5 #define DMS_MAX_CUST_VALUE_LEN 8

9.3.1.6 #define DMS_MAX_FWUPDATE_LOG_STR_SZ 255

9.3.1.7 #define DMS_MAX_FWUPDATE_REF_STR_SZ 15

9.3.1.8 #define DMS_MAX_RADIO_IFCS_SIZE 64

9.3.1.9 #define DMS_PM_FACTORY 0x02 /* Factory Test Mode */

9.3.1.10 #define DMS_PM_LOW 0x01 /* Low Power */

9.3.1.11 #define DMS_PM_OFFLINE 0x03 /* Offline */

9.3.1.12 #define DMS_PM_ONLINE 0x00 /* Online */

9.3.1.13 #define DMS_PM_PERSISTENT_LOW 0x06 /∗ Persistent Low Power ∗/

9.3.1.14 #define DMS_PM_RESET 0x04 /∗ Reset ∗/

9.3.1.15 #define DMS_PM_SHUT_DOWN 0x05 /∗ Shut Down ∗/

9.3.1.16 #define DMS_SET_REG_IND_DISABLE 0

9.3.1.17 #define DMS_SET_REG_IND_ENABLE 1

9.3.1.18 #define DMS_SET_REG_IND_NO_CHANGE 2

9.3.1.19 #define DMS_SET_REPORT_DISABLE 0

9.3.1.20 #define DMS_SET_REPORT_ENABLE 1

9.3.1.21 #define DMS_SLQSFWINFO_APPVERSION_SZ 85

9.3.1.22 #define DMS_SLQSFWINFO_BOOTVERSION_SZ 85

9.3.1.23 #define DMS_SLQSFWINFO_CARRIER_SZ 20

9.3.1.24 #define DMS_SLQSFWINFO_CUR_CARR_NAME 17

9.3.1.25 #define DMS_SLQSFWINFO_CUR_CARR_REV 13

9.3.1.26 #define DMS_SLQSFWINFO_MODELID_SZ 20

9.3.1.27 #define DMS_SLQSFWINFO_PACKAGEID_SZ 85

9.3.1.28 #define DMS_SLQSFWINFO_PRIVERSION_SZ 16

9.3.1.29 #define DMS_SLQSFWINFO_SKU_SZ 15

9.3.1.30 #define DMS_SWI_SET_IND_DISABLE 0

9.3.1.31 #define DMS_SWI_SET_IND_ENABLE 1

9.3.1.32 #define DMS_UINT8_MAX_STRING_SZ 255

9.3.1.33 #define DMS_VALID_FSN_LEN 14

9.3.1.34 #define ERI_DATA_MAX_SIZE 1024

9.3.1.35 #define MAX_BUILD_ID_LEN 255

9.3.1.36 #define MEID_MAX_SIZE 8

9.3.1.37 #define SLQS_MAX_DYING_GASP_CFG_SMS_CONTENT_LENGTH 160

9.3.1.38 #define SLQS_MAX_DYING_GASP_CFG_SMS_NUMBER_LENGTH 20

9.3.1.39 #define SPC_SIZE 6

9.3.1.40 #define UNIQUE_ID_LEN 16

9.3.2 Function Documentation

9.3.2.1 int pack_dms_ActivateAutomatic (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_dms_ActivateAutomatic_t * *pReq*)

Requests the device to perform automatic service activation pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
out	*pReq*	requeset parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.2 int pack_dms_GetActivationState (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Get Activation State pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

This is only supported for 3GPP2 devices.

9.3.2.3 int pack_dms_GetBandCapability (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, void * *reqArg*)

Get Band Capability pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter(NULL)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.4 int pack_dms_GetCrashAction (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, void * *reqArg*)

Get Crash Action pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter(NULL)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.5 int pack_dms_GetCustFeature (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, void * *reqArg*)

Get Custom Feature pack. This API is deprecated for EM74xx/MC74xx, please use pack_dms_GetCustFeatures-V2() instead for EM74xx/MC74xx.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter(NULL)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.6 int pack_dms_GetCustFeaturesV2 (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_dms_GetCustFeaturesV2_t * *reqArg*)

Get Custom Feature pack This function queries the modem for a list of supported features. This function is for firmware version 2.0 and newer. Currently supported Customization features:

- GPIOSARENABLE

- GPSSEL
- IMSWITCHHIDE
- IPV6ENABLE
- WAKEHOSTEN

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.7 int pack_dms_GetDeviceCap (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, void * *reqArg*)

Get Device Capabilities pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter(NULL)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.8 int pack_dms_GetDeviceCapabilities (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, void * *reqArg*)

Get device capability pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter(NULL)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.9 int pack_dms_GetDeviceHardwareRev (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, void * *reqArg*)

Get Hardware Revision of the device pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter(NULL)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.10 int pack_dms_GetDeviceMfr (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, void * *reqArg*)

Get Device Manufacture Name pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter(NULL)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.11 int pack_dms_GetDeviceSerialNumbers (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, void * *reqArg*)

Get Device Serial Number pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter(NULL)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.12 int pack_dms_GetFirmwareInfo (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, void * *reqArg*)

Get firmware info pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter(NULL)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.13 int pack_dms_GetFirmwareRevision (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, void * *reqArg*)

Get Firmware Revision pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter(NULL)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.14 int pack_dms_GetFirmwareRevisions (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, void * *reqArg*)

Get Firmware Revisions pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter(NULL)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.15 int pack_dms_GetFSN (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, void * *reqArg*)

Get FSN pack. This API get the Factory Sequence Number of the device.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter(NULL)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.16 int pack_dms_GetHardwareRevision (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, void * *reqArg*)

Get hardware revision of the device pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter(NULL)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.17 int pack_dms_GetIMSI (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, void * *reqArg*)

Get IMSI pack. This API is deprecated on MC73xx/EM73xx modules since firmware version SWI9X15C_05_xx_-xx_xx and all EM74xx firmware versions. Please use pack_uim_ReadTransparent()(EF ID: 3F00 7F20 6F07 for 2G card and 3F00 7FFF 6F07 for 3G card) instead for new firmware versions and new modules.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter(NULL)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.18 int pack_dms_GetManufacturer (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

To get device manufacturer information pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.19 int pack_dms_GetModelID (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, void * *reqArg*)

Get model id pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter(NULL)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.20 int pack_dms_GetNetworkTime (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, void * *reqArg*)

Get Network Time pack Returns the current time of the device based on the value supported by the network.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter(NULL)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.21 int pack_dms_GetOfflineReason (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

To get operating mode offline reason pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.22 int pack_dms_GetPower (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, void * *reqArg*)

Get operating mode of the device pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter(NULL)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.23 int pack_dms_GetPRLVersion (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, void * *reqArg*)

Get PRL Versions pack. Return version of the active Preferred Roaming List (PRL) in use by the device.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter(NULL)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.24 int pack_dms_GetSerialNumbers (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, void * *reqArg*)

Get serial numbers pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter(NULL)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.25 int pack_dms_GetUSBComp (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, void * *reqArg*)

Get USB Comp pack This API queries the modem's USB interface configuration and supported configuration parameters.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter(NULL)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.26 int pack_dms_GetVoiceNumber (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, void * reqArg)

Get Voice Number pack. Returns the voice number in use by the device.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter(NULL)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.27 int pack_dms_ResetToFactoryDefaults (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_dms_ResetToFactoryDefaults_t * pReq)

Resets to default factory settings of the device pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
out	*pReq*	requeset parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.28 int pack_dms_SetActivationStatusCallback (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_dms_SetActivationStatusCallback_t * reqArg)

Set activation status pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.29 int pack_dms_SetCrashAction (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_dms_SetCrashAction_t *reqArg*)

Set Crash Action pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.30 int pack_dms_SetCustFeature (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_dms_SetCustFeature_t * *reqArg*)

Set Custom Feature pack. This API is deprecated for EM74xx/MC74xx, please use pack_dms_SetCustFeatures-V2() instead for EM74xx/MC74xx.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.31 int pack_dms_SetCustFeaturesV2 (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_dms_SetCustFeaturesV2_t * *reqArg*)

Set Cust Features pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.32 int pack_dms_SetEventReport (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_dms_SetEventReport_t * *reqArg*)

Set Event Report pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.33 int pack_dms_SetFirmwarePreference (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, void * *reqArg*)

Set Firmware Preference pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter(NULL)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.34 int pack_dms_SetIndicationRegister (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_dms_SetIndicationRegister_t * *reqArg*)

Set Indication register pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.35 int pack_dms_SetPower (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_dms_SetPower_t * *reqArg*)

Set Power pack Sets the operating mode of the device.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.36 int pack_dms_SetUSBComp (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_dms_SetUSBComp_t * *reqArg*)

Set USB Comp pack This API is used to change the modem's USB interface configuration thus allowing a device to have multiple USB compositions. Devices will, by default, be configured to support a minimal set of interfaces to reduce end user modem installation time. Developers and some customers, however, require access to a custom set of interfaces. A reset is required for any change in the USB composition to take effect.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.37 int pack_dms_SLQSDmsSwiGetPCInfo (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, void * *reqArg*)

Get device power control status information pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter(NULL)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.38 int pack_dms_SLQSDmsSwiGetResetInfo (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

To get reset info pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.39 int pack_dms_SLQSDmsSwiIndicationRegister (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_dms_SLQSDmsSwiIndicationRegister_t * *reqArg*)

Set the registration state for different indication pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

Note

support EM/MC74xx onwards

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.40 int pack_dms_SLQSGetBandCapability (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, void * *reqArg*)

Get band capability of the device pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter(NULL)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.41 int pack_dms_SLQSGetERIFile (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

To set UIM Get ERI file pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.42 int pack_dms_SLQSGetPowerSaveModeConfig (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, void * *reqArg*)

Get Power Save Mode (PSM) configuration parameter pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter(NULL)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.43 int pack_dms_SLQSSetPowerSaveModeConfig (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_dms_SLQSSetPowerSaveModeConfig_t * *reqArg*)

Sets the Power Save Mode (PSM) configuration parameters pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.44 int pack_dms_SLQSSwiClearDyingGaspStatistics (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Clear Dying GASP Statistics pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.45 int pack_dms_SLQSSwiGetCrashInfo (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_dms_SLQSSwiGetCrashInfo_t * *pReq*)

To Get the Crash Information from the device pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
out	*pReq*	requeset parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.46 int pack_dms_SLQSSwiGetDyingGaspCfg (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Get Dying GASP Config pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.47 int pack_dms_SLQSSwiGetDyingGaspStatistics (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Get Dying GASP Statistics pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.48 int pack_dms_SLQSSwiGetFirmwareCurr (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen)

Get currently active image pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.49 int pack_dms_SLQSSwiGetFwUpdateStatus (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen)

To get Firmware Update status pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.50 int pack_dms_SLQSSwiGetHostDevInfo (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen)

To get host dev information pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.51 int pack_dms_SLQSSwiGetOSInfo (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

To Get Host OS Info pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.52 int pack_dms_SLQSSwiGetSerialNoExt (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

To get serial number extension pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.53 int pack_dms_SLQSSwiSetDyingGaspCfg (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_dms_SLQSSwiSetDyingGaspCfg_t * *reqArg*)

Set Dying GASP Config pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.54 int pack_dms_SLQSSwiSetHostDevInfo (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_dms_SLQSSwiSetHostDevInfo_t * pReq)

To set Host Dev Info pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
out	*pReq*	requeset parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.55 int pack_dms_SLQSSwiSetOSInfo (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_dms_SLQSSwiSetOSInfo_t * pReq)

To set Host OS Info pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
out	*pReq*	requeset parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.56 int pack_dms_SLQSUIMGetState (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen)

Returns the UIM state pack. This API is deprecated on MC73xx/EM73xx modules since firmware version SWI9-X15C_05_xx_xx_xx and all EM74xx firmware versions. Please use API unpack_uim_GetCardStatus/ unpack_uim-_GetCardStatus for new firmware versions and new modules

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.57 int pack_dms_SwiSetEventReport (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_dms_SwiSetEventReport_t * *reqArg*)

Sets the DMS swi event report parameters pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.58 int pack_dms_UIMChangePIN (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_dms_UIMChangePIN_t * *pReq*)

To set UIM change PIN pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
out	*pReq*	requeset parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.59 int pack_dms_UIMGetControlKeyStatus (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_dms_UIMGetControlKeyStatus_t * *pReq*)

To set UIM Get Control Key Status pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
out	*pReq*	requeset parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.60 int pack_dms_UIMGetICCID (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_dms_UIMGetICCID_t * *reqArg*)

Packs the UIMGetICCID response message to a user-provided response structure. This API is deprecated on MC73xx/EM73xx modules. Since firmware version SWI9X15C_05_xx_xx_xx and all EM74xx firmware versions. Please use pack_uim_ReadTransparent()(EF ID: 3F00 2FE2) instead for new firmware versions and new modules.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.61 int pack_dms_UIMGetPINStatus (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

To set UIM Get PIN Status pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.62 int pack_dms_UIMSetControlKeyProtection (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_dms_UIMSetControlKeyProtection_t * *pReq*)

To set UIM Set Control Key Protection pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
out	*pReq*	requeset parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.63 int pack_dms_UIMSetPINProtection (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_dms_UIMSetPINProtection_t * *pReq*)

To set UIM PIN protection pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
out	*pReq*	requeset parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.64 int pack_dms_UIMUnblockControlKey (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_dms_UIMUnblockControlKey_t * *pReq*)

To set UIM Unblock Control Key pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
out	*pReq*	requeset parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.65 int pack_dms_UIMUnblockPIN (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_dms_UIMUnblockPIN_t * *pReq*)

To set UIM unblock PIN pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
out	*pReq*	requeset parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.66 int pack_dms_UIMVerifyPIN (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_dms_UIMVerifyPIN_t * *pReq*)

To set UIM verify PIN pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
out	*pReq*	requeset parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.67 int pack_dms_ValidateSPC (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_dms_ResetToFactoryDefaults_t * *pReq*)

Requests the device to perform automatic service activation pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
out	*pReq*	requeset parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.68 int unpack_dms_ActivateAutomatic (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_ResetToFactory-Defaults_t * *pOutput*)

Requests the device to perform automatic service activation unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.69 int unpack_dms_GetActivationState (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_GetActivationState_t * *pOutput*)

Get Activation State unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

This is only supported for 3GPP2 devices.

9.3.2.70 int unpack_dms_GetBandCapability (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_GetBandCapability_t** * *pOutput*)

Get Band Capabilities unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.71 int unpack_dms_GetCrashAction (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_GetCrashAction_t** * *pOutput*)

Get Crash Action unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.72 int unpack_dms_GetCustFeature (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_GetCustFeature_t** * *pOutput*)

Get Custom Feature unpack. This API is deprecated for EM74xx/MC74xx, please use unpack_dms_GetCustFeaturesV2() instead for EM74xx/MC74xx.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.73 int unpack_dms_GetCustFeaturesV2 (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_GetCustFeaturesV2_t * *pOutput*)

Get Custom Feature unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.74 int unpack_dms_GetDeviceCap (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_GetDeviceCap_t * *pOutput*)

Get Device Capabilities unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.75 int unpack_dms_GetDeviceCapabilities (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_GetDeviceCapabilities_t * *pOutput*)

Get device capability unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.76 int unpack_dms_GetDeviceHardwareRev (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_GetDeviceHardwareRev_t * *pOutput*)

Get Hardware Revision of the device unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.77 int unpack_dms_GetDeviceMfr (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_GetDeviceMfr_t * *pOutput*)

Get Device Manufacture Name unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.78 int unpack_dms_GetDeviceSerialNumbers (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_GetDeviceSerialNumbers_t * *pOutput*)

Get Device Serial Number unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.79 int unpack_dms_GetFirmwareInfo (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_GetFirmwareInfo_t * *pOutput*)

Get firmware info unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.80 int unpack_dms_GetFirmwareRevision (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_GetFirmwareRevision_t * *pOutput*)

Get Firmware Revision unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.81 int unpack_dms_GetFirmwareRevisions (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_GetFirmwareRevisions_t * *pOutput*)

Get Firmware Revisions unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.82 int unpack_dms_GetFSN (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_GetFSN_t** * *pOutput*)

Get FSN unpack This API get the Factory Sequence Number of the device.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.83 int unpack_dms_GetHardwareRevision (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_GetHardwareRevision_t** * *pOutput*)

Get hardware revision of the device unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.84 int unpack_dms_GetIMSI (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_GetIMSI_t** * *pOutput*)

Get IMSI unpack. This API is deprecated on MC73xx/EM73xx modules since firmware version SWI9X15C_05_xx_xx_xx and all EM74xx firmware versions. Please use unpack_uim_ReadTransparent()(EF ID: 3F00 7F20 6F07 for 2G card and 3F00 7FFF 6F07 for 3G card) instead for new firmware versions and new modules.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.85 int unpack_dms_GetManufacturer (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_GetManufacturer_t * *pOutput*)

To get device manufacturer information unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.86 int unpack_dms_GetModelID (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_GetModelID_t * *pOutput*)

Get model id unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.87 int unpack_dms_GetNetworkTime (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_GetNetworkTime_t * *pOutput*)

Get Network Time unpack. Returns the current time of the device based on the value supported by the network.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.88 int unpack_dms_GetOfflineReason (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_GetOfflineReason_t** * *pOutput*)

To get operating mode offline reason unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.89 int unpack_dms_GetPower (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_GetPower_t** * *pOutput*)

Get operating mode of the device unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.90 int unpack_dms_GetPRLVersion (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_GetPRLVersion_t** * *pOutput*)

Get PRL Versions unpack Return version of the active Preferred Roaming List (PRL) in use by the device.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.91 int unpack_dms_GetSerialNumbers (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_GetSerialNumbers_t * *pOutput*)

Get serial numbers unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.92 int unpack_dms_GetUSBComp (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_GetUSBComp_t * *pOutput*)

Get USB Comp unpack This API queries the modem's USB interface configuration and supported configuration parameters.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.93 int unpack_dms_GetVoiceNumber (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_GetVoiceNumber_t * *pOutput*)

Get Voice Number unpack Returns the voice number in use by the device.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.94 int unpack_dms_PSMCfgChange_ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_PSMCfgChange_ind_t** * *pOutput*)

PSM Configuration change Indication unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.95 int unpack_dms_ResetToFactoryDefaults (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_ResetToFactoryDefaults_t** * *pOutput*)

Resets to default factory settings of the device unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.96 int unpack_dms_SetActivationStatusCallback (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_SetActivationStatusCallback_t** * *pOutput*)

Set Activation status unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.97 int unpack_dms_SetCrashAction (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_SetCrashAction_t** * *pOutput*)

Set Crash Action unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response. Not used

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.98 int unpack_dms_SetCustFeature (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_SetCustFeature_t** * *pOutput*)

Set Custom Feature unpack. This API is deprecated for EM74xx/MC74xx, please use unpack_dms_SetCustFeaturesV2() instead for EM74xx/MC74xx.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.99 int unpack_dms_SetCustFeaturesV2 (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_SetCustFeaturesV2_t** * *pOutput*)

Set Cust features unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.100 int unpack_dms_SetEventReport (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_SetEventReport_t** * *pOutput*)

Set Event Report unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.101 int unpack_dms_SetEventReport_ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_SetEventReport_ind_t** * *pOutput*)

Event Report Indication unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.102 int unpack_dms_SetFirmwarePreference (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_SetFirmwarePreference_t * *pOutput*)

Set Firmware Preference unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.103 int unpack_dms_SetIndicationRegister (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_SetIndication-Register_t * *pOutput*)

Set Indication register unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.104 int unpack_dms_SetPower (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_SetPower_t * *pOutput*)

Set Power unpack. Sets the operating mode of the device.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.105 int unpack_dms_SetUSBComp (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_SetUSBComp_t** * *pOutput*)

Set USB Comp unpack This API is used to change the modem's USB interface configuration thus allowing a device to have multiple USB compositions. Devices will, by default, be configured to support a minimal set of interfaces to reduce end user modem installation time. Developers and some customers, however, require access to a custom set of interfaces. A reset is required for any change in the USB composition to take effect.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.106 int unpack_dms_SLQSDmsSwiGetPCInfo (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_SLQSDmsSwiGetPCInfo_t** * *pOutput*)

Get device power control status information unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.107 int unpack_dms_SLQSDmsSwiGetResetInfo (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_SLQSDmsSwiGetResetInfo_t** * *pOutput*)

To get reset info unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.108 int unpack_dms_SLQSDmsSwiGetResetInfo_Ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_SLQSDmsSwiGetResetInfo_Ind_t** * *pOutput*)

DMS reset info Indication unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

Note

support EM/MC74xx onwards

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.109 int unpack_dms_SLQSDmsSwiIndicationRegister (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_SLQSDmsSwiIndicationRegister_t** * *pOutput*)

Set the registration state for different indication unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

Note

support EM/MC74xx onwards

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.110 int unpack_dms_SLQSGetBandCapability (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_SLQSGetBandCapability_t** * *pOutput*)

Get band capability of the device unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.111 int unpack_dms_SLQSGetERIFile (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_SLQSGetERIFile_t** * *pOutput*)

To get UIM Get ERI file unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.112 int unpack_dms_SLQSGetPowerSaveModeConfig (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_SLQSGetPowerSaveModeConfig_t** * *pOutput*)

Get Power Save Mode (PSM) configuration parameter unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.113 int unpack_dms_SLQSSetPowerSaveModeConfig (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_SLQSSetPowerSaveModeConfig_t * *pOutput*)

Sets the Power Save Mode (PSM) configuration parameters unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.114 int unpack_dms_SLQSSwiClearDyingGaspStatistics (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_SLQSSwiClearDyingGaspStatistics_t * *pOutput*)

Clear Dying GASP Statistics unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.115 int unpack_dms_SLQSSwiGetCrashInfo (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_SLQSSwiGetCrashInfo_t * *pOutput*)

To Get the Crash Information from the device unpack.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.116 int unpack_dms_SLQSSwiGetDyingGaspCfg (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_SLQSSwiGetDyingGaspCfg_t * *pOutput*)

Get Dying GASP Config unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.117 int unpack_dms_SLQSSwiGetDyingGaspStatistics (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_SLQSSwiGetDyingGaspStatistics_t * *pOutput*)

Get Dying GASP Statistics unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.118 int unpack_dms_SLQSSwiGetFirmwareCurr (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_SLQSSwiGetFirmwareCurr_t * *pOutput*)

Get currently active image unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.119 int unpack_dms_SLQSSwiGetFwUpdateStatus (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_SLQSSwiGetFwUpdateStatus_t * *pOutput*)

To get Firmware Update status unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.120 int unpack_dms_SLQSSwiGetHostDevInfo (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_SLQSSwiGetHostDevInfo_t * *pOutput*)

To get host dev information unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.121 int unpack_dms_SLQSSwiGetOSInfo (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_SLQSSwiGetOSInfo_t * *pOutput*)

To get Host OS Info unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.122 int unpack_dms_SLQSSwiGetSerialNoExt (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_SLQSSwiGetSerialNoExt_t * *pOutput*)

To get serial number extension unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.123 int unpack_dms_SLQSSwiSetDyingGaspCfg (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_SLQSSwiSetDyingGaspCfg_t * *pOutput*)

Set Dying GASP Config unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.124 int unpack_dms_SLQSSwiSetHostDevInfo (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_SLQSSwiSetHostDevInfo_t * *pOutput*)

To set Host Dev Info unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.125 int unpack_dms_SLQSSwiSetOSInfo (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_SLQSSwiSetOSInfo_t** * *pOutput*)

To set Host OS Info unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.126 int unpack_dms_SLQSUIMGetState (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_SLQSUIMGetState_t** * *pOutput*)

Returns the UIM state unpack. This API is deprecated on MC73xx/EM73xx modules since firmware version SW-I9X15C_05_xx_xx_xx and all EM74xx firmware versions. Please use API unpack_uim_GetCardStatus / unpack_-uim_GetCardStatus for new firmware versions and new modules

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.127 int unpack_dms_SwiEventReportCallBack_ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_SwiEventReportCallBack_ind_t** * *pOutput*)

unpack for DMS swi event report indication

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.128 int unpack_dms_SwiSetEventReport (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_SwiSetEventReport_t** * *pOutput*)

Sets the swi event report parameters unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.129 int unpack_dms_UIMChangePIN (uint8_t * *pResp*, uint16_t *respLen*, **unpack_dms_UIMSetPINProtection_t** * *pOutput*)

To get UIM change PIN unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.130 int unpack_dms_UIMGetControlKeyStatus (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_UIMGetControlKeyStatus_t * *pOutput*)

To get UIM Get ControlKeyStatus unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.131 int unpack_dms_UIMGetICCID (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_UIMGetICCID_t * *pOutput*)

Unpacks the UIMGetICCID response message to a user-provided response structure.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.132 int unpack_dms_UIMGetPINStatus (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_UIMGetPINStatus_t * *pOutput*)

To get UIM Get PIN Status unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.133 int unpack_dms_UIMSetControlKeyProtection (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_UIMSetControlKeyProtection_t * *pOutput*)

To get UIM Set Control Key Protection unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.134 int unpack_dms_UIMSetPINProtection (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_UIMSetPINProtection_t * *pOutput*)

To get UIM Set PIN protection unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.135 int unpack_dms_UIMUnblockControlKey (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_UIMUnblockControlKey_t * *pOutput*)

To get UIM Unblock Control Key unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.136 int unpack_dms_UIMUnblockPIN (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_UIMSetPINProtection_t * *pOutput*)

To get UIM unblock PIN unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.137 int unpack_dms_UIMVerifyPIN (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_UIMSetPINProtection_t * *pOutput*)

To get UIM verify PIN unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.3.2.138 int unpack_dms_ValidateSPC (uint8_t * *pResp*, uint16_t *respLen*, unpack_dms_ResetToFactoryDefaults_t * *pOutput*)

Requests the device to perform automatic service activation unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.4 fms.h File Reference

Data Structures

- struct CarrierImage_t
- struct pack_fms_GetImagesPreference_t
- struct FMSImageElement
- struct FMSPrefImageList
- struct unpack_fms_GetImagesPreference_t
- struct pack_fms_GetStoredImages_t
- struct FMSImageIdElement
- struct FMSImageIDEntries
- struct FMSImageList
- struct unpack_fms_GetStoredImages_t
- struct pack_fms_SetImagesPreference_t
- struct unpack_fms_SetImagesPreference_t

Macros

- #define FMS_GOBI_MBN_IMG_ID_STR_LEN 16
- #define FMS_GOBI_MBN_BUILD_ID_STR_LEN 100
- #define FMS_GOBI_LISTENTRIES_MAX 2
- #define FMS_MAX_IMAGE_PREFERENCE_IMAGE_SIZE 255
- #define FMS_MAX_IMAGE_ID_ELEMENT 50
- #define FMS_IMAGE_ID_MAX_ENTRIES 2
- #define FMS_FW_PRI_BUILD_MATCH_LEN 11
- #define FMS_IMAGE_ID_IMG_ID_LEN 16
- #define FMS_IMAGE_ID_BUILD_ID_LEN 32
- #define FMS_IMAGE_ID_PRI_IMGTYPE 0x01

Functions

- int pack_fms_GetImagesPreference (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, pack_fms_GetImagesPreference_t ∗reqArg)
- int unpack_fms_GetImagesPreference (uint8_t ∗pResp, uint16_t respLen, unpack_fms_GetImagesPreference_t ∗pOutput)
- int pack_fms_GetStoredImages (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, pack_fms_GetStoredImages_t ∗reqArg)
- int unpack_fms_GetStoredImages (uint8_t ∗pResp, uint16_t respLen, unpack_fms_GetStoredImages_t ∗pOutput)
- int pack_fms_SetImagesPreference (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, pack_fms_SetImagesPreference_t ∗reqArg)
- int unpack_fms_SetImagesPreference (uint8_t ∗pResp, uint16_t respLen, unpack_fms_SetImagesPreference_t ∗pOutput)
- uint32_t GetValidFwPriCombinations (FMSImageList ∗pStoredImageList, uint32_t ∗pValidCombinationSize, CarrierImage_t ∗pValidCombinations)

9.4.1 Macro Definition Documentation

9.4.1.1 #define FMS_FW_PRI_BUILD_MATCH_LEN 11

9.4.1.2 #define FMS_GOBI_LISTENTRIES_MAX 2

9.4.1.3 #define FMS_GOBI_MBN_BUILD_ID_STR_LEN 100

9.4.1.4 #define FMS_GOBI_MBN_IMG_ID_STR_LEN 16

9.4.1.5 #define FMS_IMAGE_ID_BUILD_ID_LEN 32

9.4.1.6 #define FMS_IMAGE_ID_IMG_ID_LEN 16

9.4.1.7 #define FMS_IMAGE_ID_MAX_ENTRIES 2

9.4.1.8 #define FMS_IMAGE_ID_PRI_IMGTYPE 0x01

9.4.1.9 #define FMS_MAX_IMAGE_ID_ELEMENT 50

9.4.1.10 #define FMS_MAX_IMAGE_PREFERENCE_IMAGE_SIZE 255

9.4.2 Function Documentation

9.4.2.1 uint32_t GetValidFwPriCombinations (**FMSImageList** ∗ *pStoredImageList,* uint32_t ∗ *pValidCombinationSize,* **CarrierImage_t** ∗ *pValidCombinations*)

This API distills valid Firmware/PRI combinations from GetStoredImages result

Parameters

in	*pStoredImageList*	• image list returned from GetStoredImages • See FMSImageList
in,out	*pValidCombinationSize*	• number of combination passed in and returned
out	*pValidCombinations*	• valid combinations returned • See CarrierImage_t

Returns

- eQCWWAN_ERR_INVALID_ARG - Invalid parameters
- eQCWWAN_ERR_BUFFER_SZ - No enough element to store combinatons returned

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.4.2.2 int pack_fms_GetImagesPreference (**pack_qmi_t** ∗ *pCtx,* uint8_t ∗ *pReqBuf,* uint16_t ∗ *pLen,* **pack_fms_GetImagesPreference_t** ∗ *reqArg*)

Get Images Preference pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

9.4.2.3 int pack_fms_GetStoredImages (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_fms_GetStoredImages_t * *reqArg*)

Get Images Preference pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

9.4.2.4 int pack_fms_SetImagesPreference (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_fms_SetImagesPreference_t * *reqArg*)

Set Images Preference pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

9.4.2.5 int unpack_fms_GetImagesPreference (uint8_t * *pResp*, uint16_t *respLen*, unpack_fms_GetImagesPreference_t * *pOutput*)

Get Images Preference unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

9.4.2.6 int unpack_fms_GetStoredImages (uint8_t * *pResp*, uint16_t *respLen*, unpack_fms_GetStoredImages_t * *pOutput*)

Get Images Preference unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

9.4.2.7 int unpack_fms_SetImagesPreference (uint8_t * *pResp*, uint16_t *respLen*, unpack_fms_SetImagesPreference_t * *pOutput*)

Set Images Preference unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

9.5 loc.h File Reference

Data Structures

- struct loc_LocApplicationInfo
- struct loc_SV
- struct loc_SVInfo
- struct loc_GnssData
- struct loc_CellDb
- struct loc_ClkInfo
- struct loc_BdsSV
- struct loc_BdsSVInfo
- struct pack_loc_EventRegister_t
- struct unpack_loc_EventRegister_t
- struct pack_loc_SetExtPowerState_t
- struct unpack_loc_SetExtPowerState_t
- struct pack_loc_Start_t
- struct unpack_loc_Start_t
- struct pack_loc_Stop_t
- struct unpack_loc_Stop_t
- struct pack_loc_SetOperationMode_t
- struct unpack_loc_SetOperationMode_t
- struct pack_loc_Delete_Assist_Data_t
- struct unpack_loc_Delete_Assist_Data_t
- struct loc_precisionDilution
- struct loc_sensorDataUsage
- struct loc_svUsedforFix
- struct loc_gpsTime
- struct unpack_loc_PositionRpt_Ind_t
- struct unpack_loc_EngineState_Ind_t
- struct unpack_loc_SetExtPowerConfig_Ind_t
- struct unpack_loc_SLQSLOCGetBestAvailPos_t
- struct pack_loc_SLQSLOCGetBestAvailPos_t
- struct unpack_loc_BestAvailPos_Ind_t
- struct unpack_loc_SetOperationMode_Ind_t
- struct unpack_loc_DeleteAssistData_Ind_t
- struct loc_satelliteInfo
- struct unpack_loc_GnssSvInfo_Ind_t
- struct pack_loc_SLQSLOCInjectUTCTime_t
- struct altSrcInfo_t
- struct pack_loc_SLQSLOCInjectPosition_t
- struct pack_loc_SLQSLOCSetCradleMountConfig_t
- struct sensorData_t

- struct tempData_t
- struct pack_loc_SLQSLOCInjectSensorData_t
- struct unpack_loc_EventNMEA_Ind_t
- struct pack_loc_SLQSLOCGetServer_t
- struct loc_IPv4Info
- struct loc_IPv6Info
- struct loc_urlAddr
- struct unpack_loc_GetServer_Ind_t
- struct unpack_loc_CradleMountCallback_Ind_t
- struct unpack_loc_EventTimeSyncCallback_Ind_t
- struct unpack_loc_InjectTimeSyncDataCallback_Ind_t
- struct unpack_loc_InjectSensorDataCallback_Ind_t
- struct loc_accelAcceptReady
- struct loc_gyroAcceptReady
- struct loc_accelTempAcceptReady
- struct loc_gyroTempAcceptReady
- struct unpack_loc_SensorStreamingCallback_Ind_t
- struct unpack_loc_InjectUTCTimeCallback_Ind_t
- struct unpack_loc_InjectPositionCallback_Ind_t
- struct loc_IPv4Config
- struct loc_IPv6Config
- struct loc_URLAddrInfo
- struct pack_loc_SLQSLOCSetServer_t
- struct unpack_loc_SetServer_Ind_t

Macros

- #define LOC_UINT8_MAX_STRING_SZ 255
- #define LOCEVENTMASKPOSITIONREPORT 0x00000001
- #define LOCEVENTMASKGNSSSVINFO 0x00000002
- #define LOCEVENTMASKNMEA 0x00000004
- #define LOCEVENTMASKNINOTIFYVERIFYREQ 0x00000008
- #define LOCEVENTMASKINJECTTIMEREQ 0x00000010
- #define LOCEVENTMASKINJECTPREDICTEDORBITSREQ 0x00000020
- #define LOCEVENTMASKINJECTPOSITIONREQ 0x00000040
- #define LOCEVENTMASKENGINESTATE 0x00000080
- #define LOCEVENTMASKFIXSESSIONSTATE 0x00000100
- #define LOCEVENTMASKWIFIREQ 0x00000200
- #define LOCEVENTMASKSENSORSTREAMINGREADYSTATUS 0x00000400
- #define LOCEVENTMASKTIMESYNCREQ 0x00000800
- #define LOCEVENTMASKSETSPISTREAMINGREPORT 0x00001000
- #define LOCEVENTMASKLOCATIONSERVERCONNECTIONREQ 0x00002000
- #define LOCEVENTMASKNIGEOFENCENOTIFICATION 0x00004000
- #define LOCEVENTMASKGEOFENCEGENALERT 0x00008000
- #define LOCEVENTMASKGEOFENCEBREACHNOTIFICATION 0x00010000
- #define LOCEVENTMASKPEDOMETERCONTROL 0x00020000
- #define LOCEVENTMASKMOTIONDATACONTROL 0x00040000
- #define LOCEVENTMASKBATCHFULLNOTIFICATION 0x00080000
- #define LOCEVENTMASKLIVEBATCHEDPOSITIONREPORT 0x00100000
- #define LOCEVENTMASKINJECTWIFIAPDATAREQ 0x00200000
- #define LOCEVENTMASKGEOFENCEBATCHBREACHNOTIFICATION 0x00400000
- #define LOCEVENTMASKVEHICLEDATAREADYSTATUS 0x00800000
- #define LOCEVENTMASKGNSSMEASUREMENTREPORT 0x01000000
- #define LOCEVENTMASKINVALIDVALUE 0xFFFFFFFF
- #define MAX_SENSOR_DATA_LEN 64
- #define MAX_TEMP_DATA_LEN 64
- #define MAX_LOC_NMEA_STR_LEN 201

Typedefs

- typedef unpack_result_t unpack_loc_SLQSLOCInjectUTCTime_t
- typedef unpack_result_t unpack_loc_SLQSLOCInjectPosition_t
- typedef unpack_result_t unpack_loc_SLQSLOCSetCradleMountConfig_t
- typedef unpack_result_t unpack_loc_SLQSLOCInjectSensorData_t
- typedef unpack_result_t unpack_loc_SLQSLOCGetServer_t

Enumerations

- enum {
  eQMI_LOC_SESS_STATUS_SUCCESS =0,
  eQMI_LOC_SESS_STATUS_IN_PROGRESS =1,
  eQMI_LOC_SESS_STATUS_FAILURE =2,
  eQMI_LOC_SESS_STATUS_TIMEOUT =3 }

Functions

- int pack_loc_EventRegister (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_loc_EventRegister_t *reqArg)
- int unpack_loc_EventRegister (uint8_t *pResp, uint16_t respLen, unpack_loc_EventRegister_t *pOutput)
- int pack_loc_SetExtPowerState (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_loc_SetExtPowerState_t *reqArg)
- int unpack_loc_SetExtPowerState (uint8_t *pResp, uint16_t respLen, unpack_loc_SetExtPowerState_t *pOutput)
- int pack_loc_Start (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_loc_Start_t *reqArg)
- int unpack_loc_Start (uint8_t *pResp, uint16_t respLen, unpack_loc_Start_t *pOutput)
- int pack_loc_Stop (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_loc_Stop_t *reqArg)
- int unpack_loc_Stop (uint8_t *pResp, uint16_t respLen, unpack_loc_Stop_t *pOutput)
- int pack_loc_SetOperationMode (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_loc_SetOperationMode_t *reqArg)
- int unpack_loc_SetOperationMode (uint8_t *pResp, uint16_t respLen, unpack_loc_SetOperationMode_t *pOutput)
- int pack_loc_DeleteAssistData (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_loc_Delete_Assist_Data_t *reqArg)
- int unpack_loc_DeleteAssistData (uint8_t *pResp, uint16_t respLen, unpack_loc_Delete_Assist_Data_t *pOutput)
- int unpack_loc_PositionRpt_Ind (uint8_t *pResp, uint16_t respLen, unpack_loc_PositionRpt_Ind_t *pOutput)
- int unpack_loc_EngineState_Ind (uint8_t *pResp, uint16_t respLen, unpack_loc_EngineState_Ind_t *pOutput)
- int unpack_loc_SetExtPowerConfig_Ind (uint8_t *pResp, uint16_t respLen, unpack_loc_SetExtPowerConfig_Ind_t *pOutput)
- int pack_loc_SLQSLOCGetBestAvailPos (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_loc_SLQSLOCGetBestAvailPos_t *reqArg)
- int unpack_loc_SLQSLOCGetBestAvailPos (uint8_t *pResp, uint16_t respLen, unpack_loc_SLQSLOCGetBestAvailPos_t *pOutput)
- int unpack_loc_BestAvailPos_Ind (uint8_t *pResp, uint16_t respLen, unpack_loc_BestAvailPos_Ind_t *pOutput)
- int unpack_loc_SetOperationMode_Ind (uint8_t *pResp, uint16_t respLen, unpack_loc_SetOperationMode_Ind_t *pOutput)
- int unpack_loc_DeleteAssistData_Ind (uint8_t *pResp, uint16_t respLen, unpack_loc_DeleteAssistData_Ind_t *pOutput)
- int unpack_loc_GnssSvInfo_Ind (uint8_t *pResp, uint16_t respLen, unpack_loc_GnssSvInfo_Ind_t *pOutput)
- int pack_loc_SLQSLOCInjectUTCTime (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_loc_SLQSLOCInjectUTCTime_t *reqArg)

- int unpack_loc_SLQSLOCInjectUTCTime (uint8_t *pResp, uint16_t respLen, unpack_loc_SLQSLOCInjectUTCTime_t *pOutput)
- int pack_loc_SLQSLOCInjectPosition (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_loc_SLQSLOCInjectPosition_t *reqArg)
- int unpack_loc_SLQSLOCInjectPosition (uint8_t *pResp, uint16_t respLen, unpack_loc_SLQSLOCInjectPosition_t *pOutput)
- int pack_loc_SLQSLOCSetCradleMountConfig (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_loc_SLQSLOCSetCradleMountConfig_t *reqArg)
- int unpack_loc_SLQSLOCSetCradleMountConfig (uint8_t *pResp, uint16_t respLen, unpack_loc_SLQSLOCSetCradleMountConfig_t *pOutput)
- int pack_loc_SLQSLOCInjectSensorData (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_loc_SLQSLOCInjectSensorData_t *reqArg)
- int unpack_loc_SLQSLOCInjectSensorData (uint8_t *pResp, uint16_t respLen, unpack_loc_SLQSLOCInjectSensorData_t *pOutput)
- int unpack_loc_EventNMEA_Ind (uint8_t *pResp, uint16_t respLen, unpack_loc_EventNMEA_Ind_t *pOutput)
- int pack_loc_SLQSLOCGetServer (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_loc_SLQSLOCGetServer_t *reqArg)
- int unpack_loc_SLQSLOCGetServer (uint8_t *pResp, uint16_t respLen, unpack_loc_SLQSLOCGetServer_t *pOutput)
- int unpack_loc_GetServer_Ind (uint8_t *pResp, uint16_t respLen, unpack_loc_GetServer_Ind_t *pOutput)
- int unpack_loc_CradleMountCallback_Ind (uint8_t *pResp, uint16_t respLen, unpack_loc_CradleMountCallback_Ind_t *pOutput)
- int unpack_loc_EventTimeSyncCallback_Ind (uint8_t *pResp, uint16_t respLen, unpack_loc_EventTimeSyncCallback_Ind_t *pOutput)
- int unpack_loc_InjectTimeSyncDataCallback_Ind (uint8_t *pResp, uint16_t respLen, unpack_loc_InjectTimeSyncDataCallback_Ind_t *pOutput)
- int unpack_loc_InjectSensorDataCallback_Ind (uint8_t *pResp, uint16_t respLen, unpack_loc_InjectSensorDataCallback_Ind_t *pOutput)
- int unpack_loc_SensorStreamingCallback_Ind (uint8_t *pResp, uint16_t respLen, unpack_loc_SensorStreamingCallback_Ind_t *pOutput)
- int unpack_loc_InjectUTCTimeCallback_Ind (uint8_t *pResp, uint16_t respLen, unpack_loc_InjectUTCTimeCallback_Ind_t *pOutput)
- int unpack_loc_InjectPositionCallback_Ind (uint8_t *pResp, uint16_t respLen, unpack_loc_InjectPositionCallback_Ind_t *pOutput)
- int pack_loc_SLQSLOCSetServer (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_loc_SLQSLOCSetServer_t *reqArg)
- int unpack_loc_SLQSLOCSetServer (uint8_t *pResp, uint16_t respLen)
- int unpack_loc_SetServer_Ind (uint8_t *pResp, uint16_t respLen, unpack_loc_SetServer_Ind_t *pOutput)

9.5.1 Macro Definition Documentation

9.5.1.1 #define LOC_UINT8_MAX_STRING_SZ 255

9.5.1.2 #define LOCEVENTMASKBATCHFULLNOTIFICATION 0x00080000

The control point must enable this mask to receive notification when a batch is full. The location engine sends this event to notify of Batch Full for ongoing batching session.

9.5.1.3 #define LOCEVENTMASKENGINESTATE 0x00000080

The control point must enable this mask to receive engine state report event indications.

9.5.1.4 #define LOCEVENTMASKFIXSESSIONSTATE 0x00000100

The control point must enable this mask to receive fix session status report event indications.

9.5.1.5 #define LOCEVENTMASKGEOFENCEBATCHBREACHNOTIFICATION 0x00400000

The control point must enable this mask to receive notifications when a Geofence is breached. These events are generated when a UE enters or leaves the perimeter of a Geofence. This breach notification is for multiple Geofences. Breaches from multiple Geofences are all batched and sent in the same notification.

9.5.1.6 #define LOCEVENTMASKGEOFENCEBREACHNOTIFICATION 0x00010000

The control point must enable this mask to receive notifications when a Geofence is breached. These events are generated when a UE enters or leaves the perimeter of a Geofence. This breach report is for a single Geofence.

9.5.1.7 #define LOCEVENTMASKGEOFENCEGENALERT 0x00008000

The control point must enable this mask to receive Geofence alerts. These alerts are generated to inform the client of the changes that may affect a Geofence, for example, if GPS is turned off or if the network is unavailable.

9.5.1.8 #define LOCEVENTMASKGNSSMEASUREMENTREPORT 0x01000000

The control point must enable this mask to receive system clock and satellite measurement report events (system clock, SV time, Doppler, etc.). Reports are generated only for the GNSS satellite constellations that are enabled using QMI_LOC_SET_GNSS_ CONSTELL_REPORT_CONFIG(Not yet supported).

9.5.1.9 #define LOCEVENTMASKGNSSSVINFO 0x00000002

The control point must enable this mask to receive satellite report event indications. These reports are sent at a 1 Hz rate.

9.5.1.10 #define LOCEVENTMASKINJECTPOSITIONREQ 0x00000040

The control point must enable this mask to receive position injection request event indications.

9.5.1.11 #define LOCEVENTMASKINJECTPREDICTEDORBITSREQ 0x00000020

The control point must enable this mask to receive predicted orbits request event indications.

9.5.1.12 #define LOCEVENTMASKINJECTTIMEREQ 0x00000010

The control point must enable this mask to receive time injection request event indications.

9.5.1.13 #define LOCEVENTMASKINJECTWIFIAPDATAREQ 0x00200000

The control point must enable this mask to receive Wi-Fi Access Point (AP) data inject request event indications.

9.5.1.14 #define LOCEVENTMASKINVALIDVALUE 0xFFFFFFFF

Invalid Event Mask

9.5.1.15 #define LOCEVENTMASKLIVEBATCHEDPOSITIONREPORT 0x00100000

The control point must enable this mask to receive position report indications along with an ongoing batching session. The location engine sends this event to notify the batched position report while a batching session is ongoing.

9.5.1.16 #define LOCEVENTMASKLOCATIONSERVERCONNECTIONREQ 0x00002000

The control point must enable this mask to receive location server requests. These requests are generated when the service wishes to establish a connection with a location server.

9.5.1.17 #define LOCEVENTMASKMOTIONDATACONTROL 0x00040000

The control point must enable this mask to register for motion data control requests from the location engine. The location engine sends this event to control the injection of motion data.

9.5.1.18 #define LOCEVENTMASKNIGEOFENCENOTIFICATION 0x00004000

The control point must enable this mask to receive notifications related to network-initiated Geofences. These events notify the client when a network-initiated Geofence is added, deleted, or edited.

9.5.1.19 #define LOCEVENTMASKNINOTIFYVERIFYREQ 0x00000008

The control point must enable this mask to receive NI Notify/Verify request event indications.

9.5.1.20 #define LOCEVENTMASKNMEA 0x00000004

The control point must enable this mask to receive NMEA reports for position and satellites in view. The report is at a 1 Hz rate.

9.5.1.21 #define LOCEVENTMASKPEDOMETERCONTROL 0x00020000

The control point must enable this mask to register for pedometer control requests from the location engine. The location engine sends this event to control the injection of pedometer reports.

9.5.1.22 #define LOCEVENTMASKPOSITIONREPORT 0x00000001

The control point must enable this mask to receive position report event indications.

9.5.1.23 #define LOCEVENTMASKSENSORSTREAMINGREADYSTATUS 0x00000400

The control point must enable this mask to receive notifications from the location engine indicating its readiness to accept data from the sensors (accelerometer, gyroscope, etc.).

9.5.1.24 #define LOCEVENTMASKSETSPISTREAMINGREPORT 0x00001000

The control point must enable this mask to receive Stationary Position Indicator (SPI) streaming report indications.

9.5.1.25 #define LOCEVENTMASKTIMESYNCREQ 0x00000800

The control point must enable this mask to receive time sync requests from the GPS engine. Time sync enables the GPS engine to synchronize its clock with the sensor processor's clock.

9.5.1.26 #define LOCEVENTMASKVEHICLEDATAREADYSTATUS 0x00800000

The control point must enable this mask to receive notifications from the location engine indicating its readiness to accept vehicle data (vehicle accelerometer, vehicle angular rate, vehicle odometry, etc.).

9.5.1.27 #define LOCEVENTMASKWIFIREQ 0x00000200

The control point must enable this mask to receive Wi-Fi position request event indications.

9.5.1.28 #define MAX_LOC_NMEA_STR_LEN 201

9.5.1.29 #define MAX_SENSOR_DATA_LEN 64

9.5.1.30 #define MAX_TEMP_DATA_LEN 64

9.5.2 Typedef Documentation

9.5.2.1 typedef unpack_result_t unpack_loc_SLQSLOCGetServer_t

9.5.2.2 typedef unpack_result_t unpack_loc_SLQSLOCInjectPosition_t

9.5.2.3 typedef unpack_result_t unpack_loc_SLQSLOCInjectSensorData_t

9.5.2.4 typedef unpack_result_t unpack_loc_SLQSLOCInjectUTCTime_t

9.5.2.5 typedef unpack_result_t unpack_loc_SLQSLOCSetCradleMountConfig_t

9.5.3 Enumeration Type Documentation

9.5.3.1 anonymous enum

Enumerator

eQMI_LOC_SESS_STATUS_SUCCESS

eQMI_LOC_SESS_STATUS_IN_PROGRESS

eQMI_LOC_SESS_STATUS_FAILURE

eQMI_LOC_SESS_STATUS_TIMEOUT

9.5.4 Function Documentation

9.5.4.1 int pack_loc_DeleteAssistData (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_loc_Delete_Assist_Data_t * *reqArg*)

Delete Assistant Data pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.2 int pack_loc_EventRegister (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_loc_EventRegister_t * *reqArg*)

Event Register pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.3 int pack_loc_SetExtPowerState (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_loc_SetExtPowerState_t * *reqArg*)

Set Ext Power State pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.4 int pack_loc_SetOperationMode (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_loc_SetOperationMode_t * reqArg)

Set Operation Mode pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.5 int pack_loc_SLQSLOCGetBestAvailPos (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_loc_SLQSLOCGetBestAvailPos_t * reqArg)

Get Best Avail position pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.6 int pack_loc_SLQSLOCGetServer (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_loc_SLQSLOCGetServer_t * reqArg)

Pack get server.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

Note

The request is acknowledged through the response, but the SUCCESS/FAILURE status is sent through unpack_loc_GetServer_Ind callback If successful, the callback also contains the A-GPS server address.

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.7 int pack_loc_SLQSLOCInjectPosition (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_loc_SLQSLOCInjectPosition_t * *reqArg*)

Pack inject position.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.8 int pack_loc_SLQSLOCInjectSensorData (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_loc_SLQSLOCInjectSensorData_t * *reqArg*)

Pack inject sensor data.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.9 int pack_loc_SLQSLOCInjectUTCTime (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_loc_SLQSLOCInjectUTCTime_t * reqArg)

Pack inject UTC time.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.10 int pack_loc_SLQSLOCSetCradleMountConfig (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_loc_SLQSLOCSetCradleMountConfig_t * reqArg)

Pack set cradle mount configure.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.11 int pack_loc_SLQSLOCSetServer (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_loc_SLQSLOCSetServer_t * reqArg)

Pack Set server.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

Note

If multiple types of addresses are specified in the request, the IPv4 address takes precedence over the IPv6 address and the IPv6 address takes precedence over the URL address.The request is acknowledged through the response, but the SUCCESS/FAILURE status is sent through unpack_loc_SetServer_Ind callback

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.12 int pack_loc_Start (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_loc_Start_t * *reqArg*)

LOC Start pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.13 int pack_loc_Stop (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_loc_Stop_t * *reqArg*)

Loc Stop pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.14 int unpack_loc_BestAvailPos_Ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_loc_BestAvailPos_Ind_t** * *pOutput*)

Loc Best Avial position Indication unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.15 int unpack_loc_CradleMountCallback_Ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_loc_CradleMount-Callback_Ind_t** * *pOutput*)

Unpack the Cradle Mount Indication.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.16 int unpack_loc_DeleteAssistData (uint8_t * *pResp*, uint16_t *respLen*, **unpack_loc_Delete_Assist_Data_t** * *pOutput*)

Delete Assistant Data unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.17 int unpack_loc_DeleteAssistData_Ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_loc_DeleteAssistData_Ind_t** * *pOutput*)

Unpack the status of delete the location engine assistance data

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.18 int unpack_loc_EngineState_Ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_loc_EngineState_Ind_t** * *pOutput*)

Loc Engine State Indication unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.19 int unpack_loc_EventNMEA_Ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_loc_EventNMEA_Ind_t** * *pOutput*)

Unpack the NMEA Event Indication.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.20 int unpack_loc_EventRegister (uint8_t * *pResp*, uint16_t *respLen*, **unpack_loc_EventRegister_t** * *pOutput*)

Event Register unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.21 int unpack_loc_EventTimeSyncCallback_Ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_loc_EventTimeSyncCallback_Ind_t** * *pOutput*)

Unpack the Event Time Sync indication.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.22 int unpack_loc_GetServer_Ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_loc_GetServer_Ind_t** * *pOutput*)

Unpack the Get Server Indication.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.23 int unpack_loc_GnssSvInfo_Ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_loc_GnssSvInfo_Ind_t** * *pOutput*)

Unpack the GNSS SV Info Indication.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.24 int unpack_loc_InjectPositionCallback_Ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_loc_InjectPositionCallback_Ind_t** * *pOutput*)

Unpack the Inject position indication.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.25 int unpack_loc_InjectSensorDataCallback_Ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_loc_InjectSensorDataCallback_Ind_t** * *pOutput*)

Unpack the inject sensor data indication.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.26 int unpack_loc_InjectTimeSyncDataCallback_Ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_loc_InjectTimeSyncDataCallback_Ind_t** * *pOutput*)

Unpack the inject time sync data indication.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.27 int unpack_loc_InjectUTCTimeCallback_Ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_loc_InjectUTCTimeCallback_Ind_t** * *pOutput*)

Unpack the Inject UTC time indication.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.28 int unpack_loc_PositionRpt_Ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_loc_PositionRpt_Ind_t** * *pOutput*)

Loc Position Report Indication unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.29 int unpack_loc_SensorStreamingCallback_Ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_loc_SensorStreamingCallback_Ind_t * *pOutput*)

Unpack the Sensor streaming status indication.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.30 int unpack_loc_SetExtPowerConfig_Ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_loc_SetExtPowerConfig_Ind_t * *pOutput*)

Loc Set External Power Configure Indication unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.31 int unpack_loc_SetExtPowerState (uint8_t * *pResp*, uint16_t *respLen*, unpack_loc_SetExtPowerState_t * *pOutput*)

Set Ext Power State unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.32 int unpack_loc_SetOperationMode (uint8_t * *pResp*, uint16_t *respLen*, **unpack_loc_SetOperationMode_t** * *pOutput*)

Set Operation Mode unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.33 int unpack_loc_SetOperationMode_Ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_loc_SetOperationMode_Ind_t** * *pOutput*)

Unpack the engine to use the specified operation mode.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.34 int unpack_loc_SetServer_Ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_loc_SetServer_Ind_t** * *pOutput*)

Unpack the Set Server Indication.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.35 int unpack_loc_SLQSLOCGetBestAvailPos (uint8_t * *pResp*, uint16_t *respLen*, unpack_loc_SLQSLOCGetBestAvailPos_t * *pOutput*)

Get Best Avail position unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.36 int unpack_loc_SLQSLOCGetServer (uint8_t * *pResp*, uint16_t *respLen*, unpack_loc_SLQSLOCGetServer_t * *pOutput*)

Unpack get server.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.37 int unpack_loc_SLQSLOCInjectPosition (uint8_t * *pResp*, uint16_t *respLen*, unpack_loc_SLQSLOCInjectPosition_t * *pOutput*)

Unpack inject position.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.38 int unpack_loc_SLQSLOCInjectSensorData (uint8_t * *pResp*, uint16_t *respLen*, unpack_loc_SLQSLOCInjectSensorData_t * *pOutput*)

Unpack inject sensor data.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.39 int unpack_loc_SLQSLOCInjectUTCTime (uint8_t * *pResp*, uint16_t *respLen*, unpack_loc_SLQSLOCInjectUTCTime_t * *pOutput*)

Unpack inject UTC time.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.40 int unpack_loc_SLQSLOCSetCradleMountConfig (uint8_t * *pResp*, uint16_t *respLen*, unpack_loc_SLQSLOCSetCradleMountConfig_t * *pOutput*)

Unpack set cradle mount configure.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.41 int unpack_loc_SLQSLOCSetServer (uint8_t * *pResp*, uint16_t *respLen*)

Unpack set server.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.42 int unpack_loc_Start (uint8_t * *pResp*, uint16_t *respLen*, **unpack_loc_Start_t** * *pOutput*)

Loc Start unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.5.4.43 int unpack_loc_Stop (uint8_t * *pResp*, uint16_t *respLen*, **unpack_loc_Stop_t** * *pOutput*)

Loc Stop unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6 nas.h File Reference

Data Structures

- struct unpack_nas_GetSignalStrengths_t
- struct unpack_nas_SLQSGetSysSelectionPref_t
- struct nas_netSelectionPref
- struct nas_acqOrderPref
- struct nas_CSGID
- struct pack_nas_SLQSSetSysSelectionPref_t
- struct nas_ciotAcqOrderPref
- struct nas_nr5gBandPref
- struct pack_nas_SLQSSetSysSelectionPrefExt_t
- struct pack_nas_SLQSSetBandPreference_t
- struct pack_nas_SLQSNasIndicationRegisterExt_t
- struct RFBandInfoElements
- struct unpack_nas_GetRFInfo_t
- struct cdmaSSInfo
- struct hdrSSInfo
- struct lteSSInfo
- struct tdscdmaSigInfoExt
- struct unpack_nas_SLQSNasGetSigInfo_t
- struct unpack_nas_SLQSNasSigInfoCallback_ind_t
- struct unpack_nas_GetHomeNetwork_t
- struct nas_SrvStatusInfo
- struct nas_GSMSrvStatusInfo
- struct nas_sysInfoCommon
- struct nas_CDMASysInfo
- struct nas_HDRSysInfo
- struct nas_GSMSysInfo
- struct nas_WCDMASysInfo
- struct nas_LTESysInfo
- struct nas_AddCDMASysInfo
- struct nas_AddSysInfo
- struct nas_CallBarringSysInfo
- struct unpack_nas_SLQSGetSysInfo_t
- struct unpack_nas_SLQSSysInfoCallback_ind_t
- struct unpack_nas_GetServingNetwork_t
- struct unpack_nas_GetServingNetworkCapabilities_t
- struct nas_QmiNas3GppNetworkInfo
- struct nas_QmiNas3GppNetworkRAT
- struct nas_QmisNasPcsDigit
- struct unpack_nas_PerformNetworkScan_t
- struct unpack_nas_SLQSSwiGetLteCQI_t
- struct nas_CommInfo
- struct nas_LTEInfo

- struct unpack_nas_SLQSNasSwiModemStatus_t
- struct nas_servSystem
- struct nas_dataSrvCapabilities
- struct nas_currentPLMN
- struct nas_roamIndList
- struct nas_qaQmi3Gpp2TimeZone
- struct nas_detailSvcInfo
- struct nas_CDMASysInfoExt
- struct nas_callBarStatus
- struct unpack_nas_SLQSGetServingSystem_t
- struct nas_rxSignalStrengthListElement
- struct nas_ecioListElement
- struct nas_errorRateListElement
- struct nas_rsrqInformation
- struct nas_lteSnrinformation
- struct nas_lteRsrpinformation
- struct unpack_nas_SLQSGetSignalStrength_t
- struct nas_SLQSSignalStrengthsIndReq
- struct pack_nas_SLQSSetSignalStrengthsCallback_t
- struct nas_SLQSSignalStrengthsInformation
- struct nas_RejectReasonTlv
- struct nas_SignalStrengthTlv
- struct nas_RFInfoTlv
- struct nas_SLQSSignalStrengthsTlv
- struct unpack_nas_SetEventReportInd_t
- struct unpack_nas_GetCDMANetworkParameters_t
- struct pack_nas_SetACCOLC_t
- struct nas_CDMARSSIThresh
- struct nas_CDMAECIOThresh
- struct nas_HDRRSSIThresh
- struct nas_HDRECIOThresh
- struct nas_HDRSINRThreshold
- struct nas_HDRIOThresh
- struct nas_GSMRSSIThresh
- struct nas_WCDMARSSIThresh
- struct nas_WCDMAECIOThresh
- struct nas_LTERSSIThresh
- struct nas_LTESNRThreshold
- struct nas_LTERSRQThresh
- struct nas_LTERSRPThresh
- struct nas_LTESigRptConfig
- struct nas_TDSCDMARSCPThresh
- struct nas_TDSCDMARSSIThresh
- struct nas_TDSCDMAECIOThresh
- struct nas_TDSCDMASINRThresh
- struct pack_nas_SLQSNasConfigSigInfo2_t
- struct unpack_nas_SetDataCapabilitiesCallback_ind_t
- struct unpack_nas_GetNetworkPreference_t
- struct pack_nas_SetNetworkPreference_t
- struct unpack_nas_SetNetworkPreference_t
- struct unpack_nas_SetRoamingIndicatorCallback_ind_t
- struct NASServingSystemInfo
- struct unpack_nas_SetServingSystemCallback_ind_t
- struct NASPhyCaAggScellIndType
- struct NASPhyCaAggScellDlBw

- struct NASPhyCaAggScellInfo
- struct NASPhyCaAggPcellInfo
- struct NASPhyCaAggScellIndex
- struct NasGetLTECphyCaInfo
- struct unpack_nas_SlqsGetLTECphyCAInfo_t
- struct NASEmergencyModeTlv
- struct NASModePreferenceTlv
- struct NASBandPreferenceTlv
- struct NASPRLPreferenceTlv
- struct NASRoamPreferenceTlv
- struct NASLTEBandPreferenceTlv
- struct NASNetSelPreferenceTlv
- struct NASServDomainPrefTlv
- struct NASGWAcqOrderPrefTlv
- struct NASQmiCbkNasSystemSelPrefInd
- struct unpack_nas_SLQSSetSysSelectionPrefCallBack_ind_t
- struct NASOTAMessageTlv
- struct NASLteNasReleaseInfoTlv
- struct NASTimeInfoTlv
- struct NASQmiCbkNasSwiOTAMessageInd
- struct unpack_nas_SLQSNasSwiOTAMessageCallback_ind_t
- struct nas_MNRInfo
- struct pack_nas_SLQSInitiateNetworkRegistration_t
- struct pack_nas_SLQSNasSwiIndicationRegister_t
- struct pack_nas_SLQSGetPLMNName_t
- struct unpack_nas_SLQSGetPLMNName_t
- struct nas_nmrCellInfo
- struct nas_GERANInfo
- struct nas_geranInstInfo
- struct nas_UMTSinstInfo
- struct nas_UMTSInfo
- struct nas_CDMAInfo
- struct nas_cellParams
- struct nas_LTEInfoIntrafreq
- struct nas_infoInterFreq
- struct nas_LTEInfoInterfreq
- struct nas_gsmCellInfo
- struct nas_lteGsmCellInfo
- struct nas_LTEInfoNeighboringGSM
- struct nas_wcdmaCellInfo
- struct nas_lteWcdmaCellInfo
- struct nas_LTEInfoNeighboringWCDMA
- struct nas_umtsLTENbrCell
- struct nas_WCDMAInfoLTENeighborCell
- struct unpack_nas_SLQSNasGetCellLocationInfo_t
- struct nas_timeInfo
- struct unpack_nas_SLQSGetNetworkTime_t
- struct nas_UniversalTime
- struct unpack_nas_SLQSNasNetworkTimeCallBack_ind_t
- struct nas_PhyCaAggScellIndType
- struct nas_PhyCaAggScellDlBw
- struct nas_PhyCaAggScellInfo
- struct nas_PhyCaAggPcellInfo
- struct nas_PhyCaAggScellIndex
- struct unpack_nas_SetNasLTECphyCaIndCallback_ind_t

- struct nas_RxSigInfo
- struct nas_SccRxInfo
- struct unpack_nas_SLQSSwiGetLteSccRxInfo_t
- struct unpack_nas_SLQSNasTimerCallback_ind_t
- struct pack_nas_InitiateDomainAttach_t
- struct pack_nas_SetCDMANetworkParameters_t
- struct unpack_nas_SLQSNasGetHDRColorCode_t
- struct pack_nas_SLQSNasGetTxRxInfo_t
- struct nas_rxInfo
- struct nas_txInfo
- struct unpack_nas_SLQSNasGetTxRxInfo_t
- struct nas_OperatorPLMNData
- struct nas_operatorPLMNList
- struct nas_serviceProviderName
- struct nas_PLMNNetworkNameData
- struct nas_PLMNNetworkName
- struct nas_operatorNameString
- struct unpack_nas_SLQSGetOperatorNameData_t
- struct pack_nas_SLQSNasGet3GPP2Subscription_t
- struct nas_namName
- struct nas_dirNum
- struct nas_sidNid
- struct nas_homeSIDNID
- struct nas_minBasedIMSI
- struct nas_trueIMSI
- struct nas_CDMAChannel
- struct unpack_nas_SLQSNasGet3GPP2Subscription_t
- struct nas_protocolSubtypeElement
- struct unpack_nas_SLQSSwiGetHDRPersonality_t
- struct unpack_nas_SLQSSwiGetHDRProtSubtype_t
- struct pack_nas_SLQSSwiPSDetach_t
- struct unpack_nas_SLQSGetErrorRate_t
- struct nas_DRCParams
- struct nas_PilotSetParams
- struct nas_PilotSetData
- struct unpack_nas_SLQSSwiGetHRPDStats_t
- struct nas_ActPilotPNElement
- struct nas_NetworkStat1x
- struct nas_NetworkStatEVDO
- struct nas_DeviceConfigDetail
- struct nas_DataStatusDetail
- struct unpack_nas_SLQSSwiNetworkDebug_t
- struct nas_RSSIThresh
- struct nas_ECIOThresh
- struct nas_HDRSINRThresh
- struct nas_LTESNRThresh
- struct nas_IOThresh
- struct nas_RSRQThresh
- struct nas_RSRPThresh
- struct nas_LTESigRptCfg
- struct nas_TDSCDMASINRCONFThresh
- struct pack_nas_SLQSConfigSigInfo_t
- struct unpack_nas_GetHomeNetwork3GPP2_t
- struct nas_wcdmaUARFCN
- struct nas_lteEARFCN

- struct nas_ltePCI
- struct pack_nas_SLQSNASSwiSetChannelLock_t
- struct unpack_nas_SLQSNASSwiGetChannelLock_t
- struct unpack_nas_SLQSNASGeteDRXParams_t
- struct pack_nas_SLQSNASSeteDRXParams_t
- struct nas_HDRPersonality_Ind_Data
- struct unpack_nas_SLQSSwiHDRPersonalityCallback_Ind_t
- struct nas_RankIndicatorTlv
- struct unpack_nas_SLQSSwiRandIndicatorCallback_Ind_t
- struct nas_RFBandInfoElements
- struct nas_RfDedicatedBandInfoElements
- struct nas_RfBandInfoExtFormatElements
- struct nas_RfBandwidthInfoElements
- struct nas_RfBandInfoList
- struct nas_RfDedicatedBandInfo
- struct nas_RfBandInfoExtFormat
- struct nas_RfBandwidthInfo
- struct nas_LTEOperationMode
- struct unpack_nas_SLQSNasGetRFInfo_t
- struct nas_EmerModeTlv
- struct nas_ModePrefTlv
- struct nas_BandPrefTlv
- struct nas_PRLPrefTlv
- struct nas_RoamPrefTlv
- struct nas_LTEBandPrefTlv
- struct nas_NetSelPrefTlv
- struct nas_SrvDomainPrefTlv
- struct nas_GWAcqOrderPrefTlv
- struct nas_AcqOrderPrefTlv
- struct nas_RatDisabledMaskTlv
- struct nas_CiotLteOpModePrefTlv
- struct nas_LteM1BandPrefTlv
- struct nas_LteNb1BandPrefTlv
- struct nas_CiotAcqOrderPrefTlv
- struct nas_NR5gBandPrefTlv
- struct unpack_nas_SLQSGetSysSelectionPrefExt_t

Macros

- #define NAS_OTA_MESSAGE_MAX_BUF_SIZE 2048
- #define NAS_MAX_NUM_NETWORKS 30
- #define NAS_MAX_DESCRIPTION_LENGTH 255
- #define NAS_PLMN_LENGTH 3
- #define NAS_MAX_SCC_RX_INFO_INSTANCES 255
- #define NAS_NAM_NAME_LENGTH 12
- #define NAS_IMSI_M_S1_LENGTH 7
- #define NAS_IMSI_M_S2_LENGTH 3
- #define NAS_SERVING_SYSTEM_INFO_MAX_RADIO_INTERFACE_LIST 255

Enumerations

- enum LITEQMI_NAS_LTE_CPHY_SCELL_STATE {
  eLITEQMI_NAS_LTE_CPHY_SCELL_STATE_DECONFIGURED =0x00,
  eLITEQMI_NAS_LTE_CPHY_SCELL_STATE_CONFIGURED_DEACTIVATED =0x01,
  eLITEQMI_NAS_LTE_CPHY_SCELL_STATE_CONFIGURED_ACTIVATED =0x02 }
- enum LITEQMI_NAS_LTE_CPHY_CA_BW_NRB {
  eLITEQMI_NAS_LTE_CPHY_CA_BW_NRB_6 =0x00,
  eLITEQMI_NAS_LTE_CPHY_CA_BW_NRB_15 =0x01,
  eLITEQMI_NAS_LTE_CPHY_CA_BW_NRB_25 =0x02,
  eLITEQMI_NAS_LTE_CPHY_CA_BW_NRB_50 =0x03,
  eLITEQMI_NAS_LTE_CPHY_CA_BW_NRB_75 =0x04,
  eLITEQMI_NAS_LTE_CPHY_CA_BW_NRB_100 =0x05 }
- enum NAS_LTE_CPHY_CA_BW_NRB_LITE {
  eNAS_LTE_CPHY_CA_BW_NRB_LITE_6 =0x00,
  eNAS_LTE_CPHY_CA_BW_NRB_LITE_15 =0x01,
  eNAS_LTE_CPHY_CA_BW_NRB_LITE_25 =0x02,
  eNAS_LTE_CPHY_CA_BW_NRB_LITE_50 =0x03,
  eNAS_LTE_CPHY_CA_BW_NRB_LITE_75 =0x04,
  eNAS_LTE_CPHY_CA_BW_NRB_LITE_100 =0x05 }
- enum NAS_LTE_CPHY_SCELL_STATE_LITE {
  eNAS_LTE_CPHY_SCELL_STATE_DECONFIGURED_LITE =0x00,
  eNAS_LTE_CPHY_SCELL_STATE_CONFIGURED_DEACTIVATED_LITE =0x01,
  eNAS_LTE_CPHY_SCELL_STATE_CONFIGURED_ACTIVATED_LITE =0x02 }

Functions

- int unpack_nas_GetSignalStrengths (uint8_t *pResp, uint16_t respLen, unpack_nas_GetSignalStrengths_t *pOutput)
- int pack_nas_GetSignalStrengths (pack_qmi_t *pCtx, uint8_t *pReq, uint16_t *pLen)
- int pack_nas_SLQSGetSysSelectionPref (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_SLQSGetSysSelectionPref (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSGetSysSelectionPref_t *pOutput)
- int pack_nas_SLQSSetSysSelectionPref (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_nas_SLQSSetSysSelectionPref_t *pReqParam)
- int unpack_nas_SLQSSetSysSelectionPref (uint8_t *pResp, uint16_t respLen)
- int pack_nas_SLQSSetSysSelectionPrefExt (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_nas_SLQSSetSysSelectionPrefExt_t *pReqParam)
- int unpack_nas_SLQSSetSysSelectionPrefExt (uint8_t *pResp, uint16_t respLen)
- int pack_nas_SLQSSetBandPreference (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_nas_SLQSSetBandPreference_t *pReqParam)
- int unpack_nas_SLQSSetBandPreference (uint8_t *pResp, uint16_t respLen)
- int pack_nas_SLQSNasIndicationRegisterExt (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_nas_SLQSNasIndicationRegisterExt_t *pReqParam)
- int unpack_nas_SLQSNasIndicationRegisterExt (uint8_t *pResp, uint16_t respLen)
- int pack_nas_GetRFInfo (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_GetRFInfo (uint8_t *pResp, uint16_t respLen, unpack_nas_GetRFInfo_t *pOutput)
- int pack_nas_SLQSNasGetSigInfo (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_SLQSNasGetSigInfo (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSNasGetSigInfo_t *pOutput)
- int unpack_valid_nas_SLQSNasGetSigInfo (uint8_t *pResp, uint8_t u8Info)
- int unpack_nas_SLQSNasSigInfoCallback_ind (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSNasSigInfoCallback_ind_t *pOutput)
- int unpack_nas_GetHomeNetwork (uint8_t *pResp, uint16_t respLen, unpack_nas_GetHomeNetwork_t *pOutput)
- int pack_nas_GetHomeNetwork (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)

- int pack_nas_SLQSGetSysInfo (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_SLQSGetSysInfo (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSGetSysInfo_t *pOutput)
- int unpack_nas_SLQSNasSysInfoCallback_ind (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSSysInfoCallback_ind_t *pOutput)
- int pack_nas_GetServingNetwork (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_GetServingNetwork (uint8_t *pResp, uint16_t respLen, unpack_nas_GetServingNetwork_t *pOutput)
- int pack_nas_GetServingNetworkCapabilities (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_GetServingNetworkCapabilities (uint8_t *pResp, uint16_t respLen, unpack_nas_GetServingNetworkCapabilities_t *pOutput)
- int pack_nas_PerformNetworkScan (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_PerformNetworkScan (uint8_t *pResp, uint16_t respLen, unpack_nas_PerformNetworkScan_t *pOutput)
- int pack_nas_SLQSSwiGetLteCQI (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_SLQSSwiGetLteCQI (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSSwiGetLteCQI_t *pOutput)
- int pack_nas_SLQSNasSwiModemStatus (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_SLQSNasSwiModemStatus (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSNasSwiModemStatus_t *pOutput)
- int pack_nas_SLQSGetServingSystem (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_SLQSGetServingSystem (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSGetServingSystem_t *pOutput)
- int unpack_valid_nas_SLQSGetServingSystem (uint8_t *pResp, uint8_t u8Info)
- int pack_nas_SLQSGetSignalStrength (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, uint16_t reqMask)
- int unpack_nas_SLQSGetSignalStrength (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSGetSignalStrength_t *pOutput)
- int unpack_valid_nas_SLQSGetSignalStrength (uint8_t *pResp, uint8_t u8Info)
- int pack_nas_SLQSSetSignalStrengthsCallback (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_nas_SLQSSetSignalStrengthsCallback_t *pReqParam)
- int unpack_nas_SLQSSetSignalStrengthsCallback (uint8_t *pResp, uint16_t respLen)
- int pack_nas_SetRFInfoCallback (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, uint8_t *pBenable)
- int unpack_nas_SetRFInfoCallback (uint8_t *pResp, uint16_t respLen)
- int pack_nas_SetLURejectCallback (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, uint8_t *pBenable)
- int unpack_nas_SetLURejectCallback (uint8_t *pResp, uint16_t respLen)
- int unpack_nas_SetEventReportInd (uint8_t *pResp, uint16_t respLen, unpack_nas_SetEventReportInd_t *pOutput)
- int pack_nas_GetCDMANetworkParameters (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_GetCDMANetworkParameters (uint8_t *pResp, uint16_t respLen, unpack_nas_GetCDMANetworkParameters_t *pOutput)
- int unpack_valid_nas_GetCDMANetworkParameters (uint8_t *pResp, uint8_t u8Info)
- int pack_nas_GetANAAAAuthenticationStatus (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_GetANAAAAuthenticationStatus (uint8_t *pResp, uint16_t respLen, uint32_t *pAuthStatus)
- int pack_nas_GetACCOLC (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_GetACCOLC (uint8_t *pResp, uint16_t respLen, uint8_t *pAccolc)
- int pack_nas_SetACCOLC (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_nas_SetACCOLC_t reqParam)
- int unpack_nas_SetACCOLC (uint8_t *pResp, uint16_t respLen)
- int pack_nas_SLQSNasConfigSigInfo2 (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_nas_SLQSNasConfigSigInfo2_t *pReqParam)
- int unpack_nas_SLQSNasConfigSigInfo2 (uint8_t *pResp, uint16_t respLen)
- int unpack_nas_SetDataCapabilitiesCallback_ind (uint8_t *pResp, uint16_t respLen, unpack_nas_SetDataCapabilitiesCallback_ind_t *pOutput)
- int pack_nas_GetNetworkPreference (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)

- int unpack_nas_GetNetworkPreference (uint8_t *pResp, uint16_t respLen, unpack_nas_GetNetworkPreference_t *pOutput)
- int pack_nas_SetNetworkPreference (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_nas_SetNetworkPreference_t *reqArg)
- int unpack_nas_SetNetworkPreference (uint8_t *pResp, uint16_t respLen, unpack_nas_SetNetworkPreference_t *pOutput)
- int unpack_nas_SetRoamingIndicatorCallback_ind (uint8_t *pResp, uint16_t respLen, unpack_nas_SetRoamingIndicatorCallback_ind_t *pOutput)
- int unpack_nas_SetServingSystemCallback_ind (uint8_t *pResp, uint16_t respLen, unpack_nas_SetServingSystemCallback_ind_t *pOutput)
- int pack_nas_SlqsGetLTECphyCAInfo (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_SlqsGetLTECphyCAInfo (uint8_t *pResp, uint16_t respLen, unpack_nas_SlqsGetLTECphyCAInfo_t *pOutput)
- int unpack_nas_SLQSSetSysSelectionPrefCallBack_ind (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSSetSysSelectionPrefCallBack_ind_t *pOutput)
- int unpack_nas_SLQSNasSwiOTAMessageCallback_ind (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSNasSwiOTAMessageCallback_ind_t *pOutput)
- int pack_nas_SLQSInitiateNetworkRegistration (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_nas_SLQSInitiateNetworkRegistration_t *pReqParam)
- int unpack_nas_SLQSInitiateNetworkRegistration (uint8_t *pResp, uint16_t respLen)
- int pack_nas_SLQSNasSwiIndicationRegister (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_nas_SLQSNasSwiIndicationRegister_t *pReqParam)
- int unpack_nas_SLQSNasSwiIndicationRegister (uint8_t *pResp, uint16_t respLen)
- int pack_nas_SLQSGetPLMNName (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_nas_SLQSGetPLMNName_t *reqArg)
- int unpack_nas_SLQSGetPLMNName (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSGetPLMNName_t *pOutput)
- int pack_nas_SLQSNasGetCellLocationInfo (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_SLQSNasGetCellLocationInfo (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSNasGetCellLocationInfo_t *pOutput)
- int pack_nas_SLQSGetNetworkTime (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_SLQSGetNetworkTime (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSGetNetworkTime_t *pOutput)
- int unpack_nas_SLQSNasNetworkTimeCallBack_ind (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSNasNetworkTimeCallBack_ind_t *pOutput)
- int unpack_nas_SetNasLTECphyCaIndCallback_ind (uint8_t *pResp, uint16_t respLen, unpack_nas_SetNasLTECphyCaIndCallback_ind_t *pOutput)
- int pack_nas_SLQSSwiGetLteSccRxInfo (pack_qmi_t *pCtx, uint8_t *pReq, uint16_t *pLen)
- int unpack_nas_SLQSSwiGetLteSccRxInfo (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSSwiGetLteSccRxInfo_t *pOutput)
- int unpack_nas_SLQSNasTimerCallback_ind (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSNasTimerCallback_ind_t *pOutput)
- int pack_nas_InitiateDomainAttach (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_nas_InitiateDomainAttach_t *pReqParam)
- int unpack_nas_InitiateDomainAttach (uint8_t *pResp, uint16_t respLen)
- int pack_nas_SetCDMANetworkParameters (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_nas_SetCDMANetworkParameters_t *pReqParam)
- int unpack_nas_SetCDMANetworkParameters (uint8_t *pResp, uint16_t respLen)
- int pack_nas_SLQSNasGetHDRColorCode (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_SLQSNasGetHDRColorCode (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSNasGetHDRColorCode_t *pOutput)
- int pack_nas_SLQSNasGetTxRxInfo (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_nas_SLQSNasGetTxRxInfo_t *reqArg)
- int unpack_nas_SLQSNasGetTxRxInfo (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSNasGetTxRxInfo_t *pOutput)
- int pack_nas_SLQSGetOperatorNameData (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)

- int unpack_nas_SLQSGetOperatorNameData (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSGetOperatorNameData_t *pOutput)
- int pack_nas_SLQSNasGet3GPP2Subscription (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_nas_SLQSNasGet3GPP2Subscription_t *reqArg)
- int unpack_nas_SLQSNasGet3GPP2Subscription (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSNasGet3GPP2Subscription_t *pOutput)
- int pack_nas_SLQSSwiGetHDRPersonality (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_SLQSSwiGetHDRPersonality (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSSwiGetHDRPersonality_t *pOutput)
- int pack_nas_SLQSSwiGetHDRProtSubtype (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_SLQSSwiGetHDRProtSubtype (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSSwiGetHDRProtSubtype_t *pOutput)
- int pack_nas_SLQSSwiPSDetach (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_nas_SLQSSwiPSDetach_t *pReqParam)
- int unpack_nas_SLQSSwiPSDetach (uint8_t *pResp, uint16_t respLen)
- int pack_nas_SLQSGetErrorRate (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_SLQSGetErrorRate (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSGetErrorRate_t *pOutput)
- int pack_nas_SLQSSwiGetHRPDStats (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_SLQSSwiGetHRPDStats (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSSwiGetHRPDStats_t *pOutput)
- int pack_nas_SLQSSwiNetworkDebug (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_SLQSSwiNetworkDebug (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSSwiNetworkDebug_t *pOutput)
- int pack_nas_SLQSConfigSigInfo (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_nas_SLQSConfigSigInfo_t *pReqParam)
- int unpack_nas_SLQSConfigSigInfo (uint8_t *pResp, uint16_t respLen)
- int pack_nas_GetHomeNetwork3GPP2 (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_GetHomeNetwork3GPP2 (uint8_t *pResp, uint16_t respLen, unpack_nas_GetHomeNetwork3GPP2_t *pOutput)
- int pack_nas_SLQSNASSwiSetChannelLock (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_nas_SLQSNASSwiSetChannelLock_t *pReqParam)
- int unpack_nas_SLQSNASSwiSetChannelLock (uint8_t *pResp, uint16_t respLen)
- int pack_nas_SLQSNASSwiGetChannelLock (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_SLQSNASSwiGetChannelLock (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSNASSwiGetChannelLock_t *pOutput)
- int pack_nas_SLQSNASGeteDRXParams (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_SLQSNASGeteDRXParams (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSNASGeteDRXParams_t *pOutput)
- int pack_nas_SLQSNASSeteDRXParams (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_nas_SLQSNASSeteDRXParams_t *pReqParam)
- int unpack_nas_SLQSNASSeteDRXParams (uint8_t *pResp, uint16_t respLen)
- int unpack_nas_SLQSSwiHDRPersonalityCallback_Ind (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSSwiHDRPersonalityCallback_Ind_t *pOutput)
- int unpack_nas_SLQSSwiRandIndicatorCallback_Ind (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSSwiRandIndicatorCallback_Ind_t *pOutput)
- int pack_nas_SLQSNasGetRFInfo (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_SLQSNasGetRFInfo (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSNasGetRFInfo_t *pOutput)
- int pack_nas_SLQSGetSysSelectionPrefExt (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_nas_SLQSGetSysSelectionPrefExt (uint8_t *pResp, uint16_t respLen, unpack_nas_SLQSGetSysSelectionPrefExt_t *pOutput)

9.6.1 Macro Definition Documentation

9.6.1.1 #define NAS_IMSI_M_S1_LENGTH 7

9.6.1.2 #define NAS_IMSI_M_S2_LENGTH 3

9.6.1.3 #define NAS_MAX_DESCRIPTION_LENGTH 255

9.6.1.4 #define NAS_MAX_NUM_NETWORKS 30

9.6.1.5 #define NAS_MAX_SCC_RX_INFO_INSTANCES 255

9.6.1.6 #define NAS_NAM_NAME_LENGTH 12

9.6.1.7 #define NAS_OTA_MESSAGE_MAX_BUF_SIZE 2048

9.6.1.8 #define NAS_PLMN_LENGTH 3

9.6.1.9 #define NAS_SERVING_SYSTEM_INFO_MAX_RADIO_INTERFACE_LIST 255

9.6.2 Enumeration Type Documentation

9.6.2.1 enum LITEQMI_NAS_LTE_CPHY_CA_BW_NRB

Enumerator

eLITEQMI_NAS_LTE_CPHY_CA_BW_NRB_6
eLITEQMI_NAS_LTE_CPHY_CA_BW_NRB_15
eLITEQMI_NAS_LTE_CPHY_CA_BW_NRB_25
eLITEQMI_NAS_LTE_CPHY_CA_BW_NRB_50
eLITEQMI_NAS_LTE_CPHY_CA_BW_NRB_75
eLITEQMI_NAS_LTE_CPHY_CA_BW_NRB_100

9.6.2.2 enum LITEQMI_NAS_LTE_CPHY_SCELL_STATE

Enumerator

eLITEQMI_NAS_LTE_CPHY_SCELL_STATE_DECONFIGURED
eLITEQMI_NAS_LTE_CPHY_SCELL_STATE_CONFIGURED_DEACTIVATED
eLITEQMI_NAS_LTE_CPHY_SCELL_STATE_CONFIGURED_ACTIVATED

9.6.2.3 enum NAS_LTE_CPHY_CA_BW_NRB_LITE

Enumerator

eNAS_LTE_CPHY_CA_BW_NRB_LITE_6
eNAS_LTE_CPHY_CA_BW_NRB_LITE_15
eNAS_LTE_CPHY_CA_BW_NRB_LITE_25
eNAS_LTE_CPHY_CA_BW_NRB_LITE_50
eNAS_LTE_CPHY_CA_BW_NRB_LITE_75
eNAS_LTE_CPHY_CA_BW_NRB_LITE_100

9.6.2.4 enum NAS_LTE_CPHY_SCELL_STATE_LITE

Enumerator

eNAS_LTE_CPHY_SCELL_STATE_DECONFIGURED_LITE

eNAS_LTE_CPHY_SCELL_STATE_CONFIGURED_DEACTIVATED_LITE

eNAS_LTE_CPHY_SCELL_STATE_CONFIGURED_ACTIVATED_LITE

9.6.3 Function Documentation

9.6.3.1 int pack_nas_GetACCOLC (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Retrieves information about the access overload class (ACCOLC) pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.2 int pack_nas_GetANAAAAuthenticationStatus (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

AN-AAA authentication status of the device pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.3 int pack_nas_GetCDMANetworkParameters (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Get CDMA Network Parameters pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.4 int pack_nas_GetHomeNetwork (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

get home network pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.5 int pack_nas_GetHomeNetwork3GPP2 (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Get Home Network 3GPP2 Parameters pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.6 int pack_nas_GetNetworkPreference (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Gets the network registration preference pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

9.6.3.7 int pack_nas_GetRFInfo (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

get rf info pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.8 int pack_nas_GetServingNetwork (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Pack provides information about the system that provides service to the device.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.9 int pack_nas_GetServingNetworkCapabilities (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Pack returns information regarding the data capabilities of the system that currently provides service to the device.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.10 int pack_nas_GetSignalStrengths (pack_qmi_t * pCtx, uint8_t * pReq, uint16_t * pLen)

get signal strengths pack. This API is deprecated on MC73xx/EM73xx modules since firmware version SWI9X15-C_05_xx_xx_xx and all EM74xx firmware versions. Please use pack_nas_SLQSNasGetSigInfo() for new firmware versions and new modules

Parameters

in,out	*pCtx*	qmi request context
out	*pReq*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.11 int pack_nas_InitiateDomainAttach (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_nas_InitiateDomainAttach_t * pReqParam)

Initiates a domain attach/detach of the device pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request Parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.12 int pack_nas_PerformNetworkScan (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen)

Pack performs scan for available networks and scans for RAT info as well.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.13 int pack_nas_SetACCOLC (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_nas_SetACCOLC_t *reqParam*)

Pack Sets the access overload class (ACCOLC)

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqParam*	request Parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.14 int pack_nas_SetCDMANetworkParameters (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_nas_SetCDMANetworkParameters_t * *pReqParam*)

CDMA Network Parameters pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request Parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.15 int pack_nas_SetLURejectCallback (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, uint8_t * *pBenable*)

Pack set registration reject Callback

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pBenable*	0/1 value to disable/enable indication respectively

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.16 int pack_nas_SetNetworkPreference (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_nas_SetNetworkPreference_t * *reqArg*)

Sets the network registration preference. This API is deprecated on MC73xx/EM73xx modules since firmware version SWI9X15C_05_xx_xx_xx and all EM74xx firmware versions. Please use pack_nas_SLQSSetSysSelection-Pref() for new firmware versions and new modules

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

9.6.3.17 int pack_nas_SetRFInfoCallback (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, uint8_t * *pBenable*)

Pack Set RF Band Information callback.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pBenable*	0/1 value to disable/enable indication respectively

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.18 int pack_nas_SLQSConfigSigInfo (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_nas_SLQSConfigSigInfo_t * *pReqParam*)

Config Sig Info Parameters pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request prarmeters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.19 int pack_nas_SLQSGetErrorRate (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Get Error Rate Parameters pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.20 int pack_nas_SlqsGetLTECphyCAInfo (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Pack get carrier aggregation event information.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

9.6.3.21 int pack_nas_SLQSGetNetworkTime (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Pack Get Network Time.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.22 int pack_nas_SLQSGetOperatorNameData (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen)

Operator Name Data Parameters pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.23 int pack_nas_SLQSGetPLMNName (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_nas_SLQSGetPLMNName_t * reqArg)

Pack get operator name for specificed network.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request prarmeters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.24 int pack_nas_SLQSGetServingSystem (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen)

Pack queries information regarding the system that currently provides service.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.25 int pack_nas_SLQSGetSignalStrength (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, uint16_t *reqMask*)

Queries the current signal strength as measured by the device. This API is deprecated on MC73xx/EM73xx modules since firmware version SWI9X15C_05_xx_xx_xx and all EM74xx firmware versions. Please use pack_nas_SLQS-NasGetSigInfo() for new firmware versions and new modules

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqMask*	request mask for fetching extra signal info

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.26 int pack_nas_SLQSGetSysInfo (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Pack get system information.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.27 int pack_nas_SLQSGetSysSelectionPref (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Queries the different system selection preferences of the device pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.28 int pack_nas_SLQSGetSysSelectionPrefExt (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Queries the different system selection preferences of the device pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.29 int pack_nas_SLQSInitiateNetworkRegistration (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_nas_SLQSInitiateNetworkRegistration_t * *pReqParam*)

Pack initiates a network registration.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request Parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.30 int pack_nas_SLQSNasConfigSigInfo2 (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_nas_SLQSNasConfigSigInfo2_t * *pReqParam*)

Pack sets the signal strength reporting thresholds

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request Parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.31 int pack_nas_SLQSNasGet3GPP2Subscription (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_nas_SLQSNasGet3GPP2Subscription_t * *reqArg*)

3GPP2 Subscription Parameters pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request prarmeters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.32 int pack_nas_SLQSNasGetCellLocationInfo (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Pack retrieves cell location-related information.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.33 int pack_nas_SLQSNASGeteDRXParams (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Get eDRX Parameters pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.34 int pack_nas_SLQSNasGetHDRColorCode (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

HDR Color Code Parameters pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.35 int pack_nas_SLQSNasGetRFInfo (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Gets radio band/channel information pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.36 int pack_nas_SLQSNasGetSigInfo (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

get sig info pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.37 int pack_nas_SLQSNasGetTxRxInfo (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_nas_SLQSNasGetTxRxInfo_t * *reqArg*)

Get Tx Rx Info Parameters pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request prarmeters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.38 int pack_nas_SLQSNasIndicationRegisterExt (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_nas_SLQSNasIndicationRegisterExt_t * *pReqParam*)

Pack used to Registers/De-registers for different NAS (Network access service) indications.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request Parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

Note

This function is used by a control point to register/deregister for different QMI_NAS indications. The control point's registration state variables, controlling registration for indications, are modified to reflect the settings indicated in the parameters that are present in the request message. At least one optional parameter must be present in the request.

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.39 int pack_nas_SLQSNASSeteDRXParams (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_nas_SLQSNASSeteDRXParams_t * pReqParam)

Set eDRX Parameters pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request prarmeters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.40 int pack_nas_SLQSNASSwiGetChannelLock (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen)

Get Channel Lock Parameters pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.41 int pack_nas_SLQSNasSwiIndicationRegister (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_nas_SLQSNasSwiIndicationRegister_t * pReqParam)

Pack sets the registration state for different QMI_NAS SWI indications.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request prarmeters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.42 int pack_nas_SLQSNasSwiModemStatus (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

This function requests the device to return the current status of modem.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.43 int pack_nas_SLQSNASSwiSetChannelLock (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_nas_SLQSNASSwiSetChannelLock_t * *pReqParam*)

Set Channel Lock Parameters pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request prarmeters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.44 int pack_nas_SLQSSetBandPreference (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_nas_SLQSSetBandPreference_t * *pReqParam*)

Pack sets the different system selection preferences of the device.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request Parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.45 int pack_nas_SLQSSetSignalStrengthsCallback (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_nas_SLQSSetSignalStrengthsCallback_t * *pReqParam*)

Pack set signal strength thresholds callback.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request prarmeters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.46 int pack_nas_SLQSSetSysSelectionPref (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_nas_SLQSSetSysSelectionPref_t * *pReqParam*)

Sets the different system selection preferences of the device pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request Parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values4780

9.6.3.47 int pack_nas_SLQSSetSysSelectionPrefExt (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_nas_SLQSSetSysSelectionPrefExt_t * *pReqParam*)

Sets the different system selection preferences of the device pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request Parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values4780

9.6.3.48 int pack_nas_SLQSSwiGetHDRPersonality (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

HDR Personality Parameters pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.49 int pack_nas_SLQSSwiGetHDRProtSubtype (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

HDR Protocol Sub type Parameters pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.50 int pack_nas_SLQSSwiGetHRPDStats (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

HRPD Stats Parameters pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.51 int pack_nas_SLQSSwiGetLteCQI (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Pack fetch CQI parameters for LTE data session.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.52 int pack_nas_SLQSSwiGetLteSccRxInfo (pack_qmi_t * *pCtx*, uint8_t * *pReq*, uint16_t * *pLen*)

get LTE Secondary carrier Rx signal level information pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReq*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.53 int pack_nas_SLQSSwiNetworkDebug (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Network Debug Parameters pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.54 int pack_nas_SLQSSwiPSDetach (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_nas_SLQSSwiPSDetach_t * *pReqParam*)

PS Connection Detach Parameters pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request Parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.55 int unpack_nas_GetACCOLC (uint8_t * *pResp*, uint16_t *respLen*, uint8_t * *pAccolc*)

Retrieves information about the access overload class (ACCOLC) unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pAccolc*	An 8-bit integer representation of the ACCOLC. • Range: 0 to 15 (0x00 to 0x0F). • 0xFF invalid data.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.56 int unpack_nas_GetANAAAAuthenticationStatus (uint8_t * *pResp*, uint16_t *respLen*, uint32_t * *pAuthStatus*)

AN-AAA authentication status of the device unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pAuthStatus*	AN-AAA Authentication Status. Status of the last AN-AAA authentication request, if any, for the current 1xEV-DO session. • 0 - AAA_STATUS_FAILED - Authentication failed • 1 - AAA_STATUS_SUCCESS - Authentication success • 2 - AAA_STATUS_NO_REQUEST - No authentication requested • 0xffffffff - invalid data.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.57 int unpack_nas_GetCDMANetworkParameters (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_GetCDMANetworkParameters_t * *pOutput*)

Get CDMA Network Parameters unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	qmi output parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.58 int unpack_nas_GetHomeNetwork (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_GetHomeNetwork_t * *pOutput*)

Retrieves information about the home network of the device unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.59 int unpack_nas_GetHomeNetwork3GPP2 (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_GetHomeNetwork3GPP2_t * *pOutput*)

Get Home Network 3GPP2 Parameters unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.60 int unpack_nas_GetNetworkPreference (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_GetNetworkPreference_t * *pOutput*)

Gets the network registration preference unpack

Parameters

in	*pResp*	qmi resp from modem
in	*respLen*	qmi resp length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.61 int unpack_nas_GetRFInfo (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_GetRFInfo_t * *pOutput*)

get rf info unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.62 int unpack_nas_GetServingNetwork (uint8_t * *pResp*, uint16_t *respLen*, **unpack_nas_GetServingNetwork_t** * *pOutput*)

Unpack provides information about the system that provides service to the device. This API is deprecated on MC73xx/EM73xx modules since firmware version SWI9X15C_05_xx_xx_xx and all EM74xx firmware versions. Please use API unpack_nas_SLQSGetSysInfo() for new firmware versions and new modules

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.63 int unpack_nas_GetServingNetworkCapabilities (uint8_t * *pResp*, uint16_t *respLen*, **unpack_nas_GetServingNetworkCapabilities_t** * *pOutput*)

Unpack returns information regarding the data capabilities of the system that currently provides service to the device.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.64 int unpack_nas_GetSignalStrengths (uint8_t * *pResp*, uint16_t *respLen*, **unpack_nas_GetSignalStrengths_t** * *pOutput*)

Returns the available signal strengths (in dBm) as measured by the device in an array. This will also provides the corresponding radio interfaces in an array. This API is deprecated on MC73xx/EM73xx modules since firmware

version SWI9X15C_05_xx_xx_xx and all EM74xx firmware versions. Please use unpack_nas_SLQSNasGetSigInfo() for new firmware versions and new modules

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.65 int unpack_nas_InitiateDomainAttach (uint8_t * *pResp*, uint16_t *respLen*)

Initiates a domain attach/detach of the device unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.66 int unpack_nas_PerformNetworkScan (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_PerformNetworkScan_t * *pOutput*)

Unpack performs scan for available networks and scans for RAT info as well.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.67 int unpack_nas_SetACCOLC (uint8_t * *pResp*, uint16_t *respLen*)

Unpack Sets the access overload class (ACCOLC)

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.68 int unpack_nas_SetCDMANetworkParameters (uint8_t * *pResp*, uint16_t *respLen*)

CDMA Network Parameters unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.69 int unpack_nas_SetDataCapabilitiesCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SetDataCapabilitiesCallback_ind_t * *pOutput*)

Data Capabilities indication unpack

Parameters

in	*pResp*	qmi indication from modem
in	*respLen*	qmi indication length
out	*pOutput*	indication unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.70 int unpack_nas_SetEventReportInd (uint8_t * *pResp*, uint16_t *respLen*, **unpack_nas_SetEventReportInd_t** * *pOutput*)

Unpack set event report indication.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.71 int unpack_nas_SetLURejectCallback (uint8_t * *pResp*, uint16_t *respLen*)

Unpack set registration reject Callback

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.72 int unpack_nas_SetNasLTECphyCaIndCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_nas_SetNasLTECphyCaIndCallback_ind_t** * *pOutput*)

Unpack set LTE PHY CA indication callback.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	sig info indication unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.73 int unpack_nas_SetNetworkPreference (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SetNetworkPreference_t * *pOutput*)

Sets the network registration preference unpack

Parameters

in	*pResp*	qmi resp from modem
in	*respLen*	qmi resp length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.74 int unpack_nas_SetRFInfoCallback (uint8_t * *pResp*, uint16_t *respLen*)

Unack Set RF Band Information callback.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.75 int unpack_nas_SetRoamingIndicatorCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SetRoamingIndicatorCallback_ind_t * *pOutput*)

Roaming indication unpack

Parameters

in	*pResp*	qmi indication from modem
in	*respLen*	qmi indication length
out	*pOutput*	indication unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.76 int unpack_nas_SetServingSystemCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SetServingSystemCallback_ind_t * *pOutput*)

Set Serving system indication unpack

Parameters

in	*pResp*	qmi indication from modem
in	*respLen*	qmi indication length
out	*pOutput*	indication unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.77 int unpack_nas_SLQSConfigSigInfo (uint8_t * *pResp*, uint16_t *respLen*)

Config Sig Info Parameters unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.78 int unpack_nas_SLQSGetErrorRate (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SLQSGetErrorRate_t * *pOutput*)

Get Error Rate Parameters unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.79 int unpack_nas_SlqsGetLTECphyCAInfo (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SlqsGetLTECphyCAInfo_t * *pOutput*)

Unack get carrier aggregation event information.

Parameters

in	*pResp*	qmi resp from modem
in	*respLen*	qmi resp length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.80 int unpack_nas_SLQSGetNetworkTime (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SLQSGetNetworkTime_t * *pOutput*)

Unpack get network time.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.81 int unpack_nas_SLQSGetOperatorNameData (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SLQSGetOperatorNameData_t * *pOutput*)

Operator Name Data Parameters unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.82 int unpack_nas_SLQSGetPLMNName (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SLQSGetPLMNName_t * *pOutput*)

unpack get operator name for specificed network.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.83 int unpack_nas_SLQSGetServingSystem (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SLQSGetServingSystem_t * *pOutput*)

Unack queries information regarding the system that currently provides service.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.84 int unpack_nas_SLQSGetSignalStrength (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SLQSGetSignalStrength_t * *pOutput*)

Unpack get signal strength.This API is deprecated on MC73xx/EM73xx modules since firmware version SWI9X15C_05_xx_xx_xx and all EM74xx firmware versions. Please use unpack_nas_SLQSNasGetSigInfo() for new firmware versions and new modules

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.85 int unpack_nas_SLQSGetSysInfo (uint8_t * *pResp*, uint16_t *respLen*, **unpack_nas_SLQSGetSysInfo_t** * *pOutput*)

Provides the system information. This API is preferred when trying to get the service status info and serving system info. The function unpack_nas_SLQSGetServingSystem_t() reports similar NAS information, but it is deprecated. Please refer to the header description of unpack_nas_SLQSGetServingSystem_t() for more information.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

Note

This API queries current serving system information, including registration information and system property. The registration information for all RATs specified in the mode capability setting are included regardless of registration status. The RAT-specific system property are included only for RATs that are specified in the mode capability setting and which are not in either No Service or Power Save modes.

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.86 int unpack_nas_SLQSGetSysSelectionPref (uint8_t * *pResp*, uint16_t *respLen*, **unpack_nas_SLQSGetSysSelectionPref_t** * *pOutput*)

Queries the different system selection preferences of the device unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.87 int unpack_nas_SLQSGetSysSelectionPrefExt (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SLQSGetSysSelectionPrefExt_t * *pOutput*)

Queries the different system selection preferences of the device unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.88 int unpack_nas_SLQSInitiateNetworkRegistration (uint8_t * *pResp*, uint16_t *respLen*)

Unpack initiates a network registration.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.89 int unpack_nas_SLQSNasConfigSigInfo2 (uint8_t * *pResp*, uint16_t *respLen*)

Unpack sets the signal strength reporting thresholds

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.90 int unpack_nas_SLQSNasGet3GPP2Subscription (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SLQSNasGet3GPP2Subscription_t * *pOutput*)

3GPP2 Subscription Parameters unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.91 int unpack_nas_SLQSNasGetCellLocationInfo (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SLQSNasGetCellLocationInfo_t * *pOutput*)

Unpack retrieves cell location-related information.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.92 int unpack_nas_SLQSNASGeteDRXParams (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SLQSNASGeteDRXParams_t * *pOutput*)

Get eDRX Parameters unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.93 int unpack_nas_SLQSNasGetHDRColorCode (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SLQSNasGetHDRColorCode_t * *pOutput*)

HDR Color Code Parameters unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.94 int unpack_nas_SLQSNasGetRFInfo (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SLQSNasGetRFInfo_t * *pOutput*)

Gets radio band/channel information unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.95 int unpack_nas_SLQSNasGetSigInfo (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SLQSNasGetSigInfo_t * *pOutput*)

get sig info unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

Note

This command queries the signal strength information for currently active RATs. Information is reported only if the corresponding RATs have signal strength values to be reported. If no signal strength information is available for any RAT, the response message contains only the mandatory response message

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.96 int unpack_nas_SLQSNasGetTxRxInfo (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SLQSNasGetTxRxInfo_t * *pOutput*)

Get Tx Rx Info Parameters unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.97 int unpack_nas_SLQSNasIndicationRegisterExt (uint8_t * *pResp*, uint16_t *respLen*)

Unpack used to Registers/De-registers for different NAS (Network access service) indications.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.98 int unpack_nas_SLQSNasNetworkTimeCallBack_ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SLQSNasNetworkTimeCallBack_ind_t * *pOutput*)

Unpack Network time callback indication.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	sig info indication unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.99 int unpack_nas_SLQSNASSeteDRXParams (uint8_t * *pResp*, uint16_t *respLen*)

Set eDRX Parameters unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.100 int unpack_nas_SLQSNasSigInfoCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SLQSNasSigInfoCallback_ind_t * *pOutput*)

Unpack Signal Information callback indication.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	sig info indication unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.101 int unpack_nas_SLQSNASSwiGetChannelLock (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SLQSNASSwiGetChannelLock_t * *pOutput*)

Get Channel Lock Parameters unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.102 int unpack_nas_SLQSNasSwiIndicationRegister (uint8_t * *pResp*, uint16_t *respLen*)

unpack sets the registration state for different QMI_NAS SWI indications.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.103 int unpack_nas_SLQSNasSwiModemStatus (uint8_t * *pResp*, uint16_t *respLen*, **unpack_nas_SLQSNasSwiModemStatus_t** * *pOutput*)

This function requests the device to return the current status of modem.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.104 int unpack_nas_SLQSNasSwiOTAMessageCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_nas_SLQSNasSwiOTAMessageCallback_ind_t** * *pOutput*)

OTA message indication unpack

Parameters

in	*pResp*	qmi indication from modem
in	*respLen*	qmi indication length
out	*pOutput*	indication unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.105 int unpack_nas_SLQSNASSwiSetChannelLock (uint8_t * *pResp*, uint16_t *respLen*)

Set Channel Lock Parameters unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.106 int unpack_nas_SLQSNasSysInfoCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SLQSSysInfoCallback_ind_t * *pOutput*)

Unpack system information callback indication.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.107 int unpack_nas_SLQSNasTimerCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SLQSNasTimerCallback_ind_t * *pOutput*)

Unpack timer callback indication.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	network timer indication unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.108 int unpack_nas_SLQSSetBandPreference (uint8_t * *pResp*, uint16_t *respLen*)

Unpack sets the different system selection preferences of the device.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

9.6.3.109 int unpack_nas_SLQSSetSignalStrengthsCallback (uint8_t * *pResp*, uint16_t *respLen*)

Unpack set signal strength thresholds callback.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.110 int unpack_nas_SLQSSetSysSelectionPref (uint8_t * *pResp*, uint16_t *respLen*)

Sets the different system selection preferences of the device unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.111 int unpack_nas_SLQSSetSysSelectionPrefCallBack_ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SLQSSetSysSelectionPrefCallBack_ind_t * *pOutput*)

System Selection Preference indication unpack

Parameters

in	*pResp*	qmi indication from modem
in	*respLen*	qmi indication length
out	*pOutput*	indication unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.112 int unpack_nas_SLQSSetSysSelectionPrefExt (uint8_t * *pResp*, uint16_t *respLen*)

Sets the different system selection preferences of the device unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.113 int unpack_nas_SLQSSwiGetHDRPersonality (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SLQSSwiGetHDRPersonality_t * *pOutput*)

HDR Personality Parameters unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.114 int unpack_nas_SLQSSwiGetHDRProtSubtype (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SLQSSwiGetHDRProtSubtype_t * *pOutput*)

HDR Protocol Sub type Parameters unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.115 int unpack_nas_SLQSSwiGetHRPDStats (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SLQSSwiGetHRPDStats_t * *pOutput*)

HRPD Stats Parameters unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.116 int unpack_nas_SLQSSwiGetLteCQI (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SLQSSwiGetLteCQI_t * *pOutput*)

Unack fetch CQI parameters for LTE data session.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.117 int unpack_nas_SLQSSwiGetLteSccRxInfo (uint8_t * *pResp*, uint16_t *respLen*, **unpack_nas_SLQSSwiGetLteSccRxInfo_t** * *pOutput*)

get LTE Secondary carrier Rx signal level information unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.118 int unpack_nas_SLQSSwiHDRPersonalityCallback_Ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_nas_SLQSSwiHDRPersonalityCallback_Ind_t** * *pOutput*)

unpack nas SWI Hdr Personality indication

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.119 int unpack_nas_SLQSSwiNetworkDebug (uint8_t * *pResp*, uint16_t *respLen*, **unpack_nas_SLQSSwiNetworkDebug_t** * *pOutput*)

Network Debug Parameters unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.120 int unpack_nas_SLQSSwiPSDetach (uint8_t * *pResp*, uint16_t *respLen*)

PS Connection Detach Parameters unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.121 int unpack_nas_SLQSSwiRandIndicatorCallback_Ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_nas_SLQSSwiRandIndicatorCallback_Ind_t * *pOutput*)

unpack nas SWI Rank indicator indication

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.122 int unpack_valid_nas_GetCDMANetworkParameters (uint8_t * *pResp*, uint8_t *u8Info*)

valid CDMA Network Parameters

Parameters

in	*pResp*	qmi response from modem
in	*u8Info*	value to check unpack_nas_GetCDMANetworkParameters_t param valid. • 0 - SCI • 1 - SCM • 2 - RegHomeSID, RegForeignSID and RegForeignNID • 3 - ForceRev0 • 4 - CustomSCP, Protocol ,Broadcast and Application • 5 - Roaming

Returns

eQCWWAN_ERR_NONE on signal info valid, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.123 int unpack_valid_nas_SLQSGetServingSystem (uint8_t * *pResp*, uint8_t *u8Info*)

valid queries information regarding the system that currently provides service

Parameters

in	*pResp*	qmi response from modem
in	*u8Info*	value to check unpack_nas_SLQSGetServingSystem_t param valid. • 0 - RoamIndicatorVal • 1 - DataSrvCapabilities • 2 - CurrentPLMN • 3 - SystemID and NetworkID • 4 - BaseStationID, BaseStationLatitude and BasestationLongitude • 5 - RoamingIndicatorList • 6 - DefaultRoamInd • 7 - Gpp2TimeZone • 8 - CDMA_P_Rev • 9 - GppTimeZone • 10 - GppNetworkDSTAdjustment • 11 - Lac • 12 - CellID • 13 - ConcSvcInfo • 14 - PRLInd • 15 - DTMInd • 16 - DetailedSvcInfo • 17 - CDMASystemInfoExt • 18 - HdrPersonality • 19 - TrackAreaCode • 20 - CallBarStatus

Returns

eQCWWAN_ERR_NONE on signal info valid, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.124 int unpack_valid_nas_SLQSGetSignalStrength (uint8_t * *pResp*, uint8_t *u8Info*)

valid queries information regarding the system that currently provides service

Parameters

in	*pResp*	qmi response from modem
in	*u8Info*	value to check unpack_nas_SLQSGetSignalStrength_t param valid. • 0 - rxSignalStrengthList and rxSignalStrengthListLen • 1 - ecioList and ecioListLen • 2 - Io • 3 - sinr • 4 - errorRateListLen, errorRateList • 5 - rsrqInfo • 6 - ltesnr • 7 - ltersrp

Returns

eQCWWAN_ERR_NONE on signal info valid, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.6.3.125 int unpack_valid_nas_SLQSNasGetSigInfo (uint8_t * *pResp*, uint8_t *u8Info*)

valid get sig info

Parameters

in	*pResp*	qmi response from modem
in	*u8Info*	value to check unpack_nas_SLQSNasGetSigInfo_t param valid. • 0 - CDMASSInfo • 1 - HDRSSInfo. • 2 - GSMSSInfo. • 3 - WCDMASSInfo. • 4 - LTESSInfo.

Returns

eQCWWAN_ERR_NONE on signal info valid, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7 pds.h File Reference

Data Structures

- struct unpack_pds_GetPDSState_t
- struct pack_pds_SetPDSState_t
- struct unpack_pds_GetPDSDefaults_t
- struct pack_pds_SetPDSDefaults_t
- struct unpack_pds_GetPortAutomaticTracking_t
- struct pack_pds_SetPortAutomaticTracking_t
- struct pack_pds_StartPDSTrackingSessionExt_t
- struct pack_pds_PDSInjectTimeReference_t
- struct unpack_pds_GetXTRAAutomaticDownload_t
- struct pack_pds_SetXTRAAutomaticDownload_t
- struct unpack_pds_GetXTRANetwork_t
- struct pack_pds_SetXTRANetwork_t
- struct unpack_pds_GetXTRAValidity_t
- struct unpack_pds_GetServiceAutomaticTracking_t
- struct pack_pds_SetServiceAutomaticTracking_t
- struct pack_pds_ResetPDSData_t
- struct pack_pds_SLQSSetAGPSConfig_t
- struct pack_pds_SLQSPDSInjectAbsoluteTimeReference_t
- struct pack_pds_SLQSGetAGPSConfig_t
- struct unpack_pds_SLQSGetAGPSConfig_t
- struct pack_pds_SLQSPDSInjectPositionData_t
- struct unpack_pds_SLQSGetGPSStateInfo_t
- struct pack_pds_SLQSSetPositionMethodState_t
- struct pack_pds_SetEventReportCallback_t
- struct unpack_pds_SetEventReport_Ind_t
- struct unpack_pds_SetPdsState_Ind_t

Functions

- int pack_pds_GetPDSState (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen)
- int unpack_pds_GetPDSState (uint8_t ∗pResp, uint16_t respLen, unpack_pds_GetPDSState_t ∗pOutput)
- int pack_pds_SetPDSState (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, pack_pds_SetPDSState_t ∗pReqParam)
- int unpack_pds_SetPDSState (uint8_t ∗pResp, uint16_t respLen)
- int pack_pds_GetPDSDefaults (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen)
- int unpack_pds_GetPDSDefaults (uint8_t ∗pResp, uint16_t respLen, unpack_pds_GetPDSDefaults_t ∗pOutput)
- int pack_pds_SetPDSDefaults (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, pack_pds_SetPDSDefaults_t ∗pReqParam)
- int unpack_pds_SetPDSDefaults (uint8_t ∗pResp, uint16_t respLen)
- int pack_pds_GetPortAutomaticTracking (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen)
- int unpack_pds_GetPortAutomaticTracking (uint8_t ∗pResp, uint16_t respLen, unpack_pds_GetPortAutomaticTracking_t ∗pOutput)
- int pack_pds_SetPortAutomaticTracking (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, pack_pds_SetPortAutomaticTracking_t ∗pReqParam)
- int unpack_pds_SetPortAutomaticTracking (uint8_t ∗pResp, uint16_t respLen)

- int pack_pds_StartPDSTrackingSessionExt (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_pds_StartPDSTrackingSessionExt_t *pReqParam)
- int unpack_pds_StartPDSTrackingSessionExt (uint8_t *pResp, uint16_t respLen)
- int pack_pds_StopPDSTrackingSession (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_pds_StopPDSTrackingSession (uint8_t *pResp, uint16_t respLen)
- int pack_pds_PDSInjectTimeReference (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_pds_PDSInjectTimeReference_t *pReqParam)
- int unpack_pds_PDSInjectTimeReference (uint8_t *pResp, uint16_t respLen)
- int pack_pds_GetXTRAAutomaticDownload (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_pds_GetXTRAAutomaticDownload (uint8_t *pResp, uint16_t respLen, unpack_pds_GetXTRAAutomaticDownload_t *pOutput)
- int pack_pds_SetXTRAAutomaticDownload (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_pds_SetXTRAAutomaticDownload_t *pReqParam)
- int unpack_pds_SetXTRAAutomaticDownload (uint8_t *pResp, uint16_t respLen)
- int pack_pds_GetXTRANetwork (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_pds_GetXTRANetwork (uint8_t *pResp, uint16_t respLen, unpack_pds_GetXTRANetwork_t *pOutput)
- int pack_pds_SetXTRANetwork (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_pds_SetXTRANetwork_t *pReqParam)
- int unpack_pds_SetXTRANetwork (uint8_t *pResp, uint16_t respLen)
- int pack_pds_GetXTRAValidity (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_pds_GetXTRAValidity (uint8_t *pResp, uint16_t respLen, unpack_pds_GetXTRAValidity_t *pOutput)
- int pack_pds_ForceXTRADownload (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_pds_ForceXTRADownload (uint8_t *pResp, uint16_t respLen)
- int pack_pds_GetServiceAutomaticTracking (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_pds_GetServiceAutomaticTracking (uint8_t *pResp, uint16_t respLen, unpack_pds_GetServiceAutomaticTracking_t *pOutput)
- int pack_pds_SetServiceAutomaticTracking (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_pds_SetServiceAutomaticTracking_t *pReqParam)
- int unpack_pds_SetServiceAutomaticTracking (uint8_t *pResp, uint16_t respLen)
- int pack_pds_ResetPDSData (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_pds_ResetPDSData_t *pReqParam)
- int unpack_pds_ResetPDSData (uint8_t *pResp, uint16_t respLen)
- int pack_pds_SLQSSetAGPSConfig (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_pds_SLQSSetAGPSConfig_t *pReqParam)
- int unpack_pds_SLQSSetAGPSConfig (uint8_t *pResp, uint16_t respLen)
- int pack_pds_SLQSPDSInjectAbsoluteTimeReference (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_pds_SLQSPDSInjectAbsoluteTimeReference_t *pReqParam)
- int unpack_pds_SLQSPDSInjectAbsoluteTimeReference (uint8_t *pResp, uint16_t respLen)
- int pack_pds_SLQSGetAGPSConfig (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_pds_SLQSGetAGPSConfig_t *pReqParam)
- int unpack_pds_SLQSGetAGPSConfig (uint8_t *pResp, uint16_t respLen, unpack_pds_SLQSGetAGPSConfig_t *pOutput)
- int pack_pds_SLQSPDSInjectPositionData (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_pds_SLQSPDSInjectPositionData_t *pReqParam)
- int unpack_pds_SLQSPDSInjectPositionData (uint8_t *pResp, uint16_t respLen)
- int pack_pds_SLQSPDSDeterminePosition (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_pds_SLQSPDSDeterminePosition (uint8_t *pResp, uint16_t respLen)
- int pack_pds_SLQSGetGPSStateInfo (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_pds_SLQSGetGPSStateInfo (uint8_t *pResp, uint16_t respLen, unpack_pds_SLQSGetGPSStateInfo_t *pOutput)
- int pack_pds_SLQSSetPositionMethodState (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_pds_SLQSSetPositionMethodState_t *pReqParam)
- int unpack_pds_SLQSSetPositionMethodState (uint8_t *pResp, uint16_t respLen)

- int pack_pds_SetEventReportCallback (pack_qmi_t *pCtx, uint8_t *pReq, uint16_t *pLen, pack_pds_SetEventReportCallback_t *pReqParam)
- int unpack_pds_SetEventReportCallback (uint8_t *pResp, uint16_t respLen)
- int unpack_pds_SetEventReport_Ind (uint8_t *pResp, uint16_t respLen, unpack_pds_SetEventReport_Ind_t *pOutput)
- int unpack_pds_SetPdsState_Ind (uint8_t *pResp, uint16_t respLen, unpack_pds_SetPdsState_Ind_t *pOutput)

9.7.1 Function Documentation

9.7.1.1 int pack_pds_ForceXTRADownload (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Forces the XTRA database to be downloaded to the device pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.2 int pack_pds_GetPDSDefaults (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Get the default tracking session configuration pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.3 int pack_pds_GetPDSState (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Get current PDS state pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.4 int pack_pds_GetPortAutomaticTracking (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Returns the automatic tracking configuration for the NMEA COM port pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.5 int pack_pds_GetServiceAutomaticTracking (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

automatic tracking state for the service pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.6 int pack_pds_GetXTRAAutomaticDownload (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

XTRA automatic database download configuration pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.7 int pack_pds_GetXTRANetwork (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

XTRA WWAN network preference parameter pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.8 int pack_pds_GetXTRAValidity (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

XTRA database validity period parameter pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.9 int pack_pds_PDSInjectTimeReference (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_pds_PDSInjectTimeReference_t * *pReqParam*)

Inject system time parameters pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.10 int pack_pds_ResetPDSData (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_pds_ResetPDSData_t * *pReqParam*)

Resets the specified PDS data pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.11 int pack_pds_SetEventReportCallback (pack_qmi_t * *pCtx*, uint8_t * *pReq*, uint16_t * *pLen*, pack_pds_SetEventReportCallback_t * *pReqParam*)

Enables/disables the PDS Event report callback function pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReq*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.12 int pack_pds_SetPDSDefaults (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_pds_SetPDSDefaults_t * *pReqParam*)

Sets the default tracking session configuration pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.13 int pack_pds_SetPDSState (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_pds_SetPDSState_t * *pReqParam*)

Sets the PDS state pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.14 int pack_pds_SetPortAutomaticTracking (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_pds_SetPortAutomaticTracking_t * *pReqParam*)

Sets the automatic tracking configuration for the NMEA COM port pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.15 int pack_pds_SetServiceAutomaticTracking (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_pds_SetServiceAutomaticTracking_t * *pReqParam*)

Sets the automatic tracking state for the service pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.16 int pack_pds_SetXTRAAutomaticDownload (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_pds_SetXTRAAutomaticDownload_t * *pReqParam*)

Sets the XTRA automatic database download configuration pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.17 int pack_pds_SetXTRANetwork (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_pds_SetXTRANetwork_t * *pReqParam*)

Sets the XTRA WWAN network preference pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.18 int pack_pds_SLQSGetAGPSConfig (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_pds_SLQSGetAGPSConfig_t * *pReqParam*)

Gets the PDS AGPS (MS-based) configuration pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.19 int pack_pds_SLQSGetGPSStateInfo (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Queries the MSM GPS server for receiver state information pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.20 int pack_pds_SLQSPDSDeterminePosition (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Requests the MSM GPS service to obtain the current position for manually controlled tracking sessions pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.21 int pack_pds_SLQSPDSInjectAbsoluteTimeReference (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_pds_SLQSPDSInjectAbsoluteTimeReference_t * *pReqParam*)

Injects a absolute time reference into the PDS engine pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.22 int pack_pds_SLQSPDSInjectPositionData (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_pds_SLQSPDSInjectPositionData_t * *pReqParam*)

Injects position data into the PDS engine pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.23 int pack_pds_SLQSSetAGPSConfig (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_pds_SLQSSetAGPSConfig_t * *pReqParam*)

Sets the PDS AGPS (MS-based) configuration pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.24 int pack_pds_SLQSSetPositionMethodState (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_pds_SLQSSetPositionMethodState_t * *pReqParam*)

Sets the state of positioning methods for the device pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.25 int pack_pds_StartPDSTrackingSessionExt (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_pds_StartPDSTrackingSessionExt_t * *pReqParam*)

Starts a PDS tracking session pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request parameters

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.26 int pack_pds_StopPDSTrackingSession (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Stops a PDS tracking session pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.27 int unpack_pds_ForceXTRADownload (uint8_t * *pResp*, uint16_t *respLen*)

Forces the XTRA database to be downloaded to the device unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.28 int unpack_pds_GetPDSDefaults (uint8_t * *pResp*, uint16_t *respLen*, unpack_pds_GetPDSDefaults_t * *pOutput*)

Get the default tracking session configuration unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.29 int unpack_pds_GetPDSState (uint8_t * *pResp*, uint16_t *respLen*, **unpack_pds_GetPDSState_t** * *pOutput*)

Get current PDS state unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.30 int unpack_pds_GetPortAutomaticTracking (uint8_t * *pResp*, uint16_t *respLen*, **unpack_pds_GetPortAutomaticTracking_t** * *pOutput*)

Returns the automatic tracking configuration for the NMEA COM port unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.31 int unpack_pds_GetServiceAutomaticTracking (uint8_t * *pResp*, uint16_t *respLen*, **unpack_pds_GetServiceAutomaticTracking_t** * *pOutput*)

automatic tracking state for the service unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.32 int unpack_pds_GetXTRAAutomaticDownload (uint8_t * *pResp*, uint16_t *respLen*, **unpack_pds_GetXTRAAutomaticDownload_t** * *pOutput*)

XTRA automatic database download configuration unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.33 int unpack_pds_GetXTRANetwork (uint8_t * *pResp*, uint16_t *respLen*, **unpack_pds_GetXTRANetwork_t** * *pOutput*)

XTRA WWAN network preference parameter unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.34 int unpack_pds_GetXTRAValidity (uint8_t * *pResp*, uint16_t *respLen*, **unpack_pds_GetXTRAValidity_t** * *pOutput*)

XTRA database validity period parameter unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.35 int unpack_pds_PDSInjectTimeReference (uint8_t * *pResp*, uint16_t *respLen*)

Inject system time parameters unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.36 int unpack_pds_ResetPDSData (uint8_t * *pResp*, uint16_t *respLen*)

Resets the specified PDS data unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.37 int unpack_pds_SetEventReport_Ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_pds_SetEventReport_Ind_t * *pOutput*)

PDS Event Report Indication unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.38 int unpack_pds_SetEventReportCallback (uint8_t * *pResp*, uint16_t *respLen*)

Enables/disables the PDS Event report callback function unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.39 int unpack_pds_SetPDSDefaults (uint8_t * *pResp*, uint16_t *respLen*)

Sets the default tracking session configuration unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.40 int unpack_pds_SetPDSState (uint8_t * *pResp*, uint16_t *respLen*)

Sets the PDS state unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.41 int unpack_pds_SetPdsState_Ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_pds_SetPdsState_Ind_t * *pOutput*)

PDS State Indication unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.42 int unpack_pds_SetPortAutomaticTracking (uint8_t * *pResp*, uint16_t *respLen*)

Sets the automatic tracking configuration for the NMEA COM port unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.43 int unpack_pds_SetServiceAutomaticTracking (uint8_t * *pResp*, uint16_t *respLen*)

Sets the automatic tracking state for the service unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.44 int unpack_pds_SetXTRAAutomaticDownload (uint8_t * *pResp*, uint16_t *respLen*)

Sets the XTRA automatic database download configuration unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.45 int unpack_pds_SetXTRANetwork (uint8_t * *pResp*, uint16_t *respLen*)

Sets the XTRA WWAN network preference unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.46 int unpack_pds_SLQSGetAGPSConfig (uint8_t * *pResp*, uint16_t *respLen*, unpack_pds_SLQSGetAGPS-Config_t * *pOutput*)

Gets the PDS AGPS (MS-based) configuration unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.47 int unpack_pds_SLQSGetGPSStateInfo (uint8_t * *pResp*, uint16_t *respLen*, unpack_pds_SLQSGetGPSStateInfo_t * *pOutput*)

Queries the MSM GPS server for receiver state information unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.48 int unpack_pds_SLQSPDSDeterminePosition (uint8_t * *pResp*, uint16_t *respLen*)

Requests the MSM GPS service to obtain the current position for manually controlled tracking sessions unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.49 int unpack_pds_SLQSPDSInjectAbsoluteTimeReference (uint8_t * *pResp*, uint16_t *respLen*)

Injects a absolute time reference into the PDS engine unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.50 int unpack_pds_SLQSPDSInjectPositionData (uint8_t * *pResp*, uint16_t *respLen*)

Injects position data into the PDS engine unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.51 int unpack_pds_SLQSSetAGPSConfig (uint8_t * *pResp*, uint16_t *respLen*)

Sets the PDS AGPS (MS-based) configuration unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.52 int unpack_pds_SLQSSetPositionMethodState (uint8_t * *pResp*, uint16_t *respLen*)

Sets the state of positioning methods for the device unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.53 int unpack_pds_StartPDSTrackingSessionExt (uint8_t * *pResp*, uint16_t *respLen*)

Starts a PDS tracking session unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.7.1.54 int unpack_pds_StopPDSTrackingSession (uint8_t * *pResp*, uint16_t *respLen*)

Stops a PDS tracking session unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.8 qaCbkCatEventReportInd.h File Reference

Data Structures

- struct CatEventIDDataTlv
- struct CatAlPhaIdentifierTlv
- struct CatEventListTlv
- struct CatRefreshTlv
- struct CatEndProactiveSessionTlv
- union currentCatEvent
- struct CatCommonEventTlv
- struct QmiCbkCatEventStatusReportInd

Macros

- #define QMI_MAX_CAT_EVENT_DATA_LENGTH 255
- #define QMI_CAN_COMMON_EVENT_TLV_NUMBER 11

Enumerations

- enum eQMI_CAT_EVENT_REPORT_IND_TLV {
  eTLV_CBK_DISPLAY_TEXT = 0x10,
  eTLV_CBK_GET_IN_KEY = 0x11,
  eTLV_CBK_GET_INPUT = 0x12,
  eTLV_CBK_SETUP_MENU = 0x13,
  eTLV_CBK_SELECT_ITEM = 0x14,
  eTLV_CBK_ALPHA_IDENTIFIER = 0x15,
  eTLV_CBK_SETUP_EVENT_LIST = 0x16,
  eTLV_CBK_SETUP_IDLE_MODE_TEXT = 0x17,
  eTLV_CBK_LANGUAGE_NOTIFICATION = 0x18,
  eTLV_CBK_REFRESH = 0x19,
  eTLV_CBK_END_PROACTIVE_SESSION = 0x1A }
- enum eQMI_CAT_EVENT_REPORT_IND_TLV_LENGTH {
  eTLV_SETUP_EVENT_LIST_LENGTH = 0x04,
  eTLV_REFRESH_LENGTH = 0x03,
  eTLV_END_PROACTIVE_SESSION_LENGTH = 0x01 }

Functions

- enum eQCWWANError UpkQmiCbkCatEventReportInd (BYTE *pMdmResp, struct QmiCbkCatEventStatus-ReportInd *pAipResp)

9.8.1 Macro Definition Documentation

9.8.1.1 #define QMI_CAN_COMMON_EVENT_TLV_NUMBER 11

9.8.1.2 #define QMI_MAX_CAT_EVENT_DATA_LENGTH 255

9.8.2 Enumeration Type Documentation

9.8.2.1 enum eQMI_CAT_EVENT_REPORT_IND_TLV

Enumerator

eTLV_CBK_DISPLAY_TEXT
eTLV_CBK_GET_IN_KEY
eTLV_CBK_GET_INPUT
eTLV_CBK_SETUP_MENU
eTLV_CBK_SELECT_ITEM
eTLV_CBK_ALPHA_IDENTIFIER
eTLV_CBK_SETUP_EVENT_LIST
eTLV_CBK_SETUP_IDLE_MODE_TEXT
eTLV_CBK_LANGUAGE_NOTIFICATION
eTLV_CBK_REFRESH
eTLV_CBK_END_PROACTIVE_SESSION

9.8.2.2 enum eQMI_CAT_EVENT_REPORT_IND_TLV_LENGTH

Enumerator

eTLV_SETUP_EVENT_LIST_LENGTH
eTLV_REFRESH_LENGTH
eTLV_END_PROACTIVE_SESSION_LENGTH

9.8.3 Function Documentation

9.8.3.1 enum eQCWWANError UpkQmiCbkCatEventReportInd (BYTE * *pMdmResp*, struct QmiCbkCatEventStatusReportInd * *pAipResp*)

9.9 qaCbkSwiOmaDmEventReportInd.h File Reference

Data Structures

- struct sessionInfoTlv
- struct sessionInfoTlvExt
- struct QmiCbkSwiOmaDmEventStatusReportInd
- struct QmiCbkSwiOmaDmEventStatusReportIndExt

Macros

- #define QMI_SWIOMA_DM_FOTA 0x00
- #define QMI_SWIOMA_DM_CONFIG 0x01
- #define QMI_SWIOMA_DM_NOT 0x02

Enumerations

- enum eQMI_SWIOMA_DM_EVENT_REPORT_IND {
  eTLV_IND_OMA_DM_FOTA = 0x10,
  eTLV_IND_OMA_DM_CONFIG = 0x11,
  eTLV_IND_OMA_DM_NOT = 0x12 }

Functions

- enum eQCWWANError UpkQmiCbkSwiOmaDmEventReportInd (BYTE *pMdmResp, struct QmiCbkSwiOmaDmEventStatusReportInd *pApiResp)
- package enum eQCWWANError UpkQmiCbkSwiOmaDmEventReportIndExt (BYTE *pMdmResp, struct QmiCbkSwiOmaDmEventStatusReportInd *pApiResp)

9.9.1 Macro Definition Documentation

9.9.1.1 #define QMI_SWIOMA_DM_CONFIG 0x01

9.9.1.2 #define QMI_SWIOMA_DM_FOTA 0x00

9.9.1.3 #define QMI_SWIOMA_DM_NOT 0x02

9.9.2 Enumeration Type Documentation

9.9.2.1 enum eQMI_SWIOMA_DM_EVENT_REPORT_IND

Enumerator

eTLV_IND_OMA_DM_FOTA

eTLV_IND_OMA_DM_CONFIG

eTLV_IND_OMA_DM_NOT

9.9.3 Function Documentation

9.9.3.1 enum eQCWWANError UpkQmiCbkSwiOmaDmEventReportInd (BYTE * *pMdmResp,* struct QmiCbkSwiOmaDmEventStatusReportInd * *pApiResp*)

9.9.3.2 package enum eQCWWANError UpkQmiCbkSwiOmaDmEventReportIndExt (BYTE * *pMdmResp,* struct QmiCbkSwiOmaDmEventStatusReportInd * *pApiResp*)

9.10 qaGobiApiAudio.h File Reference

Audio Service API function prototypes.

Data Structures

- struct GetAudioProfileReq
- struct GetAudioProfileResp
- struct SetAudioProfileReq
- struct GetAudioPathConfigReq
- struct TXPCMIIRFltr
- struct RXPCMIIRFltr
- struct RXAGCList
- struct RXAVCList
- struct TXAGCList
- struct GetAudioPathConfigResp
- struct SetAudioPathConfigReq
- struct GetAudioVolTLBConfigReq
- struct GetAudioVolTLBConfigResp
- struct SetAudioVolTLBConfigReq
- struct SetAudioVolTLBConfigResp

Functions

- ULONG SLQSGetAudioProfile (GetAudioProfileReq *pGetAudioProfileReq, GetAudioProfileResp *pGetAudioProfileResp)
- ULONG SLQSSetAudioProfile (SetAudioProfileReq *pSetAudioProfileReq)
- ULONG SLQSGetAudioPathConfig (GetAudioPathConfigReq *pGetAudioPathConfigReq, GetAudioPathConfigResp *pGetAudioPathConfigResp)
- ULONG SLQSSetAudioPathConfig (SetAudioPathConfigReq *pSetAudioPathConfigReq)
- ULONG SLQSGetAudioVolTLBConfig (GetAudioVolTLBConfigReq *pGetAudioVolTLBCfgReq, GetAudioVolTLBConfigResp *pGetAudioVolTLBCfgResp)
- ULONG SLQSSetAudioVolTLBConfig (SetAudioVolTLBConfigReq *pSetAudioVolTLBCfgReq, SetAudioVolTLBConfigResp *pSetAudioVolTLBCfgResp)

9.10.1 Detailed Description

Audio Service API function prototypes.

9.10.2 Function Documentation

9.10.2.1 ULONG SLQSGetAudioPathConfig (GetAudioPathConfigReq * *pGetAudioPathConfigReq,* GetAudioPathConfigResp * *pGetAudioPathConfigResp*)

This API gets the audio path configuration parameters.

Parameters

pGetAudioPathConfigReq[IN]	• See GetAudioPathConfigReq for more information
pGetAudioPathConfigResp[OUT]	• See GetAudioPathConfigResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Device Supported: SL9090
Timeout: 5 seconds

9.10.2.2 ULONG SLQSGetAudioProfile (GetAudioProfileReq * *pGetAudioProfileReq*, GetAudioProfileResp * *pGetAudioProfileResp*)

This API get the profile content of the requested audio generator.

Parameters

pGetAudioProfileReq[IN]	• See GetAudioProfileReq for more information
pGetAudioProfileResp[OUT]	• See GetAudioProfileResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Device Supported: SL9090
Timeout: 5 seconds

9.10.2.3 ULONG SLQSGetAudioVolTLBConfig (GetAudioVolTLBConfigReq * *pGetAudioVolTLBCfgReq*, GetAudioVolTLBConfigResp * *pGetAudioVolTLBCfgResp*)

This API gets the audio path configuration parameters.

Parameters

pGetAudioVolTL-BCfgReq[IN]	• See GetAudioVolTLBConfigReq for more information
pGetAudioVolTL-BCfgResp[OUT]	• See GetAudioVolTLBConfigResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Device Supported: SL9090
Timeout: 5 seconds

9.10.2.4 ULONG SLQSSetAudioPathConfig (SetAudioPathConfigReq * *pSetAudioPathConfigReq*)

This API sets the audio path configuration parameters.

Parameters

pSetAudioPath-ConfigReq[IN]	• See SetAudioPathConfigReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Device Supported: SL9090
Timeout: 5 seconds

9.10.2.5 ULONG SLQSSetAudioProfile (SetAudioProfileReq * *pSetAudioProfileReq*)

This API sets an audio profile.

Parameters

pSetAudio-ProfileReq[IN]	• See SetAudioProfileReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Device Supported: SL9090
Timeout: 5 seconds

9.10.2.6 ULONG SLQSSetAudioVolTLBConfig (SetAudioVolTLBConfigReq * *pSetAudioVolTLBCfgReq*, SetAudioVolTLBConfigResp * *pSetAudioVolTLBCfgResp*)

This API sets the audio path configuration parameters.

Parameters

pSetAudioVolTL-BCfgReq[IN]	• See SetAudioVolTLBConfigReq for more information
pSetAudioVolTL-BCfgResp[OUT]	• See SetAudioVolTLBConfigResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Device Supported: SL9090
Timeout: 5 seconds

9.11 qaGobiApiCat.h File Reference

Card Application Toolkit API function headers.

Functions

- ULONG CATSendEnvelopeCommand (ULONG cmdID, ULONG dataLen, BYTE *pData)
- ULONG CATSendTerminalResponse (ULONG refID, ULONG dataLen, BYTE *pData)

9.11.1 Detailed Description

Card Application Toolkit API function headers.

9.11.2 Function Documentation

9.11.2.1 ULONG CATSendEnvelopeCommand (ULONG *cmdID,* ULONG *dataLen,* BYTE * *pData*)

Sends the envelope command to the device.

Parameters

cmdID	• Envelope command type – 0x01 - Menu Selection – 0x02 - Event DL User activity – 0x03 - Event DL Idle Screen Available – 0x04 - Event DL Language Selection
dataLen	• Length of pData in bytes
pData[IN]	• Encoded envelope data as defined in ETSI TS 102 223, section 7 [Smart Cards: Card Application Toolkit (CAT) – Release 4]

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: 2 seconds

9.11.2.2 ULONG CATSendTerminalResponse (ULONG *refID,* ULONG *dataLen,* BYTE * *pData*)

Sends the terminal response to the device.

Parameters

refID	• Proactive command reference ID. The value should be the same as indicated in the CAT event callback data for the relevant proactive command.
dataLen	• Terminal response data length
pData[IN]	• Terminal response for the relevant proactive command encoded as per ETSI TS 102 223, section 6.8 [Smart Cards: Card Application Toolkit (CAT) – Release 4]

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: 2 seconds

9.12 qaGobiApiCbk.h File Reference

Callback Service API function prototypes.

Data Structures

- struct qaQmiInterfaceInfo
- struct slqsSessionStateInfo
- struct slqsWdsEventInfo
- struct TransferStatsDataType
- struct SignalStrengthDataType
- struct SMSMTMessage
- struct SMSTransferRouteMTMessage
- struct SMSMessageMode
- struct SMSEtwsMessage
- struct SMSEtwsPlmn
- struct SMSCAddress
- struct SMSOnIMS
- struct SMSEventInfo_s
- struct CATEventDataType
- struct ServingSystemInfo
- struct RoamingInfo
- struct SLQSSignalStrengthsInformation
- struct SLQSSignalStrengthsIndReq
- struct ECTNum
- struct voiceSUPSNotification
- struct voiceSetAllCallStatusCbkInfo
- struct _transLayerInfoNotification
- struct _transNWRegInfoNotification
- struct UIMStatusChangeInfo
- struct voicePrivacyInfo
- struct voiceDTMFEventInfo
- struct voiceSUPSInfo
- struct nasSysInfo
- struct UniversalTime
- struct nasNetworkTime
- struct omaDmFotaTlv
- struct omaDmFotaTlvExt
- struct omaDmConfigTlvExt
- struct omaDmConfigTlv
- struct omaDmNotificationsTlv

- union sessionInfo
- union sessionInfoExt
- struct SMSMemoryInfo
- struct voiceOTASPStatusInfo
- struct signalInfo
- struct callerIDInfo
- struct callingPartyInfo
- struct calledPartyInfo
- struct redirNumInfo
- struct NSSAudioCtrl
- struct lineCtrlInfo
- struct extDispRecInfo
- struct voiceInfoRec
- struct msgWaitingInfo
- struct QosFlowInfoState
- struct QosFlowInfo
- struct QosEventInfo
- struct nasSigInfo
- struct _modemTempNotification
- struct _packetSrvStatus
- struct HDRPersonalityInd
- struct imsSIPConfigInfo
- struct imsRegMgrConfigInfo
- struct imsSMSConfigInfo
- struct imsUserConfigInfo
- struct imsVoIPConfigInfo
- struct USSDNoWaitIndicationInfo
- struct channelRate
- struct DUNCallInfoInd
- struct SMSAsyncRawSend_s
- struct LteNasReleaseInfo_s
- struct SwiOTAMsg_s
- struct DHCPOption
- struct DHCPOptionList
- struct WdsDHCPv4ClientLeaseInd
- struct QmiCbkLocCradleMountInd
- struct QmiCbkLocEventTimeSyncInd
- struct QmiCbkLocInjectTimeInd
- struct accelAcceptReady_s
- struct gyroAcceptReady_s
- struct accelTempAcceptReady_s
- struct gyroTempAcceptReady_s
- struct QmiCbkLocSensorStreamingInd
- struct QmiCbkLocInjectSensorDataInd
- struct precisionDilution_s
- struct gpsTime_s
- struct sensorDataUsage_s
- struct svUsedforFix_s
- struct QmiCbkLocPositionReportInd
- struct t_Sv
- struct t_sensor
- struct t_gpsTime
- struct QmiCbkLocBestAvailPosInd
- struct QmiCbkLocOpModeInd
- struct imsaRegStatusInfo

- struct imsaSvcStatusInfo
- struct imsaRatStatusInfo
- struct imsaPdpStatusInfo
- struct satelliteInfo
- struct gnssSvInfoNotification
- struct delAssistDataStatus
- struct QmiCbkNasLTECphyCaInfo
- struct RankIndicatorInd
- struct QmiCbkLocInjectUTCTimeInd
- struct QmiCbkLocInjectPositionInd
- struct UIMSlotStatusChangeInfo
- struct QmiCbkLocEngineStateInd
- struct _getResetInfoNotification
- struct _MitigationDevInfo
- struct QmiCbkTmdMitiLvlRptInd
- struct QmiCbkLocSetExtPowerConfigInd
- struct nasTimers
- struct CsgId
- struct PlmnID
- struct nasNetworkReject
- struct _SwiAvmsEventInd
- struct QmiCbkLocEventNMEAInd
- struct IPv4Info
- struct IPv6Info
- struct urlAddr
- struct QmiCbkLocGetServerInd
- struct dmsPsmCfgParamChange
- struct QmiCbkLocSetServerInd

Macros

- #define SIGSTRENGTH_THRESHOLD_ARR_SZ 5
- #define QMI_WMS_MAX_PAYLOAD_LENGTH 256
- #define QMI_ETWS_MAX_PAYLOAD_LENGTH 1254 /∗ Qualcomm defined max ∗/
- #define QMI_MAX_VOICE_NUMBER_LENGTH 81
- #define MAX_NO_OF_UUSINFO 20
- #define MAXUSSDLENGTH 182
- #define MAX_NO_OF_CALLS 20
- #define CBK_ENABLE_EVENT 0x01
- #define CBK_DISABLE_EVENT 0x00
- #define CBK_NOCHANGE 0xFF
- #define MAX_NO_OF_APPLICATIONS 10
- #define MAX_NO_OF_SLOTS 5
- #define MAX_NO_OF_FILES 255
- #define MAX_PATH_LENGTH 255
- #define EVENT_MASK_CARD 0x00000001
- #define EVENT_MASK_PHY_SLOT_STATUS 0x00000010
- #define EVENT_MASK_DEREGISTER_ALL 0x00000000
- #define REGISTER_EVENT 0x01
- #define DEREGISTER_EVENT 0x00
- #define FIRST_INSTANCE 0x00
- #define SECOND_INSTANCE 0x01
- #define THIRD_INSTANCE 0x02
- #define INVALID_INSTACNE 0x08

- #define REGISTER_SRV 0x01
- #define DEREGISTER_SRV 0x00
- #define WDS_SRV 0x01
- #define NAS_SRV 0x02
- #define PDS_SRV 0x04
- #define VOICE_SRV 0x08
- #define NUM_OF_SET 0xFF
- #define IPV4 4
- #define IPV6 6
- #define IPV4V6 7
- #define LOC_EVENT_MASK_ENG_STATE 0x00000080
- #define LOC_EVENT_MASK_TIME_SYNC 0x00000800
- #define LOC_EVENT_MASK_INJECT_TIME 0x00000010
- #define LOC_EVENT_MASK_SENSOR_STREAM 0x00000400
- #define LOC_EVENT_POSITION_REPORT 0x00000001
- #define LOC_EVENT_MASK_GNSS_SV_INFO 0x00000002
- #define LOC_EVENT_MASK_NMEA 0x00000004
- #define MAX_NMEA_STR_LEN 201
- #define DHCP_MAX_NUM_OPTIONS 30
- #define DHCP_OPTION_DATA_BUF_SIZE 2048 /∗ current max size of raw message in SDK process is 2048 ∗/
- #define MAX_MITIGATION_DEV_ID_LEN 255
- #define MAX_URL_ADDR_STR_LEN 256
- #define MAX_RADIO_INTERFACE_LIST 255
- #define USSD_DCS_ASCII 0x01 /∗ ASCII coding scheme ∗/
- #define USSD_DCS_8BIT 0x02 /∗ 8-bit coding scheme ∗/
- #define USSD_DCS_UCS2 0x03 /∗ UCS2 coding scheme ∗/

Typedefs

- typedef void(∗ tFNSLQSSessionState)(slqsSessionStateInfo ∗pSessionStateInfo)
- typedef void(∗ tFNSLQSWDSEvent)(slqsWdsEventInfo ∗pWdsEventInfo)
- typedef void(∗ tFNPower)(ULONG operatingMode)
- typedef void(∗ tFNActivationStatus)(ULONG activationStatus)
- typedef void(∗ tFNMobileIPStatus)(ULONG mipStatus)
- typedef void(∗ tFNRoamingIndicator)(ULONG roaming)
- typedef void(∗ tFNDataCapabilities)(BYTE dataCapsSize, BYTE ∗pDataCaps)
- typedef void(∗ tFNSignalStrength)(INT8 signalStrength, ULONG radioInterface)
- typedef void(∗ tFNRFInfo)(ULONG radioInterface, ULONG activeBandClass, ULONG activeChannel)
- typedef void(∗ tFNLUReject)(ULONG serviceDomain, ULONG rejectCause)
- typedef void(∗ tFNNewSMS)(ULONG storageType, ULONG messageIndex)
- typedef enum SMSEventType eSMSEventType
- typedef struct SMSMTMessage SMSMTMessageInfo
- typedef struct SMSTransferRouteMTMessage SMSTransferRouteMTMessageInfo
- typedef struct SMSMessageMode SMSMessageModeInfo
- typedef struct SMSEtwsMessage SMSEtwsMessageInfo
- typedef struct SMSEtwsPlmn SMSEtwsPlmnInfo
- typedef struct SMSCAddress SMSCAddressInfo
- typedef struct SMSOnIMS SMSOnIMSInfo
- typedef struct SMSEventInfo_s SMSEventInfo
- typedef void(∗ tFNSMSEvents)(SMSEventInfo ∗pSMSEventInfo)
- typedef void(∗ tFNNewNMEA)(LPCSTR pNMEA)
- typedef void(∗ tFNPDSState)(ULONG enabledStatus, ULONG trackingStatus)

- typedef void(∗ tFNCATEvent)(ULONG eventID, ULONG eventLen, BYTE ∗pEventData)
- typedef enum device_state_enum eDevState
- typedef void(∗ tFNDeviceStateChange)(eDevState device_state)
- typedef void(∗ tFNNet)(ULONG q_depth, BYTE isThrottle, BYTE instanceId)
- typedef void(∗ tFNFwDldCompletion)(ULONG fwdld_completion_status)
- typedef void(∗ tFNSLQSOMADMAlert)(ULONG eventType, BYTE ∗pEventFields)
- typedef void(∗ tFNOMADMState)(ULONG sessionState, ULONG failureReason)
- typedef void(∗ tFNServingSystem)(struct ServingSystemInfo ∗pServingSystem, struct RoamingInfo ∗pRoamingInfo)
- typedef void(∗ tFNBandPreference)(ULONGLONG band_pref)
- typedef void(∗ tFNUSSDRelease)(void)
- typedef void(∗ tFNUSSDNotification)(ULONG type, BYTE ∗pNetworkInfo)
- typedef void(∗ tFNSLQSSignalStrengths)(struct SLQSSignalStrengthsInformation sSLQSSignalStrengthsInfo)
- typedef void(∗ tFNSUPSNotification)(voiceSUPSNotification ∗pVoiceSUPSNotification)
- typedef void(∗ tFNSDKTerminated)(BYTE ∗psReason)
- typedef void(∗ tFNAllCallStatus)(voiceSetAllCallStatusCbkInfo ∗pVoiceSetAllCallStatusCbkInfo)
- typedef struct _transLayerInfoNotification transLayerNotification
- typedef void(∗ tFNtransLayerInfo)(transLayerNotification ∗pTransLayerNotification)
- typedef struct _transNWRegInfoNotification transNWRegInfoNotification
- typedef void(∗ tFNtransNWRegInfo)(transNWRegInfoNotification ∗pTransNWRegInfoNotification)
- typedef void(∗ tFNSysSelectionPref)(sysSelectPrefInfo ∗pSysSelectPrefInfo)
- typedef void(∗ tFNUIMRefresh)(UIMRefreshEvent ∗pUIMRefreshEvent)
- typedef void(∗ tFNUIMStatusChangeInfo)(UIMStatusChangeInfo ∗pUIMStatusChangeInfo)
- typedef void(∗ tFNPrivacyChange)(voicePrivacyInfo ∗pVoicePrivacyInfo)
- typedef void(∗ tFNDTMFEvent)(voiceDTMFEventInfo ∗pVoiceDTMFEventInfo)
- typedef void(∗ tFNSUPSInfo)(voiceSUPSInfo ∗pVoiceSUPSInfo)
- typedef void(∗ tFNSysInfo)(nasSysInfo ∗pNasSysInfo)
- typedef void(∗ tFNNetworkTime)(nasNetworkTime ∗pNasNetworkTime)
- typedef union sessionInfo sessionInformation
- typedef union sessionInfoExt sessionInformationExt
- typedef void(∗ tFNMemoryFull)(SMSMemoryInfo ∗pSMSMemoryFullInfo)
- typedef void(∗ tFNOTASPStatus)(voiceOTASPStatusInfo ∗pVoiceOTASPStatusInfo)
- typedef void(∗ tFNInfoRec)(voiceInfoRec ∗pVoiceInfoRec)
- typedef void(∗ tFNMessageWaiting)(msgWaitingInfo ∗pSMSMessageWaitingInfo)
- typedef void(∗ tFNSLQSQOSEvent)(BYTE instance, QosFlowInfo ∗pFlowInfo)
- typedef void(∗ tFNQosStatus)(BYTE instance, ULONG id, BYTE status, BYTE event, BYTE reason)
- typedef void(∗ tFNQosNWStatus)(BYTE status)
- typedef void(∗ tFNQosPriEvent)(WORD event)
- typedef void(∗ tFNSigInfo)(nasSigInfo ∗pNasSigInfo)
- typedef struct _modemTempNotification modemTempNotification
- typedef void(∗ tFNModemTempInfo)(modemTempNotification ∗pModemTempNotification)
- typedef struct _packetSrvStatus packetSrvStatus
- typedef void(∗ tFNPacketSrvState)(packetSrvStatus ∗pPacketSrvStatus)
- typedef void(∗ tFNHDRPersonaity)(HDRPersonalityInd ∗pHDRPers)
- typedef void(∗ tFNImsSIPConfig)(imsSIPConfigInfo ∗pImsSIPConfigInfo)
- typedef void(∗ tFNImsRegMgrConfig)(imsRegMgrConfigInfo ∗pImsRegMgrConfigInfo)
- typedef void(∗ tFNImsSMSConfig)(imsSMSConfigInfo ∗pImsSMSConfigInfo)
- typedef void(∗ tFNImsUserConfig)(imsUserConfigInfo ∗pImsUserConfigInfo)
- typedef void(∗ tFNImsVoIPConfig)(imsVoIPConfigInfo ∗pImsVoIPConfigInfo)
- typedef void(∗ tFNUSSDNoWaitIndication)(USSDNoWaitIndicationInfo ∗pNetworkInfo)
- typedef void(∗ tFNDUNCallInfo)(DUNCallInfoInd ∗pDUNCallInfo)

- typedef void(∗ tFNDataSysStatus)(CurrDataSysStat ∗pCurrDataSysStat)
- typedef struct SMSAsyncRawSend_s SMSAsyncRawSend
- typedef void(∗ tFNAsyncRawSend)(SMSAsyncRawSend ∗pSMSAsyncRawSend)
- typedef struct LteNasReleaseInfo_s LteNasReleaseInfo
- typedef struct SwiOTAMsg_s SwiOTAMsg
- typedef void(∗ tFNASwiOTAMsg)(SwiOTAMsg ∗pSwiOTAMsg)
- typedef void(∗ tFNNewGPS)(double dLongitude, double dLatitude, BYTE session_status, ULONG pos_src)
- typedef void(∗ tFNNewRMTransferStatistics)(QmiCbkWdsStatisticsIndState ∗pMsg)
- typedef void(∗ tFNDHCPv4ClientLeaseStatus)(BYTE instance, WdsDHCPv4ClientLeaseInd ∗pMsg)
- typedef void(∗ tFNSetCradleMount)(QmiCbkLocCradleMountInd ∗pSetLocCradleMount)
- typedef void(∗ tFNSetEventTimeSync)(QmiCbkLocEventTimeSyncInd ∗pSetLocEventTimeSync)
- typedef void(∗ tFNInjectTimeStatus)(QmiCbkLocInjectTimeInd ∗pLocInjectTime)
- typedef struct accelAcceptReady_s accelAcceptReady
- typedef struct gyroAcceptReady_s gyroAcceptReady
- typedef struct accelTempAcceptReady_s accelTempAcceptReady
- typedef struct gyroTempAcceptReady_s gyroTempAcceptReady
- typedef void(∗ tFNSensorStreaming)(QmiCbkLocSensorStreamingInd ∗pLocSensorStream)
- typedef void(∗ tFNInjectSensorData)(QmiCbkLocInjectSensorDataInd ∗pLocInjectSensorData)
- typedef struct precisionDilution_s precisionDilution
- typedef struct gpsTime_s gpsTime
- typedef struct sensorDataUsage_s sensorDataUsage
- typedef struct svUsedforFix_s svUsedforFix
- typedef void(∗ tFNEventPosition)(QmiCbkLocPositionReportInd ∗pLocPositionReport)
- typedef void(∗ tFNBestAvailPos)(QmiCbkLocBestAvailPosInd ∗pBestAvailPos)
- typedef void(∗ tFNOpMode)(QmiCbkLocOpModeInd ∗pLocOpmode)
- typedef void(∗ tFNImsaRegStatus)(imsaRegStatusInfo ∗pImsaRegStatusInfo)
- typedef void(∗ tFNImsaSvcStatus)(imsaSvcStatusInfo ∗pImsaSvcStatusInfo)
- typedef void(∗ tFNImsaRatStatus)(imsaRatStatusInfo ∗pImsaRatStatusInfo)
- typedef void(∗ tFNImsaPdpStatus)(imsaPdpStatusInfo ∗pImsaPdpStatusInfo)
- typedef void(∗ tFNGnssSvInfo)(gnssSvInfoNotification ∗pGnssSvInfoNotification)
- typedef void(∗ tFNDelAssistData)(delAssistDataStatus ∗pAssistDataNotification)
- typedef void(∗ tFNASwiLTECphyCaInfo)(QmiCbkNasLTECphyCaInfo ∗pQmiCbkNasLTECphyCaInfo)
- typedef void(∗ tFNRankIndicator)(RankIndicatorInd ∗pRankIndicatorInd)
- typedef void(∗ tFNInjectUTCTime)(QmiCbkLocInjectUTCTimeInd ∗pInjectUTCTimeNotification)
- typedef void(∗ tFNInjectPosition)(QmiCbkLocInjectPositionInd ∗pInjectPositionNotification)
- typedef void(∗ tFNCbkUimSlotStatusChangeInd)(UIMSlotStatusChangeInfo ∗pQmiCbkUimSlotStatus-ChangeInd)
- typedef void(∗ tFNSetEngineState)(QmiCbkLocEngineStateInd ∗pSetLocEngineState)
- typedef struct _getResetInfoNotification ResetInfoNotification
- typedef void(∗ tFNResetInfo)(ResetInfoNotification ∗pResetInfoNotification)
- typedef void(∗ tFNMitiLvlRpt)(QmiCbkTmdMitiLvlRptInd ∗pSetLocCradleMount)
- typedef void(∗ tFNSetExtPowerConfig)(QmiCbkLocSetExtPowerConfigInd ∗pSetExtConfigIndStatus)
- typedef void(∗ tFNNasTimer)(nasTimers ∗timers)
- typedef void(∗ tFNNetworkReject)(nasNetworkReject ∗pNetworkReject)
- typedef struct _SwiAvmsEventInd SwiAvmsEventInd
- typedef void(∗ tFNSwiAvmEventReport)(SwiAvmsEventInd ∗pEvent)
- typedef void(∗ tFNEventNmea)(QmiCbkLocEventNMEAInd ∗pNMEAEventData)
- typedef void(∗ tFNGetServer)(QmiCbkLocGetServerInd ∗pGetLocServerInfo)
- typedef void(∗ tFNPSMCfgParamChange)(dmsPsmCfgParamChange ∗pPSMCfgParamInd)
- typedef void(∗ tFNSetServer)(QmiCbkLocSetServerInd ∗pSetLocServerInfo)

Enumerations

- enum eQaQMIService {
  eQA_QMI_SVC_WDS = 0x01,
  eQA_QMI_SVC_NAS = 0x03,
  eQA_QMI_SVC_NA = 0xFF }
- enum SMSEventType {
  SMS_EVENT_MT_MESSAGE = 0x01,
  SMS_EVENT_TRANSFER_ROUTE_MT_MESSAGE = 0x02,
  SMS_EVENT_MESSAGE_MODE = 0x04,
  SMS_EVENT_ETWS = 0x08,
  SMS_EVENT_ETWS_PLMN = 0x10,
  SMS_EVENT_SMSC_ADDRESS = 0x20,
  SMS_EVENT_SMS_ON_IMS = 0x40 }
- enum device_state_enum {
  DEVICE_STATE_DISCONNECTED,
  DEVICE_STATE_READY,
  DEVICE_STATE_BOOT,
  DEVICE_STATE_SERIAL_ONLY }
- enum TYPE_OF_SERVICE_DOMAIN {
  SYS_SRV_DOMAIN_NO_SRV = 0x00,
  SYS_SRV_DOMAIN_CS_ONLY = 0x01,
  SYS_SRV_DOMAIN_PS_ONLY = 0x02,
  SYS_SRV_DOMAIN_CS_PS = 0x03,
  SYS_SRV_DOMAIN_CAMPED = 0x04 }

Functions

- ULONG SLQSSetSessionStateCallback (tFNSLQSSessionState pCallback)
- ULONG SLQSSetWdsEventCallback (tFNSLQSWDSEvent pCallback, BYTE interval, BYTE instanceid, BYTE ipfamily)
- ULONG SLQSSetWdsTransferStatisticCallback (tFNSLQSWDSEvent pXferStatsCb, BYTE interval, BYTE instanceid, BYTE ipfamily)
- ULONG iSLQSSetWdsFirstInstEventCallback (tFNSLQSWDSEvent pCallback)
- ULONG iSLQSSetWdsSecondInstEventCallback (tFNSLQSWDSEvent pCallback)
- ULONG iSLQSSetWdsThirdInstEventCallback (tFNSLQSWDSEvent pCallback)
- ULONG iSLQSSetWdsXferStatsFirstInstCallback (tFNSLQSWDSEvent pCallback)
- ULONG iSLQSSetWdsXferStatsSecondInstCallback (tFNSLQSWDSEvent pCallback)
- ULONG SetPowerCallback (tFNPower pCallback)
- ULONG SetActivationStatusCallback (tFNActivationStatus pCallback)
- ULONG SetMobileIPStatusCallback (tFNMobileIPStatus pCallback)
- ULONG SetRoamingIndicatorCallback (tFNRoamingIndicator pCallback)
- ULONG SetDataCapabilitiesCallback (tFNDataCapabilities pCallback)
- ULONG SetSignalStrengthCallback (tFNSignalStrength pCallback, BYTE thresholdsSize, INT8 *pThresholds)
- ULONG iSetSignalStrengthCallback (tFNSignalStrength pCallback)
- ULONG SetRFInfoCallback (tFNRFInfo pCallback)
- ULONG SetLURejectCallback (tFNLUReject pCallback)
- ULONG SetNewSMSCallback (tFNNewSMS pCallback)
- ULONG SLQSSetSMSEventCallback (tFNSMSEvents pCallback)
- ULONG SetNMEACallback (tFNNewNMEA pCallback)
- ULONG SetPDSStateCallback (tFNPDSState pCallback)
- ULONG SetCATEventCallback (tFNCATEvent pCallback, ULONG eventMask, ULONG *pErrorMask)
- ULONG iSetCATEventCallback (tFNCATEvent pCallback)
- ULONG SetDeviceStateChangeCbk (tFNDeviceStateChange pCallback)

- ULONG SetNetChangeCbk (BYTE instance, tFNNet pCallback, ULONG loMark, ULONG hiMark, ULONG period)
- ULONG SetFwDldCompletionCbk (tFNFwDldCompletion pCallback)
- ULONG SetSLQSOMADMAlertCallback (tFNSLQSOMADMAlert pCallback)
- ULONG SetSLQSOMADMAlertCallbackExt (tFNSLQSOMADMAlert pCallback)
- ULONG SetOMADMStateCallback (tFNOMADMState pCallback)
- ULONG SLQSSetServingSystemCallback (tFNServingSystem pCallback)
- ULONG SLQSSetBandPreferenceCbk (tFNBandPreference pCallback)
- ULONG SetUSSDReleaseCallback (tFNUSSDRelease pCallback)
- ULONG SetUSSDNotificationCallback (tFNUSSDNotification pCallback)
- ULONG SLQSSetSignalStrengthsCallback (tFNSLQSSignalStrengths pCallback, struct SLQSSignalStrengthsIndReq *pSLQSSignalStrengthsIndReq)
- ULONG iSLQSSetSignalStrengthsCallback (tFNSLQSSignalStrengths pCallback)
- ULONG SLQSVoiceSetSUPSNotificationCallback (tFNSUPSNotification pCallback)
- ULONG SLQSSetSDKTerminatedCallback (tFNSDKTerminated pCallback)
- ULONG SLQSVoiceSetAllCallStatusCallBack (tFNAllCallStatus pCallback)
- ULONG SLQSSetTransLayerInfoCallback (tFNtransLayerInfo pCallback)
- ULONG SLQSSetTransNWRegInfoCallback (tFNtransNWRegInfo pCallback)
- ULONG SLQSSetSysSelectionPrefCallBack (tFNSysSelectionPref pCallback)
- ULONG SLQSUIMSetRefreshCallBack (tFNUIMRefresh pCallback)
- ULONG SLQSUIMSetStatusChangeCallBack (tFNUIMStatusChangeInfo pCallback)
- ULONG SLQSVoiceSetPrivacyChangeCallBack (tFNPrivacyChange pCallback)
- ULONG SLQSVoiceSetDTMFEventCallBack (tFNDTMFEvent pCallback)
- ULONG SLQSVoiceSetSUPSCallBack (tFNSUPSInfo pCallback)
- ULONG SLQSNasSysInfoCallBack (tFNSysInfo pCallback)
- ULONG SLQSNasNetworkTimeCallBack (tFNNetworkTime pCallback)
- ULONG SLQSWmsMemoryFullCallBack (tFNMemoryFull pCallback)
- ULONG SLQSVoiceSetOTASPStatusCallBack (tFNOTASPStatus pCallback)
- ULONG SLQSVoiceInfoRecCallback (tFNInfoRec pCallback)
- ULONG SLQSWmsMessageWaitingCallBack (tFNMessageWaiting pCallback)
- ULONG SLQSSetQosEventCallback (BYTE instance, tFNSLQSQOSEvent pCallback)
- ULONG SLQSSetQosStatusCallback (BYTE instance, tFNQosStatus pCallback)
- ULONG SLQSSetQosNWStatusCallback (tFNQosNWStatus pCallback)
- ULONG SLQSSetQosPriEventCallback (tFNQosPriEvent pCallback)
- ULONG SLQSNasSigInfoCallBack (tFNSigInfo pCallback, sigInfo *pSigInfo)
- ULONG SLQSSetModemTempCallback (tFNModemTempInfo pCallback)
- ULONG SLQSSetPacketSrvStatusCallback (tFNPacketSrvState pCallback)
- ULONG SLQSSetSwiHDRPersCallback (tFNHDRPersonaity pCallback)
- ULONG SLQSSetSIPConfigCallback (tFNImsSIPConfig pCallback)
- ULONG SLQSSetRegMgrConfigCallback (tFNImsRegMgrConfig pCallback)
- ULONG SLQSSetIMSSMSConfigCallback (tFNImsSMSConfig pCallback)
- ULONG SLQSSetIMSUserConfigCallback (tFNImsUserConfig pCallback)
- ULONG SLQSSetIMSVoIPConfigCallback (tFNImsVoIPConfig pCallback)
- ULONG SetUSSDNoWaitIndicationCallback (tFNUSSDNoWaitIndication pCallback)
- ULONG SLQSSetDUNCallInfoCallback (BYTE StatsPeriod, tFNDUNCallInfo pCallback)
- ULONG iSLQSSetDUNCallInfoCallback (tFNDUNCallInfo pCallback)
- ULONG SLQSSetDataSystemStatusCallback (tFNDataSysStatus pCallback)
- ULONG SLQSWmsAsyncRawSendCallBack (tFNAsyncRawSend pCallback)
- ULONG SLQSNasSwiOTAMessageCallback (NasSwiIndReg *req, tFNASwiOTAMsg pCallback)
- ULONG SetGPSCallback (tFNNewGPS pCallback)
- ULONG SetRMTransferStatisticsCallback (tFNNewRMTransferStatistics pCallback)
- ULONG SLQSSetDHCPv4ClientLeaseStatusCallback (BYTE instance, tFNDHCPv4ClientLeaseStatus pCallback)
- ULONG SetLocCradleMountCallback (tFNSetCradleMount pCallback)
- ULONG SetLocEventTimeSyncCallback (tFNSetEventTimeSync pCallback)

- ULONG SetLocInjectTimeCallback (tFNInjectTimeStatus pCallback)
- ULONG SetLocSensorStreamingCallback (tFNSensorStreaming pCallback)
- ULONG SetLocInjectSensorDataCallback (tFNInjectSensorData pCallback)
- ULONG SetLocEventPositionCallback (tFNEventPosition pCallback)
- ULONG SetLocOpModeCallback (tFNOpMode pCallback)
- ULONG SLQSSetIMSARegStatusCallback (tFNImsaRegStatus pCallback)
- ULONG SLQSSetIMSASvcStatusCallback (tFNImsaSvcStatus pCallback)
- ULONG SLQSSetIMSARatStatusCallback (tFNImsaRatStatus pCallback)
- ULONG SLQSSetIMSAPdpStatusCallback (tFNImsaPdpStatus pCallback)
- ULONG SLQSNasSigInfo2CallBack (tFNSigInfo pCallback, setSignalStrengthInfo *pSigInfo2)
- ULONG SetLocGnssSvInfoCallback (tFNGnssSvInfo pCallback)
- ULONG SetLocDeleteAssistDataCallback (tFNDelAssistData pCallback)
- ULONG SetNasLTECphyCaIndCallback (tFNASwiLTECphyCaInfo pCallback)
- ULONG SetRankIndicatorCallback (tFNRankIndicator pCallback)
- ULONG SLQSSetLocInjectUTCTimeCallback (tFNInjectUTCTime pCallback)
- ULONG SLQSSetLocInjectPositionCallback (tFNInjectPosition pCallback)
- ULONG SetUimSlotStatusChangeCallback (tFNCbkUimSlotStatusChangeInd pCallback)
- ULONG SetLocEngineStateCallback (tFNSetEngineState pCallback)
- ULONG SLQSSetSwiGetResetInfoCallback (tFNResetInfo pCallback)
- ULONG SLQSTmdMitigationLvlRptCallback (TmdMitigationLvlIndReq *req, tFNMitiLvlRpt pCallback)
- ULONG SetLocSetExtPowerConfigCallback (tFNSetExtPowerConfig pCallback)
- ULONG SetLocBestAvailPosCallback (tFNBestAvailPos pCallback)
- ULONG SLQSNasTimerCallback (tFNNasTimer pCallback)
- ULONG SLQSNasNetworkRejectCallback (tFNNetworkReject pCallback)
- ULONG SLQSSwiAVMSEventReportCallback (tFNSwiAvmEventReport pCallback)
- ULONG SetLocEventMaskNMEACallback (tFNEventNmea pCallback)
- ULONG SetLocGetServerCallback (LocGetServerReq *req, tFNGetServer pCallback)
- ULONG SetCfgParamChangeCallback (tFNPSMCfgParamChange pCallback)
- ULONG SetLocSetServerCallback (LocSetServerReq *req, tFNSetServer pCallback)

9.12.1 Detailed Description

Callback Service API function prototypes.

9.12.2 Macro Definition Documentation

9.12.2.1 #define CBK_DISABLE_EVENT 0x00

9.12.2.2 #define CBK_ENABLE_EVENT 0x01

9.12.2.3 #define CBK_NOCHANGE 0xFF

9.12.2.4 #define DEREGISTER_EVENT 0x00

9.12.2.5 #define DEREGISTER_SRV 0x00

9.12.2.6 #define DHCP_MAX_NUM_OPTIONS 30

9.12.2.7 #define DHCP_OPTION_DATA_BUF_SIZE 2048 /* current max size of raw message in SDK process is 2048 */

9.12.2.8 #define EVENT_MASK_CARD 0x00000001

9.12.2.9 #define EVENT_MASK_DEREGISTER_ALL 0x00000000

9.12.2.10 #define EVENT_MASK_PHY_SLOT_STATUS 0x00000010

9.12.2.11 #define FIRST_INSTANCE 0x00

9.12.2.12 #define INVALID_INSTACNE 0x08

9.12.2.13 #define IPV4 4

9.12.2.14 #define IPV4V6 7

9.12.2.15 #define IPV6 6

9.12.2.16 #define LOC_EVENT_MASK_ENG_STATE 0x00000080

9.12.2.17 #define LOC_EVENT_MASK_GNSS_SV_INFO 0x00000002

9.12.2.18 #define LOC_EVENT_MASK_INJECT_TIME 0x00000010

9.12.2.19 #define LOC_EVENT_MASK_NMEA 0x00000004

9.12.2.20 #define LOC_EVENT_MASK_SENSOR_STREAM 0x00000400

9.12.2.21 #define LOC_EVENT_MASK_TIME_SYNC 0x00000800

9.12.2.22 #define LOC_EVENT_POSITION_REPORT 0x00000001

9.12.2.23 #define MAX_MITIGATION_DEV_ID_LEN 255

9.12.2.24 #define MAX_NMEA_STR_LEN 201

9.12.2.25 #define MAX_NO_OF_APPLICATIONS 10

9.12.2.26 #define MAX_NO_OF_CALLS 20

9.12.2.27 #define MAX_NO_OF_FILES 255

9.12.2.28 #define MAX_NO_OF_SLOTS 5

9.12.2.29 #define MAX_NO_OF_UUSINFO 20

9.12.2.30 #define MAX_PATH_LENGTH 255

9.12.2.31 #define MAX_RADIO_INTERFACE_LIST 255

9.12.2.32 #define MAX_URL_ADDR_STR_LEN 256

9.12.2.33 #define MAXUSSDLENGTH 182

9.12.2.34 #define NAS_SRV 0x02

9.12.2.35 #define NUM_OF_SET 0xFF

9.12.2.36 #define PDS_SRV 0x04

9.12.2.37 #define QMI_ETWS_MAX_PAYLOAD_LENGTH 1254 /* Qualcomm defined max */

9.12.2.38 #define QMI_MAX_VOICE_NUMBER_LENGTH 81

9.12.2.39 #define QMI_WMS_MAX_PAYLOAD_LENGTH 256

9.12.2.40 #define REGISTER_EVENT 0x01

9.12.2.41 #define REGISTER_SRV 0x01

9.12.2.42 #define SECOND_INSTANCE 0x01

9.12.2.43 #define SIGSTRENGTH_THRESHOLD_ARR_SZ 5

9.12.2.44 #define THIRD_INSTANCE 0x02

9.12.2.45 #define USSD_DCS_8BIT 0x02 /∗ 8-bit coding scheme ∗/

9.12.2.46 #define USSD_DCS_ASCII 0x01 /∗ ASCII coding scheme ∗/

9.12.2.47 #define USSD_DCS_UCS2 0x03 /∗ UCS2 coding scheme ∗/

9.12.2.48 #define VOICE_SRV 0x08

9.12.2.49 #define WDS_SRV 0x01

9.12.3 Typedef Documentation

9.12.3.1 typedef struct accelAcceptReady_s accelAcceptReady

This structure contains Accelerometer Accept Ready Info

Parameters

injectEnable	• GNSS location engine is ready to accept data from sensor. • Values • 0x01 - Ready to accept sensor data • 0x00 - Not ready to accept sensor data
samplesPer-Batch	• number of samples per batch the GNSS location engine is to receive. • samplingFrequency = samplesPerBatch ∗ batchesPerSecond • samplesPerBatch must be a nonzero positive value.
batchPerSec	• LTE NAS version minor • Number of sensor-data batches the GNSS location engine is to receive per second. • BatchesPerSecond must be a nonzero positive value.

9.12.3.2 typedef struct accelTempAcceptReady_s accelTempAcceptReady

This structure contains Accelerometer Temperature Accept Ready Info

Parameters

injectEnable	• GNSS location engine is ready to accept data from sensor. • Values • 0x01 - Ready to accept sensor data • 0x00 - Not ready to accept sensor data
samplesPer-Batch	• number of samples per batch the GNSS location engine is to receive. • samplingFrequency = samplesPerBatch ∗ batchesPerSecond • samplesPerBatch must be a nonzero positive value.
batchPerSec	• LTE NAS version minor • Number of sensor-data batches the GNSS location engine is to receive per second. • BatchesPerSecond must be a nonzero positive value.

9.12.3.3 typedef enum device_state_enum eDevState

Device State enumeration

- See device_state_enum for more details

9.12.3.4 typedef enum SMSEventType eSMSEventType

This enumeration defines the different type of SMS events that are received

- See SMSEventType for more details

9.12.3.5 typedef struct gpsTime_s gpsTime

This structure contains GPS Time info.

Parameters

gpsWeek	• Current GPS week as calculated from midnight, Jan. 6, 1980. • Units - Weeks
gpsTimeOf-WeekMs	• Amount of time into the current GPS week. • Units - Milliseconds

9.12.3.6 typedef struct gyroAcceptReady_s gyroAcceptReady

This structure contains Gyroscope Accept Ready Info

Parameters

injectEnable	• GNSS location engine is ready to accept data from sensor. • Values • 0x01 - Ready to accept sensor data • 0x00 - Not ready to accept sensor data
samplesPer-Batch	• number of samples per batch the GNSS location engine is to receive. • samplingFrequency = samplesPerBatch ∗ batchesPerSecond • samplesPerBatch must be a nonzero positive value.
batchPerSec	• LTE NAS version minor • Number of sensor-data batches the GNSS location engine is to receive per second. • BatchesPerSecond must be a nonzero positive value.

9.12.3.7 typedef struct gyroTempAcceptReady_s gyroTempAcceptReady

This structure contains Gyroscope Temperature Accept Ready Info

Parameters

injectEnable	• GNSS location engine is ready to accept data from sensor. • Values • 0x01 - Ready to accept sensor data • 0x00 - Not ready to accept sensor data
samplesPer-Batch	• number of samples per batch the GNSS location engine is to receive. • samplingFrequency = samplesPerBatch ∗ batchesPerSecond • samplesPerBatch must be a nonzero positive value.
batchPerSec	• LTE NAS version minor • Number of sensor-data batches the GNSS location engine is to receive per second. • BatchesPerSecond must be a nonzero positive value.

9.12.3.8 typedef struct LteNasReleaseInfo_s LteNasReleaseInfo

This structure contains LTE Nas Release Infomation

Parameters

nas_release	• LTE NAS release
nas_major	• LTE NAS version major

nas_minor	• LTE NAS version minor

9.12.3.9 typedef struct _modemTempNotification modemTempNotification

Contains the parameters passed for SLQSSetModemTempCallback by the device.

Parameters

ModemTemp-State	• provides the temperature state of the modem • Values: – 0 - unknown – 1 - normal – 2 - high(warning) – 3 - high(critical) – 4 - low(critical)
Modem-Temperature	• provides the temperature of the modem

Note

None

9.12.3.10 typedef struct _packetSrvStatus packetSrvStatus

Contains the parameters passed for SLQSSetPacketSrvStatusCallback by the device.

Parameters

pQmiInterface-Info	• See qaQmiInterfaceInfo for more information
connStatus	• Current Link Status – 1 - Disconnected – 2 - Connected – 3 - Suspended – 4 - Authenticating
reconfigReqd	• Indicates if the network interface on the host needs to be reconfigured – 0 - No need to reconfigure – 1 - Reconfiguration required
sessionEnd-Reason	• See qaGobiApiTableCallEndReasons.h for Call End Reason, 0xFFFF means invalid value

verboseSessnEndReasonType	• Call End Reason Type – 0 - Unspecified – 1 - Mobile IP – 2 - Internal – 3 - Call Manager defined – 6 - 3GPP Specification defined – 7 - PPP – 8 - EHRPD – 9 - IPv6 – 0xFFFF - invalid value
verboseSessnEndReason	• See qaGobiApiTableCallEndReasons.h for verbose Call End Reason. The values depend on verboseSessnEndReasonType parameter 0xFFFF means invalid value
ipFamily	• IP Family of the packet data connection – 4 - IPv4 – 6 - IPv6 – 0xFF - invalid value
techName	• Technology name of the packet data connection. – 32767 - CDMA – 32764 - UMTS – 30592 - EPC – 30590 - EMBMS – 30584 - Modem Link Local – 0xFFFF - invalid value EPC is a logical interface to support LTE/eHRPD handoff. Modem Link is an interface for transferring data between entities on the AP and modem.
bearerID	• Bearer ID (3GPP) or RLP ID (3GPP2) of the packet data connection 0xFF means invalid value

Note

Any parameter not returned by the device is returned as its maximum unsigned value by the callback.

9.12.3.11 typedef struct precisionDilution_s precisionDilution

This structure contains Dilution of precision associated with this position.

Parameters

PDOP	• Position dilution of precision. • Range - 1 (highest accuracy) to 50 (lowest accuracy) • PDOP = square root of (Square of HDOP + Square of VDOP2)

HDOP	• Horizontal dilution of precision. • Range - 1 (highest accuracy) to 50 (lowest accuracy)
VDOP	• Vertical dilution of precision. • Range- 1 (highest accuracy) to 50 (lowest accuracy)

9.12.3.12 typedef struct _getResetInfoNotification ResetInfoNotification

Contains the parameters passed for SLQSSetSwiGetResetInfoCallback by the device.

Parameters

type	• type of reset or power down, possible values listed below: – 0 - unknown – 1 - warm – 2 - hard – 3 - crash – 4 - power down
source	• entity which initiated the reset or power down, possible values listed below: – 0 - unknown – 1 - user requested – 2 - hardware switch – 3 - temperature critical – 4 - voltage critical – 5 - configuration update – 6 - LWM2M – 7 - OMA-DM – 8 - FOTA

Note

None

9.12.3.13 typedef struct sensorDataUsage_s sensorDataUsage

This structure contains Sensor Data Usage info.

Parameters

usageMask	• Specifies which sensors were used in calculating the position in the position report.

- Value

  - 0x00000001 - Accelerometer used
  - 0x00000002 - Gyroscope used

Parameters

aidingIndicator-Mask	

  - Specifies which results were aided by sensors.

- Value
  - 0x00000001 - AIDED_HEADING
  - 0x00000002 - AIDED_SPEED
  - 0x00000004 - AIDED_POSITION
  - 0x00000008 - AIDED_VELOCITY

9.12.3.14 typedef union sessionInfo sessionInformation

This union sessionInfo consist of omaDmFotaTlv, omaDmConfigTlv and omaDmNotificationsTlv, out of which one will be unpacked against pEventFields.

9.12.3.15 typedef union sessionInfoExt sessionInformationExt

This union sessionInfo consist of omaDmFotaTlv and omaDmConfigTlv, out of which one will be unpacked against pEventFields.

9.12.3.16 typedef struct SMSAsyncRawSend_s SMSAsyncRawSend

This structure contains SMS parameters

Parameters

sendStatus	• Send Status • Values: – QMI_ERR_NONE – No error in the request – QMI_ERR_CAUSE_CODE - SMS cause code – QMI_ERR_MESSAGE_DELIVERY_FAILURE - Message could not be delivered – QMI_ERR_NO_MEMORY - Device could not allocate memory to formulate a response
messageID	• Unique ID assigned by WMS for non-retry messages.
causeCode	• WMS cause code
errorClass	• Error Class • Values: – 0x00 - ERROR_CLASS_TEMPORARY – 0x01 - ERROR_CLASS_PERMANENT

RPCause	• GW RP cause
TPCause	• GW TP Cause
msgDelFailure-Type	• Message delivery failure type • Values: – 0x00 - WMS_MESSAGE_DELIVERY_FAILURE_TEMPORARY – 0x01 - WMS_MESSAGE_DELIVERY_FAILURE_PERMANENT
msgDelFailure-Cause	• Message delivery failure cause • Values: – 0x00 - WMS_MESSAGE_BLOCKED_DUE_TO_CALL_CONTROL
alphaIDLen	• Number of sets of the pAlphaID
pAlphaID	• Alpha ID
userData	• Identifies the request associated with this indication.

9.12.3.17 typedef struct SMSCAddress SMSCAddressInfo

This structure holds SMSC information

Parameters

length	• Number of sets of following element
data	• SMSC address

9.12.3.18 typedef struct SMSEtwsMessage SMSEtwsMessageInfo

This structure holds information related earthquake and Tsunami warning system

Parameters

notificationType	• Message mode 0x00 - Primary 0x01 - Secondary GSM 0x02 - Secondary UMTS
length	• Number of sets of following elements

data	• Raw message data

9.12.3.19 typedef struct SMSEtwsPlmn SMSEtwsPlmnInfo

This structure holds information related ETWS PLMN

Parameters

mobileCountry-Code	• 16 bit representation of MCC value range : 0 -999
mobileNetwork-Code	• 16 bit representation of MNC value range : 0 -999

9.12.3.20 typedef struct SMSEventInfo_s SMSEventInfo

This structure will hold the information related to received SMS events

Parameters

smsEventType	• Type of the SMS events that are received. This is a bit map of SMSEventType. Only the parameters (which follows) related to the events received would be filled, and the rest of the parameters would be NULL
pMTMessage-Info	• pointer to the SMSMTMessageInfo structure NULL, if this event is not present in the smsEventType parameter
pTransferRoute-MTMessageInfo	• pointer to the SMSTransferRouteMTMessageInfo structure . NULL, if this event is not present in the smsEventType parameter
pMessageMode-Info	• pointer to the SMSMessageModeInfo structure NULL, if this event is not present in the smsEventType parameter
pEtwsMessage-Info	• pointer to the SMSEtwsMessageInfo structure NULL, if this event is not present in the smsEventType parameter
pEtwsPlmnInfo	• pointer to the SMSEtwsPlmnInfo structure NULL, if this event is not present in the smsEventType parameter
pSMSCAddress-Info	• pointer to the SMSCAddressInfo structure NULL, if this event is not present in the smsEventType parameter

pSMSOnIMSInfo	• pointer to the SMSOnIMSInfo structure NULL, if this event is not present in the smsEventType parameter Note: None

9.12.3.21 typedef struct SMSMessageMode SMSMessageModeInfo

This structure holds information related to message mode

Parameters

messageMode	• Message mode 0x00 - CDMA 0x01 - GW

9.12.3.22 typedef struct SMSMTMessage SMSMTMessageInfo

This structure holds information related to MT SMS

Parameters

storageType	• SMS message storage type for the new message 0 - UIM 1 - NV
messageIndex	• Index of the new message

9.12.3.23 typedef struct SMSOnIMS SMSOnIMSInfo

This structure holds information related to message mode

Parameters

smsOnIMS	• Indicates whether the message is received from IMS 0x00 - Message is not received from IMS 0x01 - Message is received from IMS 0x02-0xFF - Reserved Note: In multiple modem solutions, this TLV may be used to help the client determine with which modem to communicate. This TLV may not be supported on all implementations.

9.12.3.24 typedef struct SMSTransferRouteMTMessage SMSTransferRouteMTMessageInfo

This structure holds information related to transfer route MT SMS

Parameters

ackIndicator	• Parameter to indicate if ACK must be sent by the control point 0x00 - Send ACK 0x01 - Do not send ACK

transactionID	• Transaction ID of the message
format	• Message format 0x00 - CDMA 0x02 - 0x05 - Reserved 0x06 - GW_PP 0x07 - GW_BC
length	• Length of the raw message. This length should not exceed the maximum WMS payload length of 256 bytes
data	• Raw message data

9.12.3.25 typedef struct svUsedforFix_s svUsedforFix

This structure contains SVs Used to Calculate the Fix.

Parameters

gnssSvUsedList-_len	• Number of sets of gnssSvUsedList
pGnssSvUsed-List	• Entry in the list contains the SV ID of a satellite used for calculating this position report. • Following information is associated with each SV ID: – GPS - 1 to 32 – SBAS - 33 to 64 – GLONASS - 65 to 96 – QZSS - 193 to 197 – BDS - 201 to 237

9.12.3.26 typedef struct _SwiAvmsEventInd SwiAvmsEventInd

9.12.3.27 typedef struct SwiOTAMsg_s SwiOTAMsg

This structure contains OTA message

Parameters

type	• message type – 0 - LTE ESM uplink – 1 - LTE ESM downlink – 2 - LTE EMM uplink – 3 - LTE EMM downlink – 4 - GSM/UMTS uplink – 5 - GSM/UMTS downlink
data_len	• OTA Message Content Length

data	• OTA Message Content
pLteNasRelInfo	• LTE NAS Release Info • see LteNasReleaseInfo for details
pTime	• Seconds in local time since Jan. 6th 1980 00:00:00 UTC

9.12.3.28 typedef void(∗ tFNActivationStatus)(ULONG activationStatus)

Activation status callback function.

Parameters

activationStatus	• Service Activation Code – 0 - Service not activated – 1 - Service activated – 2 - Activation connecting – 3 - Activation connected – 4 - OTASP security authenticated – 5 - OTASP NAM downloaded – 6 - OTASP MDN downloaded – 7 - OTASP IMSI downloaded – 8 - OTASP PRL downloaded – 9 - OTASP SPC downloaded – 10 - OTASP settings committed

9.12.3.29 typedef void(∗ tFNAllCallStatus)(voiceSetAllCallStatusCbkInfo ∗pVoiceSetAllCallStatusCbkInfo)

Voice Call Status Callback function. This function pointer will be executed to process received Indication.

Parameters

pVoiceSetAll-CallStatusCbk-Info	• Call back will populated memory pointed by this parameter when a call is originated, connected, or ended. See voiceSetAllCallStatusCbkInfo for more information.

9.12.3.30 typedef void(∗ tFNASwiLTECphyCaInfo)(QmiCbkNasLTECphyCaInfo ∗pQmiCbkNasLTECphyCaInfo)

LTE CPHY CA message callback function.

Parameters

pQmiCbkNasLTECphyCaInfo[OUT]	• Events related to NAS, see QmiCbkNasLTECphyCaInfo for details.

9.12.3.31 typedef void(∗ tFNASwiOTAMsg)(SwiOTAMsg ∗pSwiOTAMsg)

OTA message callback function.

Parameters

pSwiOTAMsg[OUT]	• Events related to NAS, see SwiOTAMsg for details

9.12.3.32 typedef void(∗ tFNAsyncRawSend)(SMSAsyncRawSend ∗pSMSAsyncRawSend)

SMS event related callback function.

Parameters

pSMSEventInfo[OUT]	• Events related to SMS, see SMSEventInfo for details

9.12.3.33 typedef void(∗ tFNBandPreference)(ULONGLONG band_pref)

Band Preference Callback function

Parameters

pBandPref	- Bit mask representing the current band preference Bit position meanings: • 0 - BC0_A - Band Class 0, A-System • 1 - BC0_B - Band Class 0, B-System, Band Class 0 AB , GSM 850 Band • 2 - BC1 - Band Class 1, all blocks • 3 - BC2 - Band Class 2 place holder • 4 - BC3 - Band Class 3, A-System • 5 - BC4 - Band Class 4, all blocks • 6 - BC5 - Band Class 5, all blocks • 7 - GSM_DCS_1800 - GSM DCS band • 8 - GSM_EGSM_900 - GSM Extended GSM (E-GSM) band • 9 - GSM_PGSM_900 - GSM Primary GSM (P-GSM) band • 10 - BC6 - Band Class 6 • 11 - BC7 - Band Class 7 • 12 - BC8 - Band Class 8 • 13 - BC9 - Band Class 9 • 14 - BC10 - Band Class 10 • 15 - BC11 - Band Class 11 • 16 - GSM_450 - GSM 450 band • 17 - GSM_480 - GSM 480 band • 18 - GSM_750 - GSM 750 band • 19 - GSM_850 - GSM 850 band • 20 - GSM_RGSM_900 - GSM Railways GSM Band • 21 - GSM_PCS_1900 - GSM PCS band • 22 - WCDMA_I_IMT_2000 - WCDMA EUROPE JAPAN and CHINA IMT 2100 band • 23 - WCDMA_II_PCS_1900 - WCDMA US PCS 1900 band • 24 - WCDMA_III_1700 - WCDMA EUROPE and CHINA DCS 1800 band • 25 - WCDMA_IV_1700 - WCDMA US 1700 band • 26 - WCDMA_V_850 - WCDMA US 850 band • 27 - WCDMA_VI_800 - WCDMA JAPAN 800 band • 28 - BC12 - Band Class 12 • 29 - BC14 - Band Class 14 • 30 - RESERVED_2 - Reserved 2 • 31 - BC15 - Band Class 15 • 32 - 47 - Reserved • 48 - WCDMA_VII_2600 - WCDMA EUROPE 2600 band • 49 - WCDMA_VIII_900 - WCDMA EUROPE and JAPAN 900 band • 50 - WCDMA_IX_1700 - WCDMA JAPAN 1700 band • 51 to 55 - Reserved • 56 - BBC16 - Band Class 16 • 57 - BC17 - Band Class 17 • 58 - BC18 - Band Class 18 • 59 - BC19 - Band Class 19 • 60 to 64 - Reserved

Note

Timeout: NA To set the band preference the API SLQSSetBandPreference() should be used

9.12.3.34 typedef void(∗ tFNBestAvailPos)(QmiCbkLocBestAvailPosInd ∗pBestAvailPos)

Best available position callback function.

Parameters

pBestAvailPos[-OUT]	• Events related to LOC, see QmiCbkLocBestAvailPosInd for details

9.12.3.35 typedef void(∗ tFNCATEvent)(ULONG eventID, ULONG eventLen, BYTE ∗pEventData)

CAT event callback function.

Parameters

eventID	• Event ID – 16 - Display Text – 17 - Get In-Key – 18 - Get Input – 19 - Setup Menu – 20 - Select Item – 21 - Send SMS - Alpha Identifier – 22 - Setup Event List – 23 - Setup Idle Mode Text – 24 - Language Notification – 25 - Refresh – 26 - End Proactive Session
eventLen	• Length of pData (in bytes)
pEventData	• Data specific to the CAT event ID See currentCatEvent for details

Note

Technology Supported: UMTS

9.12.3.36 typedef void(∗ tFNCbkUimSlotStatusChangeInd)(UIMSlotStatusChangeInfo ∗pQmiCbkUimSlotStatusChangeInd)

Slot Status Change Notification callback.

Parameters

pQmiCbkUim-SlotStatus-ChangeInd	• See UIMSlotStatusChangeInfo for more information.

9.12.3.37 typedef void(∗ tFNDataCapabilities)(BYTE dataCapsSize, BYTE ∗pDataCaps)

Serving system data capabilities callback function.

Parameters

dataCapsSize	• Number of elements the data capability array contains
pDataCaps	• Data Capabilities Array. – 1 - GPRS – 2 - EDGE – 3 - HSDPA – 4 - HSUPA – 5 - WCDMA – 6 - CDMA 1xRTT – 7 - CDMA 1xEV-DO Rev 0 – 8 - CDMA 1xEV-DO Rev. A – 9 - GSM – 10 - EVDO Rev. B – 11 - LTE – 12 - HSDPA Plus – 13 - Dual Carrier HSDPA Plus

9.12.3.38 typedef void(∗ tFNDataSysStatus)(CurrDataSysStat ∗pCurrDataSysStat)

Data System Status callback.

Parameters

pCurrDataSys-Stat	• See CurrDataSysStat for more information.

9.12.3.39 typedef void(∗ tFNDelAssistData)(delAssistDataStatus ∗pAssistDataNotification)

Delete Assist Data Notification callback.

Parameters

pAssistData-Notification	• See delAssistDataStatus for more information.

9.12.3.40 typedef void(∗ tFNDeviceStateChange)(eDevState device_state)

Device State Change callback function prototype

Parameters

device_state	• the current state of the device

Note

Does not require communication with the device

9.12.3.41 typedef void(∗ tFNDHCPv4ClientLeaseStatus)(BYTE instance, WdsDHCPv4ClientLeaseInd ∗pMsg)

DHCPv4 client lease status message callback function.

Parameters

pMsg[OUT]	• Events related to DHCPv4 client lease, see WdsDHCPv4ClientLeaseInd for details

9.12.3.42 typedef void(∗ tFNDTMFEvent)(voiceDTMFEventInfo ∗pVoiceDTMFEventInfo)

Preferred DTMF event indication callback.

Parameters

pVoiceDTMF-EventInfo	• See voiceDTMFEventInfo for more information.

9.12.3.43 typedef void(∗ tFNDUNCallInfo)(DUNCallInfoInd ∗pDUNCallInfo)

DUN Call Info indication callback.

Parameters

pDUNCallInfo	• See DUNCallInfoInd for more information.

9.12.3.44 typedef void(∗ tFNEventNmea)(QmiCbkLocEventNMEAInd ∗pNMEAEventData)

Get LOC NMEA Event Data callback.

Parameters

pNMEAEvent-Data	• See QmiCbkLocEventNMEAInd for more information.

9.12.3.45 typedef void(∗ tFNEventPosition)(QmiCbkLocPositionReportInd ∗pLocPositionReport)

Position report callback function.

Parameters

pLocPosition-Report[OUT]	• Events related to LOC, see QmiCbkLocPositionReportInd for details

9.12.3.46 typedef void(∗ tFNFwDldCompletion)(ULONG fwdld_completion_status)

Firmware Download Completion callback function prototype

Parameters

error_code	• error code returned from firmware download operation, the possible return values are listed below: – eQCWWAN_ERR_NONE - indicates firmware download/switching is successful – eQCWWAN_ERR_SWIIM_FIRMWARE_NOT_DOWNLOADED - indicates no actual download takes place, this is the case of image switching stored on device – eQCWWAN_ERR_SWIIM_FW_ENTER_DOWNLOAD_MODE - indicates modem enters firmware download mode, firmware flashing is going to be started. – eQCWWAN_ERR_SWIIM_FW_FLASH_COMPLETE - indicates firmware flashing was complete, SDK is waiting for modem to reboot (can be more than one time), when modem is ready, SDK will send eQCWWAN_ERR_NONE to the host application.

Note

Does not require communication with the device

9.12.3.47 typedef void(∗ tFNGetServer)(QmiCbkLocGetServerInd ∗pGetLocServerInfo)

Get LOC Server Indication callback.

Parameters

pGetLocServer-Info	• See QmiCbkLocGetServerInd for more information.

9.12.3.48 typedef void(∗ tFNGnssSvInfo)(gnssSvInfoNotification ∗pGnssSvInfoNotification)

GNSS SVN Information Notification callback.

Parameters

pGnssSvInfo-Notification	• See gnssSvInfoNotification for more information.

9.12.3.49 typedef void(∗ tFNHDRPersonaity)(HDRPersonalityInd ∗pHDRPers)

HDR Personality indication callback.

Parameters

pHDRPers	• See HDRPersonalityInd for more information.

Note

Technology Supported: CDMA

9.12.3.50 typedef void(∗ tFNImsaPdpStatus)(imsaPdpStatusInfo ∗pImsaPdpStatusInfo)

IMSA PDP status indication callback.

Parameters

pImsaPdp-StatusInfo	• See imsaPdpStatusInfo for more information.

9.12.3.51 typedef void(∗ tFNImsaRatStatus)(imsaRatStatusInfo ∗pImsaRatStatusInfo)

IMSA RAT handover status indication callback.

Parameters

pImsaRatStatus-Info	• See imsaRatStatusInfo for more information.

9.12.3.52 typedef void(∗ tFNImsaRegStatus)(imsaRegStatusInfo ∗pImsaRegStatusInfo)

IMSA Registration Status indication callback.

Parameters

pImsaReg-StatusInfo	• See imsaRegStatusInfo for more information.

9.12.3.53 typedef void(∗ tFNImsaSvcStatus)(imsaSvcStatusInfo ∗pImsaSvcStatusInfo)

IMSA Service Status indication callback.

Parameters

pImsaSvcStatus-Info	• See imsaSvcStatusInfo for more information.

9.12.3.54 typedef void(* tFNImsRegMgrConfig)(imsRegMgrConfigInfo *pImsRegMgrConfigInfo)

IMS Reg Mgr Config indication callback.

Parameters

pImsRegMgrConfigInfo	• See imsRegMgrConfigInfo for more information.

9.12.3.55 typedef void(* tFNImsSIPConfig)(imsSIPConfigInfo *pImsSIPConfigInfo)

IMS SIP Config indication callback.

Parameters

pImsSIPConfigInfo	• See imsSIPConfigInfo for more information.

9.12.3.56 typedef void(* tFNImsSMSConfig)(imsSMSConfigInfo *pImsSMSConfigInfo)

IMS SMS Config indication callback.

Parameters

pImsSMSConfigInfo	• See imsSMSConfigInfo for more information.

9.12.3.57 typedef void(* tFNImsUserConfig)(imsUserConfigInfo *pImsUserConfigInfo)

IMS User Config indication callback.

Parameters

pImsUserConfigInfo	• See imsUserConfigInfo for more information.

9.12.3.58 typedef void(* tFNImsVoIPConfig)(imsVoIPConfigInfo *pImsVoIPConfigInfo)

IMS VoIP Config indication callback.

Parameters

pImsVoIPConfigInfo	• See imsVoIPConfigInfo for more information.

9.12.3.59 typedef void(∗ tFNInfoRec)(voiceInfoRec ∗pVoiceInfoRec)

Voice Information Record callback.

Parameters

pVoiceInfoRec	• See voiceInfoRec for more information.

Note

Technology Supported: CDMA
Device Supported: MC7750

9.12.3.60 typedef void(∗ tFNInjectPosition)(QmiCbkLocInjectPositionInd ∗pInjectPositionNotification)

Inject Position Notification callback.

Parameters

pInjectPosition-Notification	• See QmiCbkLocInjectPositionInd for more information.

9.12.3.61 typedef void(∗ tFNInjectSensorData)(QmiCbkLocInjectSensorDataInd ∗pLocInjectSensorData)

LOC Inject Sensor Data indication callback.

Parameters

pLocInject-SensorData	• See QmiCbkLocInjectSensorDataInd for more information.

9.12.3.62 typedef void(∗ tFNInjectTimeStatus)(QmiCbkLocInjectTimeInd ∗pLocInjectTime)

LOC Inject time status indication callback.

Parameters

pLocInjectTime	• See QmiCbkLocInjectTimeInd for more information.

9.12.3.63 typedef void(∗ tFNInjectUTCTime)(QmiCbkLocInjectUTCTimeInd ∗pInjectUTCTimeNotification)

Inject UTC Time Notification callback.

Parameters

pInjectUTCTime-Notification	• See QmiCbkLocInjectUTCTimeInd for more information.

9.12.3.64 typedef void(∗ tFNLUReject)(ULONG serviceDomain, ULONG rejectCause)

LU reject callback function.

Parameters

serviceDomain	• Service domain – 1 - Circuit Switched – 2 - Packet Switched – 3 - Circuit and Packet Switched

rejectCause	• Reject cause • Valid Values – 2 - IMSI unknown in HLR – 3 - Illegal MS – 4 - IMSI unknown in VLR – 5 - IMEI not accepted – 6 - Illegal ME – 7 - EPS services not allowed – 8 - EPS services and non-EPS services not allowed – 9 - UE identity cannot be derived by the network – 10 - Implicitly detached – 11 - PLMN not allowed – 12 - Location Area not allowed – 13 - Roaming not allowed in this location area – 14 - EPS services not allowed in this PLMN – 15 - No Suitable Cells In Location Area – 16 - MSC temporarily not reachable – 17 - Network failure – 18 - CS domain not available – 19 - ESM failure – 20 - MAC failure – 21 - Synch failure – 22 - Congestion – 23 - GSM authentication unacceptable – 24 - Security mode rejected, unspecified – 25 - Not authorized for this CSG – 26 - Non-EPS authentication unacceptable – 32 - Service option not supported – 33 - Requested service option not subscribed – 34 - Service option temporarily out of order – 38 - Call cannot be identified – 48 to 63 - retry upon entry into a new cell – 95 - Semantically incorrect message – 96 - Invalid mandatory information – 97 - Message type non-existent or not implemented – 98 - Message type not compatible with the protocol state – 99 - Information element non-existent or not implemented – 100 - Conditional IE error – 101 - Message not compatible with the protocol state – 111 - Protocol error, unspecified – Note - Any other value received by the mobile station shall be treated as 34, 'Service option temporarily out of order'. * Any other value received by the network shall be treated as 111, 'Protocol error, unspecified'. See 3GPP TS 24.008, Section 4.4.4.7 and Section 10.5.3.6 See qaGobiApiTableCallEndReasons.h for Call End reasons

Note

Technology Supported: UMTS

9.12.3.65 typedef void(∗ tFNMemoryFull)(SMSMemoryInfo ∗pSMSMemoryFullInfo)

SMS Memory related callback function.

Parameters

pSMSMemoryFullInfo[OUT]	• pointer to SMSMemoryInfo. • see SMSMemoryInfo for details.

9.12.3.66 typedef void(∗ tFNMessageWaiting)(msgWaitingInfo ∗pSMSMessageWaitingInfo)

SMS Memory related callback function.

Parameters

pSMSMessageWaitingInfo[OUT]	• pointer to msgWaitingInfo. • see msgWaitingInfo for details.

9.12.3.67 typedef void(∗ tFNMitiLvlRpt)(QmiCbkTmdMitiLvlRptInd ∗pSetLocCradleMount)

Set Loc cradle mount Indication callback.

Parameters

pSetLocCradleMount	• See QmiCbkTmdMitiLvlRptInd for more information.

9.12.3.68 typedef void(∗ tFNMobileIPStatus)(ULONG mipStatus)

Mobile IP status callback function.

Parameters

mipStatus	• Mobile IP Status – 0 - success – All others error codes as defined in RFC 2002 See qaGobiApiTableCallEndReasons.h for mobile IP error codes

9.12.3.69 typedef void(∗ tFNModemTempInfo)(modemTempNotification ∗pModemTempNotification)

Modem Temperature Information callback.

Parameters

pModemTemp-Notification	• See modemTempNotification for more information.

9.12.3.70 typedef void(∗ tFNNasTimer)(nasTimers ∗timers)

Network timer Indication callback.

Parameters

timers	• See nasTimers for more information.

9.12.3.71 typedef void(∗ tFNNet)(ULONG q_depth, BYTE isThrottle, BYTE instanceId)

Transmit Queue Length Change callback function prototype

Parameters

q_depth	• transmit queue length
isThrottle	• 0: unthrottle • 1: throttle
instanceId	• qmi instance id

Note

Does not require communication with the device

9.12.3.72 typedef void(∗ tFNNetworkReject)(nasNetworkReject ∗pNetworkReject)

Network Reject Cause callback.

Parameters

pNasNetwork-Time	• See nasNetworkTime for more information.

9.12.3.73 typedef void(∗ tFNNetworkTime)(nasNetworkTime ∗pNasNetworkTime)

Network Time indication callback.

Parameters

pNasNetwork-Time	• See nasNetworkTime for more information.

9.12.3.74 typedef void(∗ tFNNewGPS)(double dLongitude, double dLatitude, BYTE session_status, ULONG pos_src)

Set Current Location Data.

Parameters

dLongitude[IN]	• Current Longitude Value
dLatitude[IN]	• Current Latitude Value
session_status[IN]	• Session Status – 0 - Success – 1 - In progress – 2 - General failure – 3 - Timeout – 4 - User ended the session – 5 - Bad parameter – 6 - Phone is offline – 7 - Engine is locked – 8 - E911 session in progress
pos_src[IN]	• position source • Bitmasks – 0x01 - GPS – 0x02 - Cell ID – 0x04 - GLONASS – 0x08 - Network – 0x10 - External positino injection – Others - unknown

9.12.3.75 typedef void(∗ tFNNewNMEA)(LPCSTR pNMEA)

New NMEA sentence callback function.

Parameters

pNMEA	• NULL-terminated string containing the position data in NMEA sentence format

9.12.3.76 typedef void(∗ tFNNewRMTransferStatistics)(QmiCbkWdsStatisticsIndState ∗pMsg)

PDS session state callback function.

Parameters

enabledStatus	• GPS enabled status – 0 - Disable – 1 - Enable
trackingStatus	• GPS tracking status – 0 - Unknown – 1 - Inactive – 2 - Active RM Transfer Statistics message callback function.
pMsg[OUT]	• Events related to NAS, see QmiCbkWdsStatisticsIndState for details

9.12.3.77 typedef void(∗ tFNNewSMS)(ULONG storageType, ULONG messageIndex)

New SMS message callback function.

Parameters

storageType	• SMS message storage type for the new message 0 - UIM 1 - NV
messageIndex	• Index of the new message

9.12.3.78 typedef void(∗ tFNOMADMState)(ULONG sessionState, ULONG failureReason)

OMA-DM state callback function

Parameters

sessionState	• Session state – 0x00 - Complete, information was updated – 0x01 - Complete, update information is unavailable – 0x02 - Failed – 0x03 - Retrying – 0x04 - Connecting – 0x05 - Connected – 0x06 - Authenticated – 0x07 - Mobile Directory Number (MDN) downloaded – 0x08 - Mobile Station Identifier (MSID) downloaded – 0x09 - PRL downloaded – 0x0A - Mobile IP (MIP) profile downloaded
failureReason	• Session failure reason (when state indicates failure) – 0x00 - Unknown – 0x01 - Network is unavailable – 0x02 - Server is unavailable – 0x03 - Authentication failed – 0x04 - Maximum retry exceeded – 0x05 - Session is cancelled

Note

Technology Supported: CDMA

9.12.3.79 typedef void(∗ tFNOpMode)(QmiCbkLocOpModeInd ∗pLocOpmode)

LOC operating mode callback function.

Parameters

pLocOpmode[OUT]	• Events related to LOC, see QmiCbkLocOpModeInd for details

9.12.3.80 typedef void(∗ tFNOTASPStatus)(voiceOTASPStatusInfo ∗pVoiceOTASPStatusInfo)

OTASP or OTAPA event Indication Callback function

Parameters

pVoiceOTASPStatusInfo	• OTASP Status Information. • See voiceOTASPStatusInfo for more information

Note

Technology Supported: CDMA

9.12.3.81 typedef void(∗ tFNPacketSrvState)(packetSrvStatus ∗pPacketSrvStatus)

Packet Service state callback function.

Parameters

pPacketSrv-Status	• See packetSrvStatus for more details

9.12.3.82 typedef void(∗ tFNPDSState)(ULONG enabledStatus, ULONG trackingStatus)

PDS session state callback function.

Parameters

enabledStatus	• GPS enabled status – 0 - Disable – 1 - Enable
trackingStatus	• GPS tracking status – 0 - Unknown – 1 - Inactive – 2 - Active

9.12.3.83 typedef void(∗ tFNPower)(ULONG operatingMode)

Power operating mode callback function.

Parameters

operatingMode	• Service Operating mode See Tables for Operating Modes

Note

Technology Supported: UMTS/CDMA
Device Supported: MC83x5, MC7700/50

9.12.3.84 typedef void(∗ tFNPrivacyChange)(voicePrivacyInfo ∗pVoicePrivacyInfo)

Preferred voice privacy indication callback.

Parameters

pVoicePrivacy-Info	• See voicePrivacyInfo for more information.

Note

Technology Supported: CDMA

9.12.3.85 typedef void(∗ tFNPSMCfgParamChange)(dmsPsmCfgParamChange ∗pPSMCfgParamInd)

Get PSM status Indication callback.

Parameters

pPSMCgfParam-Ind	• See dmsPsmCfgParamChange for more information.

9.12.3.86 typedef void(∗ tFNQosNWStatus)(BYTE status)

QOS Network status callback function.

Parameters

status	Network QoS support status • 0x00 – Current network does not support QoS • 0x01 – Current network supports QoS

9.12.3.87 typedef void(∗ tFNQosPriEvent)(WORD event)

QOS primary flow callback function.

Parameters

event	Event which causes this indication: • 0x0001 – Primary flow QoS modify operation success • 0x0002 – Primary flow QoS modify operation failure

9.12.3.88 typedef void(∗ tFNQosStatus)(BYTE instance, ULONG id, BYTE status, BYTE event, BYTE reason)

QOS Status callback function.

Parameters

instance	• QMI instance
id	• Index identifying the QoS flow whose status is being reported

status	Current QoS flow status: • 0x01 – QMI_QOS_STATUS_ACTIVATED • 0x02 – QMI_QOS_STATUS_SUSPENDED • 0x03 – QMI_QOS_STATUS_GONE
event	• 0x01 – QMI_QOS_ACTIVATED_EV • 0x02 – QMI_QOS_SUSPENDED_EV • 0x03 – QMI_QOS_GONE_EV • 0x04 – QMI_QOS_MODIFY_ACCEPTED_EV • 0x05 – QMI_QOS_MODIFY_REJECTED_EV • 0x06 – QMI_QOS_INFO_CODE_UPDATED_EV
reason	• 0x01 - QMI_QOS_INVALID_PARAMS • 0x02 - QMI_QOS_INTERNAL_CALL_ENDED • 0x03 - QMI_QOS_INTERNAL_ERROR • 0x04 - QMI_QOS_INSUFFICIENT_LOCAL_Resources • 0x05 - QMI_QOS_TIMED_OUT_OPERATION • 0x06 - QMI_QOS_INTERNAL_UNKNOWN_CAUSE_CODE • 0x07 - QMI_QOS_INTERNAL_MODIFY_IN_PROGRESS • 0x08 - QMI_QOS_NOT_SUPPORTED • 0x09 - QMI_QOS_NOT_AVAILABLE • 0x0A - QMI_QOS_NOT_GUARANTEED • 0x0B - QMI_QOS_INSUFFICIENT_NETWORK_RESOURCES • 0x0C - QMI_QOS_AWARE_SYSTEM • 0x0D - QMI_QOS_UNAWARE_SYSTEM • 0x0E - QOS_REJECTED_OPERATION • 0x0F - QMI_QOS_WILL_GRANT_WHEN_QOS_RESUMED • 0x10 - QMI_QOS_NETWORK_CALL_ENDED • 0x11 - QMI_QOS_NETWORK_SERVICE_NOT_AVAILABLE • 0x12 - QMI_QOS_NETWORK_L2_LINK_RELEASED • 0x13 - QMI_QOS_NETWORK_L2_LINK_REESTAB_REJ • 0x14 - QMI_QOS_NETWORK_L2_LINK_REESTAB_IND • 0x15 - QMI_QOS_NETWORK_UNKNOWN_CAUSE_CODE • 0x16 - QMI_NETWORK_BUSY

9.12.3.89 typedef void(∗ tFNRankIndicator)(RankIndicatorInd ∗pRankIndicatorInd)

Rank Indicator callback function.

Parameters

pRankIndicator-Ind[OUT]	• Events related to NAS, see RankIndicatorInd for details.

9.12.3.90 typedef void(∗ tFNResetInfo)(ResetInfoNotification ∗pResetInfoNotification)

Get Reset Info Indication callback.

Parameters

pResetInfo-Notification	• See ResetInfoNotification for more information.

9.12.3.91 typedef void(∗ tFNRFInfo)(ULONG radioInterface, ULONG activeBandClass, ULONG activeChannel)

RF information callback function.

Parameters

radioInterface	• Radio interface technology of the signal being measured See Tables for Radio Interface
activeBandClass	• Active band class See Tables for Active Band Class
activeChannel	• Active channel – 0 - Channel is not relevant to the reported technology

9.12.3.92 typedef void(∗ tFNRoamingIndicator)(ULONG roaming)

Roaming indicator callback function.

Parameters

roaming	• Roaming Indication – 0 - Roaming – 1 - Home – 2 - Roaming partner – >2 - Operator defined values

9.12.3.93 typedef void(∗ tFNSDKTerminated)(BYTE ∗psReason)

SDK terminated callback function prototype

Parameters

psReason	• sdk termination reason string

Note

Timeout: None
Does not require communication with the device

9.12.3.94 typedef void(∗ tFNSensorStreaming)(QmiCbkLocSensorStreamingInd ∗pLocSensorStream)

LOC Sensor Streaming indication callback.

Parameters

pLocSensor-Stream	• See QmiCbkLocSensorStreamingInd for more information.

9.12.3.95 typedef void(∗ tFNServingSystem)(struct ServingSystemInfo ∗pServingSystem,struct RoamingInfo ∗pRoamingInfo)

Serving System callback function

Parameters

pServingSystem	• ServingSystemInfo structure

9.12.3.96 typedef void(∗ tFNSetCradleMount)(QmiCbkLocCradleMountInd ∗pSetLocCradleMount)

Set Cradle Mount indication callback.

Parameters

pSetLocCradle-Mount	• See QmiCbkLocCradleMountInd for more information.

9.12.3.97 typedef void(∗ tFNSetEngineState)(QmiCbkLocEngineStateInd ∗pSetLocEngineState)

Set Engine State Indication callback.

Parameters

pSetLocEngine-State	• See QmiCbkLocEngineStateInd for more information.

9.12.3.98 typedef void(∗ tFNSetEventTimeSync)(QmiCbkLocEventTimeSyncInd ∗pSetLocEventTimeSync)

LOC event time sync indication callback.

Parameters

pSetLocEvent-TimeSync	• See QmiCbkLocEventTimeSyncInd for more information.

9.12.3.99 typedef void(∗ tFNSetExtPowerConfig)(QmiCbkLocSetExtPowerConfigInd ∗pSetExtConfigIndStatus)

Set Ext Power Config Indication callback.

Parameters

pSetExtConfig-IndStatus	• See QmiCbkLocSetExtPowerConfigInd for more information.

9.12.3.100 typedef void(∗ tFNSetServer)(QmiCbkLocSetServerInd ∗pSetLocServerInfo)

Set LOC Server Indication callback.

Parameters

pSetLocServer-Info	• See QmiCbkLocSetServerInd for more information.

9.12.3.101 typedef void(∗ tFNSigInfo)(nasSigInfo ∗pNasSigInfo)

Signal Strength Information indication callback.

Parameters

pNasSigInfo	• See nasSigInfo for more information.

9.12.3.102 typedef void(∗ tFNSignalStrength)(INT8 signalStrength, ULONG radioInterface)

Signal strength callback function.

Parameters

signalStrength	• Received signal strength (in dBm)
radioInterface	• Radio interface technology of the signal being measured See Tables for Radio Interface

9.12.3.103 typedef void(* tFNSLQSOMADMAlert)(ULONG eventType, BYTE *pEventFields)

SWIOMA-DM network-initiated alert callback function

Parameters

eventType	• 0x00 - SWIOMA-DM FOTA • 0x01 - SWIOMA-DM Config • 0x02 - SWIOMA-DM Notification
pEventFields	• Pointer to structure containing info for that session type • See sessionInfo for more details

9.12.3.104 typedef void(* tFNSLQSQOSEvent)(BYTE instance, QosFlowInfo *pFlowInfo)

QOS Event callback function.

Parameters

instance	• QMI instance
pFlowInfo	• See QosFlowInfo for more information

9.12.3.105 typedef void(* tFNSLQSSessionState)(slqsSessionStateInfo *pSessionStateInfo)

Session state callback function.

Parameters

pSessionStateInfo	• See slqsSessionStateInfo for more details

9.12.3.106 typedef void(* tFNSLQSSignalStrengths)(struct SLQSSignalStrengthsInformation sSLQSSignalStrengthsInfo)

Received Signal Strength Information callback function.

Parameters

sSLQSSignalStrengthsInfo	• See SLQSSignalStrengthsInformation for more information.

9.12.3.107 typedef void(* tFNSLQSWDSEvent)(slqsWdsEventInfo *pWdsEventInfo)

WDS Event callback function.

Parameters

pWdsEventInfo	• See slqsWdsEventInfo for more details

9.12.3.108 typedef void(∗ tFNSMSEvents)(SMSEventInfo ∗pSMSEventInfo)

SMS event related callback function.

Parameters

pSMSEventInfo[-OUT]	• Events related to SMS, see SMSEventInfo for details

9.12.3.109 typedef void(∗ tFNSUPSInfo)(voiceSUPSInfo ∗pVoiceSUPSInfo)

Preferred SUPS indication callback.

Parameters

pVoiceSUPSInfo	• See voiceSUPSInfo for more information.

Note

Technology Supported: GSM

9.12.3.110 typedef void(∗ tFNSUPSNotification)(voiceSUPSNotification ∗pVoiceSUPSNotification)

Supplementary service notification callback.

Parameters

pVoiceSUPS-Notification	• See voiceSUPSNotification for more information.

9.12.3.111 typedef void(∗ tFNSwiAvmEventReport)(SwiAvmsEventInd ∗pEvent)

AVMS Event Report indication callback.

Parameters

pEvent	• See SwiAvmsEventInd for more information.

9.12.3.112 typedef void(∗ tFNSysInfo)(nasSysInfo ∗pNasSysInfo)

System Information indication callback.

Parameters

pNasSysInfo	• See nasSysInfo for more information.

9.12.3.113 typedef void(∗ tFNSysSelectionPref)(sysSelectPrefInfo ∗pSysSelectPrefInfo)

System Selection Preference Callback function

Parameters

pSysSelectPrefInfo	• Current System Selection preferences for the device. • See sysSelectPrefInfo for more information

9.12.3.114 typedef void(∗ tFNtransLayerInfo)(transLayerNotification ∗pTransLayerNotification)

Transport Layer Information callback.

Parameters

transLayerNotification	• See transLayerNotification for more information.

9.12.3.115 typedef void(∗ tFNtransNWRegInfo)(transNWRegInfoNotification ∗pTransNWRegInfoNotification)

Transport Network Registration Information callback.

Parameters

pTransNWRegInfoNotification	• See transNWRegInfoNotification for more information.

9.12.3.116 typedef void(∗ tFNUIMRefresh)(UIMRefreshEvent ∗pUIMRefreshEvent)

UIM Refresh Callback function

Parameters

pUIMRefreshEvent	• Pointer to Refresh Event structure. • See UIMRefreshEvent for more information

9.12.3.117 typedef void(* tFNUIMStatusChangeInfo)(UIMStatusChangeInfo *pUIMStatusChangeInfo)

UIM Status Change Callback function

Parameters

pUIMStatus-ChangeInfo	• Pointer to UIM status change structure. • See UIMStatusChangeInfo for more information

9.12.3.118 typedef void(* tFNUSSDNotification)(ULONG type, BYTE *pNetworkInfo)

SetUSSDNotificationCallback function prototype

Parameters

type	- Notification type • 0x01 - No action required • 0x02 - Action required
pNetworkInfo	• USS information from the network (0 indicates that no info was received) – See USSInfo for more details

Note

Technology Supported: UMTS

9.12.3.119 typedef void(* tFNUSSDNoWaitIndication)(USSDNoWaitIndicationInfo *pNetworkInfo)

USSD No Wait indication callback.

Parameters

pNetworkInfo	• See USSDNoWaitIndicationInfo for more information.

9.12.3.120 typedef void(* tFNUSSDRelease)(void)

USSD releasecallback function prototype

Note

Technology Supported: UMTS

9.12.3.121 typedef struct _transLayerInfoNotification transLayerNotification

Contains the parameters passed for SLQSSetTransLayerInfoCallback by the device.

Parameters

regInd	• Indicates whether the transport layer is registered or not • Values: – 0x00 - Transport layer is not registered – 0x01 - Transport layer is registered
pTransLayerInfo	• Optional parameter • See transLayerInfo for more information

Note

None

9.12.3.122 typedef struct _transNWRegInfoNotification transNWRegInfoNotification

Contains the parameters passed for SLQSSetTransNWRegInfoCallback by the device.

Parameters

NWRegStat	• provides the transport network registration information • Values: – 0x00 - No Service – 0x01 - In Progress – 0x02 - Failed – 0x03 - Limited Service – 0x04 - Full Service

Note

None

9.12.4 Enumeration Type Documentation

9.12.4.1 enum device_state_enum

Device State enumeration

- See device_state_enum for more details

Enumerator

DEVICE_STATE_DISCONNECTED

DEVICE_STATE_READY

DEVICE_STATE_BOOT

DEVICE_STATE_SERIAL_ONLY

9.12.4.2 enum eQaQMIService

The QMI service information which is exposed to the application, only the services which are relevant to multiple PDP are listed in this enumeration as these are the only required services to be exposed.

Enumerator

eQA_QMI_SVC_WDS

eQA_QMI_SVC_NAS

eQA_QMI_SVC_NA

9.12.4.3 enum SMSEventType

This enumeration defines the different type of SMS events that are received

- See SMSEventType for more details

Enumerator

SMS_EVENT_MT_MESSAGE

SMS_EVENT_TRANSFER_ROUTE_MT_MESSAGE

SMS_EVENT_MESSAGE_MODE

SMS_EVENT_ETWS

SMS_EVENT_ETWS_PLMN

SMS_EVENT_SMSC_ADDRESS

SMS_EVENT_SMS_ON_IMS

9.12.4.4 enum TYPE_OF_SERVICE_DOMAIN

Enumerator

SYS_SRV_DOMAIN_NO_SRV

SYS_SRV_DOMAIN_CS_ONLY

SYS_SRV_DOMAIN_PS_ONLY

SYS_SRV_DOMAIN_CS_PS

SYS_SRV_DOMAIN_CAMPED

9.12.5 Function Documentation

9.12.5.1 ULONG iSetCATEventCallback (tFNCATEvent *pCallback*)

9.12.5.2 ULONG iSetSignalStrengthCallback (tFNSignalStrength *pCallback*)

9.12.5.3 ULONG iSLQSSetDUNCallInfoCallback (tFNDUNCallInfo *pCallback*)

9.12.5.4 ULONG iSLQSSetSignalStrengthsCallback (tFNSLQSSignalStrengths *pCallback*)

9.12.5.5 ULONG iSLQSSetWdsFirstInstEventCallback (tFNSLQSWDSEvent *pCallback*)

9.12.5.6 ULONG iSLQSSetWdsSecondInstEventCallback (tFNSLQSWDSEvent *pCallback*)

9.12.5.7 ULONG iSLQSSetWdsThirdInstEventCallback (tFNSLQSWDSEvent *pCallback*)

9.12.5.8 ULONG iSLQSSetWdsXferStatsFirstInstCallback (tFNSLQSWDSEvent *pCallback*)

9.12.5.9 ULONG iSLQSSetWdsXferStatsSecondInstCallback (tFNSLQSWDSEvent *pCallback*)

9.12.5.10 ULONG SetActivationStatusCallback (tFNActivationStatus *pCallback*)

Enables/disables the Activation Status callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0 - disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.12.5.11 ULONG SetCATEventCallback (tFNCATEvent *pCallback,* ULONG *eventMask,* ULONG * *pErrorMask*)

Enables/disables the CAT event callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0 - Disable)
eventMask	• bitmask of CAT events to register for – 0x00000001 - Display Text – 0x00000002 - Get In-Key – 0x00000004 - Get Input – 0x00000008 - Setup Menu – 0x00000010 - Select Item – 0x00000020 - Send SMS - Alpha Identifier – 0x00000040 - Setup Event: User Activity – 0x00000080 - Setup Event: Idle Screen Notify – 0x00000100 - Setup Event: Language Sel Notify – 0x00000200 - Setup Idle Mode Text – 0x00000400 - Language Notification – 0x00000800 - Refresh – 0x00001000 - End Proactive Session

pErrorMask[OUT]	• error bitmask. Each bit set indicates the proactive command that caused the error – 0x00000001 - Display Text – 0x00000002 - Get In-Key – 0x00000004 - Get Input – 0x00000008 - Setup Menu – 0x00000010 - Select Item – 0x00000020 - Send SMS - Alpha Identifier – 0x00000040 - Setup Event: User Activity – 0x00000080 - Setup Event: Idle Screen Notify – 0x00000100 - Setup Event: Language Sel Notify – 0x00000200 - Setup Idle Mode Text – 0x00000400 - Language Notification – 0x00000800 - Refresh – 0x00001000 - End Proactive Session

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

Note

Technology Supported: UMTS
Timeout: 2 seconds

9.12.5.12 ULONG SetCfgParamChangeCallback (tFNPSMCfgParamChange *pCallback*)

Enables/disables PSM Configuration Change callback function.

Parameters

pCallback[IN]	• Callback function pointer (0-Disable) • See tFNPSMCfgParamChange for more information.

9.12.5.13 ULONG SetDataCapabilitiesCallback (tFNDataCapabilities *pCallback*)

Enables/disables the data capabilities callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0 - disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Does not require communication with the device

9.12.5.14 ULONG SetDeviceStateChangeCbk (tFNDeviceStateChange *pCallback*)

Used by the client application to register a Callback function for Device State Change (DSC) event notifications. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• a valid function pointer to be notified of DSC events • NULL to disable DSC event notification

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.12.5.15 ULONG SetFwDldCompletionCbk (tFNFwDldCompletion *pCallback*)

Used by the client application to register a Callback function for a Firmware Download Completion (FDC) event notification. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• a valid function pointer to enable FDC event notification • NULL to disable FDC event notification

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: N/A

9.12.5.16 ULONG SetGPSCallback (tFNNewGPS *pCallback*)

Enables/disables the NMEA sentence callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0 - Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

9.12.5.17 ULONG SetLocBestAvailPosCallback (tFNBestAvailPos *pCallback*)

Enables/disables Best Available Location callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0 - Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

9.12.5.18 ULONG SetLocCradleMountCallback (tFNSetCradleMount *pCallback*)

Enables/disables the Cradle Mount callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0 - Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

9.12.5.19 ULONG SetLocDeleteAssistDataCallback (tFNDelAssistData *pCallback*)

Enables/disables Delete Assist Data callback function. This API is used to receive the SUCCESS/FAILURE status of API SLQSLOCDelAssData().

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

9.12.5.20 ULONG SetLocEngineStateCallback (tFNSetEngineState *pCallback*)

Sends the GPS State Information event to the control point.

Parameters

pCallback[IN]	• Callback function pointer (0 - Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

9.12.5.21 ULONG SetLocEventMaskNMEACallback (tFNEventNmea *pCallback*)

Enables/disables NMEA Event callback function

Parameters

pCallback[IN]	• Callback function pointer (0 - Disable) • See tFNEventNmea for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

9.12.5.22 ULONG SetLocEventPositionCallback (tFNEventPosition *pCallback*)

Enables/disables the Event Position Report callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0 - Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

9.12.5.23 ULONG SetLocEventTimeSyncCallback (tFNSetEventTimeSync *pCallback*)

Enables/disables the Event Time Sync callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0 - Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

9.12.5.24 ULONG SetLocGetServerCallback (LocGetServerReq * *req*, tFNGetServer *pCallback*)

Enables/disables Get location server callback function

Parameters

req[IN]	• See LocGetServerReq for more information.
pCallback[IN]	• Callback function pointer (0 - Disable) • See tFNGetServer for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

9.12.5.25 ULONG SetLocGnssSvInfoCallback (tFNGnssSvInfo *pCallback*)

Enables/disables the GNSS SV Info callback function. This API is used to send the satellite report to the application. The satellite reports are sent only to the application that invoked API SLQSLOCStart() that generated the satellite report.

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.12.5.26 ULONG SetLocInjectSensorDataCallback (tFNInjectSensorData *pCallback*)

Enables/disables the Inject Sensor Data callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0 - Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

9.12.5.27 ULONG SetLocInjectTimeCallback (tFNInjectTimeStatus *pCallback*)

Enables/disables the Inject Time Sync Data callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0 - Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

9.12.5.28 ULONG SetLocOpModeCallback (tFNOpMode *pCallback*)

Enables/disables Set Operating Mode callback function. This API is used to receive the SUCCESS/FAILURE status of API SLQSLOCSetOpMode().

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

9.12.5.29 ULONG SetLocSensorStreamingCallback (tFNSensorStreaming *pCallback*)

Enables/disables the Event Sensor Streaming Ready Status callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0 - Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

9.12.5.30 ULONG SetLocSetExtPowerConfigCallback (tFNSetExtPowerConfig *pCallback*)

Enables/disables the Set External Power Config Status callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0 - Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

9.12.5.31 ULONG SetLocSetServerCallback (LocSetServerReq * *req*, tFNSetServer *pCallback*)

Set location server callback function

Parameters

req[IN]	• See LocSetServerReq for more information.
pCallback[IN]	• Callback function pointer (0 - Disable) • See tFNSetServer for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

9.12.5.32 ULONG SetLURejectCallback (tFNLUReject *pCallback*)

Enables/disables the LU reject callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0 - disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.12.5.33 ULONG SetMobileIPStatusCallback (tFNMobileIPStatus *pCallback*)

Enables/disables the Mobile IP Status callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0 - disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 2 seconds

9.12.5.34 ULONG SetNasLTECphyCaIndCallback (tFNASwiLTECphyCaInfo *pCallback*)

Enables/disables the LTE NAS CA Info callback function.

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.12.5.35 ULONG SetNetChangeCbk (BYTE *instance,* tFNNet *pCallback,* ULONG *loMark,* ULONG *hiMark,* ULONG *period*)

Used by the client application to register a Callback function for USB Transmit Queue Length Change event notifications. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

instance[IN]	• PDP instance
pCallback[IN]	• a valid function pointer to be notified of the event • NULL to disable the event notification
loMark[IN]	• Transmit queue length smaller will trigger unthrottle event notification

hiMark[IN]	• Transmit queue length larger will trigger throttle event notification
period[IN]	• monitoring period in seconds, minimum 1 second

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.12.5.36 ULONG SetNewSMSCallback (tFNNewSMS *pCallback*)

Enables/disables the new SMS callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0 - Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

Note

Timeout: 2 seconds

9.12.5.37 ULONG SetNMEACallback (tFNNewNMEA *pCallback*)

Enables/disables the NMEA sentence callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

This API is deprecated on all MC/EM74xx firmware versions. Please use SetLocEventPositionCallback()

Parameters

pCallback[IN]	• Callback function pointer (0 - Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

9.12.5.38 ULONG SetOMADMStateCallback (tFNOMADMState *pCallback*)

Enables/disables the OMADM state callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

This API is deprecated on all MC/EM74xx firmware versions. Please use SetSLQSOMADMAlertCallback()

Parameters

pCallback[IN]	• a valid function pointer to enable OMADMState notification • NULL to disable OMADMState notification

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

Note

Technology Supported: CDMA
Timeout: 2 seconds

9.12.5.39 ULONG SetPDSStateCallback (tFNPDSState *pCallback*)

Enables/disables the PDS service state callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0 - Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

9.12.5.40 ULONG SetPowerCallback (tFNPower *pCallback*)

Enables/disables the Operating Mode callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0 - disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.12.5.41 ULONG SetRankIndicatorCallback (tFNRankIndicator *pCallback*)

9.12.5.42 ULONG SetRFInfoCallback (tFNRFInfo *pCallback*)

Enables/disables the radio frequency information callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0 - Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.12.5.43 ULONG SetRMTransferStatisticsCallback (tFNNewRMTransferStatistics *pCallback*)

Enables/disables the RM Transfer Statistics callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0 - Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

9.12.5.44 ULONG SetRoamingIndicatorCallback (tFNRoamingIndicator *pCallback*)

Enables/disables the Roaming Indicator callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

This API is deprecated on all MC/EM74xx firmware versions. Please use SLQSNasSysInfoCallBack() instead

Parameters

pCallback[IN]	• Callback function pointer (0 - disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.12.5.45 ULONG SetSignalStrengthCallback (tFNSignalStrength *pCallback*, BYTE *thresholdsSize*, INT8 * *pThresholds*)

Enables/disables the Signal Strength callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs. This API is deprecated on MC73xx/-EM73xx modules since firmware version SWI9X15C_05_xx_xx_xx and all EM74xx firmware versions. Please use API SLQSNasIndicationRegisterExt() for new firmware versions and new modules

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)
thresholdsSize	• Number of elements threshold array contains; a maximum of five thresholds is supported; • This parameter is not used when disabling the callback.
pThresholds[IN]	• Signal threshold array for each entry (in dBm). • This parameter is not used when disabling the callback.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds
The signal strength callback function is called when a threshold in the threshold array is crossed.

9.12.5.46 ULONG SetSLQSOMADMAlertCallback (tFNSLQSOMADMAlert *pCallback*)

Enables/disables the SWIOMADM network-initiated alert callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• a valid function pointer to enable SLQSOMADMAlert notification • NULL to disable SLQSOMADMAlert notification

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

9.12.5.47 ULONG SetSLQSOMADMAlertCallbackExt (tFNSLQSOMADMAlert *pCallback*)

Enables/disables the SWIOMADM network-initiated alert callback function for SL9090 module. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• a valid function pointer to enable SLQSOMADMAlert notification • NULL to disable SLQSOMADMAlert notification

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

Note

Technology Supported: UMTS/CDMA
Device Supported: SL9090
Timeout: 2 seconds

9.12.5.48 ULONG SetUimSlotStatusChangeCallback (tFNCbkUimSlotStatusChangeInd *pCallback*)

Enables/disables Slot Status Change callback function.

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.12.5.49 ULONG SetUSSDNotificationCallback (tFNUSSDNotification *pCallback*)

Enables/disables the USSDNotification callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• a valid function pointer to enable ServingSystem notification • NULL to disable ServingSystem notification

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

Note

Technology Supported: UMTS
Timeout: Does not require communication with device

9.12.5.50 ULONG SetUSSDNoWaitIndicationCallback (tFNUSSDNoWaitIndication *pCallback*)

SetUSSDNoWaitIndicationCallback

Parameters

pNetworkInfo	• Data from the network. • See USSDNoWaitIndicationInfo for more details.

Note

Technology Supported: UMTS
Device Supported: MC83x5

9.12.5.51 ULONG SetUSSDReleaseCallback (tFNUSSDRelease *pCallback*)

Enables/disables the USSD release callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• a valid function pointer to enable ServingSystem notification • NULL to disable ServingSystem notification

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

Note

Technology Supported: UMTS
Timeout: Does not require communication with the device

9.12.5.52 ULONG SLQSNasNetworkRejectCallback (tFNNetworkReject *pCallback*)

9.12.5.53 ULONG SLQSNasNetworkTimeCallBack (tFNNetworkTime *pCallback*)

Enables/disables the Network Time callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds
This callback is sent when the 3GPP or 3GPP2 network sends time information to the User Equipment.

9.12.5.54 ULONG SLQSNasSigInfo2CallBack (tFNSigInfo *pCallback,* setSignalStrengthInfo * *pSigInfo2*)

Enables/disables the Signal Info callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)
pSigInfo2[IN]	• Structure containing the threshold values beyond which signal information is to be reported • See setSignalStrengthInfo for more details

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds
This callback is sent when the signal strength change occurs

9.12.5.55 ULONG SLQSNasSigInfoCallBack (tFNSigInfo *pCallback*, sigInfo * *pSigInfo*)

Enables/disables the Signal Info callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs. This callback is deprecated on MC73xx/-EM73xx modules since firmware version SWI9X15C_05_xx_xx_xx and all EM74xx firmware versions. Please use callback SLQSNasSigInfo2CallBack() for new firmware versions and new modules

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)
pSigInfo[IN]	• Structure containing the threshold values beyond which signal information is to be reported • See sigInfo for more details

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds
This callback is sent when the signal strength change occurs

9.12.5.56 ULONG SLQSNasSwiOTAMessageCallback (NasSwiIndReg * *req*, tFNASwiOTAMsg *pCallback*)

Enables/disables the SLQSNasSwiOTAMessageCallback callback function. To disable the callback, provide both req and pCallback as NULL pointer to the API

Parameters

req[IN]	• the request to which kind of message type should be enabled, see NasSwiIndReg for details
pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.12.5.57 ULONG SLQSNasSysInfoCallBack (tFNSysInfo *pCallback*)

Enables/disables the Sys Info callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds
This callback provides current serving system information, including registration information and system property. The serving system information of the radio interfaces specified in mode_pref are included in the response message. When any value in the sys_info message changes, an indication message is sent. Indications contain all the values for all active RATs.

9.12.5.58 ULONG SLQSNasTimerCallback (tFNNasTimer *pCallback*)

Enables/disables Network Timer callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback	• Callback function pointer (0 - Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

9.12.5.59 ULONG SLQSSetBandPreferenceCbk (tFNBandPreference *pCallback*)

Enables/disables the Band Preference callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• a valid function pointer to enable Band Preference Indication notification • NULL to disable Band Preference notification

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

Note

Timeout: NA To set the band preference the API SLQSSetBandPreference() should be used

9.12.5.60 ULONG SLQSSetDataSystemStatusCallback (tFNDataSysStatus *pCallback*)

Enables/disables the Data System Status callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.12.5.61 ULONG SLQSSetDHCPv4ClientLeaseStatusCallback (BYTE *instance,* tFNDHCPv4ClientLeaseStatus *pCallback*)

Enables/disables the DHCP Client V4 Lease Status callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

instance[IN]	• QMI instance
pCallback[IN]	
	• Callback function pointer (0 - Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

9.12.5.62 ULONG SLQSSetDUNCallInfoCallback (BYTE *StatsPeriod,* tFNDUNCallInfo *pCallback*)

Enables/disables the DUN Call Info callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

StatsPeriod[IN]	• Period between reports(seconds) • 0 - Do not report • Only applicable to pTXOKBytesCount and pRXOKBytesCount parameters
pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.12.5.63 ULONG SLQSSetIMSAPdpStatusCallback (tFNImsaPdpStatus *pCallback*)

SLQSSetIMSAPdpStatusCallback

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.12.5.64 ULONG SLQSSetIMSARatStatusCallback (tFNImsaRatStatus *pCallback*)

SLQSSetIMSARatStatusCallback

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.12.5.65 ULONG SLQSSetIMSARegStatusCallback (tFNImsaRegStatus *pCallback*)

SLQSSetIMSARegStatusCallback

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.12.5.66 ULONG SLQSSetIMSASvcStatusCallback (tFNImsaSvcStatus *pCallback*)

SLQSSetIMSASvcStatusCallback

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.12.5.67 ULONG SLQSSetIMSSMSConfigCallback (tFNImsSMSConfig *pCallback*)

Enables/disables the SMS Config callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.12.5.68 ULONG SLQSSetIMSUserConfigCallback (tFNImsUserConfig *pCallback*)

Enables/disables the User Config callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.12.5.69 ULONG SLQSSetIMSVoIPConfigCallback (tFNImsVoIPConfig *pCallback*)

Enables/disables the VoIP Config callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.12.5.70 ULONG SLQSSetLocInjectPositionCallback (tFNInjectPosition *pCallback*)

Enables/disables Inject Position callback function. This API is used to receive the SUCCESS/FAILURE status of API SLQSLOCInjectPosition().

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

9.12.5.71 ULONG SLQSSetLocInjectUTCTimeCallback (tFNInjectUTCTime *pCallback*)

Enables/disables Inject UTC Time callback function. This API is used to receive the SUCCESS/FAILURE status of API SLQSLOCInjectUTCTime().

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

9.12.5.72 ULONG SLQSSetModemTempCallback (tFNModemTempInfo *pCallback*)

Enables/disables the Modem Temperature information callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.12.5.73 ULONG SLQSSetPacketSrvStatusCallback (tFNPacketSrvState *pCallback*)

Enables/disables the session state callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0 - disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: none; does not require communication with the device

9.12.5.74 ULONG SLQSSetQosEventCallback (BYTE *instance,* tFNSLQSQOSEvent *pCallback*)

Enables/disables the QoS event callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs. This callback provide extra information regarding the QoS flow state

Parameters

in	*instance*	• QMI instance
in	*pCallback*	• Callback function pointer (0 - disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

maximum number of tx/rx filters supported is 25 (pTxQFilter/pRxQFilter)

9.12.5.75 ULONG SLQSSetQosNWStatusCallback (tFNQosNWStatus *pCallback*)

Enables/disables the QoS event callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs. This callback provide extra information regarding the QoS Network supports status

Parameters

in	*pCallback[IN]*	• Callback function pointer (0 - disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.12.5.76 ULONG SLQSSetQosPriEventCallback (tFNQosPriEvent *pCallback*)

Enables/disables the QoS event callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs. This callback provide extra information regarding the QoS Primary flow event

Parameters

in	*pCallback*	• Callback function pointer (0 - disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS

9.12.5.77 ULONG SLQSSetQosStatusCallback (BYTE *instance,* tFNQosStatus *pCallback*)

Enables/disables the QoS event callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs. This callback provide extra information regarding the QoS status

Parameters

in	*instance*	• QMI instance
in	*pCallback[IN]*	• Callback function pointer (0 - disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.12.5.78 ULONG SLQSSetRegMgrConfigCallback (tFNImsRegMgrConfig *pCallback*)

Enables/disables the Reg Mgr Config callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.12.5.79 ULONG SLQSSetSDKTerminatedCallback (tFNSDKTerminated *pCallback*)

Used by the client application to register a Callback function for SDK terminated event notifications. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• a valid function pointer to be notified of SWI events • NULL to disable SWI event notification

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: N/A
Device Supported: N/A
Timeout: N/A
The following signals will trigger this callback:

```
2 INT      4 ILL      5 TRAP     6 ABRT     7 BUS
8 FPE     11 SEGV    13 PIPE    15 TERM    31 SYS
```

9.12.5.80 ULONG SLQSSetServingSystemCallback (tFNServingSystem *pCallback*)

Enables/disables the Serving System callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

This API is deprecated on all MC/EM74xx firmware versions. Please use SLQSNasSysInfoCallBack()

Parameters

pCallback[IN]	• a valid function pointer to enable ServingSystem notification • NULL to disable ServingSystem notification

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

9.12.5.81 ULONG SLQSSetSessionStateCallback (tFNSLQSSessionState *pCallback*)

Enables/disables the session state callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs. This callback provide extra information regarding the multiple PDP interface

Parameters

pCallback[IN]	• Callback function pointer (0 - disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: none; does not require communication with the device

9.12.5.82 ULONG SLQSSetSignalStrengthsCallback (tFNSLQSSignalStrengths *pCallback,* struct SLQSSignalStrengthsIndReq * *pSLQSSignalStrengthsIndReq*)

Enables/disables the Received Signal Strength Information callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs. This API is same as API SetSignalStrengthsCallback() except providing more information of signal such as ECIO, SNR etc. This API is deprecated on MC73xx/EM73xx modules since firmware version SWI9X15C_05_xx_xx_xx and all E-M74xx firmware versions. Please use API SLQSNasIndicationRegisterExt() for new firmware versions and new modules

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)
pSLQSSignal-StrengthsIndReq	• See SLQSSignalStrengthsIndReq for more information • This parameter is not used when disabling the callback.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds
The signal strength callback function is called when a threshold in the threshold array is crossed.

9.12.5.83 ULONG SLQSSetSIPConfigCallback (tFNImsSIPConfig *pCallback*)

Enables/disables the SIP Config callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.12.5.84 ULONG SLQSSetSMSEventCallback (tFNSMSEvents *pCallback*)

Enables/disables the events related to SMS callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0 - Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

9.12.5.85 ULONG SLQSSetSwiGetResetInfoCallback (tFNResetInfo *pCallback*)

Reset Info callback.

Parameters

pCallback	• See tFNResetInfo for more information.

9.12.5.86 ULONG SLQSSetSwiHDRPersCallback (tFNHDRPersonaity *pCallback*)

Enables/disables the HDR Personality callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 5 seconds

9.12.5.87 ULONG SLQSSetSysSelectionPrefCallBack (tFNSysSelectionPref *pCallback*)

Enables/disables the System Selection Preference callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• a valid function pointer to enable System Selection Preference Indication notification • NULL to disable Band Preference notification

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

Note

Timeout: 2 seconds
To set the system selection preferences the API SLQSSetSysSelectionPref() should be used

9.12.5.88 ULONG SLQSSetTransLayerInfoCallback (tFNtransLayerInfo *pCallback*)

Enables/disables the Transport Layer information callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.12.5.89 ULONG SLQSSetTransNWRegInfoCallback (tFNtransNWRegInfo *pCallback*)

Enables/disables the Transport Network Registration information callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.12.5.90 ULONG SLQSSetWdsEventCallback (tFNSLQSWDSEvent *pCallback,* BYTE *interval,* BYTE *instanceid,* BYTE *ipfamily*)

Enables/disables the WDS event callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs. This callback provide extra information regarding the multiple PDP interface. Transfer statistic are reported only when changed.

Parameters

pCallback[IN]	• Callback function pointer (0 - disable)
interval	• Interval in seconds. • ignored when disabling, should be non-zero when enabling • period only affect transfer statistic attributes
instanceid	• PDP instance id 0 - First PDP instance 1 - Second PDP instance 2 - Third PDP instance
ipfamily	• 4 for an IPv4 data session • 6 for an IPv6 data session • 7 for an IPv4v6 data session

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds Currently 3 PDP instances are supported in device. user of this callback can subscribe by passing instanceid of particular instance. All PDP instance can be subscribed by passing instanceid sequentially.

9.12.5.91 ULONG SLQSSetWdsTransferStatisticCallback (tFNSLQSWDSEvent *pXferStatsCb*, BYTE *interval*, BYTE *instanceid*, BYTE *ipfamily*)

Enables/disables the WDS transfer statistic callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs. This callback provide extra information regarding the multiple PDP interface. Transfer statistic are reported only when changed.

Parameters

pCallback[IN]	• Callback function pointer (0 - disable)
interval	• Interval in seconds. • ignored when disabling, should be non-zero when enabling • period only affect transfer statistic attributes
instanceid	• PDP instance id 0 - First PDP instance 1 - Second PDP instance 2 - Third PDP instance
ipfamily	• 4 for an IPv4 data session • 6 for an IPv6 data session • 7 for an IPv4v6 data session

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds Currently 3 PDP instances are supported in device. User of this callback can subscribe by passing instance id of particular instance. All PDP instance can be subscribed by passing instance id sequentially.

9.12.5.92 ULONG SLQSSwiAVMSEventReportCallback (tFNSwiAvmEventReport *pCallback*)

9.12.5.93 ULONG SLQSTmdMitigationLvlRptCallback (TmdMitigationLvlIndReq * *req*, tFNMitiLvlRpt *pCallback*)

Thermal Mitigation callback.

Parameters

req	• See TmdMitigationLvlIndReq for more information.
pCallback	• See tFNMitiLvlRpt for more information.

9.12.5.94 ULONG SLQSUIMSetRefreshCallBack (tFNUIMRefresh *pCallback*)

Enables/disables the UIM refresh callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• a valid function pointer to enable UIM Refresh Indication notification • NULL to disable Band Preference notification

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

Note

Timeout: 2 seconds
SLQSUIMRefreshRegister() API should be invoked prior to the invocation of the callback for the events to be registered.

9.12.5.95 ULONG SLQSUIMSetStatusChangeCallBack (tFNUIMStatusChangeInfo *pCallback*)

Enables/disables the UIM Status Change Callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• a valid function pointer to enable UIM Status Change Indication notification • NULL to disable Band Preference notification

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

Note

Timeout: 2 seconds

9.12.5.96 ULONG SLQSVoiceInfoRecCallback (tFNInfoRec *pCallback*)

Enables/disables the Voice information Record callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs. (Applicable only for 3GPP2)

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 2 seconds

9.12.5.97 ULONG SLQSVoiceSetAllCallStatusCallBack (tFNAllCallStatus *pCallback*)

Enables/disables Voice Call Status Callback function. User can subscribe this callback get the call state change notifications. eg:- Call originated, connected, or ended. Whenever there is a change in the call information, there will be a indication with the information.

Parameters

pCallback[IN]	• Callback function pointer (0 - Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.12.5.98 ULONG SLQSVoiceSetDTMFEventCallBack (tFNDTMFEvent *pCallback*)

Enables/disables the DTMF Event callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds
This callback communicates that a DTMF event has been received.

9.12.5.99 ULONG SLQSVoiceSetOTASPStatusCallBack (tFNOTASPStatus *pCallback*)

Enables/disables OTASP(Over-The-Air Service Provisioning) or OTAPA(Over-The-Air Parameter Administration) event CallBack Function (applicable only for 3GPP2). The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• a valid function pointer to enable OTASP or OTAPA event Indication notification • NULL to disable OTASP or OTAPA event, Indication notification

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

Note

Technology Supported: CDMA
Timeout: 10 seconds
This indication communicates the occurrence of an OTASP or OTAPA event. This indication is only applicable for 3GPP2 devices.

9.12.5.100 ULONG SLQSVoiceSetPrivacyChangeCallBack (tFNPrivacyChange *pCallback*)

Enables/disables the voice privacy change callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 2 seconds
This callback communicates a change in the voice privacy of a call. This is applicable only in 3GPP2 devices.

9.12.5.101 ULONG SLQSVoiceSetSUPSCallBack (tFNSUPSInfo *pCallback*)

Enables/disables the SUPS callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: GSM
Timeout: 2 seconds
This callback notifies clients about the modem-originated supplementary service requests and the responses received from the network.

9.12.5.102 ULONG SLQSVoiceSetSUPSNotificationCallback (tFNSUPSNotification *pCallback*)

Enables/disables the supplementary service notification callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.12.5.103 ULONG SLQSWmsAsyncRawSendCallBack (tFNAsyncRawSend *pCallback*)

Enables/disables the SLQSWmsAsyncRawSendCallBack callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.12.5.104 ULONG SLQSWmsMemoryFullCallBack (tFNMemoryFull *pCallback*)

Enables/disables the event related to memory full status callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.12.5.105 ULONG SLQSWmsMessageWaitingCallBack (tFNMessageWaiting *pCallback*)

Enables/disables the event related to message waiting information callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.

Parameters

pCallback[IN]	• Callback function pointer (0-Disable)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.13 qaGobiApiDcs.h File Reference

Device Connectivity Service API function prototypes.

Data Structures

- struct DcsUsbPortNames
- struct QosMap
- struct NetStats

Macros

- #define LEN 10
- #define PORTNAM_LEN 32

Functions

- ULONG QCWWAN2kEnumerateDevices (BYTE *pDevicesSize, BYTE *pDevices)
- ULONG QCWWAN2kConnect (CHAR *pDeviceID, CHAR *pDeviceKey)
- ULONG QCWWANDisconnect ()
- ULONG QCWWAN2kGetConnectedDeviceID (ULONG deviceIDSize, CHAR *pDeviceID, ULONG deviceKeySize, CHAR *pDeviceKey)
- ULONG QCWWANEnumerateDevices (BYTE *pDevicesSize, BYTE *pDevices)
- ULONG QCWWANConnect (CHAR *pDeviceID, CHAR *pDeviceKey)
- ULONG SetSDKImagePath (LPCSTR pPath)
- ULONG SLQSGetUsbPortNames (struct DcsUsbPortNames *pUsbPortNames)
- ULONG SLQSStart_AVAgent (BYTE modem_index)
- ULONG SLQSStart (BYTE modem_index, CHAR *sn)
- ULONG SLQSKillSDKProcess ()
- ULONG SLQSGetDeviceMode (BYTE *pDeviceMode)
- ULONG SLQSStartSrv (BYTE action, BYTE mask)
- ULONG SLQSSetLoggingMask (BYTE mask)
- ULONG SLQSGetNetStatistic (struct NetStats *pNetStatistic, BYTE instance)
- ULONG GetQmapIsSupported (BYTE *pQmapsupport)
- ULONG SetQmapIPTable (struct QmuxIPTable *pQTable)
- ULONG SetQmapIPv6Table (QmuxIPv6Table *pQTable)

9.13.1 Detailed Description

Device Connectivity Service API function prototypes.

9.13.2 Macro Definition Documentation

9.13.2.1 #define LEN 10

9.13.2.2 #define PORTNAM_LEN 32

This structure contains the SLQSGetUsbPortNames Information

Parameters

AtCmdPort	[OUT] • Name of AT command port
NmeaPort	[OUT] • Name of NMEA port
DmPort	[OUT] • Name of DM port

Note

Technology Supported: UMTS/CDMA
Device Supported: MC83x5, MC7700/10/50
Timeout: 2 seconds
Port names are limited to 32 characters.

9.13.3 Function Documentation

9.13.3.1 ULONG GetQmapIsSupported (BYTE * *pQmapsupport*)

Returns if the module supports QMAP feature.

Parameters

pQmapsupport[-OUT]	• value – 0 means module does not support QMAP, otherwise QMAP is supported

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.13.3.2 ULONG QCWWAN2kConnect (CHAR * *pDeviceID*, CHAR * *pDeviceKey*)

Connects the Connection Manager API to the first detected QC WWAN device. This function MUST be called after QCWWAN2kEnumerateDevices has been called.

Parameters

pDeviceID[IN]	• Device path pertaining to the device for which the API is being invoked e.g. /dev/qcqmi0.
pDeviceKey[IN]	• Device key pertaining to the device for which the API is being invoked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_ERR_NO_DEVICE otherwise

Note

Timeout: 2 seconds

9.13.3.3 ULONG QCWWAN2kEnumerateDevices (BYTE * *pDevicesSize,* BYTE * *pDevices*)

Enumerates the QC WWAN devices currently attached to the host. This API MUST be called before any other API.

Parameters

pDeviceSize[IN/-OUT]	• Upon input, maximum number of elements that the device array can contain. • Upon successful output, actual number of elements in the device array.
pDevices[IN/OU-T]	• Device array; array elements are structures with the following elements: CHAR deviceID[256] - Device path (e.g. /dev/qcqmi0) CHAR deviceKey[16] - Device key stored in the device (e.g. A1000004B01051)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_ERR_NO_DEVICE on otherwise

Note

Timeout: 2 seconds

9.13.3.4 ULONG QCWWAN2kGetConnectedDeviceID (ULONG *deviceIDSize,* CHAR * *pDeviceID,* ULONG *deviceKeySize,* CHAR * *pDeviceKey*)

Returns the device ID and device key of the currently connected QC WWAN device.

Parameters

deviceIDSize	• Maximum number of characters (including NULL terminator) that the device ID array can contain.
pDeviceID[OUT]	• Device path string

deviceKeySize	• Maximum number of characters (including NULL terminator) that the device key array can contain.
pDeviceKey[OUT]	• Device key string

Returns

eQCWWAN_ERR_NONE if device found, eQCWWAN_ERR_NO_DEVICE otherwise

Note

Timeout: 2 seconds

9.13.3.5 ULONG QCWWANConnect (CHAR * *pDeviceID,* CHAR * *pDeviceKey*)

Enumerates the QC WWAN devices currently attached to the host. This API MUST be called before any other API.

Parameters

pDeviceID[IN]	• Device path pertaining to the device for which the API is being invoked e.g. /dev/qcqmi0.
pDeviceKey[IN]	• Device key pertaining to the device for which the API is being invoked

Returns

eQCWWAN_ERR_NONE if device found, eQCWWAN_ERR_NO_DEVICE otherwise

Note

Timeout: 2 seconds
This API is deprecated; use QCWWAN2kConnect() instead

9.13.3.6 ULONG QCWWANDisconnect ( )

Disconnects the Connection Manager API from a previously connected QC device. This function de-registers all the callback functions that have been registered.

Parameters

none	

Returns

eQCWWAN_ERR_NONE

Note

Timeout: 2 seconds

9.13.3.7 ULONG QCWWANEnumerateDevices (BYTE * *pDevicesSize,* BYTE * *pDevices*)

Enumerates the QC WWAN devices currently attached to the host. This API is deprecated; use QCWWAN2kEnumerateDevices() instead.

Parameters

pDeviceSize[IN/OUT]	• Upon input, maximum number of elements that the device array can contain. • Upon successful output, actual number of elements in the device array.
pDevices[IN/OUT]	• Device array; array elements are structures with the following elements: CHAR deviceID[256] - Device path (e.g. /dev/qcqmi0) CHAR deviceKey[16] - Device key stored in the device

Returns

eQCWWAN_ERR_NONE

Note

Timeout: 2 seconds
This API must be called prior to any other APIs.

9.13.3.8 ULONG SetQmapIPTable (struct QmuxIPTable * *pQTable*)

Set the mux id associated with ip address to the SDK process, it will be propagated to driver by IOCTL

Parameters

pQTable[IN]	• See QmuxIPTable for more details

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.13.3.9 ULONG SetQmapIPv6Table (QmuxIPv6Table * *pQTable*)

Set the mux id associated with ipv6 address to the SDK process, it will be propagated to driver by IOCTL

Parameters

pQTable[IN]	• See QmuxIPv6Table for more details

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.13.3.10 ULONG SetSDKImagePath (LPCSTR *pPath*)

Set the location of the SLQS executable

Parameters

pPath[IN]	- Pointer to fully qualified path of SLQS executable (includes the executable file's name)

Returns

eQCWWAN_ERR_NONE

Note

Timeout: None

9.13.3.11 ULONG SLQSGetDeviceMode (BYTE * *pDeviceMode*)

Returns the Device Mode

Parameters

pDeviceMode[OUT]	• Pointer to SLQS Device Mode of type eDevState

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.13.3.12 ULONG SLQSGetNetStatistic (struct NetStats * *pNetStatistic*, BYTE *instance*)

Returns the usbnet statistics for a particular PDN.

Parameters

	pNetStatistic[OUT]	• Pointer to the structure NetStats which the value of every member is to be retrieved
in	*instance*	• PDP Instance id

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.13.3.13 ULONG SLQSGetUsbPortNames (struct DcsUsbPortNames * *pUsbPortNames*)

Returns the Usb Port Names currently in use.

Parameters

pUsbPortNames[OUT]	• Pointer to SLQS USB Port Names Information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.13.3.14 ULONG SLQSKillSDKProcess ( )

Kill the SDK process

Parameters

none	

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: N/A
This API useful if the application was started with non-root privileges as subsequent attempt to start any application will fail because the SDK requires root permission to access /dev/qcqmi device special files.

9.13.3.15 ULONG SLQSSetLoggingMask (BYTE *mask*)

Limit Syslog messages according to the Mask provided by user

Parameters

mask	• Mask 0x01: disable all log • Mask 0xFF: enable all log

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.13.3.16 ULONG SLQSStart (BYTE *modem_index*, CHAR * *sn*)

Create the SDK process and IPC sockets for the Application and SDK processes to communicate over.

Parameters

in	*modem_index*	• 0: first modem detected • 1: second modem detected • 2: third modem detected • ... • 7: seventh modem detected
in	*sn*	This field is optional, it can be serial number or usb path for multiple modem feature, it can be retrieved from sytem command "dmesg" when specified, the modem_index will be mapping to sn or usb path Please set to NULL when not used

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: N/A

9.13.3.17 ULONG SLQSStart_AVAgent (BYTE *modem_index*)

Create IPC sockets for AirVantage Agent and SDK processes to communicate over

Parameters

none	

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: N/A

9.13.3.18 ULONG SLQSStartSrv (BYTE *action,* BYTE *mask*)

Registers/deregisters for service with unsolicited notifications

Parameters

action,1	for register, 0 for deregister
mask	• Bit mask for unsolicited notifications – Bit0 - WDS – Bit1 - NAS – Bit2 - PDS – Bit3 - VOICE

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds API is useful to register for the services which supports unsolicited notifications. Registration/deregistration can be done by using parameter action if action is set then the mask (set bits) will be used for registering service and if action is "0" mask(set bits) will be used to deregister services. For example : bit mask 0x03 - Registers for services WDS and NAS if action is "1" and deregisters WDS and NAS if action is "0".

9.14 qaGobiApiDms.h File Reference

Device Management Service API function prototypes.

Data Structures

- struct serialNumbersInfo
- struct ERIFileparams
- struct custFeaturesInfo
- struct custFeaturesSetting
- struct dmsCurrentPRLInfo
- struct FactorySequenceNumber
- struct FirmwareUpdatStat
- struct USBCompParams
- struct USBCompConfig
- struct CrashInfo
- struct CrashInfoParams
- struct _SLQSSwiGetHostDevInfoParams
- struct _SLQSSwiSetHostDevInfoParams
- struct _SLQSSwiGetOSInfoParams
- struct _SLQSSwiSetOSInfoParams
- struct _SLQSSwiGetSerialNoExtParams
- struct setCustomSettingV2
- struct getCustomInput
- struct custSettingInfo
- struct custSettingList
- struct getCustomFeatureV2
- struct getDyingGaspCfg
- struct setDyingGaspCfg
- struct getDyingGaspStatistics
- struct dmsIndicationRegisterReq
- struct dmsSwiGetResetInfo
- struct BandCapabilityResp
- struct dmsSwiGetPCInfo
- struct PSMEnableStateTlv
- struct PSMDurationThresholdTlv
- struct PSMDurationDueToOOSTlv
- struct PSMRandomizationWindowTlv
- struct PSMActiveTimerTlv
- struct PSMPeriodicUpdateTimerTlv
- struct PSMEarlyWakeupTimeTlv
- struct PowerSaveModeConfigResp
- struct PowerSaveModeConfigReq

Macros

- #define MAX_FSN_LENGTH 255
- #define MAX_CUST_ID_LEN 64
- #define MAX_CUST_VALUE_LEN 8
- #define MAX_DYING_GASP_CFG_SMS_CONTENT_LENGTH 160
- #define MAX_DYING_GASP_CFG_SMS_NUMBER_LENGTH 20

Typedefs

- typedef struct serialNumbersInfo serialNumbersInfo
- typedef struct ERIFileparams ERIFileparams
- typedef struct custFeaturesInfo custFeaturesInfo
- typedef struct custFeaturesSetting custFeaturesSetting
- typedef struct dmsCurrentPRLInfo dmsCurrentPRLInfo
- typedef struct _SLQSSwiGetHostDevInfoParams SLQSSwiGetHostDevInfoParams
- typedef struct _SLQSSwiSetHostDevInfoParams SLQSSwiSetHostDevInfoParams
- typedef struct _SLQSSwiGetOSInfoParams SLQSSwiGetOSInfoParams
- typedef struct _SLQSSwiSetOSInfoParams SLQSSwiSetOSInfoParams
- typedef struct _SLQSSwiGetSerialNoExtParams SLQSSwiGetSerialNoExtParams

Functions

- ULONG GetManufacturer (BYTE stringSize, CHAR *pString)
- ULONG GetModelID (BYTE stringSize, CHAR *pString)
- ULONG GetFirmwareRevision (BYTE stringSize, CHAR *pString)
- ULONG GetFirmwareRevisions (BYTE amssSize, CHAR *pAMSSString, BYTE bootSize, CHAR *pBoot-String, BYTE priSize, CHAR *pPRIString)
- ULONG GetPRLVersion (WORD *pPRLVersion)
- ULONG GetIMSI (BYTE stringSize, CHAR *pString)
- ULONG GetSerialNumbers (BYTE esnSize, CHAR *pESNString, BYTE imeiSize, CHAR *pIMEIString, BY-TE meidSize, CHAR *pMEIDString)
- ULONG SLQSGetSerialNumbers (serialNumbersInfo *pSerialNumbersInfo)
- ULONG GetHardwareRevision (BYTE stringSize, CHAR *pString)
- ULONG GetNetworkTime (ULONGLONG *pTimeStamp, ULONG *pTimeSource)
- ULONG UIMSetPINProtection (ULONG id, ULONG bEnable, CHAR *pValue, ULONG *pVerifyRetriesLeft, ULONG *pUnblockRetriesLeft)
- ULONG UIMUnblockPIN (ULONG id, CHAR *pPUKValue, CHAR *pNewValue, ULONG *pVerifyRetriesLeft, ULONG *pUnblockRetriesLeft)
- ULONG UIMVerifyPIN (ULONG id, CHAR *pValue, ULONG *pVerifyRetriesLeft, ULONG *pUnblockRetries-Left)
- ULONG UIMChangePIN (ULONG id, CHAR *pOldValue, CHAR *pNewValue, ULONG *pVerifyRetriesLeft, ULONG *pUnblockRetriesLeft)
- ULONG GetVoiceNumber (BYTE voiceNumberSize, CHAR *pVoiceNumber, BYTE minSize, CHAR *pMIN)
- ULONG SetPower (ULONG powerMode)
- ULONG GetPower (ULONG *pPowerMode)
- ULONG UIMGetControlKeyStatus (ULONG id, ULONG *pStatus, ULONG *pVerifyRetriesLeft, ULONG *p-UnblockRetriesLeft)
- ULONG UIMGetICCID (BYTE stringSize, CHAR *pString)

- ULONG UIMGetPINStatus (ULONG id, ULONG *pStatus, ULONG *pVerifyRetriesLeft, ULONG *pUnblockRetriesLeft)
- ULONG GetOfflineReason (ULONG *pReasonMask, ULONG *pbPlatform)
- ULONG UIMSetControlKeyProtection (ULONG id, ULONG status, CHAR *pValue, ULONG *pVerifyRetriesLeft)
- ULONG UIMUnblockControlKey (ULONG id, CHAR *pValue, ULONG *pUnblockRetriesLeft)
- ULONG GetDeviceCapabilities (ULONG *pMaxTXChannelRate, ULONG *pMaxRXChannelRate, ULONG *pDataServiceCapability, ULONG *pSimCapability, ULONG *pRadioIfacesSize, BYTE *pRadioIfaces)
- ULONG ResetToFactoryDefaults (CHAR *pSPC)
- ULONG ValidateSPC (CHAR *pSPC)
- ULONG ActivateAutomatic (CHAR *pActivationCode)
- ULONG SLQSGetERIFile (ERIFileparams *pERIFileparams)
- ULONG GetActivationState (ULONG *pActivationState)
- ULONG SLQSUIMGetState (ULONG *pUIMState)
- ULONG SLQSGetBandCapability (ULONGLONG *pBandCapability)
- ULONG SLQSGetCustFeatures (custFeaturesInfo *pCustFeaturesInfo)
- ULONG SLQSSetCustFeatures (custFeaturesSetting *pCustFeaturesSetting)
- ULONG SLQSGetCurrentPRLInfo (dmsCurrentPRLInfo *pCurrentPRLInfo)
- ULONG SLQSSwiGetFSN (FactorySequenceNumber *pFSNumber)
- ULONG SLQSSwiGetFwUpdateStatus (FirmwareUpdatStat *pFirmwareUpdatStat)
- ULONG SLQSSwiGetUSBComp (USBCompParams *pUSBCompParams)
- ULONG SLQSSwiSetUSBComp (USBCompConfig *pUSBCompConfig)
- ULONG SLQSSwiGetCrashInfo (BYTE *pClear, CrashInfoParams *pCrashInfoParams)
- ULONG SLQSSwiGetCrashAction (BYTE *pDevCrashState)
- ULONG SLQSSwiSetCrashAction (BYTE crashActionParams)
- ULONG SLQSSwiGetHostDevInfo (SLQSSwiGetHostDevInfoParams *pGetHostDevInfoParams)
- ULONG SLQSSwiSetHostDevInfo (SLQSSwiSetHostDevInfoParams *pSetHostDevInfoParams)
- ULONG SLQSSwiGetOSInfo (SLQSSwiGetOSInfoParams *pParams)
- ULONG SLQSSwiSetOSInfo (SLQSSwiSetOSInfoParams *pParams)
- ULONG SLQSSwiGetSerialNoExt (SLQSSwiGetSerialNoExtParams *pParams)
- ULONG SLQSSetCustFeaturesV2 (setCustomSettingV2 *pSetCustSetting)
- ULONG SLQSGetCustFeaturesV2 (getCustomFeatureV2 *pGetCustomFeatureV2)
- ULONG SLQSSwiGetDyingGaspCfg (getDyingGaspCfg *pConfig)
- ULONG SLQSSwiSetDyingGaspCfg (setDyingGaspCfg *pConfig)
- ULONG SLQSSwiGetDyingGaspStatistics (getDyingGaspStatistics *pStatistics)
- ULONG SLQSSwiClearDyingGaspStatistics ()
- ULONG SLQSDmsSwiIndicationRegister (dmsIndicationRegisterReq *pIndicationRegisterReq)
- ULONG SLQSDmsSwiGetResetInfo (dmsSwiGetResetInfo *pGetResetInfoResp)
- ULONG SLQSGetBandCapabilities (BandCapabilityResp *pBandCapability)
- ULONG SLQSDmsSwiGetPCInfo (dmsSwiGetPCInfo *pGetPCInfoResp)
- ULONG SLQSGetPowerSaveModeConfig (PowerSaveModeConfigResp *pPSMConfigParam)
- ULONG SLQSSetPowerSaveModeConfig (PowerSaveModeConfigReq *pPSMConfigParamReq)

9.14.1 Detailed Description

Device Management Service API function prototypes.

9.14.2 Macro Definition Documentation

9.14.2.1 #define MAX_CUST_ID_LEN 64

9.14.2.2 #define MAX_CUST_VALUE_LEN 8

9.14.2.3 #define MAX_DYING_GASP_CFG_SMS_CONTENT_LENGTH 160

9.14.2.4 #define MAX_DYING_GASP_CFG_SMS_NUMBER_LENGTH 20

9.14.2.5 #define MAX_FSN_LENGTH 255

9.14.3 Typedef Documentation

9.14.3.1 typedef struct **custFeaturesInfo custFeaturesInfo**

This structure contains current settings of custom features

Parameters

GpsEnable[OUT]	• describes if GPS is enabled or disabled • values: – 0x00 - GPS is disabled – 0x01 - GPS is enabled • function SLQSGetCustFeatures() returns a default value FFFFFFFF if no value is returned by the modem
pDisableIMSI[OUT]	• optional 1 byte parameter • describes if IMSI display is enabled or disabled • values: – 0x00 - Allow display of IMSI – 0x01 - Do not display IMSI • function SLQSGetCustFeatures() returns a default value FF if no value is returned by the modem
pIPFamSupport[OUT]	• optional 2 byte BitMask • bitmask representing the IP families supported • values: – 0x01 - IPv4 – 0x02 - IPv6 – 0x04 - IPv4v6 • function SLQSGetCustFeatures() returns a default value FFFF if no value is returned by the modem
pRMAutoConnect[OUT]	• optional 1 byte parameter • QMI Mode RM Net Auto Connect Support • values: – 0x00 - Not Supported – 0x01 - Supported • function SLQSGetCustFeatures() returns a default value FF if no value is returned by the modem

pGPSSel[OUT]	• optional 1 byte parameter • GPS Antenna Select • values: – 0x00 - Dedicated GPS Port – 0x01 - GPS Rx over AUX Port – 0x02 - GPS Rx over dedicated GPS port with no bias voltage applied • function SLQSGetCustFeatures() returns a default value FF if no value is returned by the modem
pSMSSupport[-OUT]	• optional 1 byte parameter • SMS support • values: – 0x00 - Not supported – 0x01 - supported • Used to determine whether or not to hide SMS from user • function SLQSGetCustFeatures() returns a default value FF if no value is returned by the modem. In this case assume, SMS is supported.
pIsVoice-Enabled[OUT]	• optional 1 byte parameter • Voice support • values: – 0x00 - Enable voice on both AT and QMI interface (default) – 0x01 - Reserved – 0x02 - Disable voice on both AT and QMI interface
pDHCPRelay-Enabled[OUT]	• optional 1 byte parameter • DHCP Relay support • values: – 0x00 - Disable DHCP relay – 0x01 - Enable DHCP relay
pGPSLPM[OUT]	• optional 1 byte parameter • GPSLPM support • values: – 0x00 - Enable GPS in Low Power Mode – 0x01 - Disable GPS in Low Power Mode

9.14.3.2 typedef struct custFeaturesSetting custFeaturesSetting

This structure contains settings to be used for custom features

Parameters

pGPSSel	• optional 1 byte parameter • GPS Antenna Select • values: – 0x00 - Dedicated GPS Port – 0x01 - GPS Rx over AUX Port – 0x02 - GPS Rx over dedicated GPS port with no bias voltage applied
pGPSEnable	• optional 4 byte parameter • GPS Enable/Disable • values: The value of 7 least significant bits: – 0 - Disabled – 1 - MT & MO enabled – 2 - MO enabled – 3 - MT enabled – 4 - MT & MO enabled if GPS_DISABLE pin is not asserted – 5 - MO GPS enabled if GPS_DISABLE pin is not asserted – 6 - MT GPS enabled if GPS_DISABLE pin is not asserted

Note

Only MC7750 3.5.x firmware supports above 0x04, 0x05 and 0x06 settings. To disable GLONASS, set the most significant bit - 0x80. This setting is only applicable if GPS is not Disabled.

Parameters

pIsVoiceEnabled	• optional 1 byte parameter • voice enabled/disabled • values: – 0 - Enable voice on both AT and QMI interface (default) – 1 - Reserved – 2 - Disable voice on both AT and QMI interface
pDHCPRelay-Enabled	• optional 1 byte parameter • DHCPRELAYENABLE support • values: – 0 - Disable DHCP relay – 1 - Enable DHCP relay
pGPSLPM	• optional 1 byte parameter • GPSLPM support • values: – 0 - Enable GPS in Low Power Mode – 1 - Disable GPS in Low Power Mode

9.14.3.3 typedef struct dmsCurrentPRLInfo dmsCurrentPRLInfo

This structure contains GetCurrentPRLInfo response parameter

Parameters

pPRLVersion[OUT]	- Optional • PRL version of device.
pPRLPreference	[OUT]- Optional • PRL Preference – 0 - Unset – 1 - Set

9.14.3.4 typedef struct ERIFileparams ERIFileparams

This structure contains Extended Roaming Indicator(ERI) file parameters

Parameters

pFileSize[IN/OUT]	• Upon input, the maximum number of bytes that file contents array can contain. • Upon successful output, actual number of bytes written to file contents array
pFile[OUT]	• ERI data read from persistent storage(Max size is 1024)

9.14.3.5 typedef struct serialNumbersInfo serialNumbersInfo

Returns all the serial numbers assigned to the device. These serial numbers include the ESN (Electronic serial number of the device), the IMEI (International Mobile Equipment Identity) and MEID (Mobile Equipment Identifier).

Parameters

esnSize	• The maximum number of characters (including NULL terminator) that the ESN string array can contain
pESNString[OUT]	• NULL-terminated ESN string. Empty string is returned when ESN is not supported/programmed
imeiSize	• The maximum number of characters (including NULL terminator) that the IMEI string array can contain
pIMEIString[OUT]	• NULL terminated IMEI string. Empty string is returned when IMEI is not supported/programmed
meidSize	• The maximum number of characters (including NULL terminator) that the MEID string array can contain

pMEIDString[OUT]	• NULL-terminated MEID string. Empty string is returned when MEID is not supported/programmed
imeiSvnSize	• The maximum number of characters (including NULL terminator) that the IMEI SVN string array can contain.
pImeiSvnString[OUT]	• NULL-terminated IMEI SVN string. Empty string is returned when IMEI SVN is not supported/programmed.

9.14.3.6 typedef struct _SLQSSwiGetHostDevInfoParams SLQSSwiGetHostDevInfoParams

This structure is used to Get Host Device Information

Parameters

bManSize[IN/OUT]	• Host Device Manufacturer String Size
pManString[OUT]	• Host Device Manufacturer Name(Optional parameter) • Null terminated ASCII String
bModelSize[IN/OUT]	• Host Device Model String Size
pModelString[OUT]	• Host Device Model String(Optional parameter) • Null terminated ASCII string.
bSWVerSize[IN/OUT]	• Host Device Software Version String Size
pSWVerString[OUT]	• Host Device Software Version String(Optional parameter) • Null terminated ASCII string
bPlasmaIDSize[IN/OUT]	• Host Device Plasma ID String Size
pPlasmaIDString[OUT]	• Host Device Plasma ID String(Optional parameter) • Null terminated alphanumeric ASCII String.

9.14.3.7 typedef struct _SLQSSwiGetOSInfoParams SLQSSwiGetOSInfoParams

This structure is used to Get OS Information

Parameters

bNameSize[IN/-OUT]	• Size of Operating System Name
pNameString[O-UT]	• Operating System Name(Optional parameter) • Null terminated ASCII string
bVersionSize[I-N/OUT]	• Operating System Version Size
pVersionString[-OUT]	• Operating System Version String(Optional parameter) • Null terminated ASCII string.

9.14.3.8 typedef struct _SLQSSwiGetSerialNoExtParams SLQSSwiGetSerialNoExtParams

This structure is used to store MEID Information

Parameters

meidLength[OU-T]	• String length of the of MEID received
pMeidString[OU-T]	• Optional parameter • Pointer to receive String containing the Mobile Equipment Identifier(MEID) of the device.

9.14.3.9 typedef struct _SLQSSwiSetHostDevInfoParams SLQSSwiSetHostDevInfoParams

This structure is used to Set Host Device Information

Parameters

bManSize[IN]	• Host Device Manufacturer String Size
pManString[IN]	• Host Device Manufacturer Name(Optional parameter) • Null terminated ASCII String
bModelSize[IN]	• Host Device Model String Size
pModelString[IN]	• Host Device Model String(Optional parameter) • Null terminated ASCII string.
bSWVerSize[IN]	• Host Device Software Version String Size

pSWVerString[IN]	• Host Device Software Version String(Optional parameter) • Null terminated ASCII string
bPlasmaIDSize[IN]	• Host Device Plasma ID String Size
pPlasmaIDString[IN]	• Host Device Plasma ID String(Optional parameter) • Null terminated alphanumeric ASCII String.

9.14.3.10 typedef struct _SLQSSwiSetOSInfoParams SLQSSwiSetOSInfoParams

This structure is used to Set OS Information

Parameters

bNameSize[IN]	• Size of Operating System Name
pNameString[IN]	• Operating System Name(Optional parameter) • Null terminated ASCII string
bVersionSize[IN]	• Operating System Version Size
pVersionString[IN]	• Operating System Version String(Optional parameter) • Null terminated ASCII string.

9.14.4 Function Documentation

9.14.4.1 ULONG ActivateAutomatic (CHAR * *pActivationCode*)

Requests the device to perform automatic service activation

Parameters

pActivationCode[IN]	• NULL-terminated string representing activation code (maximum string length of 12); specific carrier requirements may dictate actual activation code that is applicable, e.g., "*22899"

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 Minutes

9.14.4.2 ULONG GetActivationState (ULONG * *pActivationState*)

Returns the device activation state. This API is only supported for 3GPP2 devices.

Parameters

pActivationState[OUT]	• Service Activation Code 0 - Service not activated 1 - Service activated 2 - Activation connecting 3 - Activation connected 4 - OTASP security authenticated 5 - OTASP NAM downloaded 6 - OTASP MDN downloaded 7 - OTASP IMSI downloaded 8 - OTASP PRL downloaded 9 - OTASP SPC downloaded 10 - OTASP settings committed

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 2 Seconds

9.14.4.3 ULONG GetDeviceCapabilities (ULONG * *pMaxTXChannelRate,* ULONG * *pMaxRXChannelRate,* ULONG * *pDataServiceCapability,* ULONG * *pSimCapability,* ULONG * *pRadioIfacesSize,* BYTE * *pRadioIfaces*)

Gets the device capabilities

Parameters

pMaxTXChannelRate[OUT]	• Maximum transmission rate (in bps) supported by the device • In multi-technology devices, this value will be the greatest rate among all supported technologies
pMaxRXChannelRate[OUT]	• Maximum reception rate (in bps) supported by the device • In multi-technology devices, this value will be the greatest rate among all supported technologies

pDataService-Capability[OUT]	• CS/PS data service capability – 0 - No data services supported – 1 - Only Circuit Switched (CS) services supported – 2 - Only Packet Switched (PS) services supported – 3 - Simultaneous CS and PS – 4 - Non-simultaneous CS and PS
pSimCapability[-OUT]	• Device SIM capability – 0 - SIM not supported – 1 - SIM supported
pRadioIfaces-Size[IN/OUT]	• Upon input, the maximum number of elements that the radio interface array can contain • Upon successful output, actual number of elements in the radio interface array
pRadioIfaces[O-UT]	• Radio interface array. This is a structure of array containing the elements below. ULONG radioInterface – See qaGobiApiTableRadioInterfaces.h for Radio Interfaces

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.14.4.4 ULONG GetFirmwareRevision (BYTE *stringSize*, CHAR * *pString*)

Returns the device firmware revision

Parameters

stringSize	• The maximum number of characters (including NULL terminator) that the string array can contain
pString[OUT]	• NULL terminated string

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.14.4.5 ULONG GetFirmwareRevisions (BYTE *amssSize*, CHAR * *pAMSSString*, BYTE *bootSize*, CHAR * *pBootString*, BYTE *priSize*, CHAR * *pPRIString*)

Returns the device firmware revisions (AMSS, boot, and PRI)

Parameters

amssSize	• Maximum number of characters (including NULL terminator) that the AMSS string array can contain
pAMSSString[OUT]	• NULL-terminated AMSS revision string
bootSize	• Maximum number of characters (including NULL terminator) that the boot string array can contain
pBootString[OUT]	• NULL-terminated boot code revision string
priSize	• Maximum number of characters (including NULL terminator) that the PRI string array can contain
pPRIString[OUT]	• NULL-terminated PRI revision string

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.14.4.6 ULONG GetHardwareRevision (BYTE *stringSize*, CHAR * *pString*)

Returns the hardware revision of the device

Parameters

stringSize	• The maximum number of characters (including NULL terminator) that the string array can contain
pString[OUT]	• NULL terminated string

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.14.4.7 ULONG GetIMSI (BYTE *stringSize,* CHAR * *pString*)

Returns the device IMSI. This API is deprecated on MC73xx/EM73xx/WP76xx modules since firmware version SWI9X15C_05_xx_xx_xx, all EM74xx and WP76xx firmware versions. Please use SLQSUIMReadTransparent()(EF ID: 3F00 7F20 6F07 for 2G card and 3F00 7FFF 6F07 for 3G card) instead for new firmware versions and new modules.

Parameters

stringSize	• The maximum number of characters (including NULL terminator) that the string array can contain
pString[OUT]	• NULL terminated string

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.14.4.8 ULONG GetManufacturer (BYTE *stringSize,* CHAR * *pString*)

Returns the device manufacturer name

Parameters

stringSize	• The maximum number of characters (including NULL terminator) that the string array can contain.
pString[OUT]	• NULL terminated string

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.14.4.9 ULONG GetModelID (BYTE *stringSize*, CHAR * *pString*)

Returns the device model ID

Parameters

stringSize	• The maximum number of characters (including NULL terminator) that the string array can contain
pString[OUT]	• NULL terminated string

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.14.4.10 ULONG GetNetworkTime (ULONGLONG * *pTimeStamp*, ULONG * *pTimeSource*)

Returns the current time of the device based on the value supported by the network.

Parameters

pTimeStamp[OUT]	• Count of 1.25 ms that have elapsed from the start of GPS time (Jan 6, 1980)
pTimeSource[OUT]	• Source of timestamp 0 - 32 kHz device clock 1 - CDMA network 2 - cdma2000 1xEV-DO network

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds
The source of the timestamp provided specifies how the timestamp was determined. The first network time that is available will be returned. If no network time is available, the timestamp is taken from the 32 kHz slow-clock of the device.

9.14.4.11 ULONG GetOfflineReason (ULONG * *pReasonMask,* ULONG * *pbPlatform*)

Returns reason why the operating mode of the device is currently offline.

Parameters

pReasonMask[OUT]	• Optional parameter • Bitmask of offline reasons – 0x00000001 - Host image configuration issue – 0x00000002 - PRI image configuration issue – 0x00000004 - PRI version incompatible – 0x00000008 - PRI copy issue – All others - Reserved
pbPlatform[OUT]	• Optional parameter • Is the device offline due to a platform restriction? – 0 - No – 1 - Yes

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.14.4.12 ULONG GetPower (ULONG * *pPowerMode*)

Returns the operating mode of the device.

Parameters

pPowerMode[OUT]	• Selected operating mode – See qaGobiApiTablePowerModes.h for power modes

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.14.4.13 ULONG GetPRLVersion (WORD * *pPRLVersion*)

Returns the version of the active Preferred Roaming List (PRL) in use by the device.

Parameters

pPRLVersion[OUT]	• PRL version number

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.14.4.14 ULONG GetSerialNumbers (BYTE *esnSize*, CHAR * *pESNString*, BYTE *imeiSize*, CHAR * *pIMEIString*, BYTE *meidSize*, CHAR * *pMEIDString*)

Returns all the serial numbers assigned to the device. These serial numbers include the ESN (Electronic serial number of the device), the IMEI (International Mobile Equipment Identity) and MEID (Mobile Equipment Identifier).

Parameters

esnSize	• The maximum number of characters (including NULL terminator) that the ESN string array can contain
pESNString[OUT]	• NULL-terminated ESN string. Empty string is returned when ESN is not supported/programmed
imeiSize	• The maximum number of characters (including NULL terminator) that the IMEI string array can contain
pIMEIString[OUT]	• NULL terminated IMEI string. Empty string is returned when IMEI is not supported/programmed
meidSize	• The maximum number of characters (including NULL terminator) that the MEID string array can contain
pMEIDString[OUT]	• NULL-terminated MEID string. Empty string is returned when MEID is not supported/programmed

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

For CDMA devices that use a RUIM, the MEID of the RUIM (if present) will be returned. Use SLQSSwiGetSerialNoExt() to get MEID of CDMA modems. Timeout: 2 seconds

9.14.4.15 ULONG GetVoiceNumber (BYTE *voiceNumberSize*, CHAR * *pVoiceNumber*, BYTE *minSize*, CHAR * *pMIN*)

Returns the voice number in use by the device

Parameters

voiceNumberSize	• Maximum number of characters (including NULL terminator) that the voice number array can contain.
pVoiceNumber[OUT]	• Voice number string: MDN or MS ISDN

minSize	• Maximum number of characters (including NULL terminator) that the MIN array can contain.
pMIN[OUT]	• Optional Parameter • MIN string: Empty string returned when MIN is not supported/ programmed.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.14.4.16 ULONG ResetToFactoryDefaults (CHAR * *pSPC*)

Resets to default factory settings of the device

Parameters

pSPC[IN]	• NULL-terminated string representing a six-digit service programming code

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 minutes

9.14.4.17 ULONG SetPower (ULONG *powerMode*)

Sets the operating mode of the device.

Parameters

powerMode[IN]	• Selected operating mode – See qaGobiApiTablePowerModes.h for power modes

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.14.4.18 ULONG SLQSDmsSwiGetPCInfo (dmsSwiGetPCInfo * *pGetPCInfoResp*)

This function is used to get the device power control status information

Parameters

pGetPCInfoResp	• See dmsSwiGetPCInfo for more information of the input structure

9.14.4.19 ULONG SLQSDmsSwiGetResetInfo (dmsSwiGetResetInfo * *pGetResetInfoResp*)

This function is used to get reset info

Parameters

pGetResetInfo-Resp	• See dmsSwiGetResetInfo for more information of the input structure

9.14.4.20 ULONG SLQSDmsSwiIndicationRegister (dmsIndicationRegisterReq * *pIndicationRegisterReq*)

This function used to set Swi Indication Register

Parameters

pConfig	• See dmsIndicationRegisterReq for more information of the inpurt structure

9.14.4.21 ULONG SLQSGetBandCapabilities (BandCapabilityResp * *pBandCapability*)

Returns the band capability of the device.

Parameters

pBand-Capability[OUT]	See BandCapabilityResp for more information of the inpurt structure

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.14.4.22 ULONG SLQSGetBandCapability (ULONGLONG * *pBandCapability*)

Returns the band capability of the device.

Parameters

pBand-Capability[OUT]	Bitmask of bands supported by the device • Bit 0 - Band class 0, A-system • Bit 1 - Band class 0, B-system • Bit 2 - Band class 1, all blocks • Bit 3 - Band class 2 • Bit 4 - Band class 3, A-system • Bit 5 - Band class 4, all blocks • Bit 6 - Band class 5, all blocks • Bit 7 - GSM DCS band (1800) • Bit 8 - GSM Extended GSM (E-GSM) band (900) • Bit 9 - GSM Primary GSM (P-GSM) band (900) • Bit 10 - Band class 6 • Bit 11 - Band class 7 • Bit 12 - Band class 8 • Bit 13 - Band class 9 • Bit 14 - Band class 10 • Bit 15 - Band class 11 • Bit 16 - GSM 450 band • Bit 17 - GSM 480 band • Bit 18 - GSM 750 band • Bit 19 - GSM 850 band • Bit 20 - GSM railways GSM band (900) • Bit 21 - GSM PCS band (1900) • Bit 22 - WCDMA (Europe, Japan, and China) 2100 band • Bit 23 - WCDMA US PCS 1900 band • Bit 24 - WCDMA (Europe and China) DCS 1800 band • Bit 25 - WCDMA US 1700 band • Bit 26 - WCDMA US 850 band • Bit 27 - WCDMA Japan 800 band • Bit 28 - Band class 12 • Bit 29 - Band class 14 • Bit 30 - Reserved • Bit 31 - Band class 15 • Bits 32 through 47 - Reserved • Bit 48 - WCDMA Europe 2600 band • Bit 49 - WCDMA Europe and Japan 900 band • Bit 50 - WCDMA Japan 1700 band • Bits 51 through 55 - Reserved • Bit 56 - Band class 16 • Bit 57 - Band class 17 • Bit 58 - Band class 18 • Bit 59 - Band class 19 • Bit 60 - WCDMA Japan 850 band • Bit 61 - WCDMA 1500 band • Bits 62 and 63 - Reserved

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.14.4.23 ULONG SLQSGetCurrentPRLInfo (dmsCurrentPRLInfo * *pCurrentPRLInfo*)

This API get the currently active PRL information of the device.

Parameters

pCurrentPRLInfo	• Pointer to structure dmsCurrentPRLInfo • See dmsCurrentPRLInfo for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 2 Secs

9.14.4.24 ULONG SLQSGetCustFeatures (custFeaturesInfo * *pCustFeaturesInfo*)

This API fetches the current settings of custom features. This API is deprecated for EM74xx/MC74xx, please use SLQSGetCustFeaturesV2() instead for EM74xx/MC74xx.

Parameters

pCustFeatures-Info	• Structure containing settings of custom features. • See custFeaturesInfo for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Secs

9.14.4.25 ULONG SLQSGetCustFeaturesV2 (getCustomFeatureV2 * *pGetCustomFeatureV2*)

This function queries the modem for a list of supported features. This function is for firmware version 2.0 and newer. Currently supported Customization features:

- GPIOSARENABLE
- GPSSEL
- IMSWITCHHIDE
- IPV6ENABLE
- WAKEHOSTEN

Parameters

pGetCustomFeatureV2	• See getCustomFeatureV2 for more information of the inpurt structure

9.14.4.26 ULONG SLQSGetERIFile (ERIFileparams * *pERIFileparams*)

Returns the Extended Roaming Indicator (ERI) file that is stored in EFS on the device at a predetermined location. See the carrier requirements for specific details.

Parameters

pERIFileparams	• Pointer to structure ERIFileparams • See ERIFileparams for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 5 Seconds

9.14.4.27 ULONG SLQSGetPowerSaveModeConfig (PowerSaveModeConfigResp * *pPSMConfigParam*)

Returns the Power Save Mode (PSM) configuration parameters..

Parameters

pPSMConfig-Param[OUT]	See PowerSaveModeConfigResp for more information of the input structure

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.14.4.28 ULONG SLQSGetSerialNumbers (serialNumbersInfo * *pSerialNumbersInfo*)

Returns all the serial numbers assigned to the device. These serial numbers include the ESN (Electronic serial number of the device), the IMEI (International Mobile Equipment Identity), MEID (Mobile Equipment Identifier) and IMEI SVN (IMEI software version number).

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

For CDMA devices that use a RUIM, the MEID of the RUIM (if present) will be returned. Use SLQSSwiGet-SerialNoExt() to get MEID of CDMA modems. Timeout: 2 seconds

9.14.4.29 ULONG SLQSSetCustFeatures (custFeaturesSetting * *pCustFeaturesSetting*)

This API changes the settings of custom features, a reset is required for any settings that are changed to take effect. This API is deprecated for EM74xx/MC74xx, please use SLQSSetCustFeaturesV2() for EM74xx/MC74xx.

Parameters

pCustFeatures-Setting[IN]	• Structure containing settings of custom features. • See custFeaturesSetting for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Secs

9.14.4.30 ULONG SLQSSetCustFeaturesV2 (setCustomSettingV2 * *pSetCustSetting*)

This function sets the modem for a list of supported features. This function is for firmware version 2.0 and newer. Currently supported customization features:

- GPIOSARENABLE
- GPSENABLE
- GPSSEL
- ISVOICEEN
- DHCPRELAYENABLE
- GPSLPM
- SUBNETMSKENABLE
- IMSWITCHHIDE
- IPV6ENABLE
- WAKEHOSTEN
- IPCHANNELRATEEN
- Other Custom Settings

Parameters

pSetCustSetting	• Optional parameter • See setCustomSettingV2 for more information

9.14.4.31 ULONG SLQSSetPowerSaveModeConfig (PowerSaveModeConfigReq * *pPSMConfigParamReq*)

Sets the Power Save Mode (PSM) configuration parameters.

Parameters

pPSMConfig-Param[OUT]	See PowerSaveModeConfigResp for more information of the input structure

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.14.4.32 ULONG SLQSSwiClearDyingGaspStatistics ( )

This function Clear Dying GASP Statistics.

9.14.4.33 ULONG SLQSSwiGetCrashAction (BYTE * *pDevCrashState*)

This API queries the Crash State from the device.

Parameters

pDevCrash-State[OUT]	• Device Crash State • Values: – 0 - USB Memory Download Modem will reset after a crash and will stay in USB download mode with only ttyUSB0 enumerated. ramdump tool is to be used to recover the crash dump. Modem needs to be reset again to come back in ONLINE mode. – 1 - Reset Modem will reset and come back in ONLINE mode. Minimal crash data will be available and can be extracted with at!gcdump? AT command or SLQSSwiGetCrashInfo() SDK API – 2 - No action

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: NA
Please free two buffers after get crash report successfully

1. pCrashInfoParams->pCrashInfo->pCrashString
2. pCrashInfoParams->pCrashInfo->pGCDumpString Timeout: 5 Secs

9.14.4.34 ULONG SLQSSwiGetCrashInfo (BYTE * *pClear,* CrashInfoParams * *pCrashInfoParams*)

This API queries the Crash Information from the device.

Parameters

pClear[IN]	• request parameter Clear(Optional parameter) • Values: 0 - Do not clear crash data after response 1 - Clear crash data after response
pCrashInfo-Params[Out]	• Pointer to structure CrashInfoParams • See CrashInfoParams for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: NA
Timeout: 5 Secs

9.14.4.35 ULONG SLQSSwiGetDyingGaspCfg (getDyingGaspCfg * *pConfig*)

This function queries Dying GASP Config.

Parameters

pGetCustom-FeatureV2	• See getDyingGaspCfg for more information of the inpurt structure *

9.14.4.36 ULONG SLQSSwiGetDyingGaspStatistics (getDyingGaspStatistics * *pStatistics*)

This function queries Dying GASP Statistics.

Parameters

pStatistics	• See getDyingGaspStatistics for more information of the inpurt structure *

9.14.4.37 ULONG SLQSSwiGetFSN (FactorySequenceNumber * *pFSNumber*)

This API get the Factory Sequence Number of the device.

Parameters

pFSNumber	• Pointer to structure FactorySequenceNumber • See FactorySequenceNumber for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 5 Secs

9.14.4.38 ULONG SLQSSwiGetFwUpdateStatus (FirmwareUpdatStat * *pFirmwareUpdatStat*)

This API will be used to query last firmware update status. The firmware status is stored in RAM and can be retained over warm resets but not power off resets.

Parameters

pFirmware-UpdatStat	• Pointer to structure FirmwareUpdatStat • See FirmwareUpdatStat for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: NA
Device Supported: MC73xx
Timeout: 5 Secs

9.14.4.39 ULONG SLQSSwiGetHostDevInfo (SLQSSwiGetHostDevInfoParams * *pGetHostDevInfoParams*)

This API Get Host Information from the device.

Parameters

pGetHostDev-InfoParams	• See SLQSSwiGetHostDevInfoParams for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: NA
Timeout: 2 Secs

9.14.4.40 ULONG SLQSSwiGetOSInfo (SLQSSwiGetOSInfoParams * *pParams*)

This API queries the device operating system info configured on the modem for OMA-DM reporting

Parameters

pParams	• - See SLQSSwiGetOSInfoParams for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: NA
Timeout: 2 Secs

9.14.4.41 ULONG SLQSSwiGetSerialNoExt (SLQSSwiGetSerialNoExtParams * *pParams*)

This API is used to get the MEID of the modem. For CDMA devices that use a RUIM, the MEID of the modem will always be returned.

Parameters

SLQSSwiGet-SerialNoExt-Params	

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: NA
Timeout: 5 Secs

9.14.4.42 ULONG SLQSSwiGetUSBComp (USBCompParams * *pUSBCompParams*)

This API queries the modem's USB interface configuration and supported configuration parameters.

Parameters

pUSBCompParams	• Pointer to structure USBCompParams • See USBCompParams for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: NA
Timeout: 5 Secs

9.14.4.43 ULONG SLQSSwiSetCrashAction (BYTE *crashActionParams*)

This API set the Crash Action to the device.

Parameters

crashActionParams[IN]	• Crash Action • Values: – 0 - USB Memory Download Modem will reset after a crash and will stay in USB download mode with only ttyUSB0 enumerated. ramdump tool is to be used to recover the crash dump. Modem needs to be reset again to come back in ONLINE mode. – 1 - Reset Modem will reset and come back in ONLINE mode. Minimal crash data will be available and can be extracted with at!gcdump? AT command or SLQSSwiGetCrashInfo() SDK API – 2 - No action

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: NA
Timeout: 5 Secs

9.14.4.44 ULONG SLQSSwiSetDyingGaspCfg (setDyingGaspCfg * *pConfig*)

This function set Dying GASP Config.

Parameters

pConfig	• See setDyingGaspCfg for more information of the inpurt structure

9.14.4.45 ULONG SLQSSwiSetHostDevInfo (SLQSSwiSetHostDevInfoParams * *pSetHostDevInfoParams*)

This API Sets the host device info configured on the modem for OMA-DM reporting

Parameters

pSetHostDev-InfoParams	• See SLQSSwiSetHostDevInfoParams for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: NA
Timeout: 2 Secs

9.14.4.46 ULONG SLQSSwiSetOSInfo (SLQSSwiSetOSInfoParams * *pParams*)

This API Set OS Information to the device.

Parameters

pParams	• See SLQSSwiSetOSInfoParams for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: NA
Timeout: 2 Secs

9.14.4.47 ULONG SLQSSwiSetUSBComp (USBCompConfig * *pUSBCompConfig*)

This API is used to change the modem's USB interface configuration thus allowing a device to have multiple USB compositions. Devices will, by default, be configured to support a minimal set of interfaces to reduce end user modem installation time. Developers and some customers, however, require access to a custom set of interfaces. A reset is required for any change in the USB composition to take effect.

Parameters

pUSBCompConfig	• Pointer to structure USBCompConfig • See USBCompConfig for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: NA
Timeout: 5 Secs

9.14.4.48 ULONG SLQSUIMGetState (ULONG * *pUIMState*)

Returns the UIM state. This API is deprecated on MC73xx/EM73xx/WP76xx modules since firmware version SWI9X15C_05_xx_xx_xx, all EM74xx and WP76xx firmware versions. Please use API SLQSUIMGetCardStatus() for new firmware versions and new modules

Parameters

pUIMState[OUT]	• UIM state: – 0x00 - UIM initialization completed – 0x01 - UIM locked or failed – 0x02 - UIM not present – 0x03 - 0xFE - Reserved – 0xFF - UIM state currently unavailable

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.14.4.49 ULONG UIMChangePIN (ULONG *id*, CHAR * *pOldValue*, CHAR * *pNewValue*, ULONG * *pVerifyRetriesLeft*, ULONG * *pUnblockRetriesLeft*)

Changes the PIN value for a given PIN. This API is deprecated on MC73xx/EM73xx/WP76xx modules since firmware version SWI9X15C_05_xx_xx_xx, all EM74xx and WP76xx firmware versions. Please use API SLQSUIMChangePin() for new firmware versions and new modules

Parameters

id[IN]	• PIN ID – 1 (PIN1 / CHV1) – 2 (PIN2 / CHV2)
pOldValue[IN]	• Old PIN value of PIN to change
pNewValue[IN]	• New PIN value of PIN to change
pVerifyRetriesLeft[OUT]	• Optional Parameter • Upon operational failure, this will indicate number of retries left, after which PIN will be blocked. – 0xFFFFFFFF - Unknown
pUnblockRetriesLeft[OUT]	• Optional Parameter • Upon operational failure, this will indicate number of unblock retries left, after which the PIN will be permanently blocked; i.e. UIM is unusable. – 0xFFFFFFFF - Unknown

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.14.4.50 ULONG UIMGetControlKeyStatus (ULONG *id*, ULONG * *pStatus*, ULONG * *pVerifyRetriesLeft*, ULONG * *pUnblockRetriesLeft*)

Returns the status of the specified UIM facility control key. This API is deprecated on MC73xx/EM73xx/WP76xx modules since firmware version SWI9X15C_05_xx_xx_xx, all EM74xx and WP76xx firmware versions. Pleaes use SLQSUIMGetConfiguration instead for new firmware versions and new modules.

Parameters

id[IN]	• Facility ID – 0 - Network Personalization (PN) – 1 - Network Subset Personalization (PU) – 2 - Service Provider Personalization (PP) – 3 - Corporate Personalization (PC) – 4 - UIM Personalization (PF)
pStatus[OUT]	• Control key status – 0 - Deactivated – 1 - Activated – 2 - Blocked
pVerifyRetries-Left[OUT]	• The number of retries left, after which the control key will be blocked – 0xFFFFFFFF - Unknown
pUnblock-RetriesLeft[OUT]	• The number of unblock retries left, after which the control key will be permanently blocked – 0xFFFFFFFF - Unknown

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.14.4.51 ULONG UIMGetICCID (BYTE *stringSize*, CHAR * *pString*)

Returns the UIM ICCID. This API is deprecated on MC73xx/EM73xx/WP76xx modules since firmware version SWI9X15C_05_xx_xx_xx, all EM74xx and WP76xx firmware versions. Please use SLQSUIMReadTransparent()(EF ID: 3F00 2FE2) instead for new firmware versions and new modules.

Parameters

stringSize	• The maximum number of characters (including NULL terminator) that the string array can contain.
pString[OUT]	• NULL terminated string

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.14.4.52 ULONG UIMGetPINStatus (ULONG *id*, ULONG * *pStatus*, ULONG * *pVerifyRetriesLeft*, ULONG * *pUnblockRetriesLeft*)

Gets the status of the SIM PINs. This API is deprecated on MC73xx/EM73xx/WP76xx modules since firmware version SWI9X15C_05_xx_xx_xx, all EM74xx and WP76xx firmware versions. Please use API SLQSUIMGetCardStatus() for new firmware versions and new modules

Parameters

id	• PIN ID – 1 (PIN1 / CHV1) – 2 (PIN2 / CHV2)
pStatus[OUT]	• PIN status(0xFFFFFFFF - Unknown) – 0 - PIN not initialized – 1 - PIN enabled, not verified – 2 - PIN enabled, verified – 3 - PIN disabled – 4 - PIN blocked – 5 - PIN permanently blocked
pVerifyRetriesLeft[OUT]	• Upon operational failure, this will indicate number of retries left, after which PIN will be blocked. – 0xFFFFFFFF - Unknown
pUnblockRetriesLeft[OUT]	• Upon operational failure, this will indicate number of unblock retries left, after which the PIN will be permanently blocked; i.e., UIM is unusable. – 0xFFFFFFFF - Unknown

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.14.4.53 ULONG UIMSetControlKeyProtection (ULONG *id*, ULONG *status*, CHAR * *pValue*, ULONG * *pVerifyRetriesLeft*)

Changes the specified UIM facility control key. This API is deprecated on MC73xx/EM73xx/WP76xx modules since firmware version SWI9X15C_05_xx_xx_xx, all EM74xx and WP76xx firmware versions. Please use API SLQSUIMDepersonalization() for new firmware versions and new modules

Parameters

id[IN]	• Facility ID – 0 - Network Personalization (PN) – 1 - Network Subset Personalization (PU) – 2 - Service Provider Personalization (PP) – 3 - Corporate Personalization (PC) – 4 - UIM Personalization (PF)
status[IN]	• Control key status – 0 - Deactivated – 1 - Activated – 2 - Blocked
pValue[IN]	• Control key de-personalization string (maximum length of 8 characters)
pVerifyRetriesLeft[OUT]	• Optional parameter • Upon operational failure, this will indicate number of retries left, after which the control key will be blocked – 0xFFFFFFFF - Unknown

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.14.4.54 ULONG UIMSetPINProtection (ULONG *id*, ULONG *bEnable*, CHAR * *pValue*, ULONG * *pVerifyRetriesLeft*, ULONG * *pUnblockRetriesLeft*)

Enables or disables protection of SIM contents for a given PIN, This API is deprecated on MC73xx/EM73xx/WP76xx modules since firmware version SWI9X15C_05_xx_xx_xx, all EM74xx and WP76xx firmware versions. Please use API SLQSUIMSetPinProtection() for new firmware versions and new modules

Parameters

id[IN]	• PIN ID – 1 (PIN1 / CHV1) – 2 (PIN2 / CHV2)
bEnable[IN]	• Enable/disable PIN protection, 0 = Disable
pValue[IN]	• PIN value of the PIN to be enabled/disabled
pVerifyRetries-Left[OUT]	• Optional parameter • Upon operational failure, this will indicate number of retries left, after which PIN will be blocked. – 0xFFFFFFFF - Unknown
pUnblock-RetriesLeft[OUT]	• Optional parameter • Upon operational failure, this will indicate number of unblock retries left, after which the PIN will be permanently blocked i.e. UIM is unusable. – 0xFFFFFFFF - Unknown

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.14.4.55 ULONG UIMUnblockControlKey (ULONG *id*, CHAR * *pValue*, ULONG * *pUnblockRetriesLeft*)

Unblocks the specified UIM facility control key. This API is deprecated on MC73xx/EM73xx/WP76xx modules since firmware version SWI9X15C_05_xx_xx_xx, all EM74xx and WP76xx firmware versions. Please use API SLQSUIMDepersonalization() for new firmware versions and new modules

Parameters

id[IN]	• Facility ID – 0 - Network Personalization (PN) – 1 - Network Subset Personalization (PU) – 2 - Service Provider Personalization (PP) – 3 - Corporate Personalization (PC) – 4 - UIM Personalization (PF)

pValue[IN]	• Control key de-personalization string (maximum length of 8 characters)
pUnblock-RetriesLeft[OUT]	• Optional parameter • Upon operational failure, this will indicate number of unblock retries left, after which the control key will be blocked – 0xFFFFFFFF - Unknown

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.14.4.56 ULONG UIMUnblockPIN (ULONG *id*, CHAR * *pPUKValue*, CHAR * *pNewValue*, ULONG * *pVerifyRetriesLeft*, ULONG * *pUnblockRetriesLeft*)

Unblocks a blocked SIM. This API is deprecated on MC73xx/EM73xx/WP76xx modules since firmware version SW-I9X15C_05_xx_xx_xx, all EM74xx and WP76xx firmware versions. Please use API SLQSUIMUnblockPin() for new firmware versions and new modules

Parameters

id[IN]	• PIN ID – 1 (PIN1 / CHV1) – 2 (PIN2 / CHV2)
pPUKValue[IN]	• PUK value of PIN to unblock
pNewValue[IN]	• New PIN value of PIN to unblock
pVerifyRetries-Left[OUT]	• Optional Parameter • Upon operational failure, this will indicate number of retries left, after which the PIN will be blocked. – 0xFFFFFFFF - Unknown
pUnblock-RetriesLeft[OUT]	• Optional Parameter • Upon operational failure, this will indicate number of unblock retries left, after which the PIN will be permanently blocked; i.e. UIM is unusable – 0xFFFFFFFF - Unknown

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.14.4.57 ULONG UIMVerifyPIN (ULONG *id*, CHAR * *pValue*, ULONG * *pVerifyRetriesLeft*, ULONG * *pUnblockRetriesLeft*)

Verifies a SIM PIN. This API is deprecated on MC73xx/EM73xx/WP76xx modules since firmware version SWI9-X15C_05_xx_xx_xx, all EM74xx and WP76xx firmware versions. Please use API SLQSUIMVerifyPin()() for new firmware versions and new modules

Parameters

id[IN]	• PIN ID – 1 (PIN1 / CHV1) – 2 (PIN2 / CHV2)
pValue[IN]	• Value of PIN to verify
pVerifyRetries-Left[OUT]	• Optional Parameter • Upon operational failure, this will indicate number of retries left, after which the PIN will be blocked. – 0xFFFFFFFF - Unknown
pUnblock-RetriesLeft[OUT]	• Optional Parameter • Upon operational failure, this will indicate number of unblock retries left, after which the PIN will be permanently blocked; i.e. UIM is unusable – 0xFFFFFFFF - Unknown

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.14.4.58 ULONG ValidateSPC (CHAR * *pSPC*)

This function Validates Service Programming code of the device

Parameters

pSPC[IN]	• NULL-terminated string representing a six-digit service programming code

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Device Supported: MC83x5, MC7750
Timeout: 2 seconds

9.15 qaGobiApiFms.h File Reference

Firmware Management Service API function prototypes.

Data Structures

- struct fwinfo_s
- struct slqsfwinfo_s
- struct qmifwinfo_s
- struct ImageElement
- struct PrefImageList
- struct ImageIdElement
- struct ImageIDEntries
- struct ImageList
- struct sGetDeviceSeriesResult
- struct SWI_STRUCT_CarrierImage
- struct CurrImageInfo
- struct CurrentImgList

Macros

- #define SLQSFWINFO_MODELID_SZ 20
- #define SLQSFWINFO_BOOTVERSION_SZ 85
- #define SLQSFWINFO_APPVERSION_SZ 85
- #define SLQSFWINFO_SKU_SZ 15
- #define SLQSFWINFO_PACKAGEID_SZ 85
- #define SLQSFWINFO_CARRIER_SZ 20
- #define SLQSFWINFO_PRIVERSION_SZ 16
- #define SLQSFWINFO_CUR_CARR_NAME 17

- #define SLQSFWINFO_CUR_CARR_REV 13
- #define GOBI_MBN_IMG_ID_STR_LEN 16
- #define GOBI_MBN_BUILD_ID_STR_LEN 100
- #define GOBI_LISTENTRIES_MAX 2
- #define GOBI_SET_IMG_PREF_RSPLEN 40
- #define DEVICE_SHUTDOWN 5
- #define DEVICE_RESET 4
- #define DEVICE_OFFLINE 3
- #define FIRMWARE_UPDATE_SUCCESS 0x01
- #define FIRMWARE_UPDATE_FAIL 0x01
- #define PRI_UPDATE_FAIL 0x02
- #define FIRMWARE_UPGRADE_SUCCESS 0x00
- #define IMG_ID_LEN 16
- #define BUILD_ID_LEN 100
- #define G3K_FIRMWARE_DOWNLOAD 1
- #define SPKG_FIRMWARE_DOWNLOAD 2
- #define UNIQUE_ID_LEN 16
- #define BUILD_ID_MAX_LEN 255
- #define IMGDETAILS_LEN 16
- #define MAX_IMAGE_IDE_ELEMENTS 50

Enumerations

- enum eGobiImageTech {
  eGOBI_IMG_TECH_CDMA = 0,
  eGOBI_IMG_TECH_UMTS }
- enum eGobiImageCarrier {

eGOBI_IMG_CAR_GENERIC = 1,
eGOBI_IMG_CAR_FACTORY,
eGOBI_IMG_CAR_NORF,
eGOBI_IMG_CAR_VERIZON = 101,
eGOBI_IMG_CAR_SPRINT,
eGOBI_IMG_CAR_ALLTEL,
eGOBI_IMG_CAR_BELL,
eGOBI_IMG_CAR_TELUS,
eGOBI_IMG_CAR_US,
eGOBI_IMG_CAR_TELSTRA1,
eGOBI_IMG_CAR_CHINA_UNICOM,
eGOBI_IMG_CAR_TELCOM_NZ,
eGOBI_IMG_CAR_SK_TELCOM1,
eGOBI_IMG_CAR_RELIANCE1,
eGOBI_IMG_CAR_TATA,
eGOBI_IMG_CAR_METROPCS,
eGOBI_IMG_CAR_LEAP,
eGOBI_IMG_CAR_KDDI,
eGOBI_IMG_CAR_IUSACELL,
eGOBI_IMG_CAR_CHINA_TELECOM,
eGOBI_IMG_CAR_OMH,
eGOBI_IMG_CAR_GENERIC_CDMA,
eGOBI_IMG_CAR_ATT = 201,
eGOBI_IMG_CAR_VODAFONE,
eGOBI_IMG_CAR_TMOBILE,
eGOBI_IMG_CAR_ORANGE,
eGOBI_IMG_CAR_TELEFONICA,
eGOBI_IMG_CAR_TELCOM_ITALIA,
eGOBI_IMG_CAR_3,
eGOBI_IMG_CAR_O2,
eGOBI_IMG_CAR_SFR,
eGOBI_IMG_CAR_SWISSCOM,
eGOBI_IMG_CAR_CHINA_MOBILE,
eGOBI_IMG_CAR_TELSTRA2,
eGOBI_IMG_CAR_SINGTEL_OPTUS,
eGOBI_IMG_CAR_RELIANCE2,
eGOBI_IMG_CAR_BHARTI,
eGOBI_IMG_CAR_NTT_DOCOMO,
eGOBI_IMG_CAR_EMOBILE,
eGOBI_IMG_CAR_SOFTBANK,
eGOBI_IMG_CAR_KT_FREETEL,
eGOBI_IMG_CAR_SK_TELCOM2,
eGOBI_IMG_CAR_TELENOR,
eGOBI_IMG_CAR_NETCOM,
eGOBI_IMG_CAR_TELIASONERA,
eGOBI_IMG_CAR_AMX_TELCEL,
eGOBI_IMG_CAR_BRASIL_VIVO,
eGOBI_IMG_CAR_AERIS,
eGOBI_IMG_CAR_ROGERS }

- enum eGobiImageRegion {
  eGOBI_IMG_REG_NA = 0,
  eGOBI_IMG_REG_LA,
  eGOBI_IMG_REG_EU,
  eGOBI_IMG_REG_ASIA,
  eGOBI_IMG_REG_AUS,
  eGOBI_IMG_REG_GLOBAL }

- enum eGobiImageGPS {

eGOBI_IMG_GPS_NONE = 0,
eGOBI_IMG_GPS_STAND_ALONE,
eGOBI_IMG_GPS_ASSISTED,
eGOBI_IMG_GPS_NO_XTRA }

- enum eGobiDeviceSeries {
  eGOBI_DEV_SERIES_UNKNOWN = -1,
  eGOBI_DEV_SERIES_NON_GOBI = 0,
  eGOBI_DEV_SERIES_G3K,
  eGOBI_DEV_SERIES_SIERRA_GOBI,
  eGOBI_DEV_SERIES_9X15,
  eGOBI_DEV_SERIES_9X30,
  eGOBI_DEV_SERIES_9X07_9X50,
  eGobi_DEV_SERIES_MC83 }

Functions

- ULONG GetImageStore (WORD imageStorePathSize, CHAR *pImageStorePath)
- ULONG SLQSGetFirmwareInfo (struct qmifwinfo_s *pinfo)
- ULONG SLQSGetImageInfoMC77xx (LPCSTR path, struct qmifwinfo_s *pinfo)
- ULONG SLQSGetImageInfoMC83xx (LPCSTR path, struct qmifwinfo_s *pinfo)
- ULONG SLQSGetImageInfo (LPCSTR path, struct qmifwinfo_s *pinfo)
- ULONG UpgradeFirmware2k (CHAR *pDestinationPath)
- ULONG GetImagesPreference (ULONG *pImageListSize, struct PrefImageList *pImageList)
- ULONG SetImagesPreference (ULONG imageListSize, BYTE *pImageList, ULONG bForceDownload, BYTE modemIndex, ULONG *pImageTypesSize, BYTE *pImageTypes)
- ULONG GetStoredImages (ULONG *pImageListSize, BYTE *pImageList)
- ULONG DeleteStoredImage (ULONG imageInfoSize, BYTE *pImageInfo)
- ULONG SLQSGetImageInfo_9x15 (LPCSTR path, BYTE imgType, struct slqsfwinfo_s *pinfo)
- ULONG SLQSUpgradeFirmware9x07 (CHAR *pDestinationPath)
- ULONG SLQSUpgradeFirmware9x15 (CHAR *pDestinationPath)
- ULONG SLQSGetBootVersionNumber (ULONG *bootversion)
- BOOL SLQSIsSpkgFormatRequired (void)
- void SLQSSetSpkgFormatRequired (BYTE isneeded)
- ULONG upgrade_mc77xx_fw (LPCSTR path)
- void eGetDeviceSeries (struct sGetDeviceSeriesResult *)
- ULONG SLQSSwiGetAllCarrierImages (ULONG *pNumOfItems, struct SWI_STRUCT_CarrierImage *pCarrierImages, char *pFolderPath)
- ULONG DownloadToSlot (CHAR *path, struct slqsfwinfo_s fwImgInfo, struct slqsfwinfo_s priImgInfo, BYTE slot, BYTE forceDownload)
- ULONG SLQSDownloadFirmwareToSlot (CHAR *pPath, BYTE slot_index, BYTE force_download)
- ULONG SLQSGetValidFwPriCombinations (struct ImageList *pStoredImageList, ULONG *pValidCombinationSize, struct SWI_STRUCT_CarrierImage *pValidCombinations)
- ULONG SLQSSetSIMBasedImageSwitching (void)
- void SLQSSetCrashStateCheckIgnore (BOOL ignore)
- ULONG SLQSSwiGetFirmwareCurr (CurrentImgList *pCurrentImgList)
- ULONG upgrade_9x07_9x50_fw (LPCSTR path)
- ULONG SetImagePath (CHAR *path, ULONG isMDM9x15, WORD imgMask, BYTE mdmProtocol)

9.15.1 Detailed Description

Firmware Management Service API function prototypes.

9.15.2 Macro Definition Documentation

9.15.2.1 #define BUILD_ID_LEN 100

9.15.2.2 #define BUILD_ID_MAX_LEN 255

9.15.2.3 #define DEVICE_OFFLINE 3

9.15.2.4 #define DEVICE_RESET 4

9.15.2.5 #define DEVICE_SHUTDOWN 5

9.15.2.6 #define FIRMWARE_UPDATE_FAIL 0x01

9.15.2.7 #define FIRMWARE_UPDATE_SUCCESS 0x01

9.15.2.8 #define FIRMWARE_UPGRADE_SUCCESS 0x00

9.15.2.9 #define G3K_FIRMWARE_DOWNLOAD 1

9.15.2.10 #define GOBI_LISTENTRIES_MAX 2

9.15.2.11 #define GOBI_MBN_BUILD_ID_STR_LEN 100

9.15.2.12 #define GOBI_MBN_IMG_ID_STR_LEN 16

9.15.2.13 #define GOBI_SET_IMG_PREF_RSPLEN 40

9.15.2.14 #define IMG_ID_LEN 16

9.15.2.15 #define IMGDETAILS_LEN 16

9.15.2.16 #define MAX_IMAGE_IDE_ELEMENTS 50

9.15.2.17 #define PRI_UPDATE_FAIL 0x02

9.15.2.18 #define SLQSFWINFO_APPVERSION_SZ 85

9.15.2.19 #define SLQSFWINFO_BOOTVERSION_SZ 85

9.15.2.20 #define SLQSFWINFO_CARRIER_SZ 20

9.15.2.21 #define SLQSFWINFO_CUR_CARR_NAME 17

9.15.2.22 #define SLQSFWINFO_CUR_CARR_REV 13

9.15.2.23 #define SLQSFWINFO_MODELID_SZ 20

9.15.2.24 #define SLQSFWINFO_PACKAGEID_SZ 85

9.15.2.25 #define SLQSFWINFO_PRIVERSION_SZ 16

9.15.2.26 #define SLQSFWINFO_SKU_SZ 15

9.15.2.27 #define SPKG_FIRMWARE_DOWNLOAD 2

9.15.2.28 #define UNIQUE_ID_LEN 16

9.15.3 Enumeration Type Documentation

9.15.3.1 enum eGobiDeviceSeries

enumeration which lists the Device Series

Enumerator

eGOBI_DEV_SERIES_UNKNOWN
eGOBI_DEV_SERIES_NON_GOBI
eGOBI_DEV_SERIES_G3K
eGOBI_DEV_SERIES_SIERRA_GOBI
eGOBI_DEV_SERIES_9X15
eGOBI_DEV_SERIES_9X30
eGOBI_DEV_SERIES_9X07_9X50
eGobi_DEV_SERIES_MC83

9.15.3.2 enum eGobiImageCarrier

enumeration which lists the carrier supported by the image

Enumerator

eGOBI_IMG_CAR_GENERIC
eGOBI_IMG_CAR_FACTORY
eGOBI_IMG_CAR_NORF
eGOBI_IMG_CAR_VERIZON
eGOBI_IMG_CAR_SPRINT
eGOBI_IMG_CAR_ALLTEL
eGOBI_IMG_CAR_BELL
eGOBI_IMG_CAR_TELUS
eGOBI_IMG_CAR_US
eGOBI_IMG_CAR_TELSTRA1
eGOBI_IMG_CAR_CHINA_UNICOM
eGOBI_IMG_CAR_TELCOM_NZ
eGOBI_IMG_CAR_SK_TELCOM1
eGOBI_IMG_CAR_RELIANCE1
eGOBI_IMG_CAR_TATA
eGOBI_IMG_CAR_METROPCS
eGOBI_IMG_CAR_LEAP
eGOBI_IMG_CAR_KDDI
eGOBI_IMG_CAR_IUSACELL
eGOBI_IMG_CAR_CHINA_TELECOM
eGOBI_IMG_CAR_OMH
eGOBI_IMG_CAR_GENERIC_CDMA
eGOBI_IMG_CAR_ATT
eGOBI_IMG_CAR_VODAFONE

eGOBI_IMG_CAR_TMOBILE
eGOBI_IMG_CAR_ORANGE
eGOBI_IMG_CAR_TELEFONICA
eGOBI_IMG_CAR_TELCOM_ITALIA
eGOBI_IMG_CAR_3
eGOBI_IMG_CAR_O2
eGOBI_IMG_CAR_SFR
eGOBI_IMG_CAR_SWISSCOM
eGOBI_IMG_CAR_CHINA_MOBILE
eGOBI_IMG_CAR_TELSTRA2
eGOBI_IMG_CAR_SINGTEL_OPTUS
eGOBI_IMG_CAR_RELIANCE2
eGOBI_IMG_CAR_BHARTI
eGOBI_IMG_CAR_NTT_DOCOMO
eGOBI_IMG_CAR_EMOBILE
eGOBI_IMG_CAR_SOFTBANK
eGOBI_IMG_CAR_KT_FREETEL
eGOBI_IMG_CAR_SK_TELCOM2
eGOBI_IMG_CAR_TELENOR
eGOBI_IMG_CAR_NETCOM
eGOBI_IMG_CAR_TELIASONERA
eGOBI_IMG_CAR_AMX_TELCEL
eGOBI_IMG_CAR_BRASIL_VIVO
eGOBI_IMG_CAR_AERIS
eGOBI_IMG_CAR_ROGERS

9.15.3.3 enum eGobiImageGPS

enumeration which lists the GPS type supported by the image

Enumerator

eGOBI_IMG_GPS_NONE
eGOBI_IMG_GPS_STAND_ALONE
eGOBI_IMG_GPS_ASSISTED
eGOBI_IMG_GPS_NO_XTRA

9.15.3.4 enum eGobiImageRegion

enumeration which lists the region supported by the image

Enumerator

eGOBI_IMG_REG_NA
eGOBI_IMG_REG_LA
eGOBI_IMG_REG_EU
eGOBI_IMG_REG_ASIA
eGOBI_IMG_REG_AUS
eGOBI_IMG_REG_GLOBAL

9.15.3.5 enum eGobiImageTech

enumeration which lists the technology supported by the image

Enumerator

eGOBI_IMG_TECH_CDMA

eGOBI_IMG_TECH_UMTS

9.15.4 Function Documentation

9.15.4.1 ULONG DeleteStoredImage (ULONG *imageInfoSize,* BYTE * *pImageInfo*)

Used to delete the specified image from the device. This API function is only relevant to devices with the ability to store multiple firmware images(see Device Supported section below).

Parameters

imageInfoSize[IN]	• The size in BYTEs of the image info array
pImageInfo[IN]	• The image info list array containing information about the image to be deleted. • See ImageElement

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Device Supported: MC83x5/SL9090
Timeout: 2 Secs

9.15.4.2 ULONG DownloadToSlot (CHAR * *path,* struct slqsfwinfo_s *fwImgInfo,* struct slqsfwinfo_s *priImgInfo,* BYTE *slot,* BYTE *forceDownload*)

This API is dedicated for downloading a firmware image into a specific slot. it is used for EM74xx/MC74xx only

Parameters

path	• fully qualified path to firmware image to download
fwImgInfo	• See struct slqsfwinfo_s
priImgInfo	• See struct slqsfwinfo_s

slot	• slot id in the modem to store the firmware
forceDownload	• a flag to force download take place.

Returns

See qmerrno.h for eQCWWAN_xxx error values

Note

only EM74xx/MC74xx is supported

9.15.4.3 void eGetDeviceSeries (struct sGetDeviceSeriesResult *)

Name : eGetDeviceSeries

Parameters

none	

Returns

sGetDeviceSeriesResult

Note

Get Devie Series

9.15.4.4 ULONG GetImagesPreference (ULONG * *pImageListSize,* struct PrefImageList * *pImageList*)

restore original alignment from stack Gets the current images preference from the device.

Parameters

pImageListSize[-IN/OUT]	• Upon input, the size of structure ImageList ImageList • Upon successful output, the number of BYTEs copied to the image list array
pImageList[OUT]	• The caller must supply a pointer to a ImageList structure typecast as a BYTE pointer

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.15.4.5 ULONG GetImageStore (WORD *imageStorePathSize,* CHAR * *pImageStorePath*)

Returns the image store folder, i.e., the folder containing one or more carrier-specific image subfolders compatible with the currently connected QC WWAN device.

Parameters

imageStorePathSize	• Maximum number of characters (including NULL terminator) that can be copied to the image store path array.
pImageStorePath[OUT]	• The path to the image store

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.15.4.6 ULONG GetStoredImages (ULONG * *pImageListSize,* BYTE * *pImageList*)

restore original alignment from stack Gets the list of images stored on the device.

Parameters

pImageListSize[IN/OUT]	• Upon input, the size of structure ImageList ImageList • Upon successful output, the number of BYTEs copied to the image list array
pImageList[OUT]	• The caller must supply a pointer to a ImageList structure typecast as a BYTE pointer

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Device Supported: MC83x5/SL9090
Timeout: 2 seconds

9.15.4.7 ULONG SetImagePath (CHAR * *path,* ULONG *isMDM9x15,* WORD *imgMask,* BYTE *mdmProtocol*)

This API is used to set image path for firmware download

Parameters

path[IN]	• fully qualified path to firmware image to download.
isMDM9x15[IN]	• a flag indicates whether it is a MDM9x15 device
imgMask[IN]	• image mask to check CWE and NVU files are required or not
mdmProtocol[IN]	• which firmware download protocol should be used – 0 - SSDP protocol – 1 - Firehose protocol

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 12 seconds

9.15.4.8 ULONG SetImagesPreference (ULONG *imageListSize,* BYTE * *pImageList,* ULONG *bForceDownload,* BYTE *modemIndex,* ULONG * *pImageTypesSize,* BYTE * *pImageTypes*)

Sets the current images preference on the device. After this function successfully completes, the device must be reset for the selected image preference to be realized. Additionally, when the returned list of image types that require downloading is not empty, the device opens in QDL mode after the reset. At that point, the QDL portion of this API must be used to download the selected image preference to the device.

Parameters

imageListSize	• The size in BYTEs of the image list array
pImageList[IN]	• The image info list array containing Image Elements – See PrefImageList
bForce-Download[IN]	• Force device to download images from host? 0 - No Nonzero - Yes
modemIndex	• Desired storage index for downloaded modem image (optional, a value of 0xFF indicates unspecified)

pImageTypes-Size[IN/OUT]	• Upon input, maximum number of elements that download image types array can contain • Upon successful output, number of elements in download image types array
pImageTypes[O-UT]	-The download image types array.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.15.4.9 ULONG SLQSDownloadFirmwareToSlot (CHAR * *pPath*, BYTE *slot_index*, BYTE *force_download*)

This API is used to download firmware to a specific slot id of the modem. It is only applicable for EM74xx variant. This API encapsulates all steps involved in the firmware download process.Hence it is a blocking API call.

This API will not return until the entire process has been completed. This API will takes significant amount of time (in order of minutes, normally should be less than 10 minutes).

This API Performs the following steps:

1. Verifies arguments.
2. Retrieve and store the details of the firmware and the PRI file
3. Enable device state change callback.
4. Enable firmware download callback.
5. Set Image preference on the device and reset the device.
6. Wait for the firmware to download and device to become ready.
7. Check the firmware update status. If fail, return an error.
8. If update status is OK, check if current image preference and preferred image preference(from step 2) match
9. If match, firmware download is successful. otherwise, report FW_PREFERENCE_MISMATCH

   10.Disable callbacks and exit.

   The call to this API blocks until step 7 or 10. This could be a significant amount of time (in order of minutes). Also note that the device state change callback and firmware download callback are used internally

   within this API. Hence the user application's instance of these callbacks (if any) are cleared. The user must re-enable these callbacks after a call to this API in order to use them.

Parameters

pPath[IN]	• fully qualified path to firmware image to download.
slot_index[IN]	• slot id in the modem to store the firmware
force_-download[IN]	• a flag to force download take place.

Returns

- eQCWWAN_ERR_NONE - Firmware download/Switch success.
- eQCWWAN_ERR_INVALID_ARG - The path input does not contain any image
- eQCWWAN_ERR_SWIIM_FW_UPDATE_FAIL - Firmware download/switch failed
- eQCWWAN_ERR_SWIIM_FW_PREFERENCE_MISMATCH - Download success but device offline due to image preference mismatch (ref. syslogs for cause)

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: NA

9.15.4.10 ULONG SLQSGetBootVersionNumber (ULONG * *bootversion*)

Gets the boot loader version number

Parameters

bootversion[OUT]	• boot loader version presented by a 4 byte integer

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Device Supported: MC9090/SL9090
Timeout: 2 seconds

9.15.4.11 ULONG SLQSGetFirmwareInfo (struct qmifwinfo_s * *pinfo*)

Returns firmware image information from the connected device

Parameters

pinfo[OUT]	• firmware image information record

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values
struct qmifwinfo_s

Note

Timeout: 2 Seconds.

9.15.4.12 ULONG SLQSGetImageInfo (LPCSTR *path*, struct qmifwinfo_s * *pinfo*)

Returns firmware image information from a CWE file or mbn files stored on the host. For CWE, information is returned for the first CWE image found at the specified path. For MBN, the provided path must be located under the image store for the currently connected QC WWAN device. Note that as this API supports multiple firmware image types, it relies on the presence of a supported device. Otherwise, refer to SLQSGetImageInfoMC83xx and SLQSGetImageInfoMC77xx for APIs which do not rely on the presence of a supported device.

Parameters

path[IN]	• fully qualified path to folder containing CWE image or MBN images • should use a "/" at the end of the path.
pinfo[OUT]	• firmware image information record

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values
struct qmifwinfo_s

Note

Timeout: N/A

9.15.4.13 ULONG SLQSGetImageInfo_9x15 (LPCSTR *path*, BYTE *imgType*, struct slqsfwinfo_s * *pinfo*)

Returns firmware image information from a CWE file(s) stored on the host. It does not rely on the presence of a supported device.

Parameters

path[IN]	• fully qualified path to folder containing the image(s) • should use a "/" at the end of the path.
imgType[IN]	• 2 - Firmware Image(.cwe extension) • 3 - PRI Image (.nvu extension)

pinfo[OUT]	• firmware image information record

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values
struct qmifwinfo_s

Note

Device Supported: MC73xx
Timeout: N/A

9.15.4.14 ULONG SLQSGetImageInfoMC77xx (LPCSTR *path*, struct qmifwinfo_s * *pinfo*)

Returns firmware image information from a SPKGS CWE file stored on the host. The information is returned for the first SPKGS CWE image found at the specified path. This API executes independent of a MC77xx being connected to the target.

Parameters

path[IN]	• fully qualified path to folder containing SPKG CWE image • should use a "/" at the end of the path.
pinfo[OUT]	• firmware image information record

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values
struct qmifwinfo_s

Note

Device Supported: MC77xx
Timeout: N/A

9.15.4.15 ULONG SLQSGetImageInfoMC83xx (LPCSTR *path*, struct qmifwinfo_s * *pinfo*)

Returns firmware image information from an MBN file located on the host. This API executes independent of a MC83xx being connected to the target.

Parameters

path[IN]	• fully qualified path to folder containing MBN file • should use a "/" at the end of the path.
pinfo[OUT]	• firmware image information record

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values
struct qmifwinfo_s

Note

Device Supported: MC83xx/SL9090
Timeout: N/A

9.15.4.16 ULONG SLQSGetValidFwPriCombinations (struct ImageList * *pStoredImageList*, ULONG * *pValidCombinationSize*, struct SWI_STRUCT_CarrierImage * *pValidCombinations*)

This API distills valid Firmware/PRI combinations from GetStoredImages result

Parameters

in	*pStoredImageList*	• image list returned from GetStoredImages
in,out	*pValidCombinationSize*	• number of combination passed in and returned
out	*pValidCombinations*	• valid combinations returned

Returns

- eQCWWAN_ERR_INVALID_ARG - Invalid parameters
- eQCWWAN_ERR_BUFFER_SZ - No enough element to store combinatons returned

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.15.4.17 BOOL SLQSIsSpkgFormatRequired (void)

Check if SPKG format download is required for SL9090/MC9090, it returns the value whcih was set by API SLQSSetSpkgFormatRequired()

Parameters

none	

Returns

return TRUE if required, otherwise, return FALSE

Note

Device Supported: MC9090/SL9090

9.15.4.18 void SLQSSetCrashStateCheckIgnore (BOOL *ignore*)

This API is used to set whether ignore crash state checking before proceed firmware download using the API UpgradeFirmware2k().

Parameters

in	*ignore*	• 0 - crash state checking applied (default value) • 1 - ignore crash state checking

Note

Device Supported: EM73xx/MC73xx, EM74xx/MC74xx

9.15.4.19 ULONG SLQSSetSIMBasedImageSwitching (void)

This API is used to enable the SIM-based Image Switching. The modem will reboot automatically to take effect of the enabing

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Device Supported: EM74xx/MC74xx

9.15.4.20 void SLQSSetSpkgFormatRequired (BYTE *isneeded*)

Set if SPKG format download is required for SL9090/MC9090

Parameters

isneeded	[INPUT] user inputs the firmware download method preference • 1 - Gobi3K download method, use mbn files. This is default value • 2 - SPKG download method, use cwe file

Returns

None

Note

Device Supported: MC9090/SL9090

9.15.4.21 ULONG SLQSSwiGetAllCarrierImages (ULONG * *pNumOfItems*, struct SWI_STRUCT_CarrierImage * *pCarrierImages*, char * *pFolderPath*)

This API gets a list of all images stored on both the host and the device

Parameters

pNumOfItems	• Number of Images{IN/OUT]
pCarrierImages[-OUT]	• See SWI_STRUCT_CarrierImage
pFolderPath	• Path of Input folder [IN]

Returns

TRUE/FALSE

Note

In case pFolderPath is invalid, API does not return invalid path error as SLQSSwiGetAllCarrierImages get carrier images from device also.

9.15.4.22 ULONG SLQSSwiGetFirmwareCurr (CurrentImgList * *pCurrentImgList*)

This API gets the currently active images on the device.

Parameters

pCurrentImgList	• Pointer to structure CurrentImgList • See CurrentImgList for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: NA
Device Supported: MC73xx, MC74xx/EM74xx
Timeout: 5 Secs

9.15.4.23 ULONG SLQSUpgradeFirmware9x07 (CHAR * *pDestinationPath*)

This API is used to download firmware to a WP760x device.

This API Performs the following steps:

1. Verifies arguments.
2. Informs the SDK of the firmware upgrade path
3. Send the DM command to requests the device reset (device will reset after all open handles are released).

   Upon successful completion, the above steps will have been completed, however, the actual upgrade of the firmware will necessarily then follow.

Parameters

pDestination-Path[IN]	• fully qualified path to firmware image to download.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.15.4.24 ULONG SLQSUpgradeFirmware9x15 (CHAR * *pDestinationPath*)

This API is used to upgrade firmware on a MC73xx device. This API encapsulates all steps involved in the firmware download process. It is an alternative to any firmware download application. Hence it is a blocking API call. This API will not return until the entire process has been completed.

This API Performs the following steps:

1. Verifies arguments.
2. Retrieve and store the details of the firmware and the PRI file
3. Enable device state change callback.
4. Enable firmware download callback.
5. Set Image preference on the device and reset the device.
6. Wait for the firmware to download and device to become ready.

7. Check the firmware update status. If fail, return an error.
8. If update status is OK, check if current image preference and preferred image preference(from step 2) match
9. If match, firmware download is successful.
10. If do not match, repeat from step 5 once more.
11. Disable callbacks and exit.

    The call to this API blocks until step 7 or 11. This could be a significant amount of time (in order of minutes). Also note that the device state change callback and firmware download callback are used internally

    within this API. Hence the user application's instance of these callbacks (if any) are cleared. The user must re-enable these callbacks after a call to this API in order to use them.

Parameters

pDestination-Path[IN]	• fully qualified path to firmware image to download. The path must end with a forward slash.

Returns

- eQCWWAN_ERR_NONE - Firmware download/Switch success.
- eQCWWAN_ERR_INVALID_ARG - The path input does not contain any image
- eQCWWAN_ERR_SWIIM_FW_UPDATE_FAIL - Firmware download/switch failed
- eQCWWAN_ERR_SWIIM_FW_PREFERENCE_MISMATCH - Download success but device offline due to image preference mismatch (ref. syslogs for cause)

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: NA

9.15.4.25 ULONG upgrade_9x07_9x50_fw (LPCSTR *path*)

This API is used to download firmware to a 9x07 or 9x50 device.

Parameters

pDestination-Path[IN]	• fully qualified path to firmware image to download.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 12 seconds

9.15.4.26 ULONG upgrade_mc77xx_fw (LPCSTR *path*)

9.15.4.27 ULONG UpgradeFirmware2k (CHAR * *pDestinationPath*)

This API is used to download firmware to a MC77xx or Gobi 3000 device. For SL909/MC9090, SLQSSetSpkgFormatRequired() needs to be called in advance to specify the download method, Gobi3K or SPKG download, please refer to the API SLQSSetSpkgFormatRequired() for more details of the input values. If SLQSSetSpkgFormatRequired() is not called in advance, it will us Gobi3K firmware download method (MBN files) as the default download method.

This API Performs the following steps:

1. Verifies arguments.
2. Verify that device Crash State should be 1 (RESET State).
3. Informs the SDK of the firmware upgrade path
4. Updates the images preference on the currently connected device.
5. Requests the device reset (device will reset after all open handles are released).

   Upon successful completion, the above steps will have been completed, however, the actual upgrade of the firmware will necessarily then follow.

Parameters

pDestination-Path[IN]	• fully qualified path to firmware image to download. The path must end with a forward slash. For a Gobi 3000 device the path should specify the carrier image folder index i.e. "<path\to\carrier\image>/<carrier index>/" where <carrier index>=""> is a valid sub-directory entry. For 9x30 devices if pDestinationPath is not valid on host, it will use pseudo path for image switching.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 12 seconds

9.16 qaGobiApiIms.h File Reference

IMS Service API function prototypes.

Data Structures

- struct SetSIPConfigReq
- struct SetSIPConfigResp
- struct SetRegMgrConfigReq

- struct SetRegMgrConfigResp
- struct SetIMSSMSConfigReq
- struct SetIMSSMSConfigResp
- struct SetIMSUserConfigReq
- struct SetIMSUserConfigResp
- struct SetIMSVoIPConfigReq
- struct SetIMSVoIPConfigResp
- struct GetSIPConfigResp
- struct GetRegMgrConfigParams
- struct GetIMSSMSConfigParams
- struct GetIMSUserConfigParams
- struct GetIMSVoIPConfigResp
- struct imsCfgIndRegisterInfo

Functions

- ULONG SLQSSetSIPConfig (SetSIPConfigReq *pSetSIPConfigReq, SetSIPConfigResp *pSetSIPConfigResp)
- ULONG SLQSSetRegMgrConfig (SetRegMgrConfigReq *pSetRegMgrConfigReq, SetRegMgrConfigResp *pSetRegMgrConfigResp)
- ULONG SLQSSetIMSSMSConfig (SetIMSSMSConfigReq *pSetIMSSMSConfigReq, SetIMSSMSConfigResp *pSetIMSSMSConfigResp)
- ULONG SLQSSetIMSUserConfig (SetIMSUserConfigReq *pSetIMSUserConfigReq, SetIMSUserConfigResp *pSetIMSUserConfigResp)
- ULONG SLQSSetIMSVoIPConfig (SetIMSVoIPConfigReq *pSetIMSVoIPConfigReq, SetIMSVoIPConfigResp *pSetIMSVoIPConfigResp)
- ULONG SLQSGetSIPConfig (GetSIPConfigResp *pGetSIPConfigResp)
- ULONG SLQSGetRegMgrConfig (GetRegMgrConfigParams *pGetRegMgrConfigParams)
- ULONG SLQSGetIMSSMSConfig (GetIMSSMSConfigParams *pGetIMSSMSConfigParams)
- ULONG SLQSGetIMSUserConfig (GetIMSUserConfigParams *pGetIMSUserConfigParams)
- ULONG SLQSGetIMSVoIPConfig (GetIMSVoIPConfigResp *pGetIMSVoIPConfigResp)
- ULONG SLQSImsConfigIndicationRegister (imsCfgIndRegisterInfo *pImsCfgIndRegisterInfo)

9.16.1 Detailed Description

IMS Service API function prototypes.

9.16.2 Function Documentation

9.16.2.1 ULONG SLQSGetIMSSMSConfig (GetIMSSMSConfigParams * *pGetIMSSMSConfigParams*)

This API retrieves the SMS configuration parameters.

Parameters

pGetIMSSMSConfigParams[IN/OUT]	• See GetIMSSMSConfigParams for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: NA
Device Supported: MC73xx, MC74xx and EM74xx
Timeout: 5 seconds

9.16.2.2 ULONG SLQSGetIMSUserConfig (GetIMSUserConfigParams * *pGetIMSUserConfigParams*)

This API retrieves the IMS User configuration parameters.

Parameters

pGetIMSUserConfigParams[IN/OUT]	• See GetIMSUserConfigParams for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: NA
Device Supported: MC73xx, MC74xx and EM74xx
Timeout: 5 seconds

9.16.2.3 ULONG SLQSGetIMSVoIPConfig (GetIMSVoIPConfigResp * *pGetIMSVoIPConfigResp*)

This API retrieves the IMS VoIP configuration parameters.

Parameters

GetIMSVoIPConfigResp[OUT]	• See GetIMSVoIPConfigResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: NA
Device Supported: MC73xx, MC74xx and EM74xx
Timeout: 5 seconds

9.16.2.4 ULONG SLQSGetRegMgrConfig (GetRegMgrConfigParams * *pGetRegMgrConfigParams*)

This API retrieves the registration manager configuration parameters.

Parameters

pGetRegMgrConfigParams[IN/OUT]	• See GetRegMgrConfigResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: NA
Device Supported: MC73xx, MC74xx and EM74xx
Timeout: 5 seconds

9.16.2.5 ULONG SLQSGetSIPConfig (GetSIPConfigResp * *pGetSIPConfigResp*)

This API retrieves the Session Initiation Protocol(SIP) configuration parameters.

Parameters

pGetSIPConfigResp[OUT]	• See GetSIPConfigResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: NA
Device Supported: MC73xx, MC74xx and EM74xx
Timeout: 5 seconds

9.16.2.6 ULONG SLQSImsConfigIndicationRegister (imsCfgIndRegisterInfo * *pImsCfgIndRegisterInfo*)

Sets the registration state for different QMI_IMS indications for the requesting control point

Parameters

pImsCfgInd-RegisterInfo[IN]	• Structure containing Indication Register Information. – See imsCfgIndRegisterInfo for more informtaion.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Device Supported: MC73xx, MC74xx and EM74xx
Timeout: 10 Secs

This API is used by a device to register/deregister for different QMI IMS indications. The device's registration state variables that control registration for indications will be modified to reflect the settings indicated in the request message. At least one optional parameter must be present in the request.

9.16.2.7 ULONG SLQSSetIMSSMSConfig (SetIMSSMSConfigReq * *pSetIMSSMSConfigReq,* SetIMSSMSConfigResp * *pSetIMSSMSConfigResp*)

This API sets the IMS SMS configuration parameters for the requesting control point.

Parameters

pSetIMSSMS-ConfigReq[IN]	• See SetIMSSMSConfigReq for more information
pSetIMSSMS-ConfigResp[OU-T]	• See SetIMSSMSConfigResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: NA
Device Supported: MC73xx, MC74xx and EM74xx
Timeout: 5 seconds

9.16.2.8 ULONG SLQSSetIMSUserConfig (SetIMSUserConfigReq * *pSetIMSUserConfigReq,* SetIMSUserConfigResp * *pSetIMSUserConfigResp*)

This API sets the IMS user configuration parameters for the requesting control point.

Parameters

pSetIMSUserConfigReq[IN]	• See SetIMSUserConfigReq for more information
pSetIMSUserConfigResp[OUT]	• See SetIMSUserConfigResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: NA
Device Supported: MC73xx, MC74xx and EM74xx
Timeout: 5 seconds

9.16.2.9 ULONG SLQSSetIMSVoIPConfig (SetIMSVoIPConfigReq * *pSetIMSVoIPConfigReq,* SetIMSVoIPConfigResp * *pSetIMSVoIPConfigResp*)

This API sets the IMS Voice over Internet Protocol (VoIP) configuration parameters for the requesting control point.

Parameters

pSetIMSVoIPConfigReq[IN]	• See SetIMSVoIPConfigReq for more information
pSetIMSVoIPConfigResp[OUT]	• See SetIMSVoIPConfigResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: NA
Device Supported: MC73xx, MC74xx and EM74xx
Timeout: 5 seconds

9.16.2.10 ULONG SLQSSetRegMgrConfig (SetRegMgrConfigReq * *pSetRegMgrConfigReq,* SetRegMgrConfigResp * *pSetRegMgrConfigResp*)

This API sets the IMS registration manager configuration parameters for the requesting control point.

Parameters

pSetRegMgrConfigReq[IN]	• See SetRegMgrConfigReq for more information
pSetRegMgrConfigResp[OUT]	• See SetRegMgrConfigResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: NA
Device Supported: MC73xx, MC74xx and EM74xx
Timeout: 5 seconds

9.16.2.11 ULONG SLQSSetSIPConfig (SetSIPConfigReq * *pSetSIPConfigReq,* SetSIPConfigResp * *pSetSIPConfigResp*)

This API sets the IMS Session Initiation Protocol(SIP) configuration parameters for the requesting control point.

Parameters

pSetSIPConfigReq[IN]	• See SetSIPConfigReq for more information
pSetSIPConfigResp[OUT]	• See SetSIPConfigResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: NA
Device Supported: MC73xx, MC74xx and EM74xx
Timeout: 5 seconds

9.17 qaGobiApiImsa.h File Reference

IMSA Service API function prototypes.

Data Structures

- struct IMSAIndRegisterInfo
- struct SupportedMsgList
- struct IMSASupportedMsgInfo
- struct ReqFieldsList
- struct RespFieldsList
- struct IndFieldsList
- struct IMSASupportedFieldsResp
- struct IMSARegistrationStatus
- struct IMSAServiceStatus

Functions

- ULONG SLQSRegisterIMSAIndication (IMSAIndRegisterInfo *pImsaIndRegisterInfo)
- ULONG SLQSGetIMSASupportedMsg (IMSASupportedMsgInfo *pIMSASupportedMsgInfo)
- ULONG SLQSGetIMSASupportedFields (WORD messageID, IMSASupportedFieldsResp *pIMSA-SupportedFieldsResp)
- ULONG SLQSGetIMSARegStatus (IMSARegistrationStatus *pIMSARegistrationStatus)
- ULONG SLQSGetIMSAServiceStatus (IMSAServiceStatus *pIMSAServiceStatus)

9.17.1 Detailed Description

IMSA Service API function prototypes.

9.17.2 Function Documentation

9.17.2.1 ULONG SLQSGetIMSARegStatus (IMSARegistrationStatus * *pIMSARegistrationStatus*)

Queries the set of messages implemented by the currently running software.

Parameters

pIMSA-Registration-Status[OUT]	• Structure containing response parameters for registration status. – See IMSARegistrationStatus for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 Secs

```
This API is used by a device to get the registration status for
various IMS services for the requesting control point.
```

9.17.2.2 ULONG SLQSGetIMSAServiceStatus (IMSAServiceStatus * *pIMSAServiceStatus*)

Gets the service status for various IMS services for the requesting control point.

Parameters

pIMSAService-Status[OUT]	• Structure containing response parameters for service status. – See IMSAServiceStatus for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 Secs

```
This API is used by a device to Gets the service status for various
IMS services for the requesting control point.
```

9.17.2.3 ULONG SLQSGetIMSASupportedFields (WORD *messageID*, IMSASupportedFieldsResp * *pIMSASupportedFieldsResp*)

Queries the set of supported fields implemented by the currently running software.

Parameters

messageID[IN]	• Service Message ID.
pIMSA-Supported-FieldsResp[OU-T]	• Structure containing Supported Fields Response. – See IMSASupportedFieldsResp for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 Secs

```
This API is used by a device to query the fields supported for a
single command as implemented by the currently running software.
```

9.17.2.4 ULONG SLQSGetIMSASupportedMsg (IMSASupportedMsgInfo * *pIMSASupportedMsgInfo*)

Queries the set of messages implemented by the currently running software.

Parameters

pIMSA-SupportedMsg-Info[OUT]	• Structure containing Supported Messages Information. – See IMSASupportedMsgInfo for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 Secs

```
This API is used by a device to query the set of messages implemented by
the currently running software
```

9.17.2.5 ULONG SLQSRegisterIMSAIndication (IMSAIndRegisterInfo * *pImsaIndRegisterInfo*)

Sets the registration state for different QMI_IMSA indications for the requesting control point

Parameters

pImsaInd-RegisterInfo[IN]	• Structure containing Indication Register Information. – See IMSAIndRegisterInfo for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 Secs

```
This API is used by a device to register/deregister for different
QMI IMSA indications.
The device's registration state variables that control registration
for indications will be modified to reflect the settings indicated in the
request message.
At least one optional parameter must be present in the request.
```

9.18 qaGobiApiLoc.h File Reference

Location API function prototypes.

Data Structures

- struct LOCEventRegisterReqResp
- struct LOCExtPowerStateReqResp
- struct LocApplicationInfo
- struct LOCStartReq
- struct LOCStopReq
- struct SV
- struct SVInfo
- struct GnssData
- struct CellDb
- struct ClkInfo
- struct BdsSV
- struct BdsSVInfo
- struct LocDelAssDataReq
- struct SwiLocGetAutoStartResp
- struct SwiLocSetAutoStartReq
- struct altitudeSrcInfo
- struct LocInjectPositionReq
- struct LocSetCradleMountReq
- struct sensorData
- struct tempratureData
- struct LocInjectSensorDataReq
- struct LocGetServerReq
- struct IPv4Config
- struct IPv6Config
- struct URLAddrInfo
- struct LocSetServerReq

Macros

- #define MAX_SENSOR_DATA_LEN 64
- #define MAX_TEMP_DATA_LEN 64

Functions

- ULONG SLQSLOCEventRegister (LOCEventRegisterReqResp *pLOCEventRegisterReqResp)
- ULONG SLQSLOCSetExtPowerState (LOCExtPowerStateReqResp *pLOCExtPowerStateReqResp)
- ULONG SLQSLOCStart (LOCStartReq *pLOCStartReq)
- ULONG SLQSLOCStop (LOCStopReq *pLOCStopReq)
- ULONG SLQSLOCSetOpMode (ULONG mode)
- ULONG SLQSLOCDelAssData (LocDelAssDataReq request)
- ULONG SwiLocGetAutoStart (SwiLocGetAutoStartResp *resp)
- ULONG SwiLocSetAutoStart (SwiLocSetAutoStartReq *req)
- ULONG SLQSLOCInjectUTCTime (ULONGLONG timeMsec, ULONG timeUncMsec)
- ULONG SLQSLOCInjectPosition (LocInjectPositionReq *pLocInjectPositionReq)
- ULONG SLQSLOCSetCradleMountConfig (LocSetCradleMountReq *pLocSetCradleMountReq)
- ULONG SLQSLOCInjectSensorData (LocInjectSensorDataReq *pLocInjectSensorDataReq)
- ULONG SLQSLOCGetBestAvailPos (ULONG xid)
- ULONG SLQSLOCGetServer (LocGetServerReq *pLocGetServerReq)
- ULONG SLQSLOCSetServer (LocSetServerReq *pLocSetServerReq)

9.18.1 Detailed Description

Location API function prototypes.

9.18.2 Macro Definition Documentation

9.18.2.1 #define MAX_SENSOR_DATA_LEN 64

9.18.2.2 #define MAX_TEMP_DATA_LEN 64

9.18.3 Function Documentation

9.18.3.1 ULONG SLQSLOCDelAssData (LocDelAssDataReq *request*)

Used by the control point to delete the location engine assistance data

Parameters

request[IN]	• request structure parameters should contain all NULL pointers to delete all assistance data. Otherwise, specify optional fields to be deleted. See LocDelAssDataReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.18.3.2 ULONG SLQSLOCEventRegister (LOCEventRegisterReqResp * *pLOCEventRegisterReqResp*)

Used by the control point to register for events from the location subsystem.

Parameters

pLOCEvent-RegisterReq-Resp[IN]	• See LOCEventRegisterReqResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.18.3.3 ULONG SLQSLOCGetBestAvailPos (ULONG *xid*)

Control point to get the best available position estimate from the location engine.

Parameters

xid[IN]	• Identifies the transaction. • The transaction ID is returned in the Get Best Available Position indication.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

- GPS engine should be started to get best available position.

9.18.3.4 ULONG SLQSLOCGetServer (LocGetServerReq * *pLocGetServerReq*)

Gets the A-GPS server address from the engine. The request is acknowledged through the response, but the SUCCESS/FAILURE status is sent through SetLocGetServerCallback callback If successful, the callback also contains the A-GPS server address

Parameters

pLocGetServer-Req[IN]	• See LocGetServerReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.18.3.5 ULONG SLQSLOCInjectPosition (LocInjectPositionReq * *pLocInjectPositionReq*)

Injects a position to the location engine.

Parameters

pLocInject-PositionReq[IN]	• See LocInjectPositionReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.18.3.6 ULONG SLQSLOCInjectSensorData (LocInjectSensorDataReq * *pLocInjectSensorDataReq*)

Control point to to inject sensor data into the GNSS location engine.

Parameters

pLocInject-SensorData-Req[IN]	• See LocInjectSensorDataReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.18.3.7 ULONG SLQSLOCInjectUTCTime (ULONGLONG *timeMsec,* ULONG *timeUncMsec*)

Injects UTC time in the location engine.

Parameters

timeMsec[IN]	• The UTC time since Jan. 1, 1970
timeUncMsec[IN]	• The time Uncertainty

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.18.3.8 ULONG SLQSLOCSetCradleMountConfig (LocSetCradleMountReq * *pLocSetCradleMountReq*)

Control point to set the current cradle mount configuration.

Parameters

pLocSetCradleMountReq[IN]	• See LocSetCradleMountReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.18.3.9 ULONG SLQSLOCSetExtPowerState (LOCExtPowerStateReqResp * *pLOCExtPowerStateReqResp*)

Used by the control point to set the current external power configuration.

Parameters

pLOCExtPowerStateReqResp[IN]	• See LOCExtPowerStateReqResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.18.3.10 ULONG SLQSLOCSetOpMode (ULONG *mode*)

Used by the control point to tells the engine to use the specified operation mode while making the position fixes

Parameters

mode[IN]	• Valid values: – eQMI_LOC_OPER_MODE_DEFAULT (1) - Use the default engine mode – eQMI_LOC_OPER_MODE_MSB (2) - Use the MS-based mode – eQMI_LOC_OPER_MODE_MSA (3) - Use the MS-assisted mode – eQMI_LOC_OPER_MODE_STANDALONE (4) - Use Standalone mode – eQMI_LOC_OPER_MODE_CELL_ID (5) - Use cell ID; this mode is only valid for GSM/UMTS networks – eQMI_LOC_OPER_MODE_WWAN (6) - Use WWAN measurements to calculate the position; if this mode is set, AFLT will be used for 1X networks and OTDOA will be used for LTE networks

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.18.3.11 ULONG SLQSLOCSetServer (LocSetServerReq * *pLocSetServerReq*)

Specifies the A-GPS server type and address.

Parameters

pLocSetServer-Req[IN]	• See LocSetServerReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

- Timeout: 5 seconds

- If multiple types of addresses are specified in the request, the IPv4 address takes precedence over the IPv6 address and the IPv6 address takes precedence over the URL address.

9.18.3.12 ULONG SLQSLOCStart (LOCStartReq * *pLOCStartReq*)

Used by the control point to initiate a GPS session.

Parameters

pLOCStartReq-Req[IN]	• See LOCStartReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.18.3.13 ULONG SLQSLOCStop (LOCStopReq * *pLOCStopReq*)

Used by the control point to stop a GPS session.

Parameters

pLOCStopReq-Resp[IN]	• See LOCStopReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.18.3.14 ULONG SwiLocGetAutoStart (SwiLocGetAutoStartResp * *resp*)

Used by the control point to Get Loc Auto Start settings

Parameters

resp[OUT]	• See SwiLocGetAutoStartResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.18.3.15 ULONG SwiLocSetAutoStart (SwiLocSetAutoStartReq * *req*)

Used by the control point to Set Loc Auto Start settings

Parameters

req[IN]	• See SwiLocSetAutoStartReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.19 qaGobiApiNas.h File Reference

Network Access Service API function prototypes.

Data Structures

- struct RFBandInfoElements
- struct RfDedicatedBandInfoElements
- struct RfBandInfoExtFormatElements
- struct RfBandwidthInfoElements
- struct RfBandInfoList
- struct RfDedicatedBandInfo
- struct RfBandInfoExtFormat
- struct RfBandwidthInfo
- struct LTEOperationMode
- struct NasGetRFInfoResp
- struct servSystem
- struct dataSrvCapabilities
- struct currentPLMN
- struct roamIndList
- struct qaQmi3Gpp2TimeZone
- struct detailSvcInfo
- struct CDMASysInfoExt
- struct callBarStatus
- struct qaQmiServingSystemParam
- struct rxSignalStrengthListElement
- struct ecioListElement
- struct errorRateListElement
- struct rsrqInformation
- struct lteSnrinformation
- struct lteRsrpinformation
- struct slqsSignalStrengthInfo
- struct SlqsNas3GppNetworkInfo
- struct _SlqsNas3GppNetworkRAT_
- struct SlqsNasPcsDigit
- struct _slqsNetworkScanInfo
- struct netSelectionPref
- struct acqOrderPref
- struct CSGID
- struct _sysSelectPrefParams
- struct ciotAcqOrderPref
- struct nr5gBandPref
- struct sysSelectPrefParamsExt
- struct _sysSelectPrefInfo
- struct AcqOrderPrefTlv
- struct RatDisabledMaskTlv
- struct CiotLteOpModePrefTlv
- struct LteM1BandPrefTlv
- struct LteNb1BandPrefTlv
- struct CiotAcqOrderPrefTlv
- struct NR5gBandPrefTlv
- struct _sysSelectPrefExtInfo
- struct SrvStatusInfo
- struct GSMSrvStatusInfo
- struct sysInfoCommon
- struct CDMASysInfo
- struct HDRSysInfo
- struct GSMSysInfo
- struct WCDMASysInfo

- struct LTESysInfo
- struct AddCDMASysInfo
- struct AddSysInfo
- struct CallBarringSysInfo
- struct nasGetSysInfoResp
- struct CommInfo
- struct LTEInfo
- struct swiModemStatusResp
- struct nasGetHDRColorCodeResp
- struct nasGetTxRxInfoReq
- struct rxInfo
- struct txInfo
- struct nasGetTxRxInfoResp
- struct CDMASSInfo
- struct HDRSSInfo
- struct LTESSInfo
- struct TDSCDMASigInfoExt
- struct nasGetSigInfoResp
- struct nasIndicationRegisterReq
- struct nasPLMNNameReq
- struct nasPLMNNameResp
- struct OperatorPLMNData
- struct operatorPLMNList
- struct serviceProviderName
- struct PLMNNetworkNameData
- struct PLMNNetworkName
- struct operatorNameString
- struct nasOperatorNameResp
- struct nasGet3GPP2SubscriptionInfoReq
- struct namName
- struct dirNum
- struct sidNid
- struct homeSIDNID
- struct minBasedIMSI
- struct trueIMSI
- struct CDMAChannel
- struct nasGet3GPP2SubscriptionInfoResp
- struct nmrCellInfo
- struct GERANInfo
- struct geranInstInfo
- struct UMTSinstInfo
- struct UMTSInfo
- struct CDMAInfo
- struct cellParams
- struct LTEInfoIntrafreq
- struct infoInterFreq
- struct LTEInfoInterfreq
- struct gsmCellInfo
- struct lteGsmCellInfo
- struct LTEInfoNeighboringGSM
- struct wcdmaCellInfo
- struct lteWcdmaCellInfo
- struct LTEInfoNeighboringWCDMA
- struct umtsLTENbrCell
- struct WCDMAInfoLTENeighborCell

- struct nasCellLocationInfoResp
- struct MNRInfo
- struct nasInitNetworkReg
- struct protocolSubtypeElement
- struct HDRPersonalityResp
- struct HDRProtSubtypResp
- struct PSDetachReq
- struct GetErrRateResp
- struct DRCParams
- struct PilotSetParams
- struct PilotSetData
- struct GetHRPDStatsResp
- struct ActPilotPNElement
- struct NetworkStat1x
- struct NetworkStatEVDO
- struct DeviceConfigDetail
- struct DataStatusDetail
- struct NetworkDebugResp
- struct LteCQIParm
- struct RSSIThresh
- struct ECIOThresh
- struct HDRSINRThresh
- struct LTESNRThresh
- struct IOThresh
- struct RSRQThresh
- struct RSRPThresh
- struct LTESigRptCfg
- struct TDSCDMASINRCONFThresh
- struct sigInfo
- struct NasSwiIndReg
- struct CDMARSSIThresh
- struct CDMAECIOThresh
- struct HDRRSSIThresh
- struct HDRECIOThresh
- struct HDRSINRThreshold
- struct HDRIOThresh
- struct GSMRSSIThresh
- struct WCDMARSSIThresh
- struct WCDMAECIOThresh
- struct LTERSSIThresh
- struct LTESNRThreshold
- struct LTERSRQThresh
- struct LTERSRPThresh
- struct LTESigRptConfig
- struct TDSCDMARSCPThresh
- struct TDSCDMARSSIThresh
- struct TDSCDMAECIOThresh
- struct TDSCDMASINRThresh
- struct setSignalStrengthInfo
- struct PhyCaAggScellIndType
- struct PhyCaAggScellDlBw
- struct PhyCaAggScellInfo
- struct PhyCaAggPcellInfo
- struct PhyCaAggScellIndex
- struct nasGetLTECphyCaResp

- struct nasGetLTECphyCa
- struct wcdmaUARFCN
- struct lteEARFCN
- struct ltePCI
- struct nasSwiGetChannelLockResp
- struct nasSwiSetChannelLockReq
- struct timeInfo
- struct GetNetworkTimeResp
- struct RxSigInfo
- struct SccRxInfo
- struct LteSccRxInfoResp
- struct nasSeteDRXParamsReq
- struct nasGeteDRXParamsResp

Macros

- #define SLQS_SS_INFO_LIST_MAX_ELEMENTS 18
- #define MAX_DESCRIPTION_LENGTH 255
- #define SLQS_SYSTEM_ID_SIZE 16
- #define PLMN_LENGTH 3
- #define MAX_SERV_SYSTEM_RADIO_INTERFACES 0x0A
- #define MAX_DATA_SRV_CAPABILITIES 0x20
- #define NAM_NAME_LENGTH 12
- #define IMSI_M_S1_LENGTH 7
- #define IMSI_M_S2_LENGTH 3
- #define MAX_PILOT_SETS 0xFF
- #define UATISIZE 16
- #define NAS_SIG_INFO_MAX_TDSCDMA_THRESHOLDS_LIST_SIZE 16
- #define NAS_SIG_INFO_MIN_dBm_FLOAT_VALUE -125.0
- #define NAS_SIG_INFO_MIN_dB_FLOAT_VALUE -10.0
- #define NAS_MAX_SCC_RX_INFO_INSTANCES 255

Typedefs

- typedef struct _SlqsNas3GppNetworkRAT_ SlqsNas3GppNetworkRAT
- typedef struct _slqsNetworkScanInfo slqsNetworkScanInfo
- typedef struct _sysSelectPrefParams sysSelectPrefParams
- typedef struct _sysSelectPrefInfo sysSelectPrefInfo
- typedef struct _sysSelectPrefExtInfo sysSelectPrefExtInfo

Enumerations

- enum _NAMS_RADIO_IF_TECHNOLOGY_ {
  eNAS_RADIO_IF_GSM = 0x04,
  eNAS_RADIO_IF_UMTS = 0x05,
  eNAS_RADIO_IF_LTE = 0x08,
  eNAS_RADIO_IF_TDSCDMA = 0x09 }
- enum NAS_LTE_CPHY_SCELL_STATE {
  eNAS_LTE_CPHY_SCELL_STATE_DECONFIGURED =0x00,
  eNAS_LTE_CPHY_SCELL_STATE_CONFIGURED_DEACTIVATED =0x01,
  eNAS_LTE_CPHY_SCELL_STATE_CONFIGURED_ACTIVATED =0x02 }

- enum NAS_LTE_CPHY_CA_BW_NRB {
  eNAS_LTE_CPHY_CA_BW_NRB_6 =0x00,
  eNAS_LTE_CPHY_CA_BW_NRB_15 =0x01,
  eNAS_LTE_CPHY_CA_BW_NRB_25 =0x02,
  eNAS_LTE_CPHY_CA_BW_NRB_50 =0x03,
  eNAS_LTE_CPHY_CA_BW_NRB_75 =0x04,
  eNAS_LTE_CPHY_CA_BW_NRB_100 =0x05 }
- enum eSYS_SRV_DOMAIN {
  eSYS_SRV_DOMAIN_NO_SRV = 0x00,
  eSYS_SRV_DOMAIN_CS_ONLY = 0x01,
  eSYS_SRV_DOMAIN_PS_ONLY = 0x02,
  eSYS_SRV_DOMAIN_CS_PS = 0x03,
  eSYS_SRV_DOMAIN_CAMPED = 0x04,
  eSYS_SRV_DOMAIN_UNKNOWN }

Functions

- ULONG GetSignalStrengths (ULONG *pArraySizes, INT8 *pSignalStrength, ULONG *pRadioInterface)
- ULONG PerformNetworkScan (BYTE *pInstanceSize, BYTE *pInstances)
- ULONG InitiateNetworkRegistration (ULONG regType, WORD mcc, WORD mnc, ULONG rat)
- ULONG GetServingNetwork (ULONG *pRegistrationState, ULONG *pCSDomain, ULONG *pPSDomain, ULONG *pRAN, BYTE *pRadioIfacesSize, BYTE *pRadioIfaces, ULONG *pRoaming, WORD *pMCC, WORD *pMNC, BYTE nameSize, CHAR *pName)
- ULONG GetHomeNetwork (WORD *pMCC, WORD *pMNC, BYTE nameSize, CHAR *pName, WORD *pSID, WORD *pNID)
- ULONG GetServingNetworkCapabilities (BYTE *pDataCapsSize, BYTE *pDataCaps)
- ULONG SetNetworkPreference (ULONG technologyPref, ULONG duration)
- ULONG GetNetworkPreference (ULONG *pTechnologyPref, ULONG *pDuration, ULONG *pPersistentTechnologyPref)
- ULONG GetRFInfo (BYTE *pInstanceSize, struct RFBandInfoElements *pRFBandInfo)
- ULONG SLQSNasGetRFInfo (NasGetRFInfoResp *pGetRFInfoResp)
- ULONG InitiateDomainAttach (ULONG action)
- ULONG GetACCOLC (BYTE *pACCOLC)
- ULONG SetACCOLC (CHAR *spc, BYTE accolc)
- ULONG SetCDMANetworkParameters (CHAR *pSPC, BYTE *pForceRev0, BYTE *pCustomSCP, ULONG *pProtocol, ULONG *pBroadcast, ULONG *pApplication, ULONG *pRoaming)
- ULONG GetCDMANetworkParameters (BYTE *pSCI, BYTE *pSCM, BYTE *pRegHomeSID, BYTE *pRegForeignSID, BYTE *pRegForeignNID, BYTE *pForceRev0, BYTE *pCustomSCP, ULONG *pProtocol, ULONG *pBroadcast, ULONG *pApplication, ULONG *pRoaming)
- ULONG GetANAAAAuthenticationStatus (ULONG *pStatus)
- ULONG SLQSGetServingSystem (qaQmiServingSystemParam *pServingSystem)
- ULONG SLQSSetBandPreference (ULONGLONG bandpreference)
- ULONG SLQSNasIndicationRegister (BYTE systemSelectionInd, BYTE DDTMInd, BYTE servingSystemInd)
- ULONG SLQSGetSignalStrength (struct slqsSignalStrengthInfo *pSignalInfo)
- ULONG SLQSPerformNetworkScan (slqsNetworkScanInfo *pNetworkInfo)
- ULONG SLQSSetSysSelectionPref (sysSelectPrefParams *pSysSelectPrefParams)
- ULONG SLQSSetSysSelectionPrefExt (sysSelectPrefParamsExt *pSysSelectPrefParamsExt)
- ULONG SLQSGetSysSelectionPref (sysSelectPrefInfo *pSysSelectPrefInfo)
- ULONG SLQSGetSysSelectionPrefExt (sysSelectPrefExtInfo *pSysSelectPrefExtInfo)
- ULONG SLQSNasGetSysInfo (nasGetSysInfoResp *pGetSysInfoResp)
- ULONG SLQSNasSwiModemStatus (swiModemStatusResp *pModemStatusResp)
- ULONG SLQSNasGetHDRColorCode (nasGetHDRColorCodeResp *pGetHDRColorCodeResp)
- ULONG SLQSNasGetTxRxInfo (nasGetTxRxInfoReq *pGetTxRxInfoReq, nasGetTxRxInfoResp *pGetTxRxInfoResp)
- ULONG SLQSNasGetSigInfo (nasGetSigInfoResp *pGetSigInfoResp)

- ULONG SLQSNasIndicationRegisterExt (nasIndicationRegisterReq *pIndicationRegisterReq)
- ULONG SLQSGetPLMNName (nasPLMNNameReq *pPLMNNameReq, nasPLMNNameResp *pPLMNNameResp)
- ULONG SLQSGetOperatorNameData (nasOperatorNameResp *pOperatorNameData)
- ULONG SLQSNasGet3GPP2Subscription (nasGet3GPP2SubscriptionInfoReq *pGet3GPP2SubsInfoReq, nasGet3GPP2SubscriptionInfoResp *pGet3GPP2SubsInfoResp)
- ULONG SLQSNasGetCellLocationInfo (nasCellLocationInfoResp *pNasCellLocationInfoResp)
- ULONG SLQSInitiateNetworkRegistration (nasInitNetworkReg *pNasInitNetRegistrationReg)
- ULONG SLQSSwiGetHDRPersonality (HDRPersonalityResp *pHDRPersonalityResp)
- ULONG SLQSSwiGetHDRProtSubtype (HDRProtSubtypResp *pHDRProtSubtypResp)
- ULONG SLQSSwiPSDetach (PSDetachReq *pPSDetachReq)
- ULONG SLQSGetErrorRate (GetErrRateResp *pGetErrRateResp)
- ULONG SLQSSwiGetHRPDStats (GetHRPDStatsResp *pGetHRPDStatsResp)
- ULONG SLQSSwiNetworkDebug (NetworkDebugResp *pNetworkDebugResp)
- ULONG SLQSSwiGetLteCQI (LteCQIParm *pLteCQIResp)
- ULONG SLQSConfigSigInfo (sigInfo *pSigInfo)
- ULONG SLQSNasSwiIndicationRegister (NasSwiIndReg *pIndRegReq)
- ULONG GetHomeNetwork3GPP2 (WORD *pMCC, WORD *pMNC, BYTE nameSize, CHAR *pName, WORD *pSID, WORD *pNID, WORD *pNw2MCC, WORD *pNw2MNC, BYTE *pNw2DescDisp, BYTE *pNw2DescEnc, BYTE *pNw2DescLen, BYTE *pNw2Name)
- ULONG SLQSNasConfigSigInfo2 (setSignalStrengthInfo *pSetSignalStrengthInfo)
- ULONG SLQSNASGetLTECPHYCaInfo (nasGetLTECphyCa *pLTECPhyCa)
- ULONG SLQSNasIndicationRegisterLTECphyCa (BYTE *bStatus)
- ULONG SLQSNASSwiGetChannelLock (nasSwiGetChannelLockResp *pNasSwiGetChannelLockResp)
- ULONG SLQSNASSwiSetChannelLock (nasSwiSetChannelLockReq *pNasSwiSetChannelLockReq)
- ULONG SLQSGetNetworkTime (GetNetworkTimeResp *pGetNetworkTimeResp)
- ULONG SLQSSwiGetLteSccRxInfo (LteSccRxInfoResp *pLteSccRxInfoResp)
- ULONG SLQSNASSeteDRXParams (nasSeteDRXParamsReq *pNasSeteDRXParamsReq)
- ULONG SLQSNASGeteDRXParams (nasGeteDRXParamsResp *pNasGeteDRXParamsResp)

9.19.1 Detailed Description

Network Access Service API function prototypes.

9.19.2 Macro Definition Documentation

9.19.2.1 #define IMSI_M_S1_LENGTH 7

9.19.2.2 #define IMSI_M_S2_LENGTH 3

9.19.2.3 #define MAX_DATA_SRV_CAPABILITIES 0x20

9.19.2.4 #define MAX_DESCRIPTION_LENGTH 255

9.19.2.5 #define MAX_PILOT_SETS 0xFF

9.19.2.6 #define MAX_SERV_SYSTEM_RADIO_INTERFACES 0x0A

9.19.2.7 #define NAM_NAME_LENGTH 12

9.19.2.8 #define NAS_MAX_SCC_RX_INFO_INSTANCES 255

9.19.2.9 #define NAS_SIG_INFO_MAX_TDSCDMA_THRESHOLDS_LIST_SIZE 16

9.19.2.10 #define NAS_SIG_INFO_MIN_dB_FLOAT_VALUE -10.0

9.19.2.11 #define NAS_SIG_INFO_MIN_dBm_FLOAT_VALUE -125.0

9.19.2.12 #define PLMN_LENGTH 3

9.19.2.13 #define SLQS_SS_INFO_LIST_MAX_ELEMENTS 18

9.19.2.14 #define SLQS_SYSTEM_ID_SIZE 16

9.19.2.15 #define UATISIZE 16

9.19.3 Typedef Documentation

9.19.3.1 typedef struct _SlqsNas3GppNetworkRAT_ SlqsNas3GppNetworkRAT

Contain the 3GPP radio access technology information.

Parameters

MCC	• Mobile Country Code
MNC	• Mobile Network Code
RAT	• Radio Access Technology – 0x04 - GERAN – 0x05 - UMTS – 0x08 - LTE – 0x09 - TD-SCDMA

9.19.3.2 typedef struct _slqsNetworkScanInfo slqsNetworkScanInfo

Contain the network scan information.

Parameters

pNetworkInfo-Instances[IN/O-UT]	• Upon input, maximum number of elements that the network info instance array can contain. • Upon successful output, the actual number of elements in the network info instance array.
pNetworkInfo[O-UT]	• Network info instance array – See SlqsNas3GppNetworkInfo for more information
pRATInstances[-IN/OUT]	• Upon input, maximum number of elements that the RAT info instance array can contain. • Upon successful output, the actual number of elements in the RAT info instance array.

pRATInfo[OUT]	• RAT info instance array – See SlqsNas3GppNetworkRAT for more information
pPCSDigitInstances[IN/OUT]	• Upon input, maximum number of elements that the PCS Digit info instance array can contain. • Upon successful output, the actual number of elements in the PCS Digit info instance array.
pPCSDigitInfo[OUT]	• PCS Digit info instance array – See SlqsNasPcsDigit for more information
pScanResult[OUT]	• status of network scan • 0x00 - scan successful • 0x01 - scan was aborted • 0x02 - scan did not complete due to a radio link failure recovery in progress

9.19.3.3 typedef struct _sysSelectPrefExtInfo sysSelectPrefExtInfo

Structure for storing the current preferred system selection settings for the device.

Parameters

pSysSelectPrefInfo	• See sysSelectPrefInfo for more information
pAcqOrderPref	• Optional parameter • Acquisition Order Preference • See AcqOrderPrefTlv for more information
pRatDisabledMask	• Optional parameter • See RatDisabledMaskTlv for more information
pCiotLteOpModePref	• Optional parameter • See CiotLteOpModePrefTlv for more information
pLteM1BandPref	• Optional parameter • See LteM1BandPrefTlv for more information
pLteNb1BandPref	• Optional parameter • See LteNb1BandPrefTlv for more information
pCiotAcqOrderPref	• Optional parameter indicating CIOT Acquisition Order Preference • See CiotAcqOrderPrefTlv for more information

pNr5gBandPref	• Optional parameter indicating NR5G Band Preference • See NR5gBandPrefTlv for more information

Note

None

9.19.3.4 typedef struct _sysSelectPrefInfo sysSelectPrefInfo

Structure for storing the current preferred system selection settings for the device.

Parameters

pEmerMode	• Optional parameter specifying the emergency Mode • Values: – 0 - OFF (normal) – 1 - ON (Emergency) • function SLQSGetSysSelectionPref() returns a default value FF if no value is returned by the device.
pModePref	• Optional parameter • Bit Mask indicating the radio technology mode preference • Bit values: – Bit 0 - cdma2000 1x – Bit 1 - cdma2000 HRPD(1xEV-DO) – Bit 2 - GSM – Bit 3 - UMTS – Bit 4 - LTE – Bit 5 - TD-SCDMA – Bit 6 - NR5G • function SLQSGetSysSelectionPref() returns a default value FF if no value is returned by the device.

pBandPref	• Optional parameter • Bit mask representing the band preference • Bit values: – Bit 0 - Band Class 0, A-System – Bit 1 - Band Class 0, B-System, Band Class 0 AB, GSM 850 Band – Bit 2 - Band Class 1, all blocks – Bit 3 - Band Class 2 place holder – Bit 4 - Band Class 3, A-System – Bit 5 - Band Class 4, all blocks – Bit 6 - Band Class 5, all blocks – Bit 7 - GSM_DCS_1800 band – Bit 8 - GSM Extended GSM (E-GSM) 900 band – Bit 9 - GSM Primary GSM (P-GSM) 900 band – Bit 10 - Band Class 6 – Bit 11 - Band Class 7 – Bit 12 - Band Class 8 – Bit 13 - Band Class 9 – Bit 14 - Band Class 10 – Bit 15 - Band Class 11 – Bit 16 - GSM 450 band – Bit 17 - GSM 480 band – Bit 18 - GSM 750 band – Bit 19 - GSM 850 band – Bit 20 - GSM Railways GSM 900 Band – Bit 21 - GSM PCS 1900 band – Bit 22 - WCDMA Europe, Japan, and China IMT 2100 band – Bit 23 - WCDMA U.S. PCS 1900 band – Bit 24 - WCDMA Europe and China DCS 1800 band – Bit 25 - WCDMA U.S. 1700 band – Bit 26 - WCDMA U.S. 850 band – Bit 27 - WCDMA Japan 800 band – Bit 28 - Band Class 12 – Bit 29 - Band Class 14 – Bit 30 - Reserved – Bit 31 - Band Class 15 – Bit 32 to 47 - Reserved – Bit 48 - WCDMA Europe 2600 band – Bit 49 - WCDMA Europe and Japan 900 band – Bit 50 - WCDMA Japan 1700 band – Bit 51 to 55 - Reserved – Bit 56 - Band Class 16 – Bit 57 - Band Class 17 – Bit 58 - Band Class 18 – Bit 59 - Band Class 19 – Bit 60 to 64 - Reserved • function SLQSGetSysSelectionPref() returns a default value FFFFFFFFFFFFFFFF if no value is returned by the device.

pPRLPref	• Optional parameter indicating the CDMA PRL Preference • Values: – 0x0001 - Acquire available system only on the A side – 0x0002 - Acquire available system only on the B side – 0x3FFF - Acquire any available systems • function SLQSGetSysSelectionPref() returns a default value FFFF if no value is returned by the device.
pRoamPref	• Optional parameter indicating the roaming Preference • Values: – 0x01 - Acquire only systems for which the roaming indicator is off – 0x02 - Acquire a system as long as its roaming indicator is not off – 0x03 - Acquire only systems for which the roaming indicator is off or solid on, i.e. not flashing; CDMA only – 0xFF - Acquire systems, regardless of their roaming indicator • function SLQSGetSysSelectionPref() returns a default value FFFF if no value is returned by the device.

pLTEBandPref	• Optional parameter • Bit mask representing the LTE band preference • Bit Values – Bit 0 - E-UTRA Operating Band 1 – Bit 1 - E-UTRA Operating Band 2 – Bit 2 - E-UTRA Operating Band 3 – Bit 3 - E-UTRA Operating Band 4 – Bit 4 - E-UTRA Operating Band 5 – Bit 5 - E-UTRA Operating Band 6 – Bit 6 - E-UTRA Operating Band 7 – Bit 7 - E-UTRA Operating Band 8 – Bit 8 - E-UTRA Operating Band 9 – Bit 9 - E-UTRA Operating Band 10 – Bit 10 - E-UTRA Operating Band 11 – Bit 11 - E-UTRA Operating Band 12 – Bit 12 - E-UTRA Operating Band 13 – Bit 13 - E-UTRA Operating Band 14 – Bit 16 - E-UTRA Operating Band 17 – Bit 17 - E-UTRA Operating Band 18 – Bit 18 - E-UTRA Operating Band 19 – Bit 19 - E-UTRA Operating Band 20 – Bit 20 - E-UTRA Operating Band 21 – Bit 22 - E-UTRA Operating Band 23 – Bit 23 - E-UTRA Operating Band 24 – Bit 24 - E-UTRA Operating Band 25 – Bit 25 - E-UTRA Operating Band 26 – Bit 27 - E-UTRA Operating Band 28 – Bit 28 - E-UTRA Operating Band 29 – Bit 29 - E-UTRA Operating Band 32 – Bit 32 - E-UTRA Operating Band 33 – Bit 33 - E-UTRA Operating Band 34 – Bit 34 - E-UTRA Operating Band 35 – Bit 35 - E-UTRA Operating Band 36 – Bit 36 - E-UTRA Operating Band 37 – Bit 37 - E-UTRA Operating Band 38 – Bit 38 - E-UTRA Operating Band 39 – Bit 39 - E-UTRA Operating Band 40 – Bit 40 - E-UTRA Operating Band 41 – Bit 41 - E-UTRA Operating Band 42 – Bit 42 - E-UTRA Operating Band 43 – Bit 60 - E-UTRA Operating Band 125 – All other bits are reserved • function SLQSGetSysSelectionPref() returns a default value FFFFFFFFFFFFFFFF if no value is returned by the device.

pNetSelPref	• Optional parameter indicating network selection preference • Values: – 0x00 - Automatic network selection – 0x01 - Manual network selection • function SLQSGetSysSelectionPref() returns a default value FF if no value is returned by the device.
pSrvDomainPref	• Optional parameter indicating Service domain preference • Values: – 0x00 - Circuit switched only – 0x01 - Packet switched only – 0x02 - Circuit switched and packet switched – 0x03 - Packet switched attach – 0x04 - Packet switched detach • function SLQSGetSysSelectionPref() returns a default value FFFFFFFF if no value is returned by the device.
pGWAcqOrder-Pref	• Optional parameter indicating GSM/WCDMA Acquisition order Preference • Values: – 0x00 - Automatic – 0x01 - GSM then WCDMA – 0x02 - WCDMA then GSM • function SLQSGetSysSelectionPref() returns a default value FFFFFFFF if no value is returned by the device.

Note

None

9.19.3.5 typedef struct _sysSelectPrefParams sysSelectPrefParams

Contain the system selection preferences.

Parameters

pEmerMode	• Optional parameter specifying the emergency Mode • Values: – 0 - OFF (normal) – 1 - ON (Emergency)
pModePref	• Optional parameter • Bit Mask indicating the radio technology mode preference • Bit values: – Bit 0 - cdma2000 1x – Bit 1 - cdma2000 HRPD(1xEV-DO) – Bit 2 - GSM – Bit 3 - UMTS – Bit 4 - LTE – Bit 5 - TD-SCDMA – Bit 6 - NR5G

pBandPref	• Optional parameter • Bit mask representing the band preference • Bit values: – Bit 0 - Band Class 0, A-System – Bit 1 - Band Class 0, B-System, Band Class 0 AB, GSM 850 Band – Bit 2 - Band Class 1, all blocks – Bit 3 - Band Class 2 place holder – Bit 4 - Band Class 3, A-System – Bit 5 - Band Class 4, all blocks – Bit 6 - Band Class 5, all blocks – Bit 7 - GSM_DCS_1800 band – Bit 8 - GSM Extended GSM (E-GSM) 900 band – Bit 9 - GSM Primary GSM (P-GSM) 900 band – Bit 10 - Band Class 6 – Bit 11 - Band Class 7 – Bit 12 - Band Class 8 – Bit 13 - Band Class 9 – Bit 14 - Band Class 10 – Bit 15 - Band Class 11 – Bit 16 - GSM 450 band – Bit 17 - GSM 480 band – Bit 18 - GSM 750 band – Bit 19 - GSM 850 band – Bit 20 - GSM Railways GSM 900 Band – Bit 21 - GSM PCS 1900 band – Bit 22 - WCDMA Europe, Japan, and China IMT 2100 band – Bit 23 - WCDMA U.S. PCS 1900 band – Bit 24 - WCDMA Europe and China DCS 1800 band – Bit 25 - WCDMA U.S. 1700 band – Bit 26 - WCDMA U.S. 850 band – Bit 27 - WCDMA Japan 800 band – Bit 28 - Band Class 12 – Bit 29 - Band Class 14 – Bit 30 - Reserved – Bit 31 - Band Class 15 – Bit 32 to 47 - Reserved – Bit 48 - WCDMA Europe 2600 band – Bit 49 - WCDMA Europe and Japan 900 band – Bit 50 - WCDMA Japan 1700 band – Bit 51 to 55 - Reserved – Bit 56 - Band Class 16 – Bit 57 - Band Class 17 – Bit 58 - Band Class 18 – Bit 59 - Band Class 19 – Bit 60 to 64 - Reserved

pPRLPref	• Optional parameter indicating the CDMA PRL Preference • Values: – 0x0001 - Acquire available system only on the A side – 0x0002 - Acquire available system only on the B side – 0x3FFF - Acquire any available systems
pRoamPref	• Optional parameter indicating the roaming Preference • Values: – 0x01 - Acquire only systems for which the roaming indicator is off – 0x02 - Acquire a system as long as its roaming indicator is not off – 0x03 - Acquire only systems for which the roaming indicator is off or solid on, i.e. not flashing; CDMA only – 0xFF - Acquire systems, regardless of their roaming indicator

pLTEBandPref	• Optional parameter • Bit mask representing the LTE band preference • Bit Values – Bit 0 - E-UTRA Operating Band 1 – Bit 1 - E-UTRA Operating Band 2 – Bit 2 - E-UTRA Operating Band 3 – Bit 3 - E-UTRA Operating Band 4 – Bit 4 - E-UTRA Operating Band 5 – Bit 5 - E-UTRA Operating Band 6 – Bit 6 - E-UTRA Operating Band 7 – Bit 7 - E-UTRA Operating Band 8 – Bit 8 - E-UTRA Operating Band 9 – Bit 9 - E-UTRA Operating Band 10 – Bit 10 - E-UTRA Operating Band 11 – Bit 11 - E-UTRA Operating Band 12 – Bit 12 - E-UTRA Operating Band 13 – Bit 13 - E-UTRA Operating Band 14 – Bit 16 - E-UTRA Operating Band 17 – Bit 17 - E-UTRA Operating Band 18 – Bit 18 - E-UTRA Operating Band 19 – Bit 19 - E-UTRA Operating Band 20 – Bit 20 - E-UTRA Operating Band 21 – Bit 22 - E-UTRA Operating Band 23 – Bit 23 - E-UTRA Operating Band 24 – Bit 24 - E-UTRA Operating Band 25 – Bit 25 - E-UTRA Operating Band 26 – Bit 27 - E-UTRA Operating Band 28 – Bit 28 - E-UTRA Operating Band 29 – Bit 29 - E-UTRA Operating Band 32 – Bit 32 - E-UTRA Operating Band 33 – Bit 33 - E-UTRA Operating Band 34 – Bit 34 - E-UTRA Operating Band 35 – Bit 35 - E-UTRA Operating Band 36 – Bit 36 - E-UTRA Operating Band 37 – Bit 37 - E-UTRA Operating Band 38 – Bit 38 - E-UTRA Operating Band 39 – Bit 39 - E-UTRA Operating Band 40 – Bit 40 - E-UTRA Operating Band 41 – Bit 41 - E-UTRA Operating Band 42 – Bit 42 - E-UTRA Operating Band 43 – Bit 60 - E-UTRA Operating Band 125 – All other bits are reserved

pNetSelPref	- netSelectionPref • Optional parameter for specifying Network Selection Preference • Modem selects networks based on this parameter(if present). • Either of pNetSelPref or pCSGID can be set. • see netSelectionPref for more information
pChgDuration	• Optional parameter specifying the duration of the change • At least one system selection setting to be set if pChgDuration is populated. • Values: – 0x00 - Power cycle - Remains active until the next device power cycle – 0x01 - Permanent - Remains active through power cycles until changed by client – Device will use "0x01 - permanent" as default if this parameter is omitted
pMNCIncPCS-DigStat	• Optional parameter indicating if MNC includes PCS digit • pNetSelPref is expected if MNC includes PCS digit is set to 1. • Values: – TRUE - MNC is a 3 digit value; e.g., a reported value of 90 corresponds to an MNC value of 090 – FALSE - MNC is a 2-digit value; e.g., a reported value of 90 corresponds to an MNC value of 90
pSrvDomainPref	• Optional parameter indicating Service domain preference • Values: – 0x00 - Circuit switched only – 0x01 - Packet switched only – 0x02 - Circuit switched and packet switched – 0x03 - Packet switched attach – 0x04 - Packet switched detach
pGWAcqOrder-Pref	• Optional parameter indicating GSM/WCDMA Acquisition order Preference • Values: – 0x00 - Automatic – 0x01 - GSM then WCDMA – 0x02 - WCDMA then GSM
pTdscdmaBand-Pref	• Optional parameter indicating bitmask representing the TD-SCDMA band preference to be set. • Values: – 0x01 - TD-SCDMA Band A – 0x02 - TD-SCDMA Band B – 0x04 - TD-SCDMA Band C – 0x08 - TD-SCDMA Band D – 0x10 - TD-SCDMA Band E – 0x20 - TD-SCDMA Band F – All other bits are reserved

pAcqOrderPref	- acqOrderPref • Optional parameter for specifying Acquisition Order Preference • see acqOrderPref for more information
pSrvReg-Restriction	• Optional parameter indicating Network Selection Registration Restriction Preference • Values: – 0x00 - Device follows the normal registration process – 0x01 - Device camps on the network according to its provisioning, but does not register – 0x02 - Device selects the network for limited service – All other values are reserved.
pCSGID	- CSGID • Optional parameter for specifying CSG ID • Either of pNetSelPref or pCSGID can be set. • see CSGID for more information
pRAT	• Optional parameter Radio Access Technology order Preference • Values: – 0x04 - GSM – 0x05 - UMTS – 0x08 - LTE – 0x09 - TDSCDMA – 0x0A - LTE-M1 – 0x0B - LTE-NB1 – 0x0C - NR5G

9.19.4 Enumeration Type Documentation

9.19.4.1 enum _NAMS_RADIO_IF_TECHNOLOGY_

Enumerator

eNAS_RADIO_IF_GSM

eNAS_RADIO_IF_UMTS

eNAS_RADIO_IF_LTE

eNAS_RADIO_IF_TDSCDMA

9.19.4.2 enum eSYS_SRV_DOMAIN

Enumerator

eSYS_SRV_DOMAIN_NO_SRV

eSYS_SRV_DOMAIN_CS_ONLY

eSYS_SRV_DOMAIN_PS_ONLY

eSYS_SRV_DOMAIN_CS_PS

eSYS_SRV_DOMAIN_CAMPED

eSYS_SRV_DOMAIN_UNKNOWN

9.19.4.3 enum NAS_LTE_CPHY_CA_BW_NRB

Enumerator

eNAS_LTE_CPHY_CA_BW_NRB_6

eNAS_LTE_CPHY_CA_BW_NRB_15

eNAS_LTE_CPHY_CA_BW_NRB_25

eNAS_LTE_CPHY_CA_BW_NRB_50

eNAS_LTE_CPHY_CA_BW_NRB_75

eNAS_LTE_CPHY_CA_BW_NRB_100

9.19.4.4 enum NAS_LTE_CPHY_SCELL_STATE

Enumerator

eNAS_LTE_CPHY_SCELL_STATE_DECONFIGURED

eNAS_LTE_CPHY_SCELL_STATE_CONFIGURED_DEACTIVATED

eNAS_LTE_CPHY_SCELL_STATE_CONFIGURED_ACTIVATED

9.19.5 Function Documentation

9.19.5.1 ULONG GetACCOLC (BYTE * *pACCOLC*)

Retrieves information about the access overload class (ACCOLC)

Parameters

pACCOLC[OUT]	• ACCOLC : Valid range is 0 to 15

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 2 seconds

9.19.5.2 ULONG GetANAAAAuthenticationStatus (ULONG * *pStatus*)

AN-AAA authentication status of the device.

Parameters

pStatus[OUT]	• Status of last AN-AAA authentication attempt – 0 - Failure – 1 - Success – 2 - Not Requested

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 2 seconds

9.19.5.3 ULONG GetCDMANetworkParameters (BYTE * *pSCI*, BYTE * *pSCM*, BYTE * *pRegHomeSID*, BYTE * *pRegForeignSID*, BYTE * *pRegForeignNID*, BYTE * *pForceRev0*, BYTE * *pCustomSCP*, ULONG * *pProtocol*, ULONG * *pBroadcast*, ULONG * *pApplication*, ULONG * *pRoaming*)

Gets the current CDMA network parameters

Parameters

pSCI[OUT]	• Slot cycle index – 0xFF-Unknown
pSCM[OUT]	• Station class mark – 0xFF-Unknown
pRegHomeSID[OUT]	• Register on home SID – 0 - Disabled – 1 - Enabled – 0xFF - Unknown
pRegForeignSID[OUT]	• Register on foreign SID – 0 - Disabled – 1 - Enabled – 0xFF - Unknown
pRegForeignNID[OUT]	• Register on foreign NID – 0 - Disabled – 1 - Enabled – 0xFF - Unknown
pForceRev0[OUT]	• Force CDMA 1x-EV-DO Rev. 0 mode – 0 - Disabled – 1 - Enabled – 0xFF - Unknown

pCustomSCP[OUT]	• Use a custom config for CDMA 1x-EV-DO SCP – 0 - Disabled – 1 - Enabled – 0xFF - Unknown
pProtocol[OUT]	• Protocol mask for custom SCP config – 0x00000001 - Subtype 2 Physical Layer – 0x00000002 - Enhanced CCMAC – 0x00000004 - Enhanced ACMAC – 0x00000008 - Enhanced FTCMAC – 0x00000010 - Subtype 3 RTCMAC – 0x00000020 - Subsystem 1 RTCMAC – 0x00000040 - Enhanced Idle – 0x00000080 - Generic Multimode Capable Disc Port – 0xFFFFFFFF - Unknown
pBroadcast[OUT]	• Broadcast mask for custom SCP config – 0x00000001 - Generic broadcast enabled – 0xFFFFFFFF - Unknown
pApplication[OUT]	• Application mask for custom SCP config – 0x00000001 - SN Multiflow Packet Application – 0x00000002 - SN Enhanced Multiflow Packet Application – 0xFFFFFFFF - Unknown
pRoaming[OUT]	• Roaming preference – 0 - Automatic – 1 - Home Only – 2 - Affiliated Roaming Only – 3 - Home and Affiliated Roaming – 0xFFFFFFFF - Unknown

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 5 seconds

9.19.5.4 ULONG GetHomeNetwork (WORD * *pMCC*, WORD * *pMNC*, BYTE *nameSize*, CHAR * *pName*, WORD * *pSID*, WORD * *pNID*)

Retrieves information about the home network of the device. For 3GPP2 home network information use GetHomeNetwork3GPP2.

Parameters

pMCC[OUT]	• Mobile country code (UMTS only).
pMNC[OUT]	• Mobile network code (UMTS only).
nameSize	• Maximum number of characters (including NULL terminator) that 8 network name array can contain (UMTS only).
pName[OUT]	• Network name or description represented as a NULL terminated string (empty string returned when unknown) (UMTS only).
pSID[OUT]	• Home network system ID – 0xFFFF - Unknown. – Only applies to cdma2000
pNID[OUT]	• Home network ID – 0xFFFF - Unknown. – Only applies to cdma2000

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.19.5.5 ULONG GetHomeNetwork3GPP2 (WORD * *pMCC*, WORD * *pMNC*, BYTE *nameSize*, CHAR * *pName*, WORD * *pSID*, WORD * *pNID*, WORD * *pNw2MCC*, WORD * *pNw2MNC*, BYTE * *pNw2DescDisp*, BYTE * *pNw2DescEnc*, BYTE * *pNw2DescLen*, BYTE * *pNw2Name*)

Retrieves information about the home network of the device. It will extract 3GPP2 Network Information also.

Parameters

pMCC[OUT]	• Mobile country code (UMTS only).
pMNC[OUT]	• Mobile network code (UMTS only).
nameSize	• Maximum number of characters (including NULL terminator) that 8 network name array can contain (UMTS only).
pName[OUT]	• Network name or description represented as a NULL terminated string (empty string returned when unknown) (UMTS only).
pSID[OUT]	• Home network system ID – 0xFFFF - Unknown. – Only applies to cdma2000
pNID[OUT]	• Home network ID – 0xFFFF - Unknown. – Only applies to cdma2000
pNw2MCC[OUT]	• Mobile country code (3GPP2 only). • Range : 0 to 999
pNw2MNC[OUT]	• Mobile network code (3GPP2 only). • Range : 0 to 999
pNw2DescDisp[OUT]	• Network Name Display (3GPP2 only). -Valid Value – 0x00 - Do not display – 0x01 - Display – 0xFF - Unknown
pNw2DescDisp[OUT]	• Encoding of the network description (3GPP2 only). • Valid Value – 0x00 - Octet, unspecified – 0x02 - 7-bit ASCII – 0x04 - Unicode – 0x09 - GSM 7-bit default
nw2DescLen[OUT]	• Network Description Length (3GPP2 only).
pNw2Name[OUT]	• Network Name (3GPP2 only).

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.19.5.6 ULONG GetNetworkPreference (ULONG * *pTechnologyPref,* ULONG * *pDuration,* ULONG * *pPersistentTechnologyPref*)

Returns the network registration preference. This API is deprecated on MC73xx/EM73xx modules since firmware version SWI9X15C_05_xx_xx_xx and all EM74xx firmware versions. Please use API SLQSGetSysSelectionPref() for new firmware versions and new modules

Parameters

pTechnology-Pref[OUT]	• Bitmask representing the radio technology preference set. • No bits set indicates to the device to automatically determine the technology to use • Values: – Bit 0 - Technology is 3GPP2 – Bit 1 - Technology is 3GPP • Any combination of the following may be returned: – Bit 2 - Analog - AMPS if 3GPP2, GSM if 3GPP – Bit 3 - Digital - CDMA if 3GPP2, WCDMA if 3GPP – Bit 4 - HDR – Bit 5 - LTE – Bits 6 to 15 - Reserved
pDuration[OUT]	• Duration of active preference – 0 - Permanent – 1 - Power cycle – 2 - Until the end of the next call or a power cycle – 3 - Until the end of the next call, a specified time, or a power cycle – 4 to 6 - Until the end of the next call
pPersistent-TechnologyPref[-OUT]	• Bit field representing persistent radio technology preference – Same representation as the pTechnologyPref parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.19.5.7 ULONG GetRFInfo (BYTE * *pInstanceSize,* struct RFBandInfoElements * *pRFBandInfo*)

Sets the RFInfoList

Parameters

pInstanceSize[IN/OUT]	• Upon input, maximum number of elements that the RF info instances array can contain. • Upon successful output, actual number of elements in RF info instances array.
pInstances[OUT]	• RF info instances array – See RFBandInfoElements for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.19.5.8 ULONG GetServingNetwork (ULONG * *pRegistrationState,* ULONG * *pCSDomain,* ULONG * *pPSDomain,* ULONG * *pRAN,* BYTE * *pRadioIfacesSize,* BYTE * *pRadioIfaces,* ULONG * *pRoaming,* WORD * *pMCC,* WORD * *pMNC,* BYTE *nameSize,* CHAR * *pName*)

Provides information about the system that provides service to the device. This API is deprecated on MC73xx/EM73xx modules since firmware version SWI9X15C_05_xx_xx_xx and all EM74xx firmware versions. Please use API SLQSNasGetSysInfo() for new firmware versions and new modules

Parameters

pRegistrationState[OUT]	• Registration state: – 0 - Not registered – 1 - Registered – 2 - Searching/Not Registered – 3 - Registration Denied – 4 - Unknown
pCSDomain[OUT]	• Circuit switch domain status: – 0 - Unknown/Not Applicable – 1 - Attached – 2 - Detached

pPSDomain[OUT]	• Packet switch domain status – 0 - Unknown/Not Applicable – 1 - Attached – 2 - Detached
pRAN[OUT]	• Type of radio access network on which mobile is registered: – 0 - Unknown – 1 - cdma2000 network – 2 - UMTS network
pRadioIfacesSize[IN/OUT]	• Upon input, maximum number of elements that the radio interface array contain. • Upon successful output, actual number of elements in the radio interface array.
pRadioIfaces[OUT]	• An array of Radio Interface Technology – See qaGobiApiTableRadioInterfaces.h for the Radio Interface Technologies
pRoaming[OUT]	• Roaming indicator
pMCC[OUT]	• Mobile country code
pMNC[OUT]	• Mobile network code
nameSize	• Maximum number of characters (including NULL terminator) that network name array can contain; applicable only for UMTS networks
pName[OUT]	• Network name or description represented as a NULL terminated string; empty string is returned when unknown; applicable only for UMTS networks

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.19.5.9 ULONG GetServingNetworkCapabilities (BYTE * *pDataCapsSize*, BYTE * *pDataCaps*)

Returns information regarding the data capabilities of the system that currently provides service to the device.

Parameters

pDataCapsSize[IN/OUT]	• Upon input, the maximum number of elements the data capabilities array can contain. • Upon output, the actual number of elements in the data capabilities array.
pDataCaps[OUT]	• Data capabilities array of unsigned long type – 1 - GPRS – 2 - EDGE – 3 - HSDPA – 4 - HSUPA – 5 - WCDMA – 6 - CDMA 1xRTT – 7 - CDMA 1xEV-DO Rev 0 – 8 - CDMA 1xEV-DO Rev. A – 9 - GSM – 10 - EVDO Rev. B – 11 - LTE – 12 - HSDPA Plus – 13 - Dual Carrier HSDPA Plus

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.19.5.10 ULONG GetSignalStrengths (ULONG * *pArraySizes,* INT8 * *pSignalStrength,* ULONG * *pRadioInterface*)

Returns the available signal strengths (in dBm) as measured by the device in an array. The API also provides the corresponding radio radio interfaces in an array. This API is deprecated on MC73xx/EM73xx modules since firmware version SWI9X15C_05_xx_xx_xx and all EM74xx firmware versions. Please use API SLQSNasGetSigInfo() for new firmware versions and new modules

Parameters

pArraySizes[IN/OUT]	• Upon input maximum number of elements that each array can contain. • Upon successful output actual number of elements in the array.
pSignalStrength[OUT]	• Received signal strength array (in dBm)
pRadioInterface[OUT]	• Radio interface technology array of the signal being measured – See qaGobiApiTableRadioInterfaces.h for Radio Interface info

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.19.5.11 ULONG InitiateDomainAttach (ULONG *action*)

Initiates a domain attach/detach of the device. This API is deprecated on MC73xx/EM73xx modules since firmware version SWI9X15C_05_xx_xx_xx and all EM74xx firmware versions. Please use API SLQSSetSysSelectionPref() for new firmware versions and new modules

Parameters

action[IN]	• Domain action to attempt 1 - Attach 2 - Detach

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 seconds

9.19.5.12 ULONG InitiateNetworkRegistration (ULONG *regType*, WORD *mcc*, WORD *mnc*, ULONG *rat*)

Initiates the network registration process. This API is deprecated on MC73xx/EM73xx modules since firmware version SWI9X15C_05_xx_xx_xx and all EM74xx firmware versions. Please use API SLQSSetSysSelectionPref() and SLQSSetBandPreference() for new firmware versions and new modules

Parameters

regType	• Registration type – 1 - Automatic – 2 - Manual
mcc	• Mobile country code

mnc	• Mobile network code
rat	• Radio access technology – 4 - GSM – 5 - UMTS

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: 30 seconds

9.19.5.13 ULONG PerformNetworkScan (BYTE * *pInstanceSize,* BYTE * *pInstances*)

Performs scan for available networks.

Parameters

pInstanceSize[IN/OUT]	• Upon input, maximum number of elements that the network info instance array can contain. • Upon successful output, the actual number of elements in the network info instance array.
pInstances[OUT]	• Network info instance array – See QmiNas3GppNetworkInfo

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: 5 minutes

9.19.5.14 ULONG SetACCOLC (CHAR * *spc,* BYTE *accolc*)

Sets the access overload class (ACCOLC)

Parameters

spc[IN]	• service programming code NULL-terminated string of six digit
ACCOLC[IN]	• ACCOLC : Valid range is 0 to 15

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 5 seconds

9.19.5.15 ULONG SetCDMANetworkParameters (CHAR * *pSPC,* BYTE * *pForceRev0,* BYTE * *pCustomSCP,* ULONG * *pProtocol,* ULONG * *pBroadcast,* ULONG * *pApplication,* ULONG * *pRoaming*)

Sets the CDMA network parameters. Currently the modified settings will not be utilized until the device has been reset. For this reason, the recommended approach when using SetCDMANetworkParameters is for the application to perform the following steps:

1 - Call SetCDMANetworkParameters() 2 - Call SetPower(5) 3 - Call QCWWANDisconnect() 4 - Reconnect after the device power cycles

Parameters

pSPC[IN]	• Six digit service programming code (not necessary when only the roaming field is being set)
pForceRev0[IN]	• (Optional)Force CDMA 1x-EV-DO Rev. 0 mode – 0 - Disabled – 1 - Enabled Note: Enabled can only be specified if pCustomSCP state is set to Disabled
pCustomSCP[IN]	• (Optional)Use a custom config for CDMA 1x-EV-DO SCP – 0 - Disabled – 1 - Enabled Note: Enabled can only be specified if pForceRev0 is set to Disabled

pProtocol[IN]	• Protocol mask for custom SCP config – 0x00000001 - Subtype 2 Physical Layer – 0x00000002 - Enhanced CCMAC – 0x00000004 - Enhanced ACMAC – 0x00000008 - Enhanced FTCMAC – 0x00000010 - Subtype 3 RTCMAC – 0x00000020 - Subsystem 1 RTCMAC – 0x00000040 - Enhanced Idle – 0x00000080 - Generic Multimode Capable Disc Port – 0xFFFFFFFF - Unknown
pBroadcast[IN]	• Broadcast mask for custom SCP config – 0x00000001 - Generic broadcast enabled – 0xFFFFFFFF - Unknown
pApplication[IN]	• Application mask for custom SCP config – 0x00000001 - SN Multiflow Packet Application – 0x00000002 - SN Enhanced Multiflow Packet Application – 0xFFFFFFFF - Unknown
pRoaming[IN]	• Roaming preference – 0 - Automatic – 1 - Home Only – 2 - Affiliated Roaming Only – 3 - Home and Affiliated Roaming – 0xFFFFFFFF - Unknown

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 5 seconds

9.19.5.16 ULONG SetNetworkPreference (ULONG *technologyPref*, ULONG *duration*)

Sets the network registration preference. This API is deprecated on MC73xx/EM73xx modules since firmware version SWI9X15C_05_xx_xx_xx and all EM74xx firmware versions. Please use API SLQSSetSysSelectionPref() for new firmware versions and new modules

Parameters

technologyPref[IN]	• 2 Byte Bitmask representing radio technology preference – No bits set indicates device to automatically determine the technology to use. – Type of technology * Bit 0 - Technology is 3GPP2 * Bit 1 - Technology is 3GPP – Technology-specific protocol bitmask * Bit 2 - Analog · AMPS if 3GPP2, GSM if 3GPP * Bit 3 - Digital · CDMA if 3GPP2, WCDMA if 3GPP * Bit 4 - HDR * Bit 5 - LTE * All other bits are reserved.
duration[IN]	• Duration of active preference – 0 - Persistent – 1 - Power cycle

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.19.5.17 ULONG SLQSConfigSigInfo (sigInfo * *pSigInfo*)

Sets the signal reporting thresholds. This API is deprecated on MC73xx/EM73xx modules since firmware version SWI9X15C_05_xx_xx_xx and all EM74xx firmware versions. Please use SLQSNasConfigSigInfo2() instead for new firmware versions and new modules.

Parameters

pSigInfo[IN]	• See sigInfo for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.19.5.18 ULONG SLQSGetErrorRate (GetErrRateResp * *pGetErrRateResp*)

This API retrieves current error rate information

Parameters

pGetErrRate-Resp[OUT]	• See GetErrRateResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.19.5.19 ULONG SLQSGetNetworkTime (GetNetworkTimeResp * *pGetNetworkTimeResp*)

This API retrieves the last known network time information from the UE.

Parameters

pGetNetwork-TimeResp[OUT]	• See GetNetworkTimeResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.19.5.20 ULONG SLQSGetOperatorNameData (nasOperatorNameResp * *pOperatorNameData*)

Get the operator name data from the network. This API is deprecated on MC73xx/EM73xx modules since firmware version SWI9X15C_05_xx_xx_xx and all EM74xx firmware versions. Please use API SLQSGetPLMNName() for new firmware versions and new modules

Parameters

pOperatorNameData[OUT]	• See nasOperatorNameResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 10 seconds

9.19.5.21 ULONG SLQSGetPLMNName (nasPLMNNameReq * *pPLMNNameReq*, nasPLMNNameResp * *pPLMNNameResp*)

Get the operator name data from the network.

Parameters

pPLMNNameReq[IN]	• See nasPLMNNameReq for more information
pPLMNNameResp[OUT]	• See nasPLMNNameResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 10 seconds

9.19.5.22 ULONG SLQSGetServingSystem (qaQmiServingSystemParam * *pServingSystem*)

Provides information about the system that provides service to the device. This API is deprecated on MC73xx/EM73xx modules since firmware version SWI9X15C_05_xx_xx_xx and all EM74xx firmware versions. Please use API SLQSNasGetSysInfo() for new firmware versions and new modules. Also report available radio interface technology. If there are more than one radio interface, please choose the right interface(usually the first pair).

- See SLQSSetSysSelectionPref

Parameters

pServing-System[OUT]	• serving system parameters obtained from the system

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise.

See Also

See qmerrno.h for eQCWWAN_xxx error values.

Note

Timeout: 2 seconds

9.19.5.23 ULONG SLQSGetSignalStrength (struct slqsSignalStrengthInfo * *pSignalInfo*)

Queries the current signal strength as measured by the device. This API is deprecated on MC73xx/EM73xx modules since firmware version SWI9X15C_05_xx_xx_xx and all EM74xx firmware versions. Please use API SLQSNasGet-SigInfo() for new firmware versions and new modules

Parameters

pSignalInfo[IN/-OUT]	• See slqsSignalStrengthInfo for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.19.5.24 ULONG SLQSGetSysSelectionPref (sysSelectPrefInfo * *pSysSelectPrefInfo*)

Queries the different system selection preferences of the device.

Parameters

pSysSelectPref-Info[OUT]	• See sysSelectPrefInfo for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.19.5.25 ULONG SLQSGetSysSelectionPrefExt (sysSelectPrefExtInfo * *pSysSelectPrefExtInfo*)

Queries the different system selection preferences of the device.

Parameters

pSysSelectPrefExtInfo[OUT]	• See sysSelectPrefExtInfo for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.19.5.26 ULONG SLQSInitiateNetworkRegistration (nasInitNetworkReg * *pNasInitNetRegistrationReg*)

Initiates the network registration process.

Parameters

pNasInitNetRegistrationReq[IN]	• Pointer to structure nasInitNetworkReq – See nasInitNetworkReg for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: 30 seconds

9.19.5.27 ULONG SLQSNasConfigSigInfo2 (setSignalStrengthInfo * *pSetSignalStrengthInfo*)

Sets the signal strength reporting thresholds

Parameters

pSetSignal-StrengthInfo[IN]	• See setSignalStrengthInfo for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds
Mixture of threshold and delta values can be provided in the request. But for each type and RAT,only one of threshold list or delta value is to be provided.

9.19.5.28 ULONG SLQSNasGet3GPP2Subscription (nasGet3GPP2SubscriptionInfoReq * *pGet3GPP2SubsInfoReq*, nasGet3GPP2SubscriptionInfoResp * *pGet3GPP2SubsInfoResp*)

This API retrieves 3GPP2 subscription-related information.

Parameters

pGet3GPP2-SubsInfoReq[IN]	• See nasGet3GPP2SubscriptionInfoReq for more information
pGet3GPP2-SubsInfoResp[-OUT]	• See nasGet3GPP2SubscriptionInfoResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 2 seconds
This command retrieves 3GPP2 subscription-related information. The QMI_ERR_INTERNAL error is returned when no information can be retrieved from the modem.

9.19.5.29 ULONG SLQSNasGetCellLocationInfo (nasCellLocationInfoResp * *pNasCellLocationInfoResp*)

This API retrieves cell location-related information

Parameters

pNasCell-LocationInfo-Resp[OUT]	• See nasCellLocationInfoResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds
This API retrieves cell location-related information, depending on current serving system.

9.19.5.30 ULONG SLQSNASGeteDRXParams (nasGeteDRXParamsResp * *pNasGeteDRXParamsResp*)

This API Retrieves the eDRX (extended discontinuous reception) parameters for the device.

Parameters

pNasGeteDRX-ParamsResp[IN]	• See nasGeteDRXParamsResp for more information.

Returns

eQCWWAN_ERR_sNONE on success, eQCWWAN_xxx error value otherwise.

See Also

See qmerrno.h for eQCWWAN_xxx error values.

Note

Timeout: 5 seconds

9.19.5.31 ULONG SLQSNasGetHDRColorCode (nasGetHDRColorCodeResp * *pGetHDRColorCodeResp*)

This API retrieves the current HDR color code value.

Parameters

pGetHDRColor-CodeResp[OUT]	• See nasGetHDRColorCodeResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.19.5.32 ULONG SLQSNASGetLTECPHYCaInfo (nasGetLTECphyCa * *pLTECPhyCa*)

This API Get LTE CPHY Carrier Info

Parameters

pLTECPhyCa[IN]	• See nasGetLTECphyCa for more information.

Returns

eQCWWAN_ERR_sNONE on success, eQCWWAN_xxx error value otherwise.

See Also

See qmerrno.h for eQCWWAN_xxx error values.

9.19.5.33 ULONG SLQSNasGetRFInfo (NasGetRFInfoResp * *pGetRFInfoResp*)

Gets radio band/channel information regarding the system currently providing service.

Parameters

pGetRFInfo-Resp[IN/OUT]	• See NasGetRFInfoResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.19.5.34 ULONG SLQSNasGetSigInfo (nasGetSigInfoResp * *pGetSigInfoResp*)

This API queries information regarding the signal strength.

Parameters

pGetSigInfo-Resp[OUT]	• See nasGetSigInfoResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds
This command queries the signal strength information for currently active RATs. Information is reported only if the corresponding RATs have signal strength values to be reported. If no signal strength information is available for any RAT, the response message contains only the mandatory response message

9.19.5.35 ULONG SLQSNasGetSysInfo (nasGetSysInfoResp * *pGetSysInfoResp*)

Provides the system information. This API is preferred when trying to get the service status info and serving system info. The API SLQSGetServingSystem() reports similar NAS information, but it is deprecated. Please refer to the header description of API SLQSGetServingSystem() for more information.

Parameters

pGetSysInfo-Resp[OUT]	• See nasGetSysInfoResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds
This API queries current serving system information, including registration information and system property. The registration information for all RATs specified in the mode capability setting are included regardless of registration status. The RAT-specific system property are included only for RATs that are specified in the mode capability setting and which are not in either No Service or Power Save modes.

9.19.5.36 ULONG SLQSNasGetTxRxInfo (nasGetTxRxInfoReq * *pGetTxRxInfoReq,* nasGetTxRxInfoResp * *pGetTxRxInfoResp*)

This API retrieves the detailed Tx/Rx information.

Parameters

pGetTxRxInfo-Req[IN]	• See nasGetTxRxInfoReq for more information
pGetTxRxInfo-Resp[OUT]	• See nasGetTxRxInfoResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds
This command retrieves Tx/Rx information for a radio interface. The Rx chain are included in the response message only if they are enabled.

9.19.5.37 ULONG SLQSNasIndicationRegister (BYTE *systemSelectionInd,* BYTE *DDTMInd,* BYTE *servingSystemInd*)

Register/De-register from NAS (Network access service) broadcast indications. Some callbacks would not be invoked if the indications are not registered. The details are provided in the parameter description.

Parameters

system-SelectionInd[IN]	• system selection preference indication registration. The following callbacks would not be invoked if the indication is disabled. tFNRoamingIndicator tFNDataCapabilities and tFNServingSystem – 0x00 - for disable – 0x01 - for enable – 0xFF - No change - Specifying this parameter indicates that the device will continue to use the existing setting (disable/enable) which has been previously set for the device
DDTMInd[IN]	• DDTM (Data Dedicated Transmission Mode) indication registration. – 0x00 - for disable – 0x01 - for enable – 0xFF - No change - Specifying this parameter indicates that the device will continue to use the existing setting (disable/enable) which has been previously set for the device

servingSystemInd[IN]	• Serving system indication registration. The following callbacks would not be invoked if the indication is disabled. tFNBandPreference – 0x00 - for disable – 0x01 - for enable – 0xFF - No change - Specifying this parameter indicates that the device will continue to use the existing setting (disable/enable) which has been previously set for the device

Returns

eQCWWAN_ERR_sNONE on success, eQCWWAN_xxx error value otherwise.

See Also

See qmerrno.h for eQCWWAN_xxx error values.

Note

Timeout: 2 seconds

9.19.5.38 ULONG SLQSNasIndicationRegisterExt (nasIndicationRegisterReq * *pIndicationRegisterReq*)

This API Registers/De-registers for different NAS (Network access service) indications.

Parameters

pIndicationRegisterReq[IN]	• See nasIndicationRegisterReq for more information

Returns

eQCWWAN_ERR_sNONE on success, eQCWWAN_xxx error value otherwise.

See Also

See qmerrno.h for eQCWWAN_xxx error values.

Note

Timeout: 2 seconds
This API is used by a control point to register/deregister for different QMI_NAS indications. The control point's registration state variables, controlling registration for indications, are modified to reflect the settings indicated in the parameters that are present in the request message. At least one optional parameter must be present in the request.

9.19.5.39 ULONG SLQSNasIndicationRegisterLTECphyCa (BYTE * *bStatus*)

This API Registers/De-registers for NAS CPHY Carrier Info.

Parameters

bStatus[IN]	• Values – 0 - De-register. – 1 - Register.

Returns

eQCWWAN_ERR_sNONE on success, eQCWWAN_xxx error value otherwise.

See Also

See qmerrno.h for eQCWWAN_xxx error values.

9.19.5.40 ULONG SLQSNASSeteDRXParams (nasSeteDRXParamsReq * *pNasSeteDRXParamsReq*)

This API sets the eDRX (extended discontinuous reception) parameters for the device.

Parameters

pNasSeteDRX-ParamsReq[IN]	• See nasSeteDRXParamsReq for more information.

Returns

eQCWWAN_ERR_sNONE on success, eQCWWAN_xxx error value otherwise.

See Also

See qmerrno.h for eQCWWAN_xxx error values.

Note

Timeout: 5 seconds

9.19.5.41 ULONG SLQSNASSwiGetChannelLock (nasSwiGetChannelLockResp * *pNasSwiGetChannelLockResp*)

This API queries the channel or cell which the UE is locked into.

Parameters

pNasSwiGet-ChannelLock[O-UT]	• See nasSwiGetChannelLockResp for more information.

Returns

eQCWWAN_ERR_sNONE on success, eQCWWAN_xxx error value otherwise.

See Also

See qmerrno.h for eQCWWAN_xxx error values.

9.19.5.42 ULONG SLQSNasSwiIndicationRegister (NasSwiIndReg * *pIndRegReq*)

sets the registration state for different QMI_NAS SWI indications

Parameters

pIndRegReq[IN]	• See NasSwiIndReg for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.19.5.43 ULONG SLQSNasSwiModemStatus (swiModemStatusResp * *pModemStatusResp*)

This API requests the device to return the current status of modem.

Parameters

pModemStatus-Resp[OUT]	• See swiModemStatusResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.19.5.44 ULONG SLQSNASSwiSetChannelLock (nasSwiSetChannelLockReq * *pNasSwiSetChannelLockReq*)

This API allows the host to lock the UE to a specific channel or cell.

Parameters

pNasSwiSetChannelLockReq[IN]	• See nasSwiSetChannelLockReq for more information.

Returns

eQCWWAN_ERR_sNONE on success, eQCWWAN_xxx error value otherwise.

See Also

See qmerrno.h for eQCWWAN_xxx error values.

Note

The settings are persistent across reboots.

9.19.5.45 ULONG SLQSPerformNetworkScan (slqsNetworkScanInfo * *pNetworkInfo*)

Performs scan for available networks and scans for RAT info as well.

Parameters

pNetworkInfo[IN/OUT]	• See slqsNetworkScanInfo for more information • Valid pointers to the following structure members are mandatory – pNetworkInfoInstances – pNetworkInfo

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: 5 minutes

9.19.5.46 ULONG SLQSSetBandPreference (ULONGLONG *bandpreference*)

Provides information about the band preference.

Parameters

bandpreference[-IN]	• Bit mask representing the band preference to be set. • Bit position meanings: – 0 - BC0_A - Band Class 0, A-System – 1 - BC0_B - Band Class 0, B-System, Band Class 0 AB , GSM 850 Band – 2 - BC1 - Band Class 1, all blocks – 3 - BC2 - Band Class 2 place holder – 4 - BC3 - Band Class 3, A-System – 5 - BC4 - Band Class 4, all blocks – 6 - BC5 - Band Class 5, all blocks – 7 - GSM_DCS_1800 - GSM DCS band – 8 - GSM_EGSM_900 - GSM Extended GSM (E-GSM) band – 9 - GSM_PGSM_900 - GSM Primary GSM (P-GSM) band – 10 - BC6 - Band Class 6 – 11 - BC7 - Band Class 7 – 12 - BC8 - Band Class 8 – 13 - BC9 - Band Class 9 – 14 - BC10 - Band Class 10 – 15 - BC11 - Band Class 11 – 16 - GSM_450 - GSM 450 band – 17 - GSM_480 - GSM 480 band – 18 - GSM_750 - GSM 750 band – 19 - GSM_850 - GSM 850 band – 20 - GSM_RGSM_900 - GSM Railways GSM Band – 21 - GSM_PCS_1900 - GSM PCS band – 22 - WCDMA_I_IMT_2000 - WCDMA EUROPE JAPAN and CHINA IMT 2100 band – 23 - WCDMA_II_PCS_1900 - WCDMA US PCS 1900 band – 24 - WCDMA_III_1700 - WCDMA EUROPE and CHINA DCS 1800 band – 25 - WCDMA_IV_1700 - WCDMA US 1700 band – 26 - WCDMA_V_850 - WCDMA US 850 band – 27 - WCDMA_VI_800 - WCDMA JAPAN 800 band – 28 - BC12 - Band Class 12 – 29 - BC14 - Band Class 14 – 30 - RESERVED_2 - Reserved 2 – 31 - BC15 - Band Class 15 – 32 - 47 - Reserved – 48 - WCDMA_VII_2600 - WCDMA EUROPE 2600 band – 49 - WCDMA_VIII_900 - WCDMA EUROPE and JAPAN 900 band – 50 - WCDMA_IX_1700 - WCDMA JAPAN 1700 band – 51 to 55 - Reserved – 56 - BBC16 - Band Class 16 – 57 - BC17 - Band Class 17 – 58 - BC18 - Band Class 18 – 59 - BC19 - Band Class 19 – 60 to 64 - Reserved

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise.

See Also

See qmerrno.h for eQCWWAN_xxx error values.

Note

Timeout: 2 seconds

9.19.5.47 ULONG SLQSSetSysSelectionPref (sysSelectPrefParams * *pSysSelectPrefParams*)

Sets the different system selection preferences of the device.

Parameters

pSysSelectPrefParams[IN]	• See sysSelectPrefParams for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.19.5.48 ULONG SLQSSetSysSelectionPrefExt (sysSelectPrefParamsExt * *pSysSelectPrefParamsExt*)

Sets the different system selection preferences of the device.

Parameters

pSysSelectPrefParamsExt[IN]	• See sysSelectPrefParamsExt for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.19.5.49 ULONG SLQSSwiGetHDRPersonality (HDRPersonalityResp * pHDRPersonalityResp)

This API retrieves HDR Personality related information

Parameters

pHDR-Personality-Resp[OUT]	• See HDRPersonalityResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 5 seconds

9.19.5.50 ULONG SLQSSwiGetHDRProtSubtype (HDRProtSubtypResp * pHDRProtSubtypResp)

This API retrieves HDR Prototype Subtype related information

Parameters

pHDRProt-SubtypResp[OU-T]	• See HDRProtSubtypResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 5 seconds

9.19.5.51 ULONG SLQSSwiGetHRPDStats (GetHRPDStatsResp * pGetHRPDStatsResp)

This API retrieves currently acquired HRPD system statistics

Parameters

pGetHRPD-StatsResp[OUT]	• See GetHRPDStatsResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.19.5.52 ULONG SLQSSwiGetLteCQI (LteCQIParm * *pLteCQIResp*)

This API Fetch CQI parameters for LTE data session

Parameters

pLteCQIParm[OUT]	• See LteCQIParm for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.19.5.53 ULONG SLQSSwiGetLteSccRxInfo (LteSccRxInfoResp * *pLteSccRxInfoResp*)

This API retrieves the LTE Secondary carrier Rx signal level information.

Parameters

pGetLteSccRxInforesp[OUT]	• See GetLteSccRxInforesp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.19.5.54 ULONG SLQSSwiNetworkDebug (NetworkDebugResp * *pNetworkDebugResp*)

This API retrieves device and network status details

Parameters

pNetworkDebugResp[OUT]	• See NetworkDebugResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.19.5.55 ULONG SLQSSwiPSDetach (PSDetachReq * *pPSDetachReq*)

This API detaches PS connection.

Parameters

pPSDetachReq[IN]	• See PSDetachReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 5 seconds

9.20 qaGobiApiOmadm.h File Reference

Open Mobile Alliance Device Management Service API function prototypes.

Functions

- ULONG OMADMStartSession (ULONG sessionType)
- ULONG OMADMCancelSession ()

- ULONG OMADMGetSessionInfo (ULONG *pSessionState, ULONG *pSessionType, ULONG *pFailure-Reason, BYTE *pRetryCount, WORD *pSessionPause, WORD *pTimeRemaining)
- ULONG OMADMGetPendingNIA (ULONG *pSessionType, USHORT *pSessionID)

9.20.1 Detailed Description

Open Mobile Alliance Device Management Service API function prototypes.

9.20.2 Function Documentation

9.20.2.1 ULONG OMADMCancelSession ( )

Cancels an ongoing OMA-DM session.

Parameters

None	

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 2 seconds

9.20.2.2 ULONG OMADMGetPendingNIA (ULONG * *pSessionType,* USHORT * *pSessionID*)

Returns information about the pending network-initiated alert

Parameters

SessionType[OUT]	• Session Type – 0x04 - Network-initiated PRL update – 0x05 - Network-initiated device configure
SessionID[OUT]	• Session Id – Unique session ID for NIA request

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 2 seconds

9.20.2.3 ULONG OMADMGetSessionInfo (ULONG * *pSessionState,* ULONG * *pSessionType,* ULONG * *pFailureReason,* BYTE * *pRetryCount,* WORD * *pSessionPause,* WORD * *pTimeRemaining*)

Returns information related to the current (or previous if no session is active) OMA-DM session.

Parameters

SessionState[OUT]	• Session state – 0x00 - Complete, information was updated – 0x01 - Complete, update information is unavailable – 0x02 - Failed – 0x03 - Retrying – 0x04 - Connecting – 0x05 - Connected – 0x06 - Authenticated – 0x07 - Mobile Directory Number (MDN) downloaded – 0x08 - Mobile Station Identifier (MSID) downloaded – 0x09 - PRL downloaded – 0x0A - Mobile IP (MIP) profile downloaded
sessionType[OUT]	• Session State – 0x00 - Client-initiated device configure – 0x01 - Client-initiated PRL update – 0x02 - Client-initiated hands-free activation – 0x03 - Device-initiated hands-free activation – 0x04 - Network-initiated PRL update – 0x05 - Network-initiated device configure
FailureReason[OUT]	• Session failure reason (when state indicates failure) – 0x00 - Unknown – 0x01 - Network is unavailable – 0x02 - Server is unavailable – 0x03 - Authentication failed – 0x04 - Maximum retry exceeded – 0x05 - Session is cancelled
RetryCount[OUT]	• Session retry count (when state indicates retrying)
SessionPause[OUT]	• Session pause timer (in seconds , when state indicates retrying)

Time-Remaining[OUT]	• Pause time remaining (in seconds , when state indicates retrying)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 2 seconds

9.20.2.4 ULONG OMADMStartSession (ULONG *sessionType*)

Starts an OMA-DM session.

Parameters

sessionType	• Session type – 0x00 - Client-initiated device configure – 0x01 - Client-initiated PRL update – 0x02 - Client-initiated hands-free activation

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 2 seconds

9.21 qaGobiApiPds.h File Reference

Position Determination Service API function prototypes.

Data Structures

- struct PDSPositionData
- struct GPSStateInfo
- struct PDSPosMethodStateReq

Macros

- #define DEFAULTBYTEVALUE 0xFF
- #define DEFAULTWORDVALUE 0xFFFF
- #define DEFAULTLONGVALUE 0xFFFFFFFF

Enumerations

- enum {
  eSetServiceAutomaticTrackingDisable =0,
  eSetServiceAutomaticTrackingEnable =1 }

Functions

- ULONG GetPDSState (ULONG *pEnabledStatus, ULONG *pTrackingStatus)
- ULONG SetPDSState (ULONG enable)
- ULONG StartPDSTrackingSessionExt (BYTE sessionControl, BYTE sessionType, BYTE sessionOperation, BYTE sessionServerOption, BYTE fixTimeout, ULONG fixInterval, ULONG fixCount, ULONG fixAccuracy)
- ULONG StopPDSTrackingSession ()
- ULONG PDSInjectTimeReference (ULONGLONG systemTime, USHORT systemDiscontinuities)
- ULONG GetPDSDefaults (ULONG *pOperation, BYTE *pTimeout, ULONG *pInterval, ULONG *pAccuracy)
- ULONG SetPDSDefaults (ULONG operation, BYTE timeout, ULONG interval, ULONG accuracy)
- ULONG GetXTRAAutomaticDownload (ULONG *pbEnabled, USHORT *pInterval)
- ULONG SetXTRAAutomaticDownload (ULONG bEnabled, USHORT interval)
- ULONG GetXTRANetwork (ULONG *pPreference)
- ULONG SetXTRANetwork (ULONG preference)
- ULONG GetXTRAValidity (USHORT *pGPSWeek, USHORT *pGPSWeekOffset, USHORT *pDuration)
- ULONG ForceXTRADownload ()
- ULONG GetServiceAutomaticTracking (ULONG *pbAuto)
- ULONG SetServiceAutomaticTracking (ULONG bAuto)
- ULONG GetPortAutomaticTracking (ULONG *pbAuto)
- ULONG SetPortAutomaticTracking (ULONG bAuto)
- ULONG ResetPDSData (ULONG *pGPSDataMask, ULONG *pCellDataMask)
- ULONG SLQSSetAGPSConfig (ULONG *pServerAddress, ULONG *pServerPort, BYTE *pServerURL, BYTE *pServerURLLength, BYTE *pNetworkMode)
- ULONG SLQSPDSInjectAbsoluteTimeReference (ULONGLONG timeMsec, ULONG timeUncMsec, BYTE timeBase, BYTE forceFlag)
- ULONG SLQSGetAGPSConfig (ULONG *pServerAddress, ULONG *pServerPort, BYTE *pServerURL, BYTE *pServerURLLength, BYTE *pNetworkMode)
- ULONG SLQSPDSInjectPositionData (struct PDSPositionData *pPositionData)
- ULONG SLQSPDSDeterminePosition ()
- ULONG SLQSGetGPSStateInfo (GPSStateInfo *pGPSStateInfo)
- ULONG SLQSSetPositionMethodState (PDSPosMethodStateReq *pPDSPosMethodStateReq)

9.21.1 Detailed Description

Position Determination Service API function prototypes.

9.21.2 Macro Definition Documentation

9.21.2.1 #define DEFAULTBYTEVALUE 0xFF

9.21.2.2 #define DEFAULTLONGVALUE 0xFFFFFFFF

9.21.2.3 #define DEFAULTWORDVALUE 0xFFFF

9.21.3 Enumeration Type Documentation

9.21.3.1 anonymous enum

Enumerator

eSetServiceAutomaticTrackingDisable

eSetServiceAutomaticTrackingEnable

9.21.4 Function Documentation

9.21.4.1 ULONG ForceXTRADownload ( )

Forces the XTRA database to be downloaded to the device.

Parameters

none	

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.21.4.2 ULONG GetPDSDefaults (ULONG * *pOperation,* BYTE * *pTimeout,* ULONG * *pInterval,* ULONG * *pAccuracy*)

Returns the default tracking session configuration. The tracking session configuration is used when a tracking session is automatically started using SetServiceAutomaticTracking or due to the device detecting an application opening the NMEA port.

Parameters

pOperation[OUT]	• Current session operating mode – 0 - Standalone – 1 - MS based – 2 - MS assisted

pTimeout[OUT]	• Maximum amount of time (seconds) to work on each fix, maximum is 255
pInterval[OUT]	• Interval (seconds) between fix requests
pAccuracy[OUT]	• Preferred accuracy threshold (meters)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.21.4.3 ULONG GetPDSState (ULONG * *pEnabledStatus*, ULONG * *pTrackingStatus*)

Returns the current PDS state.

Parameters

pEnabled-Status[OUT]	• Current PDS state – 0 - disable – 1 - enable
pTracking-Status[OUT]	• Current PDS tracking session state • Values: – 0x00 - Unknown – 0x01 - Inactive – 0x02 - Active

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.21.4.4 ULONG GetPortAutomaticTracking (ULONG * *pbAuto*)

Returns the automatic tracking configuration for the NMEA COM port.

Parameters

pbAuto[OUT]	• Automatic tracking enabled for NMEA COM port – 0x00 - Disabled – 0x01 - Enabled

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.21.4.5 ULONG GetServiceAutomaticTracking (ULONG * *pbAuto*)

Returns the automatic tracking state for the service.

Parameters

pbAuto[OUT]	• Automatic tracking session started for service – 0x00 - Disabled – 0x01 - Enabled

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.21.4.6 ULONG GetXTRAAutomaticDownload (ULONG * *pbEnabled,* USHORT * *pInterval*)

Returns the XTRA automatic database download configuration.

Parameters

pbEnabled[OUT]	• Automatic XTRA download status – 0 - Disabled – 1 - Enabled
pInterval[OUT]	• Interval (hours) between XTRA downloads

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.21.4.7 ULONG GetXTRANetwork (ULONG * *pPreference*)

Returns the XTRA WWAN network preference. When automatic XTRA database downloading is enabled this preference determines which WWAN networks will be used to perform the XTRA database download.

Parameters

pPreference[OUT]	• XTRA WWAN network preference – 0x00 - None (any available network) – 0x01 - Home-only, only when on home systems – 0x02 - Roam-only, only when on non-home systems

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.21.4.8 ULONG GetXTRAValidity (USHORT * *pGPSWeek,* USHORT * *pGPSWeekOffset,* USHORT * *pDuration*)

Returns the XTRA database validity period. When automatic XTRA database downloading is enabled the validity period determines when the XTRA database will be updated through a new download.

Parameters

pGPSWeek[OUT]	• Starting GPS week of validity period
pGPSWeekOffset[OUT]	• Starting GPS week offset (minutes) of validity period
pDuration[OUT]	• Length of validity period (hours)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.21.4.9 ULONG PDSInjectTimeReference (ULONGLONG *systemTime,* USHORT *systemDiscontinuities*)

Injects a system time into the PDS engine.

Parameters

systemTime	• System time(milliseconds)
systemDiscontinuities	• Number of system time discontinuities

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.21.4.10 ULONG ResetPDSData (ULONG * *pGPSDataMask,* ULONG * *pCellDataMask*)

Resets the specified PDS data.

Parameters

pGPSDataMask[IN]	• Bitmask of GPS data to clear (optional) – 0x00000001 - EPH – 0x00000002 - ALM – 0x00000004 - POS – 0x00000008 - TIME – 0x00000010 - IONO – 0x00000020 - UTC – 0x00000040 - HEALTH – 0x00000080 - SVDIR – 0x00000100 - SVSTEER – 0x00000200 - SADATA – 0x00000400 - RTI – 0x00000800 - ALM_CORR – 0x00001000 - FREQ_BIAS_EST
pCellDataMask[IN]	• Bitmask of cell data to clear (optional) – 0x00000001 - POS – 0x00000002 - LATEST_GPS_POS – 0x00000004 - OTA_POS – 0x00000008 - EXT_REF_POS – 0x00000010 - TIMETAG – 0x00000020 - CELLID – 0x00000040 - CACHED_CELLID – 0x00000080 - LAST_SRV_CELL – 0x00000100 - CUR_SRV_CELL – 0x00000200 - NEIGHBOR_INFO

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.21.4.11 ULONG SetPDSDefaults (ULONG *operation*, BYTE *timeout*, ULONG *interval*, ULONG *accuracy*)

Sets the default tracking session configuration. The tracking session configuration is used when a tracking session is automatically started using SetServiceAutomaticTracking or due to the device detecting an application opening the NMEA port.

Parameters

operation	• Current session operating mode – 0 - Standalone – 1 - MS based – 2 - MS assisted
timeout	• Maximum amount of time (seconds) to work on each fix, maximum is 255
interval	• Interval (seconds) between fix requests
accuracy	• Preferred accuracy threshold (meters)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.21.4.12 ULONG SetPDSState (ULONG *enable*)

Sets the PDS state.

Parameters

enable[IN]	• Desired PDS state – Zero - disable – Non-Zero - enable

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 Seconds

9.21.4.13 ULONG SetPortAutomaticTracking (ULONG *bAuto*)

Sets the automatic tracking configuration for the NMEA COM port.

Parameters

bAuto[IN]	• Enable automatic tracking for NMEA COM port – 0x00 - Disabled – 0x01 - Enabled

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.21.4.14 ULONG SetServiceAutomaticTracking (ULONG *bAuto*)

Sets the automatic tracking state for the service. Tracking session being started using the default session configuration. Auto-tracking continues to generate fixes indefinitely until requested to be disabled. In StartPDSTrackingSessionExt a tracking session get started using the specified session control method and input parameters. After completion of requested no. of position fixes or service times out to perform fix, tracking session ends and GPS service deactivates.

Parameters

bAuto[IN]	• Automatic tracking session started for service – 0x00 - Disabled – 0x01 - Enabled

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.21.4.15 ULONG SetXTRAAutomaticDownload (ULONG *bEnabled,* USHORT *interval*)

Sets the XTRA automatic database download configuration.

Parameters

bEnabled[IN]	• Automatic XTRA download status – 0 - Disabled – 1 - Enabled
interval[IN]	• Interval (hours) between XTRA downloads

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.21.4.16 ULONG SetXTRANetwork (ULONG *preference*)

Sets the XTRA WWAN network preference. When automatic XTRA database downloading is enabled this preference determines which WWAN networks will be used to perform the XTRA database download.

Parameters

preference[IN]	• XTRA WWAN network preference – 0x00 - None (any available network) – 0x01 - Home-only, only when on home systems – 0x02 - Roam-only, only when on non-home systems

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.21.4.17 ULONG SLQSGetAGPSConfig (ULONG * *pServerAddress*, ULONG * *pServerPort*, BYTE * *pServerURL*, BYTE * *pServerURLLength*, BYTE * *pNetworkMode*)

Gets the PDS AGPS (MS-based) configuration.

Parameters

pServerAddress[OUT]	• IPv4 address of AGPS server. "0" if not set
pServerPort[OUT]	• Port number of AGPS server. "0" if not set
pServerURL[OUT]	• URL of the AGPS server. "0" if not set
pServerURLLength[OUT]	• URL length of AGPS server. "0" if not set
pNetworkMode[IN]	• Network Mode of AGPS Server [optional - should be present in Multimode Systems] – 0x00 - UMTS – 0x01 - CDMA

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.21.4.18 ULONG SLQSGetGPSStateInfo (GPSStateInfo * *pGPSStateInfo*)

Queries the MSM GPS server for receiver state information

Parameters

pGPSStateInfo[OUT]	• contains the GPS State Info • See GPSStateInfo for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 Seconds

9.21.4.19 ULONG SLQSPDSDeterminePosition ( )

Requests the MSM GPS service to obtain the current position for manually controlled tracking sessions.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 Seconds

9.21.4.20 ULONG SLQSPDSInjectAbsoluteTimeReference (ULONGLONG *timeMsec,* ULONG *timeUncMsec,* BYTE *timeBase,* BYTE *forceFlag*)

Injects a absolute time reference into the PDS engine.

Parameters

timeMsec[IN]	• Represents the number of milliseconds elapsed since either a GPS or UTC time base. If the time base is UTC, this value should NOT include leap seconds
timeUncMsec[IN]	• Time uncertainty in milliseconds
timeBase[IN]	• Time base – 0x00 - GPS (midnight, Jan 6, 1980) – 0x01 - UTC (midnight, Jan 1, 1970)
forceFlag[IN]	• Force acceptance of data

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.21.4.21 ULONG SLQSPDSInjectPositionData (struct PDSPositionData * *pPositionData*)

Injects position data into the PDS engine.

Parameters

pPositionData[IN]	• contains the position data to be injected to the PDS engine

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.21.4.22 ULONG SLQSSetAGPSConfig (ULONG * *pServerAddress*, ULONG * *pServerPort*, BYTE * *pServerURL*, BYTE * *pServerURLLength*, BYTE * *pNetworkMode*)

Sets the PDS AGPS (MS-based) configuration.

Parameters

pServerAddress[IN]	• IPv4 address of AGPS server [optional]
pServerPort[IN]	• Port number of AGPS server [optional - should be present when pServerAddress is present]
pServerURL[IN]	• URL of the AGPS server [optional]
pServerURLLength[IN]	• URL length of AGPS server [optional - should be present when pServerURL is present]
pNetworkMode[IN]	• Network Mode of AGPS Server [optional - should be present in Multimode Systems] – 0x00 - UMTS – 0x01 - CDMA

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.21.4.23 ULONG SLQSSetPositionMethodState (PDSPosMethodStateReq * *pPDSPosMethodStateReq*)

Sets the state of positioning methods for the device.

Parameters

pPDSPosMethodStateReq[IN]	• See PDSPosMethodStateReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 Seconds

9.21.4.24 ULONG StartPDSTrackingSessionExt (BYTE *sessionControl,* BYTE *sessionType,* BYTE *sessionOperation,* BYTE *sessionServerOption,* BYTE *fixTimeout,* ULONG *fixInterval,* ULONG *fixCount,* ULONG *fixAccuracy*)

This function starts a PDS tracking session.

Parameters

sessionControl[IN]	• Control method: – 0x0 - Manual
sessionType[IN]	• Type: – 0x0 - New
sessionOperation[IN]	• Operating mode: – 0x00 - Standalone – 0x01 - MS-based
sessionServerOption[IN]	• Location server option: – 0x0 - Default
fixTimeout[IN]	• Maximum time to work on each fix (in seconds, max 255)
fixCount[IN]	• Count of position fix requests for this session (must be at least 1)
fixInterval[IN]	• interval between position fix requests (in seconds)

fixAccuracy[IN]	• Preferred accuracy threshold(in meters)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.21.4.25 ULONG StopPDSTrackingSession ( )

This function stops a PDS tracking session.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.22 qaGobiApiQos.h File Reference

Quality of Service API function prototypes.

Data Structures

- struct dataRate
- struct tokenBucket
- struct pktErrRate
- struct swiQosFlow
- struct IPv4Addr
- struct Tos
- struct IPv6Addr
- struct IPv6TrafCls
- struct Port
- struct swiQosFilter
- struct swiQosReq
- struct swiQosIds
- struct swiQosModifyReq
- struct swiQosGranted
- struct NWProfile
- struct sQosFlowStat
- struct sQosStat
- struct sApnExtraParams

Macros

- #define MAX_QOS_SPEC_PER_APN (10)
- #define MAX_QOS_FILTER_TLV 25

Functions

- ULONG SLQSQosReset (BYTE instance)
- ULONG SLQSQosReq (BYTE instance, swiQosReq *pQosReq, swiQosIds *pQosResp)
- ULONG SLQSQosRel (BYTE instance, swiQosIds *pQosIds)
- ULONG SLQSQosSuspend (BYTE instance, swiQosIds *pQosIds)
- ULONG SLQSQosResume (BYTE instance, swiQosIds *pQosIds)
- ULONG SLQSQosModify (BYTE instance, swiQosModifyReq *pReq)
- ULONG SLQSQosGetGranted (BYTE instance, ULONG id, swiQosGranted *pGranted)
- ULONG SLQSQosGetFlowStatus (BYTE instance, ULONG id, BYTE *pStatus)
- ULONG SLQSQosGetNetworkStatus (BYTE instance, BYTE *pStatus)
- ULONG SLQSQosGetNWProf (BYTE instance, BYTE *pSz, NWProfile *pProfile)
- ULONG SLQSQosSwiReadDataStats (BYTE instance, ULONG apnId, sQosStat *pQosStat)
- ULONG SLQSQosSwiReadApnExtraParams (BYTE instance, ULONG apnId, sApnExtraParams *pApnExtraParams)
- ULONG SetQosMuxID (BYTE instance)

9.22.1 Detailed Description

Quality of Service API function prototypes.

9.22.2 Macro Definition Documentation

9.22.2.1 #define MAX_QOS_FILTER_TLV 25

9.22.2.2 #define MAX_QOS_SPEC_PER_APN (10)

9.22.3 Function Documentation

9.22.3.1 ULONG SetQosMuxID (BYTE *instance*)

Bind MUX ID to Qos instance.

Parameters

in	*instance*	• QMI instance

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.22.3.2 ULONG SLQSQosGetFlowStatus (BYTE *instance*, ULONG *id*, BYTE * *pStatus*)

Get the status of a QoS flow.

Parameters

in	*instance*	• QMI instance
in	*id[IN]*	Qos identifier Index identifying the QoS flow that has been negotiated
out	*pStatus[OUT]*	Qos status Current QoS instance status: • 0x01 – QMI_QOS_STATUS_ACTIVATED • 0x02 – QMI_QOS_STATUS_SUSPENDED • 0x03 – QMI_QOS_STATUS_GONE

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

9.22.3.3 ULONG SLQSQosGetGranted (BYTE *instance*, ULONG *id*, swiQosGranted * *pGranted*)

Retrieve the QoS parameters that are in effect for the specified QoS 16 flow as a result of network negotiation

Parameters

in	*instance*	• QMI instance
in	*id[IN]*	• Qos identifier • Index identifying the QoS flow that has been negotiated
in	*pGranted[OUT]*	• Tx/Rx Qos granted flow • See swiQosGranted for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

9.22.3.4 ULONG SLQSQosGetNetworkStatus (BYTE *instance*, BYTE * *pStatus*)

Queries whether the device is currently on a network that supports QoS

Parameters

	instance[IN]	• QMI instance
out	*pStatus[OUT]*	Network QoS support status • 0 – No QoS support in network • 1 – Network supports QoS

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA

9.22.3.5 ULONG SLQSQosGetNWProf (BYTE *instance*, BYTE * *pSz*, NWProfile * *pProfile*)

Get network supported QoS profile information

Parameters

in	*instance*	• QMI instance
	in/out]	pSz Number of network supported QoS profiles for one technology
out	*pProfile*	Network supported QoS profiles

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

9.22.3.6 ULONG SLQSQosModify (BYTE *instance*, swiQosModifyReq * *pReq*)

Resume one or more existing QoS flows

Warning

NOT IMPLEMENTED

Parameters

in	*instance*	• QMI instance
	pReq[IN]	• See swiQosModifyReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

9.22.3.7 ULONG SLQSQosRel (BYTE *instance*, swiQosIds * *pQosIds*)

Release one or more existing QoS flows

Parameters

in	*instance*	• QMI instance
	pQosIds[IN]	• See swiQosIds for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

9.22.3.8 ULONG SLQSQosReq (BYTE *instance*, swiQosReq * *pQosReq*, swiQosIds * *pQosResp*)

Triggers QoS negotiation by providing QoS parameters

Parameters

instance[IN]	• QMI instance
pQoSReq[IN]	• See swiQosReq for more information
pQosResp[OUT]	• See swiQosIds for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS/CDMA
Device Supported: MC77XX
Timeout: 2 seconds
At least one pair of optional TLVs must be present; Tx QoS Flow Request and Tx QoS Filter Request TLVs must both be present if either one is present; Rx QoS Flow Request and Rx QoS Filter Request TLVs must both be present if either one is present

9.22.3.9 ULONG SLQSQosReset (BYTE *instance*)

Reset the QoS service state variables of the requesting control point

Parameters

in	*instance*	• QMI instance

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA, UMTS & LTE
Device Supported: MC7750
Timeout: 2 seconds

9.22.3.10 ULONG SLQSQosResume (BYTE *instance,* swiQosIds * *pQosIds*)

Resume one or more existing QoS flows

Parameters

in	*instance*	• QMI instance
	pQosIds[IN]	• See swiQosIds for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

9.22.3.11 ULONG SLQSQosSuspend (BYTE *instance*, swiQosIds * *pQosIds*)

Suspend one or more existing QoS flows

Parameters

in	*instance*	• QMI instance
	pQosIds[IN]	• See swiQosIds for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

9.22.3.12 ULONG SLQSQosSwiReadApnExtraParams (BYTE *instance*, ULONG *apnId*, sApnExtraParams * *pApnExtraParams*)

Queries extra APN parameters that are not reported by existing QCT QMI service

Parameters

in	*instance*	• QMI instance
in	*apnId*	• APN id
out	*pApnExtra-Params*	See sApnExtraParams for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.22.3.13 ULONG SLQSQosSwiReadDataStats (BYTE *instance*, ULONG *apnId*, sQosStat * *pQosStat*)

Get the current number of packets and bytes sent, dropped and received for each UL, DL bearer and a sum of them for UL and DL direction in the modem.

Parameters

in	*instance*	• QMI instance
in	*apnId*	• APN id
out	*pQosStat*	See sQosStat for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.23 qaGobiApiRms.h File Reference

Remote Management Service API function prototypes.

Functions

- ULONG GetSMSWake (ULONG *pEnabled, ULONG *pWakeMask)
- ULONG SetSMSWake (ULONG bEnable, ULONG wakeMask)

9.23.1 Detailed Description

Remote Management Service API function prototypes.

9.23.2 Function Documentation

9.23.2.1 ULONG GetSMSWake (ULONG * *pEnabled*, ULONG * *pWakeMask*)

Queries the state of the SMS wake functionality. When enabled SMS wake functionality results in incoming messages being searched for the configured mask. Upon detection of the mask the incoming message is deleted (i.e. not stored in memory) and the device attempts to wake the host (requires host platform support).

Parameters

pEnabled[OUT]	• SMS wake functionality enabled – 0 - Disabled – 1 - Enabled
pWakeMask[OUT]	• SMS wake mask to search for incoming messages (only relevant when enabled)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.23.2.2 ULONG SetSMSWake (ULONG *bEnable,* ULONG *wakeMask*)

Configures the SMS wake functionality. When enabled SMS wake functionality results in incoming messages being searched for the configured mask. Upon detection of the mask the incoming message is deleted (i.e. not stored in memory) and the device attempts to wake the host (requires host platform support).

Parameters

bEnable	• Enable SMS wake functionality – Zero - Disable – Non-Zero - Enable
wakeMask	• SMS wake mask to search for incoming messages (only relevant when enabling)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.24 qaGobiApiSar.h File Reference

Specific Absorption Rate API function prototypes.

Enumerations

- enum eQMISARRFState {
  QMI_SAR_RF_STATE_DEFAULT = 0,
  QMI_SAR_RF_STATE_1,
  QMI_SAR_RF_STATE_2,
  QMI_SAR_RF_STATE_3,
  QMI_SAR_RF_STATE_4,
  QMI_SAR_RF_STATE_5,
  QMI_SAR_RF_STATE_6,
  QMI_SAR_RF_STATE_7,
  QMI_SAR_RF_STATE_8 }

Functions

- ULONG SLQSGetRfSarState (ULONG *pSarRFState)
- ULONG SLQSSetRfSarState (ULONG RfSarState)

9.24.1 Detailed Description

Specific Absorption Rate API function prototypes.

9.24.2 Enumeration Type Documentation

9.24.2.1 enum eQMISARRFState

This enum contains the SAR RF States

Parameters

SAR	RF State • QMI_SAR_RF_STATE_DEFAULT = 0 • QMI_SAR_RF_STATE_1 • QMI_SAR_RF_STATE_2 • QMI_SAR_RF_STATE_3 • QMI_SAR_RF_STATE_4 • QMI_SAR_RF_STATE_5 • QMI_SAR_RF_STATE_6 • QMI_SAR_RF_STATE_7 • QMI_SAR_RF_STATE_8

Enumerator

QMI_SAR_RF_STATE_DEFAULT

QMI_SAR_RF_STATE_1

QMI_SAR_RF_STATE_2

QMI_SAR_RF_STATE_3

QMI_SAR_RF_STATE_4

QMI_SAR_RF_STATE_5

QMI_SAR_RF_STATE_6

QMI_SAR_RF_STATE_7

QMI_SAR_RF_STATE_8

9.24.3 Function Documentation

9.24.3.1 ULONG SLQSGetRfSarState (ULONG * *pSarRFState*)

Gets the specified RF SAR state.

Parameters

pSarRFState	• SAR RF State – QMI_SAR_RF_STATE_DEFAULT – QMI_SAR_RF_STATE_1 – QMI_SAR_RF_STATE_2 – QMI_SAR_RF_STATE_3 – QMI_SAR_RF_STATE_4 – QMI_SAR_RF_STATE_5 – QMI_SAR_RF_STATE_6 – QMI_SAR_RF_STATE_7 – QMI_SAR_RF_STATE_8

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.24.3.2 ULONG SLQSSetRfSarState (ULONG *RfSarState*)

Sets the specified RF SAR state.

Parameters

sar_rf_state	• SAR RF State – QMI_SAR_RF_STATE_DEFAULT – QMI_SAR_RF_STATE_1 – QMI_SAR_RF_STATE_2 – QMI_SAR_RF_STATE_3 – QMI_SAR_RF_STATE_4 – QMI_SAR_RF_STATE_5 – QMI_SAR_RF_STATE_6 – QMI_SAR_RF_STATE_7 – QMI_SAR_RF_STATE_8

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.25 qaGobiApiSms.h File Reference

Short Message Service API function prototypes.

Data Structures

- struct slqssendsmsparams_s
- struct BroadcastConfig
- struct _qaQmi3GPPBroadcastCfgInfo
- struct CDMABroadcastConfig
- struct _qaQmi3GPP2BroadcastCfgInfo
- struct cdmaMsgEncodingParams
- struct cdmaMsgDecodingParams
- struct cdmaMsgDecodingParamsExt
- struct wcdmaMsgEncodingParams
- struct wcdmaMsgDecodingParams
- struct wcdmaLongMsgDecodingParams
- struct _transLayerinfo
- struct _getTransLayerInfoResp
- struct _getTransNWRegInfoResp
- struct _getIndicationRegResp
- struct _setIndicationRegReq
- struct smsRouteEntry
- struct smsSetRoutesReq
- struct smsMsgprotocolResp
- struct smsMaxStorageSizeReq
- struct smsMaxStorageSizeResp
- struct messageWaitingInfoContent
- struct getMsgWaitingInfo
- struct slqssendasyncsmsparams_s

Macros

- #define CONFIG_LEN 0x05
- #define TIME_STAMP_BUF 0x08
- #define ABSOLUTE_VALIDITY 0x08
- #define TIME_DATE_BUF 0x09
- #define MAX_SMS_ROUTES 0x0A
- #define NUM_OF_SET 0xFF

Typedefs

- typedef struct _qaQmi3GPPBroadcastCfgInfo qaQmi3GPPBroadcastCfgInfo
- typedef struct _qaQmi3GPP2BroadcastCfgInfo qaQmi3GPP2BroadcastCfgInfo
- typedef struct _transLayerinfo transLayerInfo
- typedef struct _getTransLayerInfoResp getTransLayerInfoResp
- typedef struct _getTransNWRegInfoResp getTransNWRegInfoResp
- typedef struct _getIndicationRegResp getIndicationRegResp
- typedef struct _setIndicationRegReq setIndicationRegReq

Functions

- ULONG SLQSDeleteSMS (ULONG storageType, ULONG *pMessageIndex, ULONG *pMessageTag, BYTE *pMessageMode)
- ULONG SLQSGetSMS (ULONG storageType, ULONG messageIndex, ULONG *pMessageTag, ULONG *pMessageFormat, ULONG *pMessageSize, BYTE *pMessage, BYTE *pMessageMode)
- ULONG SendSMS (ULONG messageFormat, ULONG messageSize, BYTE *pMessage, ULONG *pMessageFailureCode, BYTE *pSmsOnIms)
- ULONG SLQSSendSMS (slqssendsmsparams_s *pSendSmsParams)
- ULONG GetSMSCAddress (BYTE addressSize, CHAR *pSMSCAddress, BYTE typeSize, CHAR *pSMSCType)
- ULONG SetSMSCAddress (CHAR *pSMSCAddress, CHAR *pSMSCType)
- ULONG SaveSMS (ULONG storageType, ULONG messageFormat, ULONG messageSize, BYTE *pMessage, ULONG *pMessageIndex)
- ULONG SLQSGetSMSList (ULONG storageType, ULONG *pRequestedTag, ULONG *pMessageListSize, BYTE *pMessageList, BYTE *pMessageMode)
- ULONG SLQSModifySMSStatus (ULONG storageType, ULONG messageIndex, ULONG messageTag, BYTE *pMessageMode)
- ULONG SLQSGetSmsBroadcastConfig (BYTE mode, qaQmi3GPPBroadcastCfgInfo *pBroadcastConfig, qaQmi3GPP2BroadcastCfgInfo *pCDMABroadcastConfig)
- ULONG SLQSSetSmsBroadcastConfig (BYTE mode, qaQmi3GPPBroadcastCfgInfo *pBroadcastConfig, qaQmi3GPP2BroadcastCfgInfo *pCDMABroadcastConfig)
- ULONG SLQSSetSmsBroadcastActivation (BYTE mode, BYTE broadcastActivate)
- ULONG SLQSCDMAEncodeMOTextMsg (struct cdmaMsgEncodingParams *pCdmaMsgEncodingParams)
- ULONG SLQSCDMADecodeMTTextMsg (struct cdmaMsgDecodingParams *pCdmaMsgDecodingParams)
- ULONG SLQSCDMADecodeMTTextMsgExt (struct cdmaMsgDecodingParamsExt *pCdmaMsgDecodingParamsExt)
- ULONG SLQSWCDMAEncodeMOTextMsg (struct wcdmaMsgEncodingParams *pWcdmaMsgEncodingParams)
- ULONG SLQSWCDMADecodeMTTextMsg (struct wcdmaMsgDecodingParams *pWcdmaMsgDecodingParams)
- ULONG SLQSWCDMADecodeLongTextMsg (struct wcdmaLongMsgDecodingParams *pWcdmaLongMsgDecodingParams)
- ULONG SLQSGetTransLayerInfo (getTransLayerInfoResp *pGetTransLayerInfoResp)
- ULONG SLQSGetTransNWRegInfo (getTransNWRegInfoResp *pGetTransNWRegInfoResp)
- ULONG SLQSGetIndicationRegister (getIndicationRegResp *pGetIndicationRegInfo)
- ULONG SLQSSetIndicationRegister (setIndicationRegReq *pSetIndicationRegReq)
- ULONG SLQSSmsSetRoutes (smsSetRoutesReq *pSetRoutesReq)
- ULONG SLQSSmsGetMessageProtocol (smsMsgprotocolResp *pMessageProtocol)
- ULONG SLQSSmsGetMaxStorageSize (smsMaxStorageSizeReq *pMaxStorageSizeReq, smsMaxStorageSizeResp *pMaxStorageSizeResp)

- ULONG SLQSGetMessageWaiting (getMsgWaitingInfo *pGetMsgWaitingInfoResp)
- ULONG SLQSSendAsyncSMS (slqssendasyncsmsparams_s *pSendSmsParams)
- ULONG SLQSSetSmsStorage (BYTE smsStorage)
- ULONG SLQSSwiGetSMSStorage (ULONG *pSmsStorage)
- ULONG SLQSSendLongSMS (ULONG messageFormat, ULONG messageSize, CHAR *pMessage, BYTE encodingScheme, ULONG *pMessageFailureCode, CHAR *pMobileNum, BYTE *pSmsOnIMS)

9.25.1 Detailed Description

Short Message Service API function prototypes.

9.25.2 Macro Definition Documentation

9.25.2.1 #define ABSOLUTE_VALIDITY 0x08

9.25.2.2 #define CONFIG_LEN 0x05

9.25.2.3 #define MAX_SMS_ROUTES 0x0A

9.25.2.4 #define NUM_OF_SET 0xFF

9.25.2.5 #define TIME_DATE_BUF 0x09

9.25.2.6 #define TIME_STAMP_BUF 0x08

9.25.3 Typedef Documentation

9.25.3.1 typedef struct _getIndicationRegResp getIndicationRegResp

This structure contains Get Indication Register Response parameters

Parameters

pRegTrans-LayerInfoEvt	- • Optional 1 BYTE parameter indicating registration status of transport layer information events • Values: – 0x00 - Disabled – 0x01 - Enabled • function SLQSGetIndicationRegister() returns a default value 0xFF if this parameter is allocated memory in the structure and no response is received from the device.
pRegTransNW-RegInfoEvt	- • Optional 1 BYTEparameter indicating registration status of transport network registration information events • Values: – 0x00 - Disabled – 0x01 - Enabled • function SLQSGetIndicationRegister() returns a default value 0xFF if this parameter is allocated memory in the structure and no response is received from the device.

pRegCallStat-InfoEvt	- • Optional 1 BYTE parameter indicating registration status of call status information events • Values: – 0x00 - Disabled – 0x01 - Enabled • function SLQSGetIndicationRegister() returns a default value 0xFF if this parameter is allocated memory in the structure and no response is received from the device.

9.25.3.2 typedef struct _getTransLayerInfoResp getTransLayerInfoResp

This structure contains Get Transport Layer Info Response parameters

Parameters

pRegInd	- • Optional parameter indicating if transport layer is registered • Values: – 0x00 - Transport layer is not registered – 0x01 - Transport layer is registered • function SLQSGetTransLayerInfo() returns a default value 0xFF if no response is received from the device.
pTransLayerInfo	• Pointer to structure of transLayerInfo. – Optional parameter – See transLayerInfo for more information • function SLQSGetTransLayerInfo() returns a default value 0xFF for parameter values if no response is received from the device.

9.25.3.3 typedef struct _getTransNWRegInfoResp getTransNWRegInfoResp

This structure contains transport network registration info parameter

Parameters

pRegStatus	- • Optional 1 BYTE parameter indicating transport layer network registration status • Values: – 0x00 - No service – 0x01 - In progress – 0x02 - Failed – 0x03 - Limited Service – 0x04 - Full Service • function SLQSGetTransNWRegInfo() returns a default value 0xFF if no response is received from the device.

9.25.3.4 typedef struct _qaQmi3GPP2BroadcastCfgInfo qaQmi3GPP2BroadcastCfgInfo

This structure contains the 3GPP2 Broadcast Configuration Information parameters

Parameters

activated_ind	• Broadcast SMS – 0x00 - Deactivated – 0x01 - Activated
num_instances	• Number of sets (N) of parameters Following each set describes one entry in the broadcast configuration table. – serviceCategory – language – selected
broadcastConfig	• A CDMABroadcastConfig structure array. • Further defined by the structure CDMABroadcastConfig

9.25.3.5 typedef struct _qaQmi3GPPBroadcastCfgInfo qaQmi3GPPBroadcastCfgInfo

This structure contains the 3GPP Broadcast Configuration Information parameters

Parameters

activated_ind	• Broadcast SMS – 0x00 - Deactivated – 0x01 - Activated
num_instances	• Number of sets (N) of parameters Following each set describes one entry in the broadcast configuration table. – fromServiceId – toServiceId – selected
broadcastConfig	• A BroadcastConfig structure array. • Further defined by the structure BroadcastConfig

9.25.3.6 typedef struct _setIndicationRegReq setIndicationRegReq

This structure contains Indication Register request parameters

Parameters

pRegTrans-LayerInfoEvt	- • Optional 1 BYTE parameter indicating registration status of transport layer information events • Values: – 0x00 - Disabled – 0x01 - Enabled – NULL - No change - specifying NULL indicates that the device will continue to use the existing setting (disable/enable) which has been previously set for the device
pRegTransNW-RegInfoEvt	- • Optional 1 BYTE parameter indicating registration status of transport network registration information events • Values: – 0x00 - Disabled – 0x01 - Enabled – NULL - No change - specifying NULL indicates that the device will continue to use the existing setting (disable/enable) which has been previously set for the device
pRegCallStat-InfoEvt	- • Optional 1 BYTE parameter indicating registration status of call status information events • Values: – 0x00 - Disabled – 0x01 - Enabled – NULL - No change - specifying NULL indicates that the device will continue to use the existing setting (disable/enable) which has been previously set for the device

9.25.3.7 typedef struct _transLayerInfo transLayerInfo

This structure contains Transport Layer Information

Parameters

TransType	• Transport Type – 0x00 - IMS
TransCap	• Transport Capability • Values: – 0x00 - CDMA – 0x01 - GW

9.25.4 Function Documentation

9.25.4.1 ULONG GetSMSCAddress (BYTE *addressSize,* CHAR ∗ *pSMSCAddress,* BYTE *typeSize,* CHAR ∗ *pSMSCType*)

Gets the SMS center address.

Parameters

addressSize	• The maximum number of characters (including NULL terminator) that the SMS center address array can contain.
pSMSC-Address[0UT]	• The SMS center address represented as a NULL terminated string.
typeSize	• The maximum number of characters (including NULL terminator) that the SMS center address type array can contain.
pSMSCType[0U-T]	• The SMS center address type represented as a NULL terminated string.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: ALL
Timeout: 2 seconds

9.25.4.2 ULONG SaveSMS (ULONG *storageType*, ULONG *messageFormat*, ULONG *messageSize*, BYTE * *pMessage*, ULONG * *pMessageIndex*)

Saves an SMS message to device memory

Parameters

storageType[IN]	• SMS message storage type – 0 - UIM - Invalid in case of CDMA device that does not require SIM – 1 - NV
message-Format[IN]	• Message format – 0 - CDMA (IS-637B) – 1 - 5 (Reserved) – 6 - GSM/WCDMA PP
messageSize	• The length of the message contents in bytes
pMessage[IN]	• The message contents
pMessage-Index[OUT]	• The message index assigned by the device

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: ALL
Timeout: 10 seconds

9.25.4.3 ULONG SendSMS (ULONG *messageFormat*, ULONG *messageSize*, BYTE * *pMessage*, ULONG * *pMessageFailureCode*, BYTE * *pSmsOnIms*)

Sends an SMS message for immediate over-the-air transmission

Parameters

messageFormat[IN]	• Message format – 0 - CDMA (IS-637B) – 1 - 5 (Reserved) – 6 - GSM/WCDMA PP
messageSize[IN]	• The length of the message contents in bytes
pMessage[IN]	• The message contents in PDU format contains SMS header and payload message
pSmsOnIms[IN]	• (Optional) SMS on IMS • The message is to be sent on IMS. – 0x00 Message is not to be sent on IMS. – 0x01 Message is to be sent on IMS. – 0x02 to 0xFF Reserved.
pMessageFailureCode[OUT]	• (Optional) Message Failure Code • pointer to message failure code. If cause code is not provided, then value will be 0xFFFFFFFF

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: ALL
Timeout: 5 minutes

9.25.4.4 ULONG SetSMSCAddress (CHAR * *pSMSCAddress*, CHAR * *pSMSCType*)

Sets the SMS center address.

Parameters

pSMSC-Address[IN]	• The SMS center address represented as a NULL terminated string
pSMSCType[IN]	• The SMS center address type represented as a NULL terminated string (optional).

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: ALL
Timeout: 5 seconds

9.25.4.5 ULONG SLQSCDMADecodeMTTextMsg (struct cdmaMsgDecodingParams * *pCdmaMsgDecodingParams*)

Decodes text message to CDMA PDU message

Parameters

pMsgToBe-EncodedCDMA[-IN/OUT]	• Pointer to structure containing parameters needed for decoding

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: None

9.25.4.6 ULONG SLQSCDMADecodeMTTextMsgExt (struct cdmaMsgDecodingParamsExt * *pCdmaMsgDecodingParamsExt*)

Decodes text message to CDMA PDU message Ext

Parameters

pCdmaMsg-Decoding-ParamsExt[IN/O-UT]	• Pointer to structure containing parameters needed for decoding

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: None

9.25.4.7 ULONG SLQSCDMAEncodeMOTextMsg (struct cdmaMsgEncodingParams * *pCdmaMsgEncodingParams*)

Encodes text message to CDMA PDU message.

Parameters

pMsgToBe-EncodedCDMA[-IN/OUT]	• SLQS Runtime Settings Information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: None

9.25.4.8 ULONG SLQSDeleteSMS (ULONG *storageType,* ULONG * *pMessageIndex,* ULONG * *pMessageTag,* BYTE * *pMessageMode*)

Deletes one or more SMSs from device memory. If both of the optional parameters, messageIndex and messageTag, are NULL, all messages are deleted from the storage location specified in the mandatory storageType parameter. The optional index and tag parameters narrow the range of messages being deleted. If an index is specified, the single message with the index from the specified memory store will be deleted. If a tag is specified, all messages in the specified memory store whose tag matches that specified will be deleted.

There are three ways to use this message:

- Specify storageType only

  - Deletes all messages from memory storage
- Specify storageType and a tag
  - Deletes all messages from memory storage that match the given message tag
- Specify storageType and an index
  - Deletes only the message with the given index from memory storage

Parameters

storageType	• SMS message storage type – 0 - UIM - Invalid in case of CDMA device that does not require SIM – 1 - NV
pMessageIndex[IN]	• (Optional) message index
pMessageTag[IN]	• (Optional) message tag – 0 - Read – 1 - Not read – 2 - Mobile originated and sent – 3 - Mobile originated but not yet sent
pMessageMode[IN]	• (Optional) messgae mode • 0x00 - CDMA, LTE (if network type is CDMA) • 0x01 - GW, LTE (if network type is UMTS)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: ALL
Timeout: 10 seconds

9.25.4.9 ULONG SLQSGetIndicationRegister (getIndicationRegResp * *pGetIndicationRegInfo*)

This API provides registration state of different WMS indications.

Parameters

pGetIndicationRegInfo	[OUT] • Pointer to structure of getIndicationRegResp – See getIndicationRegResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Secs

9.25.4.10 ULONG SLQSGetMessageWaiting (getMsgWaitingInfo * *pGetMsgWaitingInfoResp*)

This API provides information about the message waiting information.

Parameters

pGetMsgWaitingInfoResp	[OUT] • Pointer to structure of getMsgWaitingInfoResp – See getMsgWaitingInfoResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Secs

9.25.4.11 ULONG SLQSGetSMS (ULONG *storageType*, ULONG *messageIndex*, ULONG * *pMessageTag*, ULONG * *pMessageFormat*, ULONG * *pMessageSize*, BYTE * *pMessage*, BYTE * *pMessageMode*)

Returns an SMS from device memory.

Parameters

storageType	• SMS message storage type – 0 - UIM - Invalid in case of CDMA device that does not require SIM – 1 - NV
messageIndex	• Message index
pMessageTag[-OUT]	• Message tag – 0 - Read – 1 - Not read – 2 - Mobile originated and sent – 3 - Mobile originated but not yet sent

pMessageFormat[OUT]	• Message format – 0 - CDMA (IS-637B) – 1 - 5 (Reserved) – 6 - GSM/WCDMA PP
pMessageSize[IN/OUT]	• Upon input the maximum number of bytes that can be written to the message array. • Upon successful output the actual number of bytes written to the message array.
pMessage[OUT]	• The message contents array
pMessageMode[IN]	• (Optional) Message Mode • 0x00 - CDMA, LTE (if network type is CDMA) • 0x01 - GW, LTE (if network type is UMTS)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: ALL
Timeout: 5 seconds

9.25.4.12 ULONG SLQSGetSmsBroadcastConfig (BYTE *mode*, qaQmi3GPPBroadcastCfgInfo * *pBroadcastConfig*, qaQmi3GPP2BroadcastCfgInfo * *pCDMABroadcastConfig*)

Provides Information about the SMS BroadcastConfiguration

Parameters

mode[IN]	• Mode – 0x00 - CDMA, LTE (if network type is CDMA) – 0x01 - GW, LTE (if network type is UMTS)
pBroadcastConfig[OUT]	• The data for 3GPP Broadcast Information(Optional).
pCDMABroadcastConfig[OUT]	• The data for 3GPP2 Broadcast Information(Optional).

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: ALL
Timeout: 5 seconds

9.25.4.13 ULONG SLQSGetSMSList (ULONG *storageType*, ULONG * *pRequestedTag*, ULONG * *pMessageListSize*, BYTE * *pMessageList*, BYTE * *pMessageMode*)

Returns the list of SMS messages stored on the device.

Parameters

storageType[IN]	• SMS message storage type – 0 - UIM - Invalid in case of CDMA device that does not require SIM – 1 - NV
pRequestedTag[IN]	• (Optional) Message tag – 0 - Read – 1 - Not read – 2 - Mobile originated and sent – 3 - Mobile originated but not yet sent
pMessageListSize[IN/OUT]	• Upon input the maximum number of elements that the message list array can contain. • Upon successful output the actual number of elements in the message list array.
pMessageList[OUT]	• The message list array
pMessageMode[IN]	• (Optional) Message Mode • 0x00 - CDMA, LTE (if network type is CDMA) • 0x01 - GW, LTE (if network type is UMTS)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: ALL
Timeout: 5 seconds

9.25.4.14 ULONG SLQSGetTransLayerInfo (getTransLayerInfoResp * *pGetTransLayerInfoResp*)

This API provides information about the transport layer.

Parameters

pGetTransLayer-InfoResp	[OUT] • Pointer to structure of getTransLayerInfoResp – See getTransLayerInfoResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Secs

9.25.4.15 ULONG SLQSGetTransNWRegInfo (getTransNWRegInfoResp * *pGetTransNWRegInfoResp*)

This API provides transport layer network registration info.

Parameters

pGetTransNW-RegInfoResp	[OUT] • Pointer to structure of getTransNWRegInfoResp – See getTransNWRegInfoResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Secs

9.25.4.16 ULONG SLQSModifySMSStatus (ULONG *storageType*, ULONG *messageIndex*, ULONG *messageTag*, BYTE * *pMessageMode*)

Modifies the status of an SMS message saved in storage on the device.

Parameters

storageType[IN]	• SMS message storage type – 0 - UIM - Invalid in case of CDMA device that does not require SIM – 1 - NV
messageIndex[IN]	• Message index
messageTag[IN]	• Message tag – 0 - Read – 1 - Not read
pMessageMode[IN]	• (Optional) Message Mode • 0x00 - CDMA, LTE (if network type is CDMA) • 0x01 - GW, LTE (if network type is UMTS)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: ALL
Timeout: 5 seconds

9.25.4.17 ULONG SLQSSendAsyncSMS (slqssendasyncsmsparams_s * *pSendSmsParams*)

Sends an SMS message for immediate over-the-air transmission

Parameters

pSendSmsParams	• structure containing the SMS parameters. Refer slqssendasyncsmsparams_s

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: ALL
Timeout: 5 minutes

9.25.4.18 ULONG SLQSSendLongSMS (ULONG *messageFormat*, ULONG *messageSize*, CHAR * *pMessage*, BYTE *encodingScheme*, ULONG * *pMessageFailureCode*, CHAR * *pMobileNum*, BYTE * *pSmsOnIMS*)

Sends a long SMS message for immediate over-the-air transmission, a short SMS can be sent by this API as well, the input message is text string without any encoding

Parameters

messageFormat[IN]	• Message format – 0 - CDMA (IS-637B) – 1 - 5 (Reserved) – 6 - GSM/WCDMA PP
messageSize[IN]	• Message size of the input message text
pMessage[IN]	• Original message text
encodingScheme[IN]	• Encoding method to generate the PDU – 0 - 7 bit encoding – 4 - 8 bit encoding – 8 - 16 bit UCS2 encoding – others value will be treated as default 7 bit encoding
pMessageFailureCode[OUT]	• message failure code. If cause code is not provided, then value will be 0xFFFFFFFF
pMobileNum[IN]	• Mobile number of the receiver
pSmsOnIMS[IN]	• A flag indicates whether SMS was sent through IMS

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: 3GPP and 3GPP2, but 3GPP2 does not support multiple sms
Timeout: 5 minutes

9.25.4.19 ULONG SLQSSendSMS (slqssendsmsparams_s * *pSendSmsParams*)

Sends an SMS message for immediate over-the-air transmission

Parameters

pSendSms-Params	• structure containing the SMS parameters. Refer slqssendsmsparams_s

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: ALL
Timeout: 5 minutes

9.25.4.20 ULONG SLQSSetIndicationRegister (setIndicationRegReq * *pSetIndicationRegReq*)

This API sets the registration state of different WMS indications.

Parameters

pSetIndication-RegReq	[IN] • Pointer to structure of indicationRegReqParams – See setIndicationRegReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Secs

9.25.4.21 ULONG SLQSSetSmsBroadcastActivation (BYTE *mode,* BYTE *broadcastActivate*)

Enables or disables the reception of broadcast SMS messages.

Parameters

Mode[IN]	• Mode • 0x00 - CDMA, LTE (if network type is CDMA) • 0x01 - GW, LTE (if network type is UMTS)
broadcast-Activate[IN]	• 0x00 - Disable broadcast • 0x01 - Activate broadcast

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: ALL
Timeout: 5 seconds

9.25.4.22 ULONG SLQSSetSmsBroadcastConfig (BYTE *mode*, qaQmi3GPPBroadcastCfgInfo * *pBroadcastConfig*, qaQmi3GPP2BroadcastCfgInfo * *pCDMABroadcastConfig*)

Sets the information about the SMS BroadcastConfiguration

Parameters

mode[IN]	• Mode – 0x00 - CDMA, LTE (if network type is CDMA) – 0x01 - GW, LTE (if network type is UMTS)
pBroadcast-Config[IN]	• The data for 3GPP Broadcast Information(Optional).
pCDMA-Broadcast-Config[IN]	• The data for 3GPP2 Broadcast Information(Optional).

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: ALL
Timeout: 5 seconds

9.25.4.23 ULONG SLQSSetSmsStorage (BYTE *smsStorage*)

Sets the SMS Storage on the device

Parameters

smsStorage[IN]	• SMS Storage – 0x01 - device's permanent memory – 0x02 - UICC

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: ALL
Timeout: 5 seconds

9.25.4.24 ULONG SLQSSmsGetMaxStorageSize (smsMaxStorageSizeReq * *pMaxStorageSizeReq*, smsMaxStorageSizeResp * *pMaxStorageSizeResp*)

This API provides the maximum number of messages that can be stored in the specified memory storage. Also it provides the number of slots currently available

Parameters

pMaxStorage-SizeReq[IN]	• Request parameters for SmsSLQSGetMaxStorageSize – See smsMaxStorageSizeReq for more information
pMaxStorage-SizeResp[OUT]	• Response parameters for SmsSLQSGetMaxStorageSize – See smsMaxStorageSizeResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Secs

9.25.4.25 ULONG SLQSSmsGetMessageProtocol (smsMsgprotocolResp * *pMessageProtocol*)

This API queries the message protocol currently in use for the WMS client.

Parameters

pMessage-Protocol	[OUT} • Pointer to smsMsgprotocolResp – See smsMsgprotocolResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Secs

9.25.4.26 ULONG SLQSSmsSetRoutes (smsSetRoutesReq * *pSetRoutesReq*)

This API sets the action performed on SMS message receipt for specified message routes. It also specifies the action performed on SMS receipt of status reports.

Parameters

pSetRoutesReq	[IN] • Pointer to structure of smsSetRoutesReq – See smsSetRoutesReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Secs

9.25.4.27 ULONG SLQSSwiGetSMSStorage (ULONG * *pSmsStorage*)

This API queries the device to return current SMS configuration that is applied to all incoming and outgoing messages.

Parameters

pSmsStorage[OUT]	• Values: – 0x01 - device's permanent memory – 0x02 - UICC

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 Secs

9.25.4.28 ULONG SLQSWCDMADecodeLongTextMsg (struct wcdmaLongMsgDecodingParams * *pWcdmaLongMsgDecodingParams*)

Decodes WCDMA Long SMS PDU message, returns structure filled with decoded parameters

Parameters

pwcdmaMsg-Decoding-Params[IN/OUT]	• Pointer to parameters required for decoding

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: none

9.25.4.29 ULONG SLQSWCDMADecodeMTTextMsg (struct wcdmaMsgDecodingParams * *pWcdmaMsgDecodingParams*)

Decodes WCDMA PDU message, returns structure filled with decoded parameters

Parameters

pwcdmaMsg-Decoding-Params[IN/OUT]	• Pointer to parameters required for decoding

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: none

9.25.4.30 ULONG SLQSWCDMAEncodeMOTextMsg (struct wcdmaMsgEncodingParams * *pWcdmaMsgEncodingParams*)

Returns the encoded WCDMA PDU message.

Parameters

pwcdmaMsg-Encoding-Params[IN/OUT]	• Pointer to parameters Required for encoding

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: None

9.26 qaGobiApiSwi.h File Reference

SWI API function prototypes.

Functions

- ULONG SLQSGetSdkVersion (CHAR **sdkversionpp)
- ULONG SLQSSendRawQMI (BYTE *pReqBuf, USHORT service, USHORT length, ULONG timeout, BYTE **ppInParm, USHORT *pParamLength)
- int SLQSGetPidof (CHAR *pProcName)

9.26.1 Detailed Description

SWI API function prototypes.

9.26.2 Function Documentation

9.26.2.1 int SLQSGetPidof (CHAR * *pProcName*)

Internal Wrapper function for enabling invocation of SLQS implementation pidof() function

Parameters

pProcName[IN]	• Process name whose PID is to be retrieved

Returns

pid if process exists else 0

See Also

NA

Note

NA

9.26.2.2 ULONG SLQSGetSdkVersion (CHAR ** *sdkversionpp*)

Returns the SDK version string

Parameters

ppString[OUT]	• pointer to pointer of NULL terminated string

Returns

eQCWWAN_ERR_NONE success eQCWWAN_ERR_INVALID_ARG provided pointer is NULL

Note

Technology Supported: N/A Timeout: 2 seconds

9.26.2.3 ULONG SLQSSendRawQMI (BYTE * *pReqBuf,* USHORT *service,* USHORT *length,* ULONG *timeout,* BYTE ** *ppInParm,* USHORT * *pParamLength*)

9.27 qaGobiApiSwiAudio.h File Reference

M2M Audio Service API function prototypes.

Data Structures

- struct GetM2MAudioProfileReq
- struct GetM2MAudioProfileResp
- struct SetM2MAudioProfileReq
- struct GetM2MAudioVolumeReq
- struct GetM2MAudioVolumeResp
- struct SetM2MAudioVolumeReq
- struct PCMparams
- struct SetM2MAudioAVCFGReq
- struct SetM2MAudioLPBKReq
- struct GetM2MSpkrGainReq
- struct GetM2MSpkrGainResp
- struct SetM2MSpkrGainReq
- struct GetM2MAVMuteReq
- struct GetM2MAVMuteResp
- struct SetM2MAVMuteReq

Macros

- #define MAX_LEN_IFACE_TABLE 255

Functions

- ULONG SLQSGetM2MAudioProfile (GetM2MAudioProfileReq *pGetM2MAudioProfileReq, GetM2MAudioProfileResp *pGetM2MAudioProfileResp)
- ULONG SLQSSetM2MAudioProfile (SetM2MAudioProfileReq *pSetM2MAudioProfileReq)
- ULONG SLQSGetM2MAudioVolume (GetM2MAudioVolumeReq *pGetM2MAudioVolumeReq, GetM2MAudioVolumeResp *pGetM2MAudioVolumeResp)
- ULONG SLQSSetM2MAudioVolume (SetM2MAudioVolumeReq *pSetM2MAudioVolumeReq)
- ULONG SLQSSetM2MAudioAVCFG (SetM2MAudioAVCFGReq *pSetM2MAudioAVCFGReq)
- ULONG SLQSSetM2MAudioLPBK (SetM2MAudioLPBKReq *pSetM2MAudioLPBKReq)
- ULONG SLQSSetM2MAudioNVDef ()
- ULONG SLQSGetM2MSpkrGain (GetM2MSpkrGainReq *pSpkrGainReq, GetM2MSpkrGainResp *pSpkrGainResp)
- ULONG SLQSSetM2MSpkrGain (SetM2MSpkrGainReq *pSpkrGainReq)
- ULONG SLQSGetM2MAVMute (GetM2MAVMuteReq *pGetM2MAVMuteReq, GetM2MAVMuteResp *pGetM2MAVMuteResp)
- ULONG SLQSSetM2MAVMute (SetM2MAVMuteReq *pSetM2MAVMuteReq)

9.27.1 Detailed Description

M2M Audio Service API function prototypes.

9.27.2 Macro Definition Documentation

9.27.2.1 #define MAX_LEN_IFACE_TABLE 255

9.27.3 Function Documentation

9.27.3.1 ULONG SLQSGetM2MAudioProfile (GetM2MAudioProfileReq * *pGetM2MAudioProfileReq*, GetM2MAudioProfileResp * *pGetM2MAudioProfileResp*)

This API gets the profile content.

Parameters

pGetM2MAudioProfileReq[OUT]	• See GetM2MAudioProfileReq for more information
pGetM2MAudioProfileResp[OUT]	• See GetM2MAudioProfileResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.27.3.2 ULONG SLQSGetM2MAudioVolume (GetM2MAudioVolumeReq * *pGetM2MAudioVolumeReq*, GetM2MAudioVolumeResp * *pGetM2MAudioVolumeResp*)

This API gets the Volume content.

Parameters

pGetM2MAudioVolumeReq[IN]	• See GetM2MAudioVolumeReq for more information
pGetM2MAudioVolumeResp[OUT]	• See GetM2MAudioVolumeResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.27.3.3 ULONG SLQSGetM2MAVMute (GetM2MAVMuteReq * *pGetM2MAVMuteReq*, GetM2MAVMuteResp * *pGetM2MAVMuteResp*)

This API Gets the AV Mute content.

Parameters

pGetM2MAVMuteReq[IN]	• See GetM2MAVMuteReq for more information
pGetM2MAVMuteResp[OUT]	• See GetM2MAVMuteResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.27.3.4 ULONG SLQSGetM2MSpkrGain (GetM2MSpkrGainReq * *pSpkrGainReq*, GetM2MSpkrGainResp * *pSpkrGainResp*)

This API Gets the SPKRGAIN content.

Parameters

pSpkrGainReq[IN]	• See GetM2MSpkrGainReq for more information
pSpkrGainResp[OUT]	• See GetM2MSpkrGainResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.27.3.5 ULONG SLQSSetM2MAudioAVCFG (SetM2MAudioAVCFGReq * *pSetM2MAudioAVCFGReq*)

This API sets the AVCFG content.

Parameters

pSetM2MAudioAVCFGReq[IN]	• See SetM2MAudioAVCFGReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.27.3.6 ULONG SLQSSetM2MAudioLPBK (SetM2MAudioLPBKReq * *pSetM2MAudioLPBKReq*)

This API sets the LPBK content.

Parameters

pSetM2MAudioLPBKReq[IN]	• See SetM2MAudioLPBKReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.27.3.7 ULONG SLQSSetM2MAudioNVDef ( )

This API sets the NVDef content.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.27.3.8 ULONG SLQSSetM2MAudioProfile (SetM2MAudioProfileReq * *pSetM2MAudioProfileReq*)

This API sets the profile content.

Parameters

pSetM2MAudio-ProfileReq[IN]	• See SetM2MAudioProfileReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.27.3.9 ULONG SLQSSetM2MAudioVolume (SetM2MAudioVolumeReq * *pSetM2MAudioVolumeReq*)

This API sets the Volume content.

Parameters

pSetM2MAudio-VolumeReq[IN]	• See SetM2MAudioVolumeReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.27.3.10 ULONG SLQSSetM2MAVMute (SetM2MAVMuteReq * *pSetM2MAVMuteReq*)

This API Sets the AV Mute content.

Parameters

pSetM2MAV-MuteReq[IN]	• See SetM2MAVMuteReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.27.3.11 ULONG SLQSSetM2MSpkrGain (SetM2MSpkrGainReq * *pSpkrGainReq*)

This API Sets the SPKRGAIN content.

Parameters

pSpkrGainReq[IN]	• See GetM2MSpkrGainReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.28 qaGobiApiSwiAvms.h File Reference

SWI Open Mobile Alliance Device Management Service API function prototypes SWI AVMS QMI Service revision 1.14.

Data Structures

- struct _QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp
- struct _QmiSwiAvmsEventReportConfigResp
- struct _QmiSwiAvmsEventReportNotificationResp
- struct _QmiSwiAvmsEventReportConnectionRequestResp
- struct _QmiSwiAvmsEventReportWAMSParamChangeResp
- struct _QmiSwiAvmsEventReportPackageIDResp
- struct _QmiSwiAvmsEventReportRegStatusResp
- struct _QmiSwiAvmsEventReportDataSessionStatusResp
- struct _QmiSwiAvmsEventReportSessionTypeResp
- struct _QmiSwiAvmsEventReportHTTPStatusResp
- struct _SLQSAVMSSettingsAPNInfo
- struct _SLQSAVMSSettingsConnectionRetryTimers
- struct _SLQSAVMSSettingsPeriodsInfo
- struct _SLQSAVMSSettings
- struct _SLQSAVMSSettings_v2
- struct _QmiSwiAvmsSetSettingsPeriodInfo
- struct _QmiSwiAvmsSetSettingsAPNInfo
- struct _QmiSwiAvmsSetSettingsConnectionRetryTimers
- struct _SLQSAVMSSetSettingsReqPara
- struct _SLQSAVMSSetSettingsReqPara_v2

Macros

- #define MAX_GET_SETTINGS_AVMS_APN_STRING_LENGTH 49
- #define MAX_GET_SETTINGS_AVMS_UNAME_STRING_LENGTH 29
- #define MAX_GET_SETTINGS_AVMS_PWD_STRING_LENGTH 29
- #define QMISWIAVMSSESSIONGETINFO_BINARYUPDATESESSIONINFO_VERSION_LENGTH 128
- #define QMISWIAVMSSESSIONGETINFO_BINARYUPDATESESSIONINFO_NAME_LENGTH 128
- #define QMISWIAVMSSESSIONGETINFO_BINARYUPDATESESSIONINFO_DESC_LENGTH 1024
- #define QMISWIAVMSSESSIONGETINFO_CONFIG_ALERT_MSG_LENGTH 200
- #define MAX_AVMS_RETRY_TIMER_NUMBER 8
- #define MAX_SWI_AVMS_SET_SETTING_APN_LENGTH 49
- #define MAX_SWI_AVMS_SET_SETTING_UNAME_LENGTH 29
- #define MAX_SWI_AVMS_SET_SETTING_PWD_LENGTH 29
- #define MAX_SWI_AVMS_SET_SETTING_CONNECTION_RETRY_TIMMERS 8

Typedefs

- typedef struct _QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp
- typedef struct _QmiSwiAvmsEventReportConfigResp QmiSwiAvmsEventReportConfigResp
- typedef struct _QmiSwiAvmsEventReportNotificationResp QmiSwiAvmsEventReportNotificationResp
- typedef struct _QmiSwiAvmsEventReportConnectionRequestResp QmiSwiAvmsEventReportConnectionRequestResp
- typedef struct _QmiSwiAvmsEventReportWAMSParamChangeResp QmiSwiAvmsEventReportWAMSParamChangeResp
- typedef struct _QmiSwiAvmsEventReportPackageIDResp QmiSwiAvmsEventReportPackageIDResp
- typedef struct _QmiSwiAvmsEventReportRegStatusResp QmiSwiAvmsEventReportRegStatusResp
- typedef struct _QmiSwiAvmsEventReportDataSessionStatusResp QmiSwiAvmsEventReportDataSessionStatusResp
- typedef struct _QmiSwiAvmsEventReportSessionTypeResp QmiSwiAvmsEventReportSessionTypeResp
- typedef struct _QmiSwiAvmsEventReportHTTPStatusResp QmiSwiAvmsEventReportHTTPStatusResp
- typedef struct _SLQSAVMSSettingsAPNInfo SLQSAVMSSettingsAPNInfo
- typedef struct _SLQSAVMSSettingsConnectionRetryTimers SLQSAVMSSettingsConnectionRetryTimers
- typedef struct _SLQSAVMSSettingsPeriodsInfo SLQSAVMSSettingsPeriodsInfo
- typedef struct _SLQSAVMSSettings SLQSAVMSSettings
- typedef struct _SLQSAVMSSettings_v2 SLQSAVMSSettings_v2
- typedef struct _QmiSwiAvmsSetSettingsPeriodInfo QmiSwiAvmsSetSettingsPeriodInfo
- typedef struct _QmiSwiAvmsSetSettingsAPNInfo QmiSwiAvmsSetSettingsAPNInfo
- typedef struct _QmiSwiAvmsSetSettingsConnectionRetryTimers QmiSwiAvmsSetSettingsConnectionRetryTimers
- typedef struct _SLQSAVMSSetSettingsReqPara SLQSAVMSSetSettingsReq
- typedef struct _SLQSAVMSSetSettingsReqPara_v2 SLQSAVMSSetSettingsReq_v2

Functions

- ULONG SLQSAVMSStartSession (BYTE sessionType, ULONG *pSessionResponse)
- ULONG SLQSAVMSStopSession (BYTE sessiontype, BYTE *pSessionRep)
- ULONG SLQSAVMSGetSessionInfo (QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp *pBinaryUpdteSessionInfo, QmiSwiAvmsEventReportConfigResp *pAVMSConfig, QmiSwiAvmsEventReportNotificationResp *pNotif, QmiSwiAvmsEventReportPackageIDResp *pPackageID)
- ULONG SLQSAVMSSelection (BYTE selection, ULONG *pDeferTime, BYTE *pClientPerfOperationFlag, BYTE *pPackageID, WORD *pRejectReason)
- ULONG SLQSAVMSGetSettings (SLQSAVMSSettings *settings)
- ULONG SLQSAVMSGetSettings_v2 (SLQSAVMSSettings_v2 *settings)
- ULONG SLQSAVMSSetSettings (SLQSAVMSSetSettingsReq Request)
- ULONG SLQSAVMSSetSettings_v2 (SLQSAVMSSetSettingsReq_v2 Request)
- ULONG SLQSAVMSSetSettingsIgnoreAutoReboot (SLQSAVMSSetSettingsReq Request)
- ULONG SLQSAVMSSetEventReport ()

9.28.1 Detailed Description

SWI Open Mobile Alliance Device Management Service API function prototypes SWI AVMS QMI Service revision 1.14.

9.28.2 Macro Definition Documentation

9.28.2.1 #define MAX_AVMS_RETRY_TIMER_NUMBER 8

9.28.2.2 #define MAX_GET_SETTINGS_AVMS_APN_STRING_LENGTH 49

9.28.2.3 #define MAX_GET_SETTINGS_AVMS_PWD_STRING_LENGTH 29

9.28.2.4 #define MAX_GET_SETTINGS_AVMS_UNAME_STRING_LENGTH 29

9.28.2.5 #define MAX_SWI_AVMS_SET_SETTING_APN_LENGTH 49

9.28.2.6 #define MAX_SWI_AVMS_SET_SETTING_CONNECTION_RETRY_TIMMERS 8

9.28.2.7 #define MAX_SWI_AVMS_SET_SETTING_PWD_LENGTH 29

9.28.2.8 #define MAX_SWI_AVMS_SET_SETTING_UNAME_LENGTH 29

9.28.2.9 #define QMISWIAVMSSESSIONGETINFO_BINARYUPDATESESSIONINFO_DESC_LENGTH 1024

9.28.2.10 #define QMISWIAVMSSESSIONGETINFO_BINARYUPDATESESSIONINFO_NAME_LENGTH 128

9.28.2.11 #define QMISWIAVMSSESSIONGETINFO_BINARYUPDATESESSIONINFO_VERSION_LENGTH 128

9.28.2.12 #define QMISWIAVMSSESSIONGETINFO_CONFIG_ALERT_MSG_LENGTH 200

9.28.3 Typedef Documentation

9.28.3.1 typedef struct _QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp

Parameters

bBinaryType	: Type • 1 - Firmware. • 2 - User App. • 3 - Legato Framework.
bStat	: State • 0x01 - No binary update available. • 0x02 - Query binary Download. • 0x03 - Binary Downloading. • 0x04 - Binary downloaded. • 0x05 -Query Binary Update. • 0x06 - Binary updating. • 0x07 - Binary updated.

bUserInput-Request	Bit mask of available user inputs. • 0x00 - No user input required. Informational indication. • 0x01 - Accept. • 0x02 - Reject.
wUserInput-Timeout	Timeout for user input in minutes. A value of 0 means no time-out.
ulPkgDownload-Size	The size (in bytes) of the update package
ulPkgDownload-Complete	The number of bytes being downloaded. For downloading state, this value shall be $>$ 0 and incremented toward the pkg_dload_size. For other states, the value shall be 0 as it is meaningless.
wUpdate-CompeteStatus	Result code.This field should be looked at only when the AVMS session is complete.
bSerity	Serity. • 0x01 - Mandatory. • 0x02 - Optional.
wVersionLength	Length of FW Version string in bytes.
szVersion	FW Version string in ASCII.
wNameLength	Length Package Name string in bytes.
szName	Package Name in UCS2.
wDescription-Length	Length of description in bytes.
szDescription	Description of Update Package in USC2.
TlvPresent	Boolean indicating the presence of the TLV in the QMI response

9.28.3.2 typedef struct _QmiSwiAvmsEventReportConfigResp QmiSwiAvmsEventReportConfigResp

Parameters

bState	State. • 0x01 - AVMS Read Request. • 0x02 - AVMS Change Request. • 0x03 - AVMS Config Complete.
bUserInput-Request	Bit mask of available user inputs. • 0x00 - No user input required. Informational indication. • 0x01 - Accept. • 0x02 - Reject.
wUserInput-Timeout	Timeout for user input in seconds. A value of 0 means no time-out
wAlertMsg-Length	Length of Alert message string in bytes.
szAlertMsg	Alert message in UCS2.
TlvPresent	Boolean indicating the presence of the TLV in the QMI response

9.28.3.3 typedef struct _QmiSwiAvmsEventReportConnectionRequestResp QmiSwiAvmsEventReport-ConnectionRequestResp

Parameters

bUserInput-Request	Bit mask of available user inputs. • 0x00 - No user input required. Informational indication. • 0x01 - Accept. • 0x02 - Reject.
bUserInput-Request	Timeout for user input in minutes. A value of 0 means no time-out.
TlvPresent	Boolean indicating the presence of the TLV in the QMI response

9.28.3.4 typedef struct _QmiSwiAvmsEventReportDataSessionStatusResp QmiSwiAvmsEventReportDataSessionStatusResp

Parameters

bType	Notification type. • 0: Data session closed. • 1: Data session activated. • 2: Register made. -3: Data session error.
wErrorCode	LWM2M Session error code. • 0x0000: none
TlvPresent	Boolean indicating the presence of the TLV in the QMI response

9.28.3.5 typedef struct _QmiSwiAvmsEventReportHTTPStatusResp QmiSwiAvmsEventReportHTTPStatusResp

Parameters

wHTTPStatus	See RFC 7231. • 100 - Continue • 101 - Switching Protocols • 200 - OK • 201 - Created • 202 - Accepted • 203 - Non-Authoritative Information • 204 - No Content • 205 - Reset Content • 206 - Partial Content • 300 - Multiple Choices • 301 - Moved Permanently • 302 - Found • 303 - See Other • 304 - Not Modified • 305 - Use Proxy • 307 - Temporary Redirect • 400 - Bad Request • 401 - Unauthorized • 402 - Payment Required • 403 - Forbidden • 404 - Not Found • 405 - Method Not Allowed • 406 - Not Acceptable • 407 - Proxy Authentication Required • 408 - Request Timeout • 409 - Conflict • 410 - Gone • 411 - Length Required • 412 - Precondition Failed • 413 - Payload Too Large • 414 - URI Too Long • 415 - Unsupported Media Type • 416 - Range Not Satisfiable • 417 - Expectation Failed • 426 - Upgrade Required • 500 - Internal Server Error • 501 - Not Implemented • 502 - Bad Gateway • 503 - Service Unavailable • 504 - Gateway Timeout • 505 - HTTP Version Not Supported
TlvPresent	Boolean indicating the presence of the TLV in the QMI response

9.28.3.6 typedef struct _QmiSwiAvmsEventReportNotificationResp QmiSwiAvmsEventReportNotification-Resp

Parameters

bNotification	Notification. • 0x14 - Module starts sending data to server. • 0x15 - Authentication with the server. • 0x16 - session with the server is ended.
wSessionStatus	This field will set to the session status for notifications that occur at the end of a session, zero for all other notifications. • 0x0000: Successful: Session succeeded • 0x0001: Break: Session succeeded • 0x0002: Large Object Handled: Session succeeded • 0x0003: No status: Session succeeded • 0x0004: No more commands: Session succeeded • 0x0005: User cancel: Session cancelled • 0x0100-0x01FF: General errors • 0x0200-0x02FF: Syncml errors • 0x0300-0x03FF: Authentication errors • 0x0400-0x04FF: Protocol errors • 0x0500-0x05FF: Tree errors (DM Only) • 0x0600-0x06FF: Not applicable • 0x0700-0x07FF: Trigger errors • 0x0800-0x08FF: FUMO errors • 0x0900-0x09FF: Communication errors • 0x0A00-0x0AFF: Parsing errors • 0x0B00-0x0CFF: Not applicable • 0x7F00-0x7F12:Insignia errors • 0x7F13: Illegal text: Text received contains illegal characters • 0x7F14: Download failure: Failed to download FOTA image • 0x7F15: Empty session: Session ran successfully, but no information wasa updated • 0x7F16: Factory reset successful: Factory reset succeeded • 0x7F17: Factory reset fail: Factory reset failed
TlvPresent	Boolean indicating the presence of the TLV in the QMI response

9.28.3.7 typedef struct _QmiSwiAvmsEventReportPackageIDResp QmiSwiAvmsEventReportPackageIDResp

Parameters

bPackageID	Package ID of the application binary that this AVMS_EVENT_ID notification is for.
TlvPresent	Boolean indicating the presence of the TLV in the QMI response

9.28.3.8 typedef struct _QmiSwiAvmsEventReportRegStatusResp QmiSwiAvmsEventReportRegStatusResp

Parameters

bRegStatus	LWM2M Registration status. • 0: Need Bootstrap. • 1: Bootstrap made. • 2: Register made. -3: Update made.
TlvPresent	Boolean indicating the presence of the TLV in the QMI response

9.28.3.9 typedef struct _QmiSwiAvmsEventReportSessionTypeResp QmiSwiAvmsEventReportSessionTypeResp

Parameters

bType	Session Type. • 0: Bootstrap session. • 1. DM session
TlvPresent	Boolean indicating the presence of the TLV in the QMI response

9.28.3.10 typedef struct _QmiSwiAvmsEventReportWAMSParamChangeResp QmiSwiAvmsEventReportWAMSParamChangeResp

Parameters

wWamsChangeMask	Mask of WAMS parameters changed. • By default set to 0xFF for all changes. • 0x01 - device_login • 0x02 - device_MD5_key • 0x04 - server_login • 0x08 - server_MD5_key • 0x10 - server_URL • 0x20 - Nonce • 0x40 - Application key
TlvPresent	Boolean indicating the presence of the TLV in the QMI response

9.28.3.11 typedef struct _QmiSwiAvmsSetSettingsAPNInfo QmiSwiAvmsSetSettingsAPNInfo

9.28.3.12 typedef struct _QmiSwiAvmsSetSettingsConnectionRetryTimers QmiSwiAvmsSetSettingsConnectionRetryTimers

9.28.3.13 typedef struct _QmiSwiAvmsSetSettingsPeriodInfo QmiSwiAvmsSetSettingsPeriodInfo

9.28.3.14 typedef struct _SLQSAVMSSetSettingsReqPara SLQSAVMSSetSettingsReq

Sets the AVMS settings requested (For AVC1 service).

Parameters

bAutoConnect[IN]	• Auto Connect to AirVantage server – 0x00 - FALSE – 0x01 - TRUE
bAutoReboot[IN]	• Automatic device reboot when the request is received from AirVantage server – 0x00 - FALSE – 0x01 - TRUE

bFw-Promptdownload[-IN]	• Start Firmware Download promptly/automatically – 0x00 - FALSE – 0x01 - TRUE
bFwPrompt-Update[IN]	• Start Firmware Download promptly/automatically – 0x00 - FALSE – 0x01 - TRUE
FwAutoSDM[-Optional]	- OMA Automatic UI Alert Response • 0x00 - DISABLED • 0x01 - ENABLED ACCEPT • 0x02 - ENABLED REJECT
PollingTimer[-Optional]	• 0-525600 (min) • 0:disabled
Connection-RetryTimers[-Optional]	• See QmiSwiAvmsSetSettingsConnectionRetryTimers for more information
APNInfo[-Optional]	• See QmiSwiAvmsSetSettingsAPNInfo for more information
NotifStore[-Optional]	• 0 : Disabled. • 1 : Enabeld.
PeroidInfo[-Optional]	• See QmiSwiAvmsSetSettingsPeriodInfo for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.28.3.15 typedef struct _SLQSAVMSSetSettingsReqPara_v2 SLQSAVMSSetSettingsReq_v2

Sets the AVMS settings requested (For AVC2 service).

Parameters

bAutoConnect[IN]	• Auto Connect to AirVantage server – 0x00 - FALSE – 0x01 - TRUE
bFwPromptdownload[IN]	• Start Firmware Download promptly/automatically – 0x00 - FALSE – 0x01 - TRUE
bFwPromptUpdate[IN]	• Start Firmware Download promptly/automatically – 0x00 - FALSE – 0x01 - TRUE
FwAutoSDM[Optional]	- OMA Automatic UI Alert Response • 0x00 - DISABLED • 0x01 - ENABLED ACCEPT • 0x02 - ENABLED REJECT
PollingTimer[Optional]	• 0-525600 (min) • 0:disabled
ConnectionRetryTimers[Optional]	• See QmiSwiAvmsSetSettingsConnectionRetryTimers for more information
APNInfo[Optional]	• See QmiSwiAvmsSetSettingsAPNInfo for more information
NotifStore[Optional]	• 0 : Disabled. • 1 : Enabeld.
PeroidInfo[Optional]	• See QmiSwiAvmsSetSettingsPeriodInfo for more information
bAutoReboot[Optional]	• Automatic device reboot when the request is received from AirVantage server – 0x00 - FALSE – 0x01 - TRUE

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Setting PromptFwDownload/PromptFwUpdate as TRUE implies AutoConnect to be also TRUE even if AutoConnect was set FALSE initially. Automatic firmware download/update selection trumps the connection setting flag.

9.28.3.16 typedef struct _SLQSAVMSSettings SLQSAVMSSettings

9.28.3.17 typedef struct _SLQSAVMSSettings_v2 SLQSAVMSSettings_v2

9.28.3.18 typedef struct _SLQSAVMSSettingsAPNInfo SLQSAVMSSettingsAPNInfo

9.28.3.19 typedef struct _SLQSAVMSSettingsConnectionRetryTimers SLQSAVMSSettingsConnectionRetryTimers

9.28.3.20 typedef struct _SLQSAVMSSettingsPeriodsInfo SLQSAVMSSettingsPeriodsInfo

9.28.4 Function Documentation

9.28.4.1 ULONG SLQSAVMSGetSessionInfo (QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp * *pBinaryUpdteSessionInfo*, QmiSwiAvmsEventReportConfigResp * *pAVMSConfig*, QmiSwiAvmsEventReportNotificationResp * *pNotif*, QmiSwiAvmsEventReportPackageIDResp * *pPackageID*)

Returns information related to the current AVMS session.

Parameters

pBinaryUpdteSessionInfo[OUT]	• See QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp for more information.
pAVMSConfig[OUT]	• See QmiSwiAvmsEventReportConfigResp for more information.
pNotif[OUT]	• See QmiSwiAvmsEventReportNotificationResp for more information.
pPackageID[OUT]	• See QmiSwiAvmsEventReportPackageIDResp for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.28.4.2 ULONG SLQSAVMSGetSettings (SLQSAVMSSettings * *settings*)

9.28.4.3 ULONG SLQSAVMSGetSettings_v2 (SLQSAVMSSettings_v2 * *settings*)

9.28.4.4 ULONG SLQSAVMSSelection (BYTE *selection*, ULONG * *pDeferTime*, BYTE * *pClientPerfOperationFlag*, BYTE * *pPackageID*, WORD * *pRejectReason*)

Sends the specified AVMS selection for the current network initiated session.

Parameters

selection[IN]	• AVMS User Selection. – 0x01 - Accept. – 0x02 - Reject. – 0x03 - Defer.
pDeferTime[IN]	• Defer time in minutes. A value of 0 will cause the prompt to be resent immediately.
pClientPerf-OperationFlag[IN]	• Client operation flag after accept. – 0 - if modem performs the operation (download or update). – 1 - if client performs the operation (download or update).
pPackageID[IN]	• Package ID (relevant to Application binary package) – Package ID of the application binary that the client is referring to for its selection. If this field is absent, the modem will assume the package of the most recent AVMS_EVENT_ID notification.
pRejectReason[-IN]	• Reject reason.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.28.4.5 ULONG SLQSAVMSSetEventReport ( )

Sets AVMS Event Report.

Parameters

NULL	

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.28.4.6 ULONG SLQSAVMSSetSettings (SLQSAVMSSetSettingsReq *Request*)

Sets AVMS settings requested (For AVC1 service).

Parameters

Request[IN]	• See SLQSAVMSSetSettingsReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.28.4.7 ULONG SLQSAVMSSetSettings_v2 (SLQSAVMSSetSettingsReq_v2 *Request*)

Sets AVMS settings requested (AVC2 service).

Parameters

Request[IN]	• See SLQSAVMSSetSettingsReq_v2 for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.28.4.8 ULONG SLQSAVMSSetSettingsIgnoreAutoReboot (SLQSAVMSSetSettingsReq *Request*)

Sets AVMS settings requested without Auto Reboot.

Parameters

Request[IN]	• See SLQSAVMSSetSettingsReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.28.4.9 ULONG SLQSAVMSStartSession (BYTE *sessionType,* ULONG * *pSessionResponse*)

Starts an AVMS session.

Parameters

sessionType[IN]	• Session type – 0x01 - FOTA, to check availability of FW Update. This field is mandatory in OMA-DM case but not necessary in LWM2M one. To keep compatibility, this shall be used in LWM2M without any specific treatment.
pSession-Response[OUT]	• Session Response – 0x01 -Available. – 0x02 -Not Available. – 0x03 -Check Timed Out

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.28.4.10 ULONG SLQSAVMSStopSession (BYTE *sessiontype,* BYTE * *pSessionRep*)

Stop an ongoing AVMS session.

Parameters

session[IN]	• Session – 0x01 - FOTA, to check availability of FW Update. – 0xFF - Cancel any active OMADM session.
pSessionRep[OUT]	• Session – 0x01 - FOTA session suspended. – 0xFF - Suspend ongoing FOTA session or stop any other active AVMS session.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.29 qaGobiApiSwiDms.h File Reference

SWI DMS API function prototypes.

Data Structures

- struct SwiDmsSLQSGetUsbNetNum
- struct MTUSizeReq
- struct mtuSize3gppTlv
- struct hrpdMTUSizeTlv
- struct ehrpdMTUSizeTlv
- struct usbMTUSizeTlv
- struct SwiDmsGetMTUResp

Functions

- ULONG SLQSSwiDmsGetUsbNetNum (SwiDmsSLQSGetUsbNetNum *pSwiDmsSLQSGetUsbNetNum)
- ULONG SLQSSwiDmsSetUsbNetNum (BYTE nUsbNetNum)
- ULONG SLQSSwiDmsSetMTU (MTUSizeReq *pMTUSizeReq)
- ULONG SLQSSwiDmsGetMTU (SwiDmsGetMTUResp *pSwiDMSGetMTUResp)

9.29.1 Detailed Description

SWI DMS API function prototypes.

9.29.2 Function Documentation

9.29.2.1 ULONG SLQSSwiDmsGetMTU (SwiDmsGetMTUResp * *pSwiDMSGetMTUResp*)

Returns the preferred MTU Size of the 3GPP, HRPD, EHRPD and USB descriptor Interfaces.

Parameters

pSwiDMSGetMTUResp[OUT]	See SwiDmsGetMTUResp for more information of the input structure

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds

9.29.2.2 ULONG SLQSSwiDmsGetUsbNetNum (SwiDmsSLQSGetUsbNetNum * *pSwiDmsSLQSGetUsbNetNum*)

Used by the control point to get the number of usb networks (QMAP configuration).

Parameters

pSwiDmsSLQSGetUsbNetNum[OUT]	• See SwiDmsSLQSGetUsbNetNum for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.29.2.3 ULONG SLQSSwiDmsSetMTU (MTUSizeReq * *pMTUSizeReq*)

Sets the preferred MTU size for 3GPP, HRPD, EHRPD and USB Descriptor

Parameters

pMTUSizeReq[IN]	See MTUSizeReq for more information of the input structure

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 Seconds. New MTU size effective after modem reboot.

9.29.2.4 ULONG SLQSSwiDmsSetUsbNetNum (BYTE *nUsbNetNum*)

Used by the control point to set the number of usb networks (QMAP configuration).

Parameters

nUsbNetNum[IN]	• value for usb net numbers • range is 0-8

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.30 qaGobiApiSwiOmadms.h File Reference

SWI Open Mobile Alliance Device Management Service API function prototypes SWI OMA-DM QMI Service revision 1.6.

Data Structures

- struct _SLQSOMADMSessionInfo
- struct _SLQSOMADMSettingsReqParams
- struct _SLQSOMADMSettings
- struct _SLQSOMADMSettingsReqParams3

Typedefs

- typedef struct _SLQSOMADMSessionInfo SLQSOMADMSessionInfo
- typedef struct _SLQSOMADMSettingsReqParams SLQSOMADMSettingsReqParams
- typedef struct _SLQSOMADMSettings SLQSOMADMSettings
- typedef struct _SLQSOMADMSettingsReqParams3 SLQSOMADMSettingsReqParams3

Functions

- ULONG SLQSOMADMStartSession (ULONG sessionType)
- ULONG SLQSOMADMCancelSession (ULONG session)
- ULONG SLQSOMADMGetSessionInfo (ULONG ∗pSessionType, SLQSOMADMSessionInfo ∗pResp)
- ULONG SLQSOMADMSendSelection (ULONG selection)
- ULONG SLQSOMADMGetSettings (ULONG ∗pbOMADMEnabled, ULONG ∗pbFOTAdownload, ULONG ∗pbFOTAUpdate)
- ULONG SLQSOMADMSetSettings (ULONG bFOTAdownload, ULONG bFOTAUpdate)
- ULONG SLQSOMADMSetSettings2 (SLQSOMADMSettingsReqParams ∗pSLQSOMADMSettingsReqParams)
- ULONG SLQSOMADMGetSettings2 (SLQSOMADMSettings ∗pSLQSOMADMSettings)
- ULONG SLQSOMADMStartSession2 (ULONG sessionType, ULONG ∗pFwAvailability)
- ULONG SLQSOMADMSendSelection2 (ULONG selection, ULONG ∗pDeferTime, ULONG ∗pRejectReason)
- ULONG SLQSOMADMSetSettings3 (SLQSOMADMSettingsReqParams3 ∗pSLQSOMADMSettingsReqParams3)

9.30.1 Detailed Description

SWI Open Mobile Alliance Device Management Service API function prototypes SWI OMA-DM QMI Service revision 1.6.

9.30.2 Typedef Documentation

9.30.2.1 typedef struct _SLQSOMADMSessionInfo SLQSOMADMSessionInfo

Structure containing the OMA DM Session Info returned by the device. Also used as input parameter to specify the size of variable parameters. (ref. notes)

Parameters

pStatus	• 1 Byte parameter indicating status(optional) – 0x01 - No Firmware available – 0x02 - Query Firmware Download – 0x03 - Firmware Downloading – 0x04 - Firmware Downloaded – 0x05 - Query Firmware Update – 0x06 - Firmware Updating – 0x07 - Firmware Updated
pUpdateCompleteStatus	• 2 byte parameter indicating Update Complete Status(optional) – See qaGobiApiTableSwiOMADMUpdateCompleteStatus.h Update Complete Status
pSeverity	• 1 byte parameter indicating severity(optional) – 0x01 - Mandatory – 0x02 - Optional
pSourceLength	• 2 byte parameter indicating Length of Vendor Name String in Bytes.(optional)

pSource	• Variable length parameter indicating Vendor Name in ASCII(optional)
pPkgName-Length	• 2 byte parameter indicating Length of Package Name String in Bytes.(optional)
pPkgName	• Variable length parameter indicating Package Name in ASCII(optional)
pPkgDesc-Length	• 2 byte parameter indicating Length of Package Description String in Bytes.(optional)
pPkgDescription	• Variable length parameter indicating Package Description in ASCII(optional)
pDateLength	• 2 byte parameter indicating Length of Package Description String in Bytes.(optional)
pDate	• Variable length parameter indicating Package Description in ASCII
pTimeLength	• 2 byte parameter indicating Length of Time String in Bytes.(optional)
pTime	• Variable length parameter indicating Time String in ASCII(optional)
pSessionType	• 1 byte parameter reflects the last session started for Sprint(optional) – 0x00 - No session since boot – 0x01 - Sprint CI-DC Session – 0x02 - Sprint CI-PRL Session – 0x03 - Sprint CI-FUMO Session – 0x04 - Sprint HFA-DC Session – 0x05 - Sprint HFA-PRL Session – 0x06 - Sprint HFA-FUMO Session – 0x07 - Sprint NI Session
pSessionState	• 1 byte parameter indicating session state(optional) – 0x01 - idle – 0x02 - active – 0x03 - pending
pRetryCount	• 1 byte parameter indicating retries left count(optional) – valid values 0 to 6

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

As input parameter the members pSourceLength, pPkgNameLength pPkgDescLength, pDateLength, pTimeLength have to be specified. These should contain the initialized size of pSource, pPkgName, pPkgDescription, pDate, pTime respectively.

9.30.2.2 typedef struct _SLQSOMADMSettings SLQSOMADMSettings

Structure containing the OMA DM settings retrieved from the device

Parameters

pOMADMEnabled[OUT]	• 4 byte parameter indicating OMADM service enabled – 0x00000001 - Client-initiated device configuration – 0x00000002 - Network-initiated device configuration – 0x00000010 - Client-initiated FUMO – 0x00000020 - Network-initiated FUMO • function SLQSOMADMGetSettings2() returns a default value 0xFFFFFFFF in case this parameter is not returned by the modem.
pFOTAdownload[OUT]	• 1 Byte parameter indicating support for FOTA Automatic download – 0x00 - Host permission required before downloading – 0x01 - Automatically start downloading, no host permission required – 0x02 - Automatically start downloading, while not roaming – 0x03 - Automatically reject download – 0x04 - Automatically reject download with “Enterprise Reject Policy” • function SLQSOMADMGetSettings2() returns a default value 0xFF in case this parameter is not returned by the modem.
pFOTAUpdate[OUT]	• 1 byte parameter indicating FOTA Automatic update – 0x00 - User permission required before updating firmware – 0x01 - No user permission required before updating firmware – 0x02 - User permission required, auto update on power up • function SLQSOMADMGetSettings2() returns a default value 0xFF in case this parameter is not returned by the modem.
pAutosdm[OUT]	• 1 byte parameter indicating OMA Automatic UI Alert Response – 0x00 - Disabled – 0x01 - Enabled Accept – 0x02 - Enabled Reject • function SLQSOMADMGetSettings2() returns a default value 0xFF in case this parameter is not returned by the modem.

pFwAutoCheck[-OUT]	• Optional 1 byte parameter indicating OMA Automatic Check for Firmware Update on Power-Up Response – 0x00 - Disabled – 0x01 - Enabled • function SLQSOMADMGetSettings2() returns a default value 0xFF in case this parameter is not returned by the modem.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.30.2.3 typedef struct _SLQSOMADMSettingsReqParams SLQSOMADMSettingsReqParams

Structure containing the OMA DM settings to be set on the device

Parameters

FOTAdownload	• 1 Byte parameter indicating support for FOTA Automatic download – 0x00 - Firmware auto download FALSE – 0x01 - Firmware auto download TRUE
FOTAUpdate	• 1 byte parameter indicating FOTA Automatic update – 0x00 - Firmware auto update FALSE – 0x01 - Firmware auto update TRUE
pAutosdm[IN]	• Optional 1 byte parameter indicating OMA Automatic UI Alert Response – 0x00 - Disabled – 0x01 - Enabled Accept – 0x02 - Enabled Reject

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.30.2.4 typedef struct _SLQSOMADMSettingsReqParams3 SLQSOMADMSettingsReqParams3

Structure containing the OMA DM settings to be set on the device

Parameters

FOTAdownload	• 1 Byte parameter indicating support for FOTA Automatic download – 0x00 - Firmware auto download FALSE – 0x01 - Firmware auto download TRUE
FOTAUpdate	• 1 byte parameter indicating FOTA Automatic update – 0x00 - Firmware auto update FALSE – 0x01 - Firmware auto update TRUE
pAutosdm[IN]	• Optional 1 byte parameter indicating OMA Automatic UI Alert Response – 0x00 - Disabled – 0x01 - Enabled Accept – 0x02 - Enabled Reject
pFwAutoCheck[-IN]	• Optional 1 byte parameter indicating OMA Automatic Check for Firmware Update on Power-Up Response – 0x00 - Disabled – 0x01 - Enabled

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.30.3 Function Documentation

9.30.3.1 ULONG SLQSOMADMCancelSession (ULONG *session*)

Cancels an ongoing OMA-DM session.

Parameters

session[IN]	• Session – 0x01 - FOTA, to check availability of FW Update – 0xFF - Cancel any active OMADM session

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 20 seconds

9.30.3.2 ULONG SLQSOMADMGetSessionInfo (ULONG * *pSessionType,* SLQSOMADMSessionInfo * *pResp*)

Returns information related to the current (or previous if no session is active) OMA-DM session.

Parameters

SessionType[IN]	• Session type – 0x01 - FOTA – 0xFF - Any active OMADM session. If none active, then previous OMADM session
pResp[IN/OUT]	• See SLQSOMADMSessionInfo for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 20 seconds

9.30.3.3 ULONG SLQSOMADMGetSettings (ULONG * *pbOMADMEnabled,* ULONG * *pbFOTAdownload,* ULONG * *pbFOTAUpdate*)

Returns the OMA-DM settings.

Parameters

pbOMADM-Enabled[OUT]	• Device OMADM service enabled – 0x00000001 - Client-initiated device configuration – 0x00000002 - Network-initiated device configuration – 0x00000010 - Client-initiated FUMO – 0x00000020 - Network-initiated FUMO
pbFOT-Adownload[OU-T]	• Firmware AutoDownload – 0x00 - Firmware auto download FALSE – 0x01 - Firmware autod ownload TRUE – 0x02 - Automatically start downloading, while not roaming – 0x03 - Automatically reject download – 0x04 - Automatically reject download with “Enterprise Reject Policy”

pbFOTA-Update[OUT]	• Firmware AutoUpdate – 0x00 - Firmware auto update FALSE – 0x01 - Firmware auto update TRUE

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 20 seconds

9.30.3.4 ULONG SLQSOMADMGetSettings2 (SLQSOMADMSettings * *pSLQSOMADMSettings*)

Retrieves the OMA-DM settings from the device.

Parameters

SLQSOMADM-SettingsReq-Params	• See SLQSOMADMSettings for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 20 seconds

9.30.3.5 ULONG SLQSOMADMSendSelection (ULONG *selection*)

Sends the specified OMA-DM selection for the current network initiated session.

Parameters

selection[IN]	• OMA-DM NIA Selection – 0x01 - Accept – 0x02 - Reject – 0x03 - Defer

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 20 seconds

9.30.3.6 ULONG SLQSOMADMSendSelection2 (ULONG *selection*, ULONG * *pDeferTime*, ULONG * *pRejectReason*)

Sends the specified OMA-DM selection for the current network initiated session.

Parameters

selection[IN]	• OMA-DM NIA Selection – 0x01 - Accept – 0x02 - Reject – 0x03 - Defer
pDeferTime[IN]	• Defer time in minutes. A value of 0 will cause the prompt to be resent immediately. • This TLV is mandatory if selection is set to 0x03.
pRejectReason[IN]	• Reject Reason • This TLV is processed if selection is set to 0x02. If it is not present, the reject reason 0 is used as default.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 20 seconds

9.30.3.7 ULONG SLQSOMADMSetSettings (ULONG *bFOTAdownload*, ULONG *bFOTAUpdate*)

Sets the OMA-DM settings requested.

Parameters

bFOTAdownload[IN]	• Firmware Auto Download – 0x00 - Host permission required before downloading – 0x01 - Automatically start downloading, no host permission required – 0x02 - Automatically start downloading, while not roaming – 0x03 - Automatically reject download – 0x04 - Automatically reject download with "Enterprise Reject Policy"
bFOTAUpdate[IN]	• Firmware Auto Update – 0x00 - User permission required before updating firmware – 0x01 - No user permission required before updating firmware – 0x02 - User permission required, auto update on power up

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 20 seconds

9.30.3.8 ULONG SLQSOMADMSetSettings2 (SLQSOMADMSettingsReqParams * *pSLQSOMADMSettingsReqParams*)

Sets the settings related to OMADM. These settings are saved on the modem across power cycles.

Parameters

pSLQSOMADMSettingsReqParams[IN]	• See SLQSOMADMSettingsReqParams for more information

Note

Timeout: 20 seconds

9.30.3.9 ULONG SLQSOMADMSetSettings3 (SLQSOMADMSettingsReqParams3 * *pSLQSOMADMSettingsReqParams3*)

Sets the settings related to OMADM. These settings are saved on the modem across power cycles.

Parameters

SLQSOMADMSettingsReqParamsExt[IN]	• See SLQSOMADMSettingsReqParamsExt for more information

Note

Timeout: 20 seconds

9.30.3.10 ULONG SLQSOMADMStartSession (ULONG *sessionType*)

Starts an OMA-DM session.

Parameters

sessionType[IN]	• Session type – 0x01 - FOTA, to check availability of FW Update – 0x02 - DM, to check availability of DM Update – 0x03 - PRL, to check availability of PRL Update

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 20 seconds

9.30.3.11 ULONG SLQSOMADMStartSession2 (ULONG *sessionType,* ULONG * *pFwAvailability*)

Starts an OMA-DM session.

Parameters

sessionType[IN]	• Session type – 0x01 - FOTA, to check availability of FW Update – 0x02 - DM, to check availability of DM Update – 0x03 - PRL, to check availability of PRL Update
pFwAvailability[-OUT]	• OMA-DM CHECK FW Available – 0x00000001 - FW Available. For CIDC and CIPRL, this value will be returned by the modem. CIDC and CIPRL are asynchronous OMADM sessions. – 0x00000002 - FW Not Available – 0x00000003 - FW Check Timed Out

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 20 seconds

9.31 qaGobiApiTableBandClasses.h File Reference

Network Access Service API Band Classes table.

9.31.1 Detailed Description

Network Access Service API Band Classes table.

9.31.2 Band Classes (Value - Description)

- 0 - CDMA Band Class 0
- 1 - CDMA Band Class 1
- 3 - CDMA Band Class 3
- 4 - CDMA Band Class 4
- 5 - CDMA Band Class 5
- 6 - CDMA Band Class 6
- 7 - CDMA Band Class 7
- 8 - CDMA Band Class 8
- 9 - CDMA Band Class 9
- 10 - CDMA Band Class 10
- 11 - CDMA Band Class 11
- 12 - CDMA Band Class 12
- 13 - CDMA Band Class 13
- 14 - CDMA Band Class 14
- 15 - CDMA Band Class 15
- 16 - CDMA Band Class 16
- 17 - CDMA Band Class 17
- 18 - CDMA Band Class 18
- 19 - CDMA Band Class 19
- 40 - GSM 450
- 41 - GSM 480
- 42 - GSM 750
- 43 - GSM 850

- 44 - GSM 900 (Extended)
- 45 - GSM 900 (Primary)
- 46 - GSM 900 (Railways)
- 47 - GSM 1800
- 48 - GSM 1900
- 80 - WCDMA 2100
- 81 - WCDMA PCS 1900
- 82 - WCDMA DCS 1800
- 83 - WCDMA 1700 (US)
- 84 - WCDMA 850
- 85 - WCDMA 800
- 86 - WCDMA 2600
- 87 - WCDMA 900
- 88 - WCDMA 1700 (Japan)
- 90 - WCDMA 1500 band (Japan)
- 91 - WCDMA 850 band (Japan)
- < Reserved 89, 92-109 for WCDMA band classes>
- 110 - WLAN US 2400 MHz
- 111 - WLAN JAPAN 2400 MHz
- 112 - WLAN EUROPEAN 2400 MHz
- 113 - WLAN FRANCE 2400 MHz
- 114 - WLAN SPAIN 2400 MHz
- 115 - WLAN US 5000 MHz band
- 116 - WLAN JAPAN 5000 MHz
- 117 - WLAN EUROPEAN 5000 MHz
- 118 - WLAN FRANCE 5000 MHz
- 119 - WLAN SPAIN 5000 MHz

9.31.2.1 LTE Bands

- 28 - LTE Band Class 28
- 39 - LTE Band Class 39
- 40 - LTE Band Class 40
- 41 - LTE Band Class 41
- 120 - FDD UL:1920-1980; DL:2110-2170; E-UTRA Operating Band 1
- 121 - FDD UL:1850-1910; DL:1930-1990; E-UTRA Operating Band 2
- 122 - FDD UL:1710-1785; DL:1805-1880; E-UTRA Operating Band 3

- 123 - FDD UL:1710-1755; DL:2110-2155; E-UTRA Operating Band 4
- 124 - FDD UL: 824- 849; DL: 869- 894; E-UTRA Operating Band 5
- 125 - FDD UL: 830- 840; DL: 875- 885; E-UTRA Operating Band 6
- 126 - FDD UL:2500-2570; DL:2620-2690; E-UTRA Operating Band 7
- 127 - FDD UL: 880- 915; DL: 925- 960; E-UTRA Operating Band 8
- 128 - FDD UL:1749.9-1784.9; DL:1844.9-1879.9; E-UTRA Operating Band 9
- 129 - FDD UL:1710-1770; DL:2110-2170; E-UTRA Operating Band 10
- 130 - FDD UL:1427.9-1452.9; DL:1475.9-1500.9; E-UTRA Operating Band 11
- 131 - FDD UL:698-716; DL:728-746; E-UTRA Operating Band 12
- 132 - FDD UL: 777- 787; DL: 746-756; E-UTRA Operating Band 13
- 133 - FDD UL: 788- 798; DL: 758-768; E-UTRA Operating Band 14
- 134 - FDD UL: 704-716; DL: 734-746; E-UTRA Operating Band 17
- 135 - TDD LTE UL: 1900-1920; DL: 1900-1920; E-UTRA Operating Band 33
- 136 - TDD LTE UL: 2010-2025; DL: 2010-2025; E-UTRA Operating Band 34
- 137 - TDD LTE UL: 1850-1910; DL: 1850-1910; E-UTRA Operating Band 35
- 138 - TDD LTE UL: 1930-1990; DL: 1930-1990; E-UTRA Operating Band 36
- 139 - TDD LTE UL: 1910-1930; DL: 1910-1930; E-UTRA Operating Band 37
- 140 - TDD LTE UL: 2570-2620; DL: 2570-2620; E-UTRA Operating Band 38
- 141 - TDD LTE UL: 1880-1920; DL: 1880-1920; E-UTRA Operating Band 39
- 142 - TDD LTE UL: 2300-2400; DL: 2300-2400; E-UTRA Operating Band 40
- 143 - FDD LTE UL: 815-830; DL: 860-875; E-UTRA Operating Band 18
- 144 - FDD LTE UL: 830-845; DL: 875-890; E-UTRA Operating Band 19
- 145 - FDD LTE UL: 832-862; DL: 791-821; E-UTRA Operating Band 20
- 146 - FDD LTE UL: 1447.9-1462.9; DL: 1495.9-1510.9; E-UTRA Operating Band 21
- 147 - FDD LTE UL: 1626.5-1660.5; DL: 1525-1559; E-UTRA Operating Band 24
- 148 - FDD LTE UL: 1850-19195; DL: 1930-1995; E-UTRA Operating Band 25
- 149 - TDD LTE UL: 2496-2690; DL: 2496-2690; E-UTRA Operating Band 41
- 150 - TDD LTE UL: 3400-3600; DL: 3400-3600; E-UTRA Operating Band 42
- 151 - TDD LTE UL: 3600-3800; DL: 3600-3800; E-UTRA Operating Band 43
- 200 - TD-SCDMA Band A
- 201 - TD-SCDMA Band B
- 202 - TD-SCDMA Band C
- 203 - TD-SCDMA Band D
- 204 - TD-SCDMA Band E
- 205 - TD-SCDMA Band F
- 250 - NR5G Band 1
- 251 - NR5G Band 2

Copyright: © 2011 Sierra Wireless, Inc. all rights reserved

9.32 qaGobiApiTableCallControlReturnReasons.h File Reference

Call Control Return Reasons table.

9.32.1 Detailed Description

Call Control Return Reasons table.

9.32.2 S1

- 0x01 - QMI_VOICE_REASON_FWD_UNCONDITIONAL - Unconditional call forwarding
- 0x02 - QMI_VOICE_REASON_FWD_MOBILEBUSY - Forward when the mobile is busy
- 0x03 - QMI_VOICE_REASON_FWD_NOREPLY - Forward when there is no reply
- 0x04 - QMI_VOICE_REASON_FWD_UNREACHABLE - Forward when the call is unreachable
- 0x05 - QMI_VOICE_REASON_FWD_ALLFORWARDING - All forwarding
- 0x06 - QMI_VOICE_REASON_FWD_ALLCONDITIONAL - All conditional forwarding
- 0x07 - QMI_VOICE_REASON_BARR_ALLOUTGOING - All outgoing
- 0x08 - QMI_VOICE_REASON_BARR_OUTGOINGINT - Outgoing internal
- 0x09 - QMI_VOICE_REASON_BARR_OUTGOINGINTEXTOHOME - Outgoing external to home
- 0x0A - QMI_VOICE_REASON_BARR_ALLINCOMING - All incoming
- 0x0B - QMI_VOICE_REASON_BARR_INCOMINGROAMING - Roaming incoming
- 0x0C - QMI_VOICE_REASON_BARR_ALLBARRING - All calls are barred
- 0x0D - QMI_VOICE_REASON_BARR_ALLOUTGOINGBARRING - All outgoing calls are barred
- 0x0E - QMI_VOICE_REASON_BARR_ALLINCOMINGBARRING - All incoming calls are barred
- 0x0F - QMI_VOICE_REASON_CALLWAITING - Call waiting
- 0x10 - VOICE_CC_SUPS_RESULT_REASON_CLIP - CLIP
- 0x11 - VOICE_CC_SUPS_RESULT_REASON_CLIR - CLIR
- 0x12 - VOICE_CC_SUPS_RESULT_REASON_COLP - COLP
- 0x13 - VOICE_CC_SUPS_RESULT_REASON_COLR - COLR
- 0x14 - VOICE_CC_SUPS_RESULT_REASON_CNAP - CNAP
- 0xFF - Not Available

Copyright: © 2012 Sierra Wireless, Inc. all rights reserved

9.33 qaGobiApiTableCallEndReasons.h File Reference

Wireless Data Service Call End Reasons.

9.33.1 Detailed Description

Wireless Data Service Call End Reasons.

9.33.2 Call end reason codes (Code - Reason)

9.33.2.1 Technology-agnostic call end reasons

- 1 - Reason unspecified, check the verbose call end reason
- 2 - Client ended the call
- 3 - Device has no service
- 4 - Call ended abnormally
- 5 - Received release from base station; no reason given
- 6 - Access attempt already in progress; SD2.0 only
- 7 - Access failure for reason other than the above
- 8 - Call rejected because of redirection or handoff
- 9 - Call failed because close is in progress
- 10 - Authentication failed, 3GPP equivalent ESM(EPS Session Management) cause code value 29, User authentication failed
- 11 - Call ended because of internal call end. This error code is returned when data call is brought down due to some unknown error, such as not specific to any RAT
- 12 - Call ended because of internal error. This error code is returned when data call is brought down due to some unspecified internal error, such as NULL pointer
- 13 - Internal unknown cause code

9.33.2.2 EVDO CDMA 1xEV-DO

- 500 - Device is CDMA-locked until power cycle
- 501 - Received intercept from base station; origination only
- 502 - Received reorder from base station; origination only
- 503 - Received release from base station; service option reject
- 504 - Received incoming call from base station
- 505 - Received alert stop from base station; incoming only
- 506 - Received end activation; OTASP call only
- 507 - Max access probes transmitted
- 508 - Concurrent service is not supported by base station
- 509 - No response received from base station
- 510 - Call rejected by the base station; CDMA only
- 511 - Concurrent services requested were not compatible; CDMA only
- 512 - Corresponds to CM CALL ORIG ERR ALREADY IN TC
- 513 - Used if Call manager subsystem is ending a GPS call in favor of a user call
- 514 - Used if Call manager subsystem is ending a SMS call in favor of a user call
- 515 - CDMA Only; Device has no service

9.33.2.3 WCDMA/GSM call end reasons

- 1000 - Call origination request failed; WCDMA/GSM Only
- 1001 - Client rejected the incoming call; WCDMA/GSM Only
- 1002 - Device has no UMTS service; WCDMA/GSM Only
- 1003 - Network ended the call, look in cc call; WCDMA/GSM Only
- 1004 - LLC(Logical Link Control) or SNDCP(Sub Network Dependent Convergence Protocol) failure
- 1005 - Insufficient resources, 3GPP equivalent ESM(EPS Session Management) cause code value 26, Insufficient resources
- 1006 - Service option temporarily out of order, 3GPP equivalent ESM(EPS Session Management) cause code value 34, Service option temporarily out of order
- 1007 - PTI already used, 3GPP equivalent ESM(EPS Session Management) cause code value 35, PTI(-Procedure Transaction Identity) already in use
- 1008 - Regular PDP context deactivation, 3GPP equivalent ESM(EPS Session Management) cause code value 36, Regular deactivation
- 1009 - Network failure, 3GPP equivalent ESM(EPS Session Management) cause code value 38, Network failure
- 1010 - Reactivation requested, 3GPP equivalent ESM(EPS Session Management) cause code value 39, Reactivation requested
- 1011 - Protocol error, unspecified, 3GPP equivalent ESM(EPS Session Management) cause code value 111, Protocol error, unspecified
- 1012 - Operator determined barring, 3GPP equivalent ESM(EPS Session Management) cause code value 8, Operator Determined Barring
- 1013 - Unknown or missing Access Point Name (APN), 3GPP equivalent ESM(EPS Session Management) cause code value 27, Missing or unknown APN
- 1014 - Unknown PDP address or PDP type, 3GPP equivalent ESM(EPS Session Management) cause code value 28, Unknown PDN type
- 1015 - Activation rejected by GGSN, 3GPP equivalent ESM(EPS Session Management) cause code value 30, Requested rejected by Serving GW or PDN GW
- 1016 - Activation rejected, unspecified, 3GPP equivalent ESM(EPS Session Management) cause code value 31, Request rejected, unspecified
- 1017 - Service option not supported, 3GPP equivalent ESM(EPS Session Management) cause code value 32, Service option not supported
- 1018 - Requested service option not subscribed, 3GPP equivalent ESM(EPS Session Management) cause code value 33, Requested service option not subscribed
- 1019 - EPS Quality of Service (QoS) not accepted, 3GPP equivalent ESM(EPS Session Management) cause code value 37, EPS QoS not accepted
- 1020 - Semantic error in the TFT operation, 3GPP equivalent ESM(EPS Session Management) cause code value 41, Semantic error in the TFT operation
- 1021 - Syntactical error in the TFT operation, 3GPP equivalent ESM(EPS Session Management) cause code value 42, Syntactical error in the TFT operation
- 1022 - Unknown PDP context, 3GPP equivalent ESM(EPS Session Management) cause code value 43, Invalid EPS bearer identity

- 1023 - Semantic errors in packet filter(s), 3GPP equivalent ESM(EPS Session Management) cause code value 44, Semantic errors in packet filter(s)
- 1024 - Syntactical error in packet filter(s), 3GPP equivalent ESM(EPS Session Management) cause code value 45, Syntactical errors in packet filter(s)
- 1025 - PDP context without TFT already activated, 3GPP equivalent ESM(EPS Session Management) cause code value 46, Unused
- 1026 - Invalid transaction identifier value, 3GPP equivalent ESM(EPS Session Management) cause code value 81, Invalid PTI value
- 1027 - Semantically incorrect message, 3GPP equivalent ESM(EPS Session Management) cause code value 95, Semantically incorrect message
- 1028 - Invalid mandatory information, 3GPP equivalent ESM(EPS Session Management) cause code value 96, Invalid mandatory information
- 1029 - Message type non-existent or not implemented, 3GPP equivalent ESM(EPS Session Management) cause code value 97, Message type non-existent or not implemented
- 1030 - Message not compatible with state, 3GPP equivalent ESM(EPS Session Management) cause code value 98, Message type not compatible with the protocol state
- 1031 - Information element nonexistent or not implemented, 3GPP equivalent ESM(EPS Session Management) cause code value 99, Information element non-existent or not implemented
- 1032 - Conditional information element error, 3GPP equivalent ESM(EPS Session Management) cause code value 100, Conditional IE error
- 1033 - Message not compatible with protocol state, 3GPP equivalent ESM(EPS Session Management) cause code value 101, Message not compatible with the protocol state
- 1034 - APN restriction value incompatible with active PDP context, 3GPP equivalent ESM(EPS Session Management) cause code value 112, APN restriction value incompatible with
  - active EPS bearer context
- 1035 - No GPRS context present
- 1036 - Requested feature not supported, 3GPP equivalent ESM(EPS Session Management) cause code value 40, Feature not supported
- 1037 - Illegal MS, 3GPP equivalent EMM(EPS Mobility Management) cause code value 3, Illegal UE (MS)
- 1038 - Illegal ME, 3GPP equivalent EMM(EPS Mobility Management) cause code value 6, Illegal ME. This error code is sent to the MS if the ME used is not acceptable
  - to the network, e.g. blacklisted
- 1039 - GPRS and non GPRS services not allowed
- 1040 - GPRS services not allowed
- 1041 - MS identity not derived by the network, 3GPP equivalent EMM(EPS Mobility Management) cause code value 9, UE (MS) Identify cannot be derived by the network
- 1042 - Implicitly detached, 3GPP equivalent EMM(EPS Mobility Management) cause code value 10, Implicitly Detached
- 1043 - PLMN not allowed, 3GPP equivalent EMM(EPS Mobility Management) cause code value 11, PLMN not allowed
- 1044 - LA not allowed, this cause is sent to the MS if it requests location updating in a location area where the HPLMN determines that the MS, by subscription, is not allowed to operate.
- 1045 - GPRS services not allowed in PLMN

- 1046 - PDP duplicate
- 1047 - UE radio access technology change
- 1048 - app preempted
- 1049 - Congestion, This cause is sent if the service request or LOCATION UPDATING REQUEST message cannot be actioned because of congestion (e.g. congestion of the MSC or SGSN or GGSN or PDN Gateway; no channel; facility busy/congested etc.).
- 1050 - No PDP context activated
- 1051 - Access class DSAC rejection

9.33.2.4 EVDO CDMA 1xEV-DO

- 1500 - Abort connection setup due to the reception of a Connection Deny message with deny code set to either general or network busy.
- 1501 - Abort connection setup due to the reception of a Connection Deny message with deny code set to either billing or authentication failure.
- 1502 - Change HDR system due to redirection or PRL not preferred
- 1503 - Exit HDR due to redirection or PRL not preferred
- 1504 - No HDR session
- 1505 - Used if Call manager is ending an HDR call origination in favor of a GPS fix
- 1506 - Connection setup timeout
- 1507 - Call manager released HDR call so 1x call can continue

9.33.2.5 call end reason type

- 1 - Mobile IP
- 2 - Internal
- 3 - Call Manager defined
- 6 - 3GPP specification defined
- 7 - PPP
- 8 - EHRPD
- 9 - IPv6

9.33.2.6 Mobile IP call end reasons (Type=1)

- 64 - MIP(Mobile IP) FA(Foreign Agent) ERR REASON UNSPECIFIED, this error code is returned when the data call bring up fails in MIP setup phase since foreign agent rejected MIP registration with unspecified reason
- 65 - MIP(Mobile IP) FA(Foreign Agent) ERR ADMINISTRATIVELY PROHIBITED, this error code is returned when the data call bring up fails in MIP setup phase since foreign agent administratively prohibited MIP registration
- 66 - MIP(Mobile IP) FA(Foreign Agent) ERR INSUFFICIENT RESOURCES, this error code is returned when the data call bring up fails in MIP setup phase since foreign agent rejected MIP registration due to insufficient resources

- 67 - MIP(Mobile IP) FA(Foreign Agent) ERR MOBILE NODE AUTHENTICATION FAILURE, this error code is returned when the data call bring up fails in MIP setup phase since foreign agent rejected MIP registration because MN-AAA authenticator was wrong
- 68 - MIP(Mobile IP) FA(Foreign Agent) ERR HA AUTHENTICATION FAILURE, this error code is returned when the data call bring up fails in MIP setup phase since foreign agent rejected MIP registration because of home agent authentication failure
- 69 - MIP(Mobile IP) FA(Foreign Agent) ERR REQUESTED LIFETIME TOO LONG, this error code is returned when the data call bring up fails in MIP setup phase since foreign agent rejected MIP registration because requested lifetime is too long
- 70 - MIP(Mobile IP) FA(Foreign Agent) ERR MALFORMED REQUEST, this error code is returned when the data call bring up fails in MIP setup phase since foreign agent rejected MIP registration due to malformed request
- 71 - MIP(Mobile IP) FA(Foreign Agent) ERR MALFORMED REPLY, this error code is returned when the data call bring up fails in MIP setup phase since foreign agent rejected MIP registration due to malformed reply
- 72 - MIP(Mobile IP) FA(Foreign Agent) ERR ENCAPSULATION UNAVAILABLE, this error code is returned when the data call bring up fails in MIP setup phase since foreign agent rejected MIP registration because requested encapsulation is unavailable
- 73 - MIP(Mobile IP) FA(Foreign Agent) ERR VJHC UNAVAILABLE, this error code is returned when the data call bring up fails in MIP setup phase since foreign agent rejected MIP registration because VJ Header Compression is unavailable
- 74 - MIP(Mobile IP) FA(Foreign Agent) ERR REVERSE TUNNEL UNAVAILABLE, this error code is returned when the data call bring up fails in MIP setup phase since foreign agent rejected MIP registration because reverse tunnel is unavailable
- 75 - MIP(Mobile IP) FA(Foreign Agent) ERR REVERSE TUNNEL IS MANDATORY AND T BIT NOT SET, this error code is returned when the data call bring up fails in MIP setup phase since foreign agent rejected MIP registration because reverse tunnel is mandatory but not requested by device
- 79 - MIP(Mobile IP) FA(Foreign Agent) ERR DELIVERY STYLE NOT SUPPORTED, this error code is returned when the data call bring up fails in MIP setup phase since foreign agent rejected MIP registration because delivery style is not supported
- 97 - MIP(Mobile IP) FA(Foreign Agent) ERR MISSING NAI, this error code is returned when the data call bring up fails in MIP setup phase since foreign agent rejected MIP registration due to missing NAI
- 98 - MIP(Mobile IP) FA(Foreign Agent) ERR MISSING HA, this error code is returned when the data call bring up fails in MIP setup phase since foreign agent rejected MIP registration due to missing Home Agent
- 99 - MIP(Mobile IP) FA(Foreign Agent) ERR MISSING HOME ADDR, this error code is returned when the data call bring up fails in MIP setup phase since foreign agent rejected MIP registration due to missing Home Address
- 104 - MIP(Mobile IP) FA(Foreign Agent) ERR UNKNOWN CHALLENGE, this error code is returned when the data call bring up fails in MIP setup phase since foreign agent rejected MIP registration due to unknown challenge
- 105 - MIP(Mobile IP) FA(Foreign Agent) ERR MISSING CHALLENGE, this error code is returned when the data call bring up fails in MIP setup phase since foreign agent rejected MIP registration due to missing challenge
- 106 - MIP(Mobile IP) FA(Foreign Agent) ERR STALE CHALLENGE, this error code is returned when the data call bring up fails in MIP setup phase since foreign agent rejected MIP registration due to stale challenge
- 128 - MIP(Mobile IP) FA(Home Agent) ERR REASON UNSPECIFIED, this error code is returned when the data call bring up fails in MIP setup phase since home agent rejected MIP registration with unspecified reason

- 129 - MIP(Mobile IP) FA(Home Agent) ERR ADMINISTRATIVELY PROHIBITED, this error code is returned when the data call bring up fails in MIP setup phase since home agent administratively prohibited MIP registration
- 130 - MIP(Mobile IP) FA(Home Agent) ERR INSUFFICIENT RESOURCES, this error code is returned when the data call bring up fails in MIP setup phase since home agent rejected MIP registration due to insufficient resources
- 131 - MIP(Mobile IP) FA(Home Agent) ERR MOBILE NODE AUTHENTICATION FAILURE, this error code is returned when the data call bring up fails in MIP setup phase since home agent fails authentication because MN-HA authenticator was wrong
- 132 - MIP(Mobile IP) FA(Home Agent) ERR FA AUTHENTICATION FAILURE, this error code is returned when the data call bring up fails in MIP setup phase since home agent rejected MIP registration due to FA authentication failure
- 133 - MIP(Mobile IP) FA(Home Agent) ERR REGISTRATION ID MISMATCH, this error code is returned when the data call bring up fails in MIP setup phase since home agent rejected MIP registration due to registration id mismatch
- 134 - MIP(Mobile IP) FA(Home Agent) ERR MALFORMED REQUEST, this error code is returned when the data call bring up fails in MIP setup phase since home agent rejected MIP registration due to malformed request
- 136 - MIP(Mobile IP) FA(Home Agent) ERR UNKNOWN HA ADDR, this error code is returned when the data call bring up fails in MIP setup phase since home agent rejected MIP registration due to unknown Home Agent address. This code is returned by a home agent when the mobile node is performing dynamic home agent address resolution as described in RFC 3220 (IP Mobility Support for IPV4) Sections 3.6.1.1 and 3.6.1.2
- 137 - MIP(Mobile IP) FA(Home Agent) ERR REVERSE TUNNEL UNAVAILABLE, this error code is returned when the data call bring up fails in MIP setup phase since home agent rejected MIP registration because reverse tunnel is unavailable
- 138 - MIP(Mobile IP) FA(Home Agent) ERR REVERSE TUNNEL IS MANDATORY AND T BIT NOT SET, this error code is returned when the data call bring up fails in MIP setup phase since home agent rejected MIP registration because reverse tunnel is mandatory but not requested by device
- 139 - MIP(Mobile IP) FA(Home Agent) ERR ENCAPSULATION UNAVAILABLE, this error code is returned when the data call bring up fails in MIP setup phase since home agent rejected MIP registration due to encapsulation unavailable
- 65536 - MIP ERR REASON UNKNOWN

9.33.2.7 Internal call end reasons (Type=2)

- 200 - INTERNAL MIN, internal error table offset value, no meaningful message to the error.
- 201 - INTERNAL ERROR, this error code is returned when data call is brought down due to some unspecified internal error
- 202 - CALL ENDED
- 203 - INTERNAL UNKNOWN CAUSE CODE, this error code is returned when data call is brought down due to some unknown error
- 204 - UNKNOWN CAUSE CODE, this error code is returned when data call is brought down due to some unknown error
- 205 - CLOSE IN PROGRESS
- 206 - NETWORK INITIATED TERMINATION
- 207 - APP PREEMPTED

- 208 - ERR PDN IPV4 CALL DISALLOWED, this error code is returned when V4 PDN is in throttled state due to network providing only V6 address during the previous VSNCP bring up (subs_limited_to_v6). The time for which the IPv4 PDN is throttled is determined by the IPv4 throttling timers maintained in the profile
- 209 - ERR PDN IPV4 CALL THROTTLED, this error code is returned when V4 PDN is in throttled state due to previous VSNCP bring up failure(s). The time for which the IPv4 PDN is throttled is determined by the IPv4 throttling timers maintained in the profile
- 210 - ERR PDN IPV6 CALL DISALLOWED, this error code is returned when V6 PDN is in throttled state due to network providing only V4 address during the previous VSNCP bring up (subs_limited_to_v4). The time for which the IPv6 PDN is throttled is determined by the IPv6 throttling timers maintained in the profile
- 211 - ERR PDN IPV6 CALL THROTTLED, this error code is returned when V6 PDN is in throttled state due to previous VSNCP bring up failure(s). The time for which the IPv6 PDN is throttled is determined by the IPv6 throttling timers maintained in the profile
- 212 - MODEM RESTART
- 213 - PDP PPP NOT SUPPORTED
- 214 - UNPREFERRED RAT, this error code is returned when data call is brought down since the RAT on which the data call is attempted/connected is no longer the preferred RAT
- 215 - PHYS LINK CLOSE IN PROGRESS, this error code is returned when data call bring up is rejected because physical link is in the process of cleanup
- 216 - APN PENDING HANDOVER, this error code is returned when interface bring up is attempted for an APN that is yet to be handed over to target RAT
- 217 - PROFILE BEARER INCOMPATIBLE
- 218 - MMGSDI CARD EVT, this error code is returned when data call is brought down because card got refreshed/removed
- 219 - LPM OR PWR DOWN, this error code is returned when data call is brought down because device is going into lower power mode or powering down
- 220 - APN DISABLED, this error code is returned when APN is disabled in card
- 221 - MPIT EXPIRED, this error code is returned when data call is brought down because maximum PPP inactivity timer expired
- 222 - IPV6 ADDR TRANSFER FAILED
- 223 - TRAT SWAP FAILED
- 224 - EHRPD TO HRPD FALLBACK, this error code is returned when data call is brought down because device falls back from eHRPD to HRPD (not because of OOS on eHRPD but due to operator/spec driven eHRPD to HRPD fallback requirements)
- 225 - MANDATORY APN DISABLED, this error code is returned when any mandatory APN is disabled, and MinApnList Disallow call config item is set to TRUE in device
- 226 - MIP CONFIG FAILURE, this error code is returned when UE is in MIP Only config (QCMIP=2) but MIP config fails on call bring up due to incorrect provisioning
- 227 - INTERNAL_PDN_INACTIVITY_TIMER_EXPIRED, this error code is returned when PDN inactivity timer expired due to no data transmission in a configurable duration of time
- 228 - MAX_V4_CONNECTIONS, this error code is returned when IPv4 data call bring up is rejected because the UE already maintains the allotted maximum number of IPv4 data connections
- 229 - MAX_V6_CONNECTIONS, this error code is returned when IPv6 data call bring up is rejected because the UE already maintains the allotted maximum number of IPv6 data connections

- 230 - APN_MISMATCH, this error code is returned when New PDN bring up is rejected during interface selection because the UE has already allotted the available interfaces for other PDNs
- 231 - IP_VERSION_MISMATCH, this error code is returned when New call bring up is rejected because the existing data call IP type does not match the requested IP type
- 232 - DUN_CALL_DISALLOWED, this error code is returned when DUN call bring up is rejected because the UE is in eHRPD RAT
- 233 - INVALID_PROFILE, this error code is returned when Call bring up was requested with an invalid profile
- 234 - INTERNAL_EPC_NONEPC_TRANSITION, this error code is returned when Data call is rejected or brought down because the UE is in transition between EPC and non-EPC RAT
- 235 - INVALID_PROFILE_ID, this error code is returned when Call bring up was requested with an invalid profile ID
- 236 - INTERNAL_CALL_ALREADY_PRESENT, this error code is returned when a data call with the same policy is already connected or in the process of bring up on another RmNet instance
- 237 - IFACE_IN_USE, this error code is returned when the current IFACE is in use
- 238 - IP_PDP_MISMATCH, this error code is returned when a PPP call is attempted on a PDP profile
- 239 - APN_DISALLOWED_ON_ROAMING, this error code is returned when PDN connection to the APN is disallowed on the roaming network. The DS generates DS_SYS_EVENT_3GPP_ROAMING_DISALLOWED_INFO to inform clients of the APNs that must deregister and disconnect (if the PDN is up) while the UE is on the roaming network. Clients must deregister or disconnect if the APN name corresponding to the client is listed in this system event. Clients can register again if the APN name corresponding to the client is not listed in this system event.
- 240 - APN_PARAM_CHANGE, this error code is returned when Failure to reestablish the PDN with the changed parameters; when APN-related parameters are changed, the PDN associated with the parameters must be brought down and reestablished with the changed parameters
- 241 - IFACE_IN_USE_CFG_MATCH, this error code is returned when the IFACE is already in use with a matching configuration
- 242 - NULL_APN_DISALLOWED, this error code is returned when a PDN is attempted to be brought up with a NULL APN and when a NULL APN is not supported
- 243 - THERMAL_MITIGATION, this error code is returned when the thermal level increases and causes calls to be torn down when normal mode of operation is not allowed
- 244 - SUBS_ID_MISMATCH, this error code is returned when a new call bring up is rejected due to a mismatch between the subs_id in the profile and the subs_id in the ACL policy information
- 245 - DATA_SETTINGS_DISABLED, this error code is returned when the PDN connection to a given APN is disallowed because data is disabled from the device user interface (UI) settings
- 246 - DATA_ROAMING_SETTINGS_DISABLED, this error code is returned when the PDN Connection to a given APN is disallowed because data roaming is disabled from the device UI settings and the UE is roaming
- 247 - APN_FORMAT_INVALID, this error code is returned when the APN specified in the policy does not follow the format specified in the 3GPP Specification
- 248 - DDS_CALL_ABORT, this error code is returned when a DDS switch occurs; the data call is brought down with the DDS abort reason
- 249 - VALIDATION_FAILURE, this error code is returned when a data call is brought down due to an internal validation failure

9.33.2.8 Call Manager defined call end reasons (Type=3)

- 500 - CDMA LOCK, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) due to device in CDMA locked state
- 501 - INTERCEPT, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) since it received an intercept order from the base station
- 502 - REORDER, this error code is returned when data call is brought down because traffic channel request got rejected by CM(Call Manager) due to receiving a reorder from base station
- 503 - REL SO REJ, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) due to receiving a release from base station with reason: SO Reject
- 504 - INCOM CALL, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) since it received an incoming call from base station
- 505 - ALERT STOP, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) due to RL/FL fade (or) receiving call release from base stations
- 506 - ACTIVATION, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) due to channel acquisition failures. This indicates that device has failed acquiring all the channels in the PRL
- 507 - MAX ACCESS PROBE, this error code is returned when data call is brought down because traffic channel request got rejected by CM(Call Manager) due maximum access probes transmitted
- 508 - CCS NOT SUPPORTED BY BS, this error code is returned when data call is brought down because traffic channel request got rejected by CM(Call Manager) since concurrent service is not supported by base station
- 509 - NO RESPONSE FROM BS, this error code is returned when data call is brought down because traffic channel request got rejected by CM(Call Manager) since there is no response received from base station
- 510 - REJECTED BY BS, this error code is returned when data call is brought down because traffic channel request got rejected by CM(Call Manager) due to base station rejecting the call
- 511 - INCOMPATIBLE, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) since concurrent services requested were not compatible
- 512 - ALREADY IN TC, this error code is returned when data call is brought down because traffic channel request got rejected by CM(Call Manager) since traffic channel is already up for voice calls
- 513 - USER CAL ORIG DURING GPS
- 514 - USER CAL ORIG DURING SMS, this error code is returned when data call is brought down because traffic channel request got rejected since SMS is ongoing
- 515 - NO CDMA SRV, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) since device does not have CDMA service
- 516 - MC ABORT, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) since MC aborted the origination/conversation
- 517 - PSIST NG, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) due to persistence test failure
- 518 - UIM NOT PRESENT, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) due to RUIM not present
- 519 - RETRY ORDER, this error code is returned when data call is brought down because traffic channel request got rejected by CM(Call Manager) due to receiving a retry order from base station
- 520 - ACCESS BLOCK, this error code is returned when data call is brought down because traffic channel rejected/released due to Access blocked by base station

- 521 - ACCESS BLOCK ALL, this error code is returned when data call is brought down because traffic channel rejected due to Access blocked by the base station for all mobile devices
- 522 - IS707B MAX ACC, this error code is returned when data call is brought down because traffic channel request got rejected by CM(Call Manager) due maximum access probes for IS-707B call
- 523 - THERMAL EMERGENCY, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) to put device in thermal emergency
- 524 - CALL ORIG THROTTLED, this error code is returned when data call is brought down because traffic channel request got rejected by CM(Call Manager) since call origination is throttled by DCTM module
- 535 - USER CALL ORIGINATE DURING VOICE CALL, this error code is returned when data call is brought down because traffic channel got released by CM(Call Manager) in favor of voice call or SMS when concurrent voice and data are not supported
- 1000 - CONFERENCE FAILED
- 1001 - INCOMING REJECTED
- 1002 - NO GATEWAY SERVICE
- 1003 - NO GPRS CONTEXT
- 1004 - ILLEGAL MS, This cause is sent to the MS when the network refuses service to the MS either because an identity of the MS is not acceptable to the network or because the MS does not pass the authentication check, i.e. the SRES received from the MS is different from that generated by the network
- 1005 - ILLEGAL ME, This cause is sent to the MS if the ME used is not acceptable to the network, e.g. blacklisted
- 1006 - GPRS SERVICES AND NON GPRS SERVICES NOT ALLOWED
- 1007 - GPRS SERVICES NOT ALLOWED
- 1008 - MS IDENTITY CANNOT BE DERIVED BY THE NETWORK
- 1009 - IMPLICITLY DETACHED, this error code is sent to the MS either if the network has implicitly detached the MS, e.g. some while after the Mobile reachable timer has expired, or if the GMM context data related to the subscription does not exist in the SGSN e.g. because of a SGSN restart.
- 1010 - PLMN NOT ALLOWED, this error code is sent to the MS if it requests location updating in a PLMN where the MS, by subscription or due to operator determined barring is not allowed to operate
- 1011 - LOCAL AREA NOT ALLOWED
- 1012 - GPRS SERVICES NOT ALLOWED IN THIS PLMN
- 1013 - PDP DUPLICATE
- 1014 - USER EQUIPMENT RADIO ACCESS TECHNOLOGY CHANGE
- 1015 - CONGESTION
- 1016 - NO PDP CONEXT ACTIVATED
- 1017 - ACCESS CLASS DSAC REJECTION
- 1018 - PDP ACTIVATE MAX RETRY FAILED
- 1019 - RAB FAILURE
- 1020 - EPS SERVICE NOT ALLOWED
- 1021 - TRACKING AREA NOT ALLOWED
- 1022 - ROAMING NOT ALLOWED IN THIS TRACKING AREA

- 1023 - NO SUITABLE CELLS IN TRACKING AREA
- 1024 - NOT AUTHORIZED FOR THIS CLOSED SUBSCRIBER GROUP
- 1025 - ESM UNKNOWN EPS BEARER CONTEXT
- 1026 - DRB RELEASED AT RRC
- 1027 - NAS SIG CONN RELEASED
- 1028 - EPS MOBILITY MANAGEMENT DETACHED
- 1029 - EPS MOBILITY MANAGEMENT ATTACH FAILED
- 1030 - EPS MOBILITY MANAGEMENT ATTACH STARTED
- 1031 - LTE NAS SERVICE REQ FAILED
- 1032 - ESM(EPS Session Management) ACTIVE DEDICATED BEARER REACTIVATED BY NW
- 1033 - ESM(EPS Session Management) LOWER LAYER FAILURE
- 1034 - ESM(EPS Session Management) SYNC UP WITH NW
- 1035 - ESM(EPS Session Management) NW ACTIVATED DED BEARER WITH ID OF DEF BEARER
- 1036 - ESM(EPS Session Management) BAD OTA MESSAGE
- 1037 - ESM DS REJECTED THE CALL
- 1038 - ESM(EPS Session Management) CONTEXT TRANSFERRED DUE TO IRAT
- 1039 - DS EXPLICIT DEACT
- 1040 - ESM(EPS Session Management) LOCAL CAUSE NONE
- 1041 - LTE NAS SERVICE REQ FAILED NO THROTTLE
- 1042 - ACL FAILURE, This error code should rarely triggered and reported to the application
- 1043 - LTE NAS SERVICE REQ FAILED DS DISALLOW
- 1044 - EMM(EPS Mobility Management) T3417 EXPIRED
- 1045 - EMM(EPS Mobility Management) T3417 EXT EXPIRED
- 1046 - LRRC(LTE Radio Resource Control) UL DATA CNF FAILURE TXN - Light Radio Resource Controller Uplink data confirmation failure
- 1047 - LRRC(LTE Radio Resource Control) UL DATA CNF FAILURE HO
- 1048 - LRRC(LTE Radio Resource Control) UL DATA CNF FAILURE CONN REL
- 1049 - LRRC(LTE Radio Resource Control) UL DATA CNF FAILURE RLF
- 1050 - LRRC(LTE Radio Resource Control) UL DATA CNF FAILURE CTRL NOT CONN
- 1051 - LRRC(LTE Radio Resource Control) CONN EST FAILURE
- 1052 - LRRC(LTE Radio Resource Control) CONN EST FAILURE ABORTED
- 1053 - LRRC(LTE Radio Resource Control) CONN EST FAILURE ACCESS BARRED
- 1054 - LRRC(LTE Radio Resource Control) CONN EST FAILURE CELL RESEL
- 1055 - LRRC(LTE Radio Resource Control) CONN EST FAILURE CONFIG FAILURE
- 1056 - LRRC(LTE Radio Resource Control) CONN EST FAILURE TIMER EXPIRED
- 1057 - LRRC(LTE Radio Resource Control) CONN EST FAILURE LINK FAILURE

- 1058 - LRRC(LTE Radio Resource Control) CONN EST FAILURE NOT CAMPED
- 1059 - LRRC(LTE Radio Resource Control) CONN EST FAILURE SI FAILURE
- 1060 - LRRC(LTE Radio Resource Control) CONN EST FAILURE CONN REJECT
- 1061 - LRRC(LTE Radio Resource Control) CONN REL NORMAL
- 1062 - LRRC(LTE Radio Resource Control) CONN REL RLF
- 1063 - LRRC(LTE Radio Resource Control) CONN REL CRE FAILURE
- 1064 - LRRC(LTE Radio Resource Control) CONN REL OOS DURING CRE
- 1065 - LRRC(LTE Radio Resource Control) CONN REL ABORTED
- 1066 - LRRC(LTE Radio Resource Control) CONN REL SIB READ ERROR
- 1067 - DETACH WITH REATTACH LTE NW DETACH
- 1068 - DETACH WITH OUT REATTACH LTE NW DETACH
- 1069 - ESM(EPS Session Management) PROC TIME OUT
- 1070 - MESSAGE EXCEED MAX L2 LIMIT
- 1500 - CD GEN OR BUSY, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) due to the reception of a Connection Deny message with a deny code of general or network busy
- 1501 - CD BILL OR AUTH, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) due to the reception of a Connection Deny message with a deny code of billing failure or authentication failure
- 1502 - CHG HDR, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) since there is a change to HDR system due to redirection or PRL not preferred
- 1503 - EXIT HDR, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) since device exited HDR due to redirection or PRL not preferred
- 1504 - HDR NO SESSION, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) since device does not have a HDR session
- 1505 - HDR ORIG DURING GPS FIX, this error code is returned when data call is brought down because traffic channel request got rejected by CM(Call Manager) since it is ending an HDR call origination in favor of a GPS fix
- 1506 - HDR CS TIMEOUT, this error code is returned when data call is brought down because traffic channel request got rejected by CM(Call Manager) since connection setup on HDR system timed out
- 1507 - HDR RELEASED BY CM, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) when it wants to release a HDR call so a 1X call can continue
- 1508 - COLLOC ACQ FAIL, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) when device failed to acquire co-located HDR for origination
- 1509 - OTASP COMMIT IN PROG, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) since an OTASP commit is in progress
- 1510 - NO HYBR HDR SRV, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) since device has no Hybrid HDR service
- 1511 - HDR NO LOCK GRANTED, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) since HDR module could not get the RF lock

- 1512 - HOLD OTHER IN PROG, this error code is returned when data call is brought down by CM(Call Manager) because DBM or SMS is in progress
- 1513 - HDR FADE, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) since HDR module released the call due to fade
- 1514 - HDR ACC FAIL, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) due to HDR system Access Failure
- 2000 - CLIENT END, this error code is returned when client ends the data call
- 2001 - NO SRV, this error code is returned when data call is brought down because traffic channel request got rejected by CM(Call Manager) since device has no service
- 2002 - FADE, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) since device lost the system due to fade
- 2003 - REL NORMAL, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) due to receiving a release from base station with no reason
- 2004 - ACC IN PROG, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) due to Access attempt already in progress
- 2005 - ACC FAIL, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) due to Access Failure
- 2006 - REDIR OR HANDOFF, this error code is returned when data call is brought down because device is in the process of redirecting/handing off to a different target system
- 2500 - OFFLINE, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) since device went offline
- 2501 - EMERGENCY MODE, this error code is returned when data call is brought down because traffic channel request got rejected by CM(Call Manager) since device is operating in Emergency mode
- 2502 - PHONE IN USE, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) since device is in use (e.g voice call)
- 2503 - INVALID MODE, this error code is returned when data call is brought down because traffic channel request got rejected by CM(Call Manager) since the device's operational mode is different from the mode requested in the traffic channel bring up
- 2504 - INVALID SIM STATE, this error code is returned when data call is brought down because traffic channel request got rejected by CM(Call Manager) since the SIM was marked by network as invalid for circuit and/or packet service domain
- 2505 - NO COLLOC HDR, this error code is returned when data call is brought down because traffic channel got rejected/released by CM(Call Manager) since there is no collocated HDR
- 2506 - CALL CONTROL REJECTED, this error code is returned when data call is brought down because traffic channel request got rejected by CM(Call Manager) since Call control module rejected the request

9.33.2.9 3GPP specification defined call end reasons (Type=6)

- 8 - OPERATOR DETERMINED BARRING, this reason code is posted by the MME(Mobility Management Entity) to indicate operator has barred the UE
- 25 - LLC SNDCP FAILURE, PDP context deactivation initiated by the MS or by the Network
- 26 - INSUFFICIENT RESOURCES, this reason is posted to indicate that the network cannot provide the requested service due to insufficient resources
- 27 - MISSING OR UNKNOWN APN, the APN was required and not specified or APN could not be resolved. In LTE mode of operation, this is a PDN throttling cause code, meaning the UE may endup throttling further requests to the same APN

- 28 - UNKNOWN PDN TYPE, the reason is posted by the network to indicate that the PDN type was not recognized
- 29 - AUTH FAILED, the reason is posted when authentication fails. In LTE mode of operation, this is a PDN throttling cause code, meaning the UE may end up throttling further requests to the same APN
- 30 - GGSN REJECT, the reason is posted when the request was rejected by Serving GW or PDN GW. In LTE mode of operation, this is a PDN throttling cause code, meaning the UE may end up throttling further requests to the same APN
- 31 - ACTIVATION REJECT, the reason is posted when the request is rejected by the network due to unspecified reasons
- 32 - OPTION NOT SUPPORTED, the reason is posted when UE requested a service not supported by the PLMN
- 33 - OPTION UNSUBSCRIBED, This cause is sent when the MS requests a service option for which it has no subscription
- 34 - OPTION TEMP OOO, service option temporarily out of order, this reason is posted when the network is temporarily out of resources to service the request
- 35 - PTI ALREADY USED, the reason is posted to indicate that PTI (Procedure Transaction Identifier) used in the request is already active via another UE requested procedure
- 36 - REGULAR DEACTIVATION, this reason is posted by the network to initiate a regular release of bearer resources
- 37 - EPS QOS NOT ACCEPTED, this reason is posted by the network to indicate that the QoS requested by the UE could not be accepted
- 38 - NETWORK FAILURE, this reason is posted when an error occurs in the network
- 39 - UMTS REACTIVATION REQ, this reason is posted by the network to request for bearer reactivation. This code may be posted during network congestion
- 40 - FEATURE NOT SUPPORTED, Unsuccessful MBMS context activation requested by the network
- 41 - TFT SEMANTIC ERROR, the reason is posted by the network to indicate semantic error(s) in specifying TFT operation included in the request
- 42 - TFT SYNTAX ERROR, the reason is posted by the network to indicate syntactic error(s) in specifying TFT operation included in the request
- 43 - UNKNOWN PDP CONTEXT, the reason is posted when the bearer identity (or linked bearer identity) in the request is invalid (or inactive)
- 44 - FILTER SEMANTIC ERROR, the reason is posted by the network to indicate semantic error(s) in specifying packet filter(s) associated with a TFT
- 45 - FILTER SYNTAX ERROR, the reason is posted by the network to indicate syntactic error(s) in specifying packet filter(s) associated with a TFT
- 46 - PDP WITHOUT ACTIVE TFT, the reason is posted by the network when UW requested more than one PDP connection without TFT
- 50 - IPV4 ONLY ALLOWED, 3GPP equivalent ESM(EPS Session Management) cause code value 50, PDN type IPv4 only allowed.
- 51 - IPV6 ONLY ALLOWED, 3GPP equivalent ESM(EPS Session Management) cause code value 51, PDN type IPv6 only allowed
- 52 - SINGLE ADDRESS BEARER ONLY, 3GPP equivalent ESM(EPS Session Management) cause code value 52, Single address bearers only allowed. The reason is posted when the network supports single address bearers only, meaning dual IP bearers are not supported

- 53 - ESM INFORMATION NOT RECEIVED, 3GPP equivalent ESM(EPS Session Management) cause code value 53, ESM information not received. The reason is posted by the network to indicate that the PDN connection request was rejected because ESM information was not received
- 54 - PND CONNECTION DOES NOT EXIST, 3GPP equivalent ESM(EPS Session Management) cause code value 54, PDN connection does not exist The reason is posted by the network during handover from a non-3GPP network to indicate that the MME does not have any information regarding the requested PDN connection
- 55 - MULTIPLE CONNECTION TO SAME PDN NOT ALLOWED, 3GPP equivalent ESM(EPS Session Management) cause code value 55, Multiple PDN connections for a given APN not allowed. The reason is posted by the network to indicate that the UE is already connected to the requested APN via another PDN/PDN connection
- 81 - INVALID TRANSACTION ID, the reason is posted by the network to indicate that the PTI used in the request is unassigned or reserved
- 95 - MESSAGE INCORRECT SEMANTIC, the reason is posted by the network to indicate receipt of an invalid message
- 96 - INVALID MANDATORY INFO, the reason is posted by the network to indicate receipt of a message with semantic error in a mandatory information element
- 97 - MESSAGE TYPE UNSUPPORTED, the reason is posted by the network to indicate receipt of a message that is either undefined or defined but not implemented by the equipment sending this ESM cause
- 98 - MSG TYPE NONCOMPATIBLE STATE, the reason is posted by the network to indicate receipt of a message type that cannot be handled in the current network protocol state
- 99 - UNKNOWN INFO ELEMENT, the reason is posted by the network to indicate receipt of a message that includes and information element that is either not defined or defined but not implemented by the equipment sending the ESM cause
- 100 - CONDITIONAL IE ERROR, the reason is posted by the network to indicate receipt of a message that includes a syntactically incorrect information element. This message is ignored by the network.
- 101 - MSG AND PROTOCOL STATE UNCOMPATIBLE, the reason is posted by the network to indicate receipt of a message that cannot be handled in the current network protocol state
- 111 - PROTOCOL ERROR, the reason is posted by the network to indicate a protocol error when no other error applies
- 112 - APN TYPE CONFLICT
- 113 - INVALID PROXY-CALL SESSION CONTROL FUNCTION ADDRESS

9.33.2.10 PPP call end reasons (Type=7)

- 1 - TIMEOUT, this error code is returned when the data call bring up fails in PPP setup due to timeout (For e.g: LCP Conf Ack not received from network)
- 2 - AUTH FAILURE, this error code is returned when the data call bring up fails in PPP setup due to authentication failure
- 3 - OPTION MISMATCH, this error code is returned when the data call bring up fails in PPP setup due option mismatch (e.g: Authentication is required, but not negotiated with network during LCP phase)
- 31 - PAP FAILURE, this error code is returned when the data call bring up fails in PPP setup due to PAP failure
- 32 - CHAP FAILURE, this error code is returned when the data call bring up fails in PPP setup due to CHAP failure
- 33 - CLOSE IN PROGRESS, this error code is returned when the data call bring up fails in PPP setup since PPP is in the process of cleaning the previous PPP session
- -1 - UNKNOWN, this error code is unused

9.33.2.11 EHRPD call end reasons (Type=8)

- 1 - SUBS LIMITED TO V4, this error code is returned when the V6 interface bring up fails because network provided only V4 address for the upcoming PDN
- 2 - SUBS LIMITED TO V6, this error code is returned when the V4 interface bring up fails because network provided only V6 address for the upcoming PDN
- 4 - VSNCP(Vendor Specific Network Control Protocol) TIMEOUT, this error code is returned when the data call bring up fails in VSNCP phase due to VSNCP timeout error
- 5 - VSNCP(Vendor Specific Network Control Protocol) FAILURE, this error code is returned when VSNCP configuration failed during call bring up
- 6 - VSNCP(Vendor Specific Network Control Protocol) 3GPP2I GEN ERROR, this error code is returned when the data call bring up fails in VSNCP phase due to general error
- 7 - VSNCP(Vendor Specific Network Control Protocol) 3GPP2I UNAUTH APN, this error code is returned when the data call bring up fails in VSNCP phase since network rejected VSNCP config request with reason requested APN is unauthorized
- 8 - VSNCP(Vendor Specific Network Control Protocol) 3GPP2I PDN LIMIT EXCEED, this error code is returned when the data call bring up fails in VSNCP phase since network rejected VSNCP config request with reason PDN limit exceeded
- 9 - VSNCP(Vendor Specific Network Control Protocol) 3GPP2I NO PDN GW, this error code is returned when the data call bring up fails in VSNCP phase since network rejected VSNCP config request with reason no PDN gateway
- 10 - VSNCP(Vendor Specific Network Control Protocol) 3GPP2I PDN GW UNREACH, this error code is returned when the data call bring up fails in VSNCP phase since network rejected VSNCP config request with reason PDN gateway unreachable
- 11 - VSNCP(Vendor Specific Network Control Protocol) 3GPP2I PDN GW REJ, this error code is returned when the data call bring up fails in VSNCP phase since network rejected VSNCP config request with reason PDN gateway reject
- 12 - VSNCP(Vendor Specific Network Control Protocol) 3GPP2I INSUFF PARAM, this error code is returned when the data call bring up fails in VSNCP phase since network rejected VSNCP config request with reason insufficient parameter
- 13 - VSNCP(Vendor Specific Network Control Protocol) 3GPP2I RESOURCE UNAVAIL, this error code is returned when the data call bring up fails in VSNCP phase since network rejected VSNCP config request with reason resource unavailable
- 14 - VSNCP(Vendor Specific Network Control Protocol) 3GPP2I ADMIN PROHIBIT, this error code is returned when the data call bring up fails in SNCP phase since network rejected VSNCP config request with reason admin prohibited
- 15 - VSNCP(Vendor Specific Network Control Protocol) 3GPP2I PDN ID IN USE, this error code is returned when the data call bring up fails in VSNCP phase because network rejected with reason PDN ID IN USE (or) All existing PDNs are brought down with this end reason because one of the PDN bring up got rejected by network with reason PDN ID IN USE
- 16 - VSNCP(Vendor Specific Network Control Protocol) 3GPP2I SUBSCR LIMITATION, this error code is returned when the data call bring up fails in VSNCP phase since network rejected VSNCP config request with reason subscriber limitation
- 17 - VSNCP(Vendor Specific Network Control Protocol) 3GPP2I PDN EXISTS FOR THIS APN, this error code is returned when the data call bring up fails in VSNCP phase since network rejected VSNCP config request with reason PDN exists for this APN

9.33.2.12 IPV6 call end reasons (Type=9)

- 1 - PREFIX UNAVAILABLE, this error code is returned when V6 data call is brought down because device failed to get the prefix from network
- 2 - IPV6 ERR HRPD IPV6 DISABLED, this error code is returned when V6 data call bring up is rejected because IPV6 is disabled in 1X/HRPD mode
- 3 - IPV6 DISABLED, this error code is returned when IPv6 data call bring up is rejected because NV1896 (IPV6 enable) is disabled

Copyright: © 2011-2013 Sierra Wireless, Inc. all rights reserved

9.34 qaGobiApiTableCarrierCodes.h File Reference

Carrier Codes table.

9.34.1 Detailed Description

Carrier Codes table.

9.34.2 Carrier Codes (Number - Carrier)

- 0 - no carrier specified
- 1 - Generic
- 2 - Telstra
- 4 - AT&T
- 5 - Verizon
- 11 - Sprint
- 12 - Telefonica
- 101 - Verizon
- 102 - Sprint
- 103 - Alltel
- 104 - Bell Mobility
- 105 - Telus
- 106 - U.S. Cellular
- 107 - Telstra
- 108 - China Unicom
- 109 - Telecom New Zealand
- 110 - SK Telecom
- 111 - Reliance Communications
- 112 - Tata Communications
- 113 - MetroPCS Communications

- 114 - Leap Wireless
- 115 - KDDI
- 116 - Grupo Iusacell
- 117 - China Telecom
- 118 - Open Mobile Handset
- 176 - Rogers
- 177 - NetIndex
- 178 - DNA
- 179 - Big Pond
- 201 - AT&T
- 202 - Vodafone
- 203 - T-Mobile
- 204 - Orange
- 205 - Telefonica
- 206 - Telecom Italia
- 207 - 3
- 208 - O2
- 209 - SFR
- 210 - Swisscom AG
- 211 - China Mobile
- 212 - Telstra
- 213 - Singapore Telecommunications
- 214 - Reliance Telecommunications
- 215 - Bharti Airtel
- 216 - NTT docomo
- 217 - E Mobile
- 218 - Softbank
- 219 - Korea Telecom Freetel
- 220 - SK Telecom
- 221 - Telenor
- 222 - NetCom Norway
- 223 - TeliaSonera
- 224 - América Móvil
- 225 - Brasil Vivo
- 0xFFFFFFFF - Unknown

Copyright: © 2011-2014 Sierra Wireless, Inc. all rights reserved

9.35 qaGobiApiTableCodingScheme.h File Reference

Data Coding Scheme.

Macros

- #define __GOBI_API_CODING_SCHEME_H__

9.35.1 Detailed Description

Data Coding Scheme.

9.35.2 S1

9.35.2.1 Use of bits 3..0\n\n

- Language using the GSM 7 bit default alphabet Bits 3..0
  indicate the language:
  0000 German
  0001 English
  0010 Italian
  0011 French
  0100 Spanish
  0101 Dutch
  0110 Swedish
  0111 Danish
  1000 Portuguese
  1001 Finnish
  1010 Norwegian
  1011 Greek
  1100 Turkish
  1101 Hungarian
  1110 Polish
  1111 Language unspecified

9.35.3 Coding Group Bits 7..4(0001)

9.35.3.1 use of bits 3..0

- 0000 GSM 7 bit default alphabet; message preceded by language indication.
  The first 3 characters of the message are a two-character representation of the language encoded according to ISO 639 [12], followed by a CR character. The CR character is then followed by 90 characters of text.
- 0001 UCS2; message preceded by language indication
  The message starts with a two GSM 7-bit default alphabet character representation of the language encoded according to ISO 639. This is padded

to the octet boundary with two bits set to 0 and then followed by 40 characters
of UCS2-encoded message.
An MS not supporting UCS2 coding will present the two character language
identifier followed by improperly interpreted user data.

9.35.4 Coding Group Bits 7..4(0010)

9.35.4.1 use of bits 3..0

- 0000 Czech
  0001 Hebrew
  0010 Arabic
  0011 Russian
  0100 Icelandic
  0101..1111 Reserved for other languages using the GSM 7 bit
  default alphabet, with unspecified handling at the MS

9.35.5 Coding Group Bits 7..4(0011)

9.35.5.1 use of bits 3..0

- 0000..1111 Reserved for other languages using the GSM 7 bit
  default alphabet, with unspecified handling at the MS

9.35.6 Coding Group Bits 7..4(01xx)

9.35.6.1 use of bits 3..0

- General Data Coding indication
  - Bits 5..0 indicate the following:
  - Bit 5, if set to 0, indicates the text is uncompressed
  - Bit 5, if set to 1, indicates the text is compressed using the compression algorithm defined in 3GPP TS 23.042
  - Bit 4, if set to 0, indicates that bits 1 to 0 are reserved and have no message class meaning
  - Bit 4, if set to 1, indicates that bits 1 to 0 have a message class meaning: Bit 1 Bit 0 Message Class:
    0 0 Class 0
    0 1 Class 1 Default meaning: ME-specific.
    1 0 Class 2 (U)SIM specific message.
    1 1 Class 3 Default meaning: TE-specific (see 3GPP TS 27.005)
    Bits 3 and 2 indicate the character set being used, as follows:
    Bit 3 Bit 2 Character set:
    0 0 GSM 7 bit default alphabet
    0 1 8 bit data
    1 0 UCS2 (16 bit) [10]
    1 1 Reserved

9.35.7 Coding Group Bits 7..4(1001)

9.35.7.1 Reserved coding groups

- Message with User Data Header (UDH) structure:
  Bit 1 Bit 0 Message Class:
  0 0 Class 0
  0 1 Class 1 Default meaning: ME-specific.
  1 0 Class 2 (U)SIM specific message.
  1 1 Class 3 Default meaning: TE-specific (see 3GPP TS 27.005 [8])
  Bits 3 and 2 indicate the alphabet being used, as follows:
  Bit 3 Bit 2 Alphabet:
  0 0 GSM 7 bit default alphabet
  0 1 8 bit data
  1 0 USC2 (16 bit) [10]
  1 1 Reserved

9.35.8 Coding Group Bits 7..4(1010..1101)

9.35.8.1 Reserved coding groups

9.35.9 Coding Group Bits 7..4(1110)

9.35.9.1 Defined by the WAP Forum

9.35.10 Coding Group Bits 7..4 (1111)

9.35.10.1 Data coding / message handling

- Bit 3 is reserved, set to 0.
  Bit 2 Message coding:
  0 GSM 7 bit default alphabet
  1 8 bit data
  Bit 1 Bit 0 Message Class:
  0 0 No message class.
  0 1 Class 1 user defined.
  1 0 Class 2 user defined.
  1 1 Class 3
  default meaning: TE specific(3GPP TS 27.005)
  Copyright: © 2012 Sierra Wireless, Inc. all rights reserved

9.35.11 Macro Definition Documentation

9.35.11.1 #define __GOBI_API_CODING_SCHEME_H__

9.36 qaGobiApiTableGpsCapabilityCodes.h File Reference

Position Determination Service API GPS Capability Codes.

9.36.1 Detailed Description

Position Determination Service API GPS Capability Codes.

9.36.2 GPS capability (Value - Capability)

- 0 - None
- 1 - Standalone
- 2 - Assisted (including XTRA and implying standalone is also supported)
- 3 - Assisted (without XTRA and implying standalone is also supported)
- 0xFFFFFFFF - Unknown

Copyright: © 2011 Sierra Wireless, Inc. all rights reserved

9.37 qaGobiApiTablePowerModes.h File Reference

Device Management Service API Power Modes table.

9.37.1 Detailed Description

Device Management Service API Power Modes table.

9.37.2 Power Modes (Value - Description)

- 0 - Online (default)
- 1 - Low power (airplane) mode
- 2 - Factory test mode
- 3 - Offline
- 4 - Resetting
- 5 - Power off
- 6 - Persistent low power (airplane) mode
- 7 - Mode - only low power

Valid transitions for Power Modes

- Online to Low Power, Persistent low power, Factory test, Offline or Shut Down
- Low power to online, Persistent low power, Offline, or Shut Down
- Persistent low power to Online, Low power, Offline or Shut down
- Factory test to online
- Offline to Reset

Copyright: © 2011 Sierra Wireless, Inc. all rights reserved

9.38 qaGobiApiTableRadioInterfaces.h File Reference

Network Access Service API Radio Interfaces table.

9.38.1 Detailed Description

Network Access Service API Radio Interfaces table.

9.38.2 Radio interface

9.38.2.1 Technology (Value - Radio Interface Technology)

- 0 - No service
- 1 - CDMA 1xRTT
- 2 - CDMA 1xEV-DO
- 3 - AMPS (Unsupported)
- 4 - GSM
- 5 - UMTS
- 6 - WLAN
- 7 - GPS
- 8 - LTE
- 9 - TD-SCDMA
- 12 - NR5G

Copyright: © 2011 Sierra Wireless, Inc. all rights reserved

9.39 qaGobiApiTableRegionCodes.h File Reference

Region Codes table.

9.39.1 Detailed Description

Region Codes table.

9.39.2 Region Codes (Code - Region)

- 0 - North America
- 1 - Latin America
- 2 - Europe
- 3 - Asia
- 4 - Australia
- 5 - Global
- 0xFFFFFFFF - Unknown

Copyright: © 2011 Sierra Wireless, Inc. all rights reserved

9.40 qaGobiApiTableServiceOptions.h File Reference

Voice Service Options.

9.40.1 Detailed Description

Voice Service Options.

9.40.2 Service Option codes (Code - Reason)

9.40.2.1 Description

- 0x0001 - Basic variable rate voice service (8 kbps)
- 0x0002 - Mobile station loopback (8 kbps)
- 0x0003 - Enhanced variable rate voice service (8 kbps)
- 0x0004 - Asynchronous data service (9.6 kbps)
- 0x0005 - Group 3 facsimile (9.6 kbps)
- 0x0006 - Short message service (rate set 1)
- 0x0007 - Packet data service: Internet or ISO Protocol stack (9.6 kbps)
- 0x0008 - Packet data service: CDPD Protocol stack (9.6 kbps)
- 0x0009 - Mobile station loopback (13 kbps)
- 0x000A - transparent service
- 0x000B - III nontransparent service
- 0x000C - Asynchronous data service (14.4 or 9.6 kbps)
- 0x000D - Group 3 facsimile (14.4 or 9.6 kbps)
- 0x000E - Short message service (rate set 2)
- 0x000F - Packet data service: Internet or ISO Protocol stack (14.4 kbps)
- 0x0010 - Packet data service: CDPD Protocol stack (14.4 kbps)
- 0x0011 - High-rate voice service (13 kbps)
- 0x0012 - Over-the-air parameter administration (rate set 1)
- 0x0013 - Over-the-air parameter administration (rate set 2)
- 0x0014 - Group 3 analog facsimile (rate set 1)
- 0x0015 - Group 3 analog facsimile (rate set 2)
- 0x0016 - High-speed packet data service: Internet or ISO Protocol stack (RS1 forward, RS1 reverse)
- 0x0017 - High-speed packet data service: Internet or ISO Protocol stack (RS1 forward, RS2 reverse)
- 0x0018 - High-speed packet data service: Internet or ISO Protocol stack (RS2 forward, RS1 reverse)
- 0x0019 - High-speed packet data service: Internet or ISO Protocol stack (RS2 forward, RS2 reverse)
- 0x001A - High-speed packet data service: CDPD Protocol stack (RS1 forward, RS1 reverse)
- 0x001B - High-speed packet data service: CDPD Protocol stack (RS1 forward, RS2 reverse)

- 0x001C - High-speed packet data service: CDPD Protocol stack (RS2 forward, RS1 reverse)
- 0x001D - High-speed packet data service: CDPD Protocol stack (RS2 forward, RS2 reverse)
- 0x001E - RATE_SET_1 Supplemental channel loopback test for rate set 1
- 0x001F - RATE_SET_2 Supplemental channel loopback test for rate set 2
- 0x0020 - Test Data Service Option (TDSO)
- 0x0021 - cdma2000 high-speed packet data service, Internet or ISO Protocol stack
- 0x0022 - cdma2000 high-speed packet data service, CDPD Protocol
- 0x0023 - Location services, rate set 1 (9.6 kbps)
- 0x0024 - Location services, rate set 2 (14.4 kbps)
- 0x0025 - ISDN interworking service (64 kbps)
- 0x0026 - GSM voice
- 0x0027 - GSM circuit data
- 0x0028 - GSM packet data
- 0x0029 - GSM short message service
- 0x0036 - Markov Service Option (MSO)
- 0x0037 - Loopback Service Option (LSO)
- 0x0038 - Selectable mode vocoder
- 0x0039 - 32 kbps circuit video conferencing
- 0x003A - CONFERENCING 64 kbps circuit video conferencing
- 0x003B - HRPD packet data service, which when used in paging over the 1X air interface, a page response is not required
- 0x003C - Link Layer Assisted Robust Header Compression (LLA ROHC) - header removal
- 0x003D - LLA ROHC - Header Compression
- 0x003E - Source-controlled Variable-Rate Multimode Wideband (VMR-WB) speech codec rate set 2
- 0x003F - Source-controlled VMR-WB speech codec rate set 1
- 0x0040 - HRPD auxiliary packet data service instance
- 0x0041 - cdma2000/GPRS interworking
- 0x0042 - ISO_PROTOCOL_SO_66 cdma2000 high-speed packet data service, Internet or ISO Protocol stack
- 0x0043 - HRPD packet data IP service where higher layer protocol is IP or ROHC
- 0x0044 - Enhanced variable rate voice service (EVRC-B)
- 0x0045 - HRPD packet data service, which when used in paging over the 1X air interface, a page response is required
- 0x0046 - Enhanced variable rate voice service (EVRC-WB)
- 0x1004 - Asynchronous data service, Revision 1 (9.6 or 14.4 kbps)
- 0x1005 - Group 3 facsimile, Revision 1 (9.6 or 14.4 kbps)
- 0x1007 - Packet data service: Internet or ISO Protocol stack, Revision 1 (9.6 or 14.4 kbps)
- 0x1008 - Packet data service: CDPD Protocol stack, Revision 1 (9.6 or 14.4 kbps)

- 0x7FF8 - Identifies service reference identifier 0
- 0x7FF9 - Identifies service reference identifier 1
- 0x7FFA - Identifies service reference identifier 2
- 0x7FFB - Identifies service reference identifier 3
- 0x7FFC - Identifies service reference identifier 4
- 0x7FFD - Identifies service reference identifier 5
- 0x7FFE - Identifies service reference identifier 6
- 0x7FFF - Identifies service reference identifier 7

Copyright: © 2012 Sierra Wireless, Inc. all rights reserved

9.41 qaGobiApiTableSupServiceInfoClasses.h File Reference

Voice Supplementary Service Information Classes.

9.41.1 Detailed Description

Voice Supplementary Service Information Classes.

9.41.2 Supplementary Service Information Classes (Value - Service Class)

- 0X00 - CLASS_NONE
- 0X01 - CLASS_VOICE
- 0X02 - CLASS_DATA
- 0X04 - CLASS_FAX
- 0X08 - CLASS_SMS
- 0X10 - CLASS_DATACIRCUITSYNC
- 0X20 - CLASS_DATACIRCUITASYNC
- 0X40 - CLASS_PACKETACCESS
- 0X80 - CLASS_PADACCESS

Copyright: © 2012 Sierra Wireless, Inc. all rights reserved

9.42 qaGobiApiTableSwiAudio.h File Reference

Swi Audio related tables.

9.42.1 Detailed Description

Swi Audio related tables.

9.42.2 ACDB Device (Device ID - description)

- 0 - Vehicle HF
- 1 - Handset
- 2 - TTY
- 3 - USB
- 4 - NA

9.42.3 Physical Interface (Device ID - description - Interface parameters)

- 0 - PCM - Mode: 0-slave, 1-master, 2-Auxiliary PCM; Rate: 0-8k, 1-16k; Format: 0-linear, 1-u-law, 2-A-law; Padding: 0-disable, 1-enable; Bits-frame: 0-8BPF, 1-16BPF, 2-32BPF, 3-64BPF, 4-128BPF, 5-256BPF;
- 1 - I2S - None
- 2 - Analog(with internal codec) - None
- 3 - USB - None

Copyright: © 2013 Sierra Wireless, Inc. all rights reserved

9.43 qaGobiApiTableSwiOMADMSessionStatus.h File Reference

Session Status table.

9.43.1 Detailed Description

Session Status table.

9.43.2 OMA DM Session Status (Session Status - Meaning - Usage)

- 0x0000 - Successful - Session succeeded
- 0x0001 - Break - Session succeeded
- 0x0002 - Large Object Handled - Session succeeded
- 0x0003 - No status - Session succeeded
- 0x0004 - No more commands - Session succeeded
- 0x0005 - User cancel - Session cancelled
- 0x0100-0x01FF - General errors
- 0x0200-0x02FF - Syncml errors
- 0x0300-0x03FF - Authentication errors
- 0x0400-0x04FF - Protocol errors
- 0x0500-0x05FF - Tree errors (DM Only)
- 0x0600-0x06FF - Not applicable
- 0x0700-0x07FF - Trigger errors

- 0x0800-0x08FF - FUMO errors
- 0x0900-0x09FF - Communication errors
- 0x0A00-0x0AFF - Parsing errors
- 0x0B00-0x0CFF - Not applicable
- 0x7F00-0x7F12 - Insignia errors
- 0x7F13 - Illegal text - Text received contains illegal characters
- 0x7F14 - Download failure - Failed to download FOTA image
- 0x7F15 - Empty session - Session ran successfully, but no information was updated
- 0x7F16 - Factory reset successful - Factory reset succeeded
- 0x7F17 - Factory reset fail - Factory reset failed

Copyright: © 2017 Sierra Wireless, Inc. all rights reserved

9.44 qaGobiApiTableSwiOMADMUpdateCompleteStatus.h File Reference

Update Complete Status table.

9.44.1 Detailed Description

Update Complete Status table.

9.44.2 OMA DM Update Complete Status (Update Complete Status - Meaning - Usage)

- 200 - Successful - The request has succeeded
- 250-299 - Successful(vendor specified) - successful operation with vendor specified ResultCode
- 400 - Management Client Error - Management Client error - based on User or Device behavior
- 401 - User Cancelled - User chose not to accept the operation when prompted
- 402 - Corrupted Firmware Update Package - Corrupted firmware update package did not store correctly. Detected for example, by mismatch CRCs between actual and expected
- 403 - Firmware UpdatePackage(Device Mismatch) - Wrong firmware update package delivered to device based on current device characteristics
- 404 - Failed Firmware Update Package Validation - Failure to positively validate digital signature of firmware update package
- 405 - Firmware Update Package Not acceptable - firmware update package is not acceptable
- 406 - Alternate Download Authentication Failure - authentication required but authentication failure was encountered when downloading firmware update package
- 407 - Alternate Download Request Timeout - client has encountered a timeout when downloading firmware update package
- 408 - Not Implemented - the device does not support the requested operation
- 409 - Undefined Error - indicates failure not defined by any other error code
- 410 - Firmware Update Failed - firmware update operation failed in device

- 411 - Malformed or Bad URL - the URL provided for alternate download is bad
- 412 - Alternate Download Server Unavailable - the alternate download server is unavailable or does not respond
- 450 - Client Error (OMADM General) - Vendor defined client error
- 451 - Client Error (OMADM SyncML) - Vendor defined client error
- 452 - Client Error (OMADM Auth) - Vendor defined client error
- 453 - Client Error (OMADM Protocol)- Vendor defined client error
- 454 - Client Error (OMADM Tree) - Vendor defined client error
- 455 - Client Error (OMADM DStore) - Vendor defined client error
- 456 - Client Error (OMADM Trigger) - Vendor defined client error
- 457 - Client Error (OMADM Fumo) - Vendor defined client error
- 458 - Client Error (OMADM Comms) - Vendor defined client error
- 459 - Client Error (OMADM Parse) - Vendor defined client error
- 460 - Client Error (OMADM TNDS) - Vendor defined client error
- 461 - Client Error (OMADM SCM) - Vendor defined client error
- 462 - Client Error (OMADM Impl) - Vendor defined client error
- 463-499 - Client Error (Vendor Specified) - client error encountered for operation with vendor specified result code
- 500 - Alternate Download Server Error - Alternate download server error encountered
- 501 - Download fails due to device out of memory - The download fails due to insufficient memory in the device to save the firmware update package
- 502 - Firmware update fails due to device out of memory - The update fails because there isn't sufficient memory to update the device
- 503 - Download fails due to network issues - The download fails due to network/transport level errors
- 550-599 - Alternate Download Server Error (vendor specified)- Alternate download server error encountered for operation with vendor specified result code

Copyright: © 2013 Sierra Wireless, Inc. all rights reserved

9.45 qaGobiApiTableVoiceCallEndReasons.h File Reference

Voice Service Call and supplementary services end reasons.

9.45.1 Detailed Description

Voice Service Call and supplementary services end reasons.

9.45.2 Voice Call and supplementary services end reason codes (Code - Reason)

9.45.2.1 General

- 0 - Phone is offline
- 20 - Phone is CDMA locked until a power cycle; CDMA only
- 21 - Phone has no service, this is for backward compatibility
- 22 - Call has ended abnormally; CDMA only
- 23 - Received intercept from the base station; originating only; CDMA only
- 24 - Received reorder from the base station; originating only; CDMA only
- 25 - Received release from the base station; no reason was given
- 26 - Received release from the base station; SO reject; CDMA only
- 27 - Received incoming call from the base station
- 28 - Received alert stop from the base station; incoming only; CDMA only
- 29 - Client ended the call
- 30 - Received end activation; OTASP call only; CDMA only
- 31 - MC aborted the origination/conversation; CDMA only
- 32 - Maximum access probes were transmitted; CDMA only
- 33 - Persistence test failure; FEATURE_JCDMA only; CDMA only
- 34 - R-UIM is not present
- 35 - Access attempt is already in progress
- 36 - Access failure for a reason other than the above
- 37 - Received retry order; originating only; IS 2000; CDMA only
- 38 - BYBS Concurrent service is not supported by the base station
- 39 - No response was received from the base station
- 40 - Call was rejected by the base station; CDMA only
- 41 - Concurrent services requested were not compatible; CDMA only
- 42 - Access is blocked by the base station; CDMA only
- 43 - Corresponds to CM_CALL_ORIG_ ERR_ALREADY_IN_TC
- 44 - Call is ended because an emergency call is flashed over this call; CDMA only
- 45 - Used if CM is ending a GPS call in preference of a user call
- 46 - Used if CM is ending an SMS call in preference of a user call
- 47 - Used if CM is ending a data call in preference of an emergency call
- 48 - Call was rejected because of a redirection or handoff
- 49 - Access is blocked by the base station for all mobiles; KDDI-specific; CDMA only
- 50 - To support OTASP SPC Error indication
- 51 - Maximum access probes for an IS-707B call; CDMA only

- 52 - Base station reject order
- 53 - Base station retry order
- 54 - Timer T42 is expired
- 55 - Timer T40 is expired
- 56 - Service initialization failure - Traffic Channel Initialization
- 57 - Timer T50m is expired - Traffic Channel Initialization
- 58 - Timer T51m is expired - Traffic Channel Initialization
- 59 - Acknowledgement timeout due to 12 retransmissions
- 60 - Bad forward link or timer T5M is expired
- 61 - Transceiver Resource Manager request failed
- 62 - Timer T41 is expired
- 100 - WCDMA/GSM/TDS only; call end LL cause, Received a reason for ending the call from the lower layer
- 101 - WCDMA/GSM only; Call origination request failed
- 102 - WCDMA/GSM only; client rejected an incoming call
- 103 - WCDMA/GSM only; client rejected a setup indication
- 104 - WCDMA/GSM only; network ended the call
- 105 - WCDMA/GSM only
- 106 - GWM/WCDMA only; phone has no service
- 107 - 1X only; phone has no service
- 108 - Full service is unavailable
- 109 - Indicates resources are not available to handle a new MO/MT PS call

9.45.2.2 service Errors

- 110 - Unknown subscriber
- 111 - Illegal subscriber
- 112 - Bearer service not provisioned
- 113 - Tele service not provisioned
- 114 - Illegal equipment
- 115 - Call barred
- 116 - Illegal ss operation
- 117 - Ss error status
- 118 - Ss not available
- 119 - Ss subscription violation
- 120 - Ss incompatibility
- 121 - Facility not supported
- 122 - Absent subscriber

- 123 - Short term denial
- 124 - Long term denial
- 125 - System failure
- 126 - Data missing
- 127 - Unexpected data value
- 128 - Pwd registration failure
- 129 - Negative pwd check
- 130 - Num of pwd attempts violation
- 131 - Position method failure
- 132 - Unknown alphabet
- 133 - Ussd busy
- 134 - Rejected by user
- 135 - Rejected by network
- 136 - Deflection to served subscriber
- 137 - Special service code
- 138 - Invalid deflected to number
- 139 - Mpty participants exceeded
- 140 - Resources not available

9.45.2.3 control cause values

- 141 - Unassigned number
- 142 - No route to destination
- 143 - Channel unacceptable
- 144 - Operator determined barring
- 145 - Normal call clearing
- 146 - User busy sEE [s3, aNNEX h]
- 147 - No user responding sEE [s3, aNNEX h]
- 148 - User alerting no answer
- 149 - Call rejected sEE [s3, aNNEX h]
- 150 - Number changed sEE [s3, aNNEX h]
- 151 - Preemption sEE [s3, aNNEX h]
- 152 - Destination out of order
- 153 - Invalid number format
- 154 - Facility rejected
- 155 - Resp to status enquiry
- 156 - Normal unspecified

- 157 - No circuit or channel available
- 158 - Network out of order
- 159 - Temporary failure
- 160 - Switching equipment congestion
- 161 - Access information discarded
- 162 - Requested circuit or channel not available
- 163 - Resources unavailable or unspecified
- 164 - Qos unavailable
- 165 - Requested facility not subscribed
- 166 - Incoming calls barred within cug
- 167 - Bearer capability not auth
- 168 - Bearer capability unavailable
- 169 - Service option not available
- 170 - Acm limit exceeded
- 171 - Bearer service not implemented
- 172 - Requested facility not implemented
- 173 - Only digital information bearer available
- 174 - Service or option not implemented
- 175 - Invalid transaction identifier
- 176 - USER NOT MEMBER OF CUG
- 177 - Incompatible destination
- 178 - Invalid transit nw selection
- 179 - Semantically incorrect message
- 180 - Invalid mandatory information
- 181 - Message type non implemented
- 182 - Message type not compatible with protocol statE
- 183 - Information element non existent
- 184 - Conditonal ie error
- 185 - Message not compatible with protocol state
- 186 - Recovery on timer expired
- 187 - Protocol error unspecified
- 188 - Interworking unspecified
- 189 - Outgoing calls barred within cug
- 190 - No cug selection
- 191 - Unknown cug index
- 192 - Cug index incompatible

- 193 - Cug call failure unspecified
- 194 - Clir not subscribed
- 195 - Ccbs possible sEE
- 196 - Ccbs not possible

9.45.2.4 reject causes

- 197 - Imsi unknown in hlr
- 198 - Illegal ms
- 199 - Imsi unknown in vlr
- 200 - Imei not accepted
- 201 - Illegal me sEE
- 202 - Plmn not allowed
- 203 - Location area not allowed
- 204 - Roaming not allowed in this location area
- 205 - No suitable cells in location area
- 206 - Network failure sEE
- 207 - mac failure sEE
- 208 - Synch failure
- 209 - Network congestion
- 210 - GSM authentication unacceptable
- 211 - Service not subscribed
- 212 - Service temporarily out of order
- 213 - Call cannot be identified
- 214 - Incorrect semantics in message
- 215 - Mandatory information invalid
- 216 - Call failed due to other access stratum failures
- 217 - SIM is invalid
- 218 - Invalid call state
- 219 - Access class is blocked
- 220 - No resources are in the protocol stack to allow the call
- 221 - Invalid user data was received

9.45.2.5 reject causes

- 222 - Timer T3230 is expired
- 223 - No cell is available
- 224 - Abort message was received
- 225 - Radio link was lost due to other lower layer causes

9.45.2.6 reject causes

- 226 - Timer T303 is expired
- 227 - CNM MM release is pending

9.45.2.7 stratum reject causes

- 228 - Access stratum RR release indication
- 229 - Access stratum random access failure
- 230 - RRC_REL_IND Access stratum RRC release indication
- 231 - Access stratum close session indication
- 232 - Access stratum open session failure
- 233 - Access stratum low level failure
- 234 - Access stratum low level failure redial is not allowed
- 235 - Access stratum low level immediate retry
- 236 - Access stratum abort radio is unavailable

9.45.2.8 reject causes

- 237 - Service option is not supported

9.45.2.9 IP end reasons

- 300 - Received SIP 400 bad request;waiting for INVITE response
- 301 - Received SIP 400 bad request;waiting for INVITE response
- 302 - Received SIP 404 not found; call failed; called party does not exist
- 303 - Received SIP 415 unsupported media type; call failed; called party does not support media
- 304 - Received SIP 480 temporarily unavailable; call failed; called party is not in the LTE area
- 305 - No network response; call failed
- 306 - No network response; unable to put call on hold
- 307 - Moved to eHRPD; call failed or dropped; not in the LTE area
- 308 - Upgrade/downgrade rejected (200 OK with the current call SDP)
- 309 - Received 403 call forbidden; waiting for INVITE response
- 310 - Generic timeout; did not receive a response from the server or other end
- 311 - Reported on the MO side for generic internal software errors; user can try again if the call still exists
- 312 - Reported on the MT side if the upgrade timer has been cancelled or cannot complete the request for some reason after notifying the user of a re-invite request
- 313 - Call origination is rejected due to a Service-Specific Access Control (SSAC) barring
- 314 - Phone was put in thermal emergency
- 315 - 1XCSFB call ended because of a soft failure
- 316 - 1XCSFB call ended because of a hard failure

Copyright: © 2012 Sierra Wireless, Inc. all rights reserved

9.46 qaGobiApiTmd.h File Reference

Thermal Mitigation Device API function prototypes.

Data Structures

- struct mitigationDevList
- struct TmdGetMitigationDevListResp
- struct TmdGetMitigationLvlReq
- struct TmdGetMitigationLvlResp
- struct TmdRegNotMitigationLvlReq
- struct TmdDeRegNotMitigationLvlReq
- struct TmdMitigationLvlIndReq

Macros

- #define MAX_MITIGATION_DEV_LIST_LEN 255
- #define MAX_MITIGATION_DEV_ID_LEN 255

Functions

- ULONG SLQSTmdGetMitigationDevList (TmdGetMitigationDevListResp *pTmdGetMitigationDevListResp)
- ULONG SLQSTmdGetMitigationLvl (TmdGetMitigationLvlReq *pTmdGetMitigationLvlReq, TmdGetMitigationLvlResp *pTmdGetMitigationLvlResp)
- ULONG SLQSTmdRegNotMitigationLvl (TmdRegNotMitigationLvlReq *pTmdRegNotMitigationLvlReq)
- ULONG SLQSTmdDeRegNotMitigationLvl (TmdDeRegNotMitigationLvlReq *pTmdDeRegNotMitigationLvlReq)

9.46.1 Detailed Description

Thermal Mitigation Device API function prototypes.

9.46.2 Macro Definition Documentation

9.46.2.1 #define MAX_MITIGATION_DEV_ID_LEN 255

9.46.2.2 #define MAX_MITIGATION_DEV_LIST_LEN 255

9.46.3 Function Documentation

9.46.3.1 ULONG SLQSTmdDeRegNotMitigationLvl (TmdDeRegNotMitigationLvlReq * *pTmdDeRegNotMitigationLvlReq*)

Deregisters the notification for mitigation device level changes.

Parameters

pTmdDeRegNotMitigationLvlReq[IN]	• See TmdDeRegNotMitigationLvlReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.46.3.2 ULONG SLQSTmdGetMitigationDevList (TmdGetMitigationDevListResp * *pTmdGetMitigationDevListResp*)

Used by the control point to gets the list of mitigation devices from the remote endpoint.

Parameters

pTmdGetMitigationDevListResp[OUT]	• See TmdGetMitigationDevListResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.46.3.3 ULONG SLQSTmdGetMitigationLvl (TmdGetMitigationLvlReq * *pTmdGetMitigationLvlReq*, TmdGetMitigationLvlResp * *pTmdGetMitigationLvlResp*)

Gets the thermal mitigation level for the mitigation device

Parameters

pTmdGetMitigationLvlReq[IN]	• See TmdGetMitigationLvlReq for more information
pTmdGetMitigationLvlResp[OUT]	• See TmdGetMitigationLvlResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.46.3.4 ULONG SLQSTmdRegNotMitigationLvl (TmdRegNotMitigationLvlReq * *pTmdRegNotMitigationLvlReq*)

Registers for notification of mitigation device level changes.

Parameters

pTmdRegNot-MitigationLvl-Req[IN]	• See TmdRegNotMitigationLvlReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.47 qaGobiApiUim.h File Reference

Uim Service API function prototypes.

Data Structures

- struct UIMPowerDownReq
- struct fileInfo
- struct UIMRefreshEvent
- struct appStatus
- struct slotInfo
- struct cardStatus
- struct hotSwapStatus
- struct UIMGetCardStatusResp
- struct UIMSessionInformation
- struct setPINProtection
- struct UIMSetPinProtectionReq
- struct remainingRetries
- struct encryptedPIN1
- struct UIMPinResp
- struct verifyUIMPIN
- struct UIMVerifyPinReq
- struct changeUIMPIN
- struct UIMChangePinReq
- struct unblockUIMPIN
- struct UIMUnblockPinReq
- struct UIMEventRegisterReqResp
- struct UIMRefreshOKReq
- struct registerRefresh
- struct UIMRefreshRegisterReq
- struct UIMRefreshCompleteReq
- struct UIMRefreshGetLastEventResp
- struct UIMRefreshGetLastEventReq
- struct UIMGetFileAttributesReq
- struct cardResult
- struct fileAttributes
- struct UIMGetFileAttributesResp
- struct depersonalizationInformation
- struct UIMDepersonalizationReq
- struct UIMDepersonalizationResp

- struct authenticationData
- struct UIMAuthenticateReq
- struct authenticateResult
- struct UIMAuthenticateResp
- struct readResult
- struct readTransparentInfo
- struct UIMReadTransparentReq
- struct UIMReadTransparentResp
- struct UIMPowerUpReq
- struct UIMSlotStatus
- struct UIMSlotsStatus
- struct UIMGetSlotsStatusResp
- struct UIMSwitchSlotReq
- struct personalizationStatus
- struct UIMGetConfigurationReq
- struct UIMGetConfigurationResp

Macros

- #define MAX_DESCRIPTION_LENGTH 255
- #define MAX_CONTENT_LENGTH 1024
- #define MAX_NO_OF_APPLICATIONS 10
- #define MAX_NO_OF_SLOTS 5
- #define MAX_PUK_LENGTH 8
- #define MAX_PATH_LENGTH 255
- #define MAX_ICCID_LENGTH 255
- #define MAX_SLOTS_STATUS 255
- #define MAX_ACTIVE_PERS_FEATURES 12

Functions

- ULONG SLQSUIMReset ()
- ULONG SLQSUIMPowerDown (UIMPowerDownReq *pUIMPowerDownReq)
- ULONG SLQSUIMGetCardStatus (UIMGetCardStatusResp *pUIMGetCardStatusResp)
- ULONG SLQSUIMSetPinProtection (UIMSetPinProtectionReq *pUIMSetPinProtectionReq, UIMPinResp *pUIMSetPinProtectionResp)
- ULONG SLQSUIMVerifyPin (UIMVerifyPinReq *pUIMVerifyPinReq, UIMPinResp *pUIMVerifyPinResp)
- ULONG SLQSUIMChangePin (UIMChangePinReq *pUIMChangePinReq, UIMPinResp *pUIMChangePinResp)
- ULONG SLQSUIMUnblockPin (UIMUnblockPinReq *pUIMUnblockPinReq, UIMPinResp *pUIMUnblockPinResp)
- ULONG SLQSUIMEventRegister (UIMEventRegisterReqResp *pUIMEventRegisterReqResp)
- ULONG SLQSUIMRefreshOK (UIMRefreshOKReq *pUIMRefreshOKReq)
- ULONG SLQSUIMRefreshRegister (UIMRefreshRegisterReq *pUIMRefreshRegisterReq)
- ULONG SLQSUIMRefreshComplete (UIMRefreshCompleteReq *pUIMRefreshCompleteReq)
- ULONG SLQSUIMRefreshGetLastEvent (UIMRefreshGetLastEventReq *pUIMRefreshGetLastEventReq, UIMRefreshGetLastEventResp *pUIMRefreshGetLastEventResp)
- ULONG SLQSUIMGetFileAttributes (UIMGetFileAttributesReq *pUIMGetFileAttributesReq, UIMGetFileAttributesResp *pUIMGetFileAttributesResp)
- ULONG SLQSUIMDepersonalization (UIMDepersonalizationReq *pUIMDepersonilizationReq, UIMDepersonalizationResp *pUIMDepersonilizationResp)
- ULONG SLQSUIMAuthenticate (UIMAuthenticateReq *pUIMAuthenticateReq, UIMAuthenticateResp *pUIMAuthenticateResp)

- ULONG SLQSUIMReadTransparent (UIMReadTransparentReq *pUIMReadTransparentReq, UIMReadTransparentResp *pUIMReadTransparentResp)
- ULONG SLQSUIMPowerUp (UIMPowerUpReq *pUIMPowerUpReq)
- ULONG SLQSUIMGetSlotsStatus (UIMGetSlotsStatusResp *pResp)
- ULONG SLQSUIMSwitchSlot (UIMSwitchSlotReq *pReq)
- ULONG SLQSUIMGetConfiguration (UIMGetConfigurationReq *pUIMGetConfigurationReq, UIMGetConfigurationResp *pUIMGetConfigurationResp)

9.47.1 Detailed Description

Uim Service API function prototypes.

9.47.2 Macro Definition Documentation

9.47.2.1 #define MAX_ACTIVE_PERS_FEATURES 12

9.47.2.2 #define MAX_CONTENT_LENGTH 1024

9.47.2.3 #define MAX_DESCRIPTION_LENGTH 255

9.47.2.4 #define MAX_ICCID_LENGTH 255

9.47.2.5 #define MAX_NO_OF_APPLICATIONS 10

9.47.2.6 #define MAX_NO_OF_SLOTS 5

9.47.2.7 #define MAX_PATH_LENGTH 255

9.47.2.8 #define MAX_PUK_LENGTH 8

9.47.2.9 #define MAX_SLOTS_STATUS 255

9.47.3 Function Documentation

9.47.3.1 ULONG SLQSUIMAuthenticate (UIMAuthenticateReq * *pUIMAuthenticateReq*, UIMAuthenticateResp * *pUIMAuthenticateResp*)

This API executes the authentication algorithm on the card.

Parameters

pUIMAuthenticateReq[IN]	• See UIMAuthenticateReq for more information.
pUIMAuthenticateResp[OUT]	• See UIMAuthenticateResp for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs

```
This API executes a security command on the card that depends on
the card type.
The response contains the status code received from the card
(SW1 and SW2) when the card responded to the read request.
The client can pass a token in the request to receive the result
in a subsequent SLQSUIMAuthenticateCallback
```

9.47.3.2 ULONG SLQSUIMChangePin (UIMChangePinReq * *pUIMChangePinReq,* UIMPinResp * *pUIMChangePinResp*)

This API changes the value of the specified PIN.

Parameters

pUIMChange-PinReq[IN]	• See UIMChangePinReq for more information.
pUIMChange-PinResp[OUT]	• See UIMPinResp for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs

```
This API changes the value of the specified PIN.
The application must pass both the new and the old values of the
PIN to complete the operation
The same PIN can be used by multiple sessions (i.e., the PIN is
shared between GSM and RUIM in an ICC card).
The PIN is automatically set for all the sessions when the API
is executed.
The client can pass a token in the request to receive the result
in a subsequent SLQSUIMChangePinCallback.
```

9.47.3.3 ULONG SLQSUIMDepersonalization (UIMDepersonalizationReq * *pUIMDepersonilizationReq,* UIMDepersonalizationResp * *pUIMDepersonilizationResp*)

This API de-activates or unblocks the personalization on the phone.

Parameters

pUIM-Depersonilization-Req[IN]	• See UIMDepersonalizationReq for more information.
pUIM-Depersonilization-Resp[OUT]	• See UIMDepersonalizationResp for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs

```
This API deactivates or unblocks the personalization on the phone.
Each feature can be deactivated/unblocked independently of the
other features.
```

9.47.3.4 ULONG SLQSUIMEventRegister (UIMEventRegisterReqResp * *pUIMEventRegisterReqResp*)

This API Registers for event notifications from the card.

Parameters

pUIMEvent-RegisterReq-Resp[IN/OUT]	• See UIMEventRegisterReqResp for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs

```
This function registers for event notifications from the card.
The client must verify the mask in the response to determine
which events were registered successfully. Events not supported
correctly are not registered. The client can deregister from
all event notifications by passing "0x00000000" bitmask in the
request.
```

9.47.3.5 ULONG SLQSUIMGetCardStatus (UIMGetCardStatusResp * *pUIMGetCardStatusResp*)

This API retrieves the current status of the card.

Parameters

pUIMGetCard-StatusResp[OU-T]	• See UIMGetCardStatusResp for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs

```
This function retrieves the current status of the card(activated)
and the status of all applications available on the card.
The function also returns support information for the hot-swap
feature and the status of the switch used to detect a card
removal/insertion.

Please use \ref SLQSUIMGetSlotsStatus to retrieves active and
inactivate SIMs status.
```

9.47.3.6 ULONG SLQSUIMGetConfiguration (UIMGetConfigurationReq * *pUIMGetConfigurationReq*, UIMGetConfigurationResp * *pUIMGetConfigurationResp*)

This API Gets the modem configuration for the UIM module.

Parameters

pUIMGet-Configuration-Req[IN]	• See UIMGetConfigurationReq for more information.
pUIMGet-Configuration-Resp[OUT]	• See UIMGetConfigurationResp for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs

9.47.3.7 ULONG SLQSUIMGetFileAttributes (UIMGetFileAttributesReq * *pUIMGetFileAttributesReq*, UIMGetFileAttributesResp * *pUIMGetFileAttributesResp*)

This API retrieves the file attributes for any Elementary File(EF) or Dedicated File(DF) in the card and provides access by the path.

Parameters

pUIMGetFileAttributesReq[IN]	• See UIMGetFileAttributesReq for more information.
pUIMGetFileAttributesResp[OUT]	• See UIMGetFileAttributesResp for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs

```
This API retrieves the file attributes for any Elementary File(EF)
or Dedicated File(DF) in the card and provides access by the path.
The response contains the status code received from the card
(SW1 and SW2) when the card responded to the select request.
The client can pass a token in the request to receive the result
in a subsequent SLQSUIMGetFileAttributesCallback.
```

9.47.3.8 ULONG SLQSUIMGetSlotsStatus (UIMGetSlotsStatusResp * *pResp*)

This API Retrieves the current of the physical and logical slots.

Parameters

pResp[OUT]	• See UIMGetSlotsStatusResp for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs

9.47.3.9 ULONG SLQSUIMPowerDown (UIMPowerDownReq * *pUIMPowerDownReq*)

This API powers down the SIM card.

Parameters

pUIMPowerDownReq[IN]	• See UIMPowerDownReq for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs

```
This function powers down the card.
This is usually performed when the phone is switched off or when
it is set to Airplane mode.
```

9.47.3.10 ULONG SLQSUIMPowerUp (UIMPowerUpReq * *pUIMPowerUpReq*)

This API powers up the SIM card.

Parameters

pUIMPowerUp-Req[IN]	• See UIMPowerUpReq for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs

```
This function powers up the card.
This is usually performed when the phone is switched off or when
it is set to Airplane mode.
```

9.47.3.11 ULONG SLQSUIMReadTransparent (UIMReadTransparentReq * *pUIMReadTransparentReq*, UIMReadTransparentResp * *pUIMReadTransparentResp*)

This API executes the Read Transparent algorithm on the card.

Parameters

pUIMRead-Transparent-Req[IN]	• See UIMReadTransparentReq for more information.
pUIMRead-Transparent-Resp[OUT]	• See UIMReadTransparentResp for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs

```
This API Provides read access to any transparent file in the
card and provides access by the path.
The response contains the status code received from the card
(SW1 and SW2) when the card responded to the read request.
The client can pass a token in the request to receive the result
in a subsequent QMI_UIM_READ_TRANSPARENT_IND indication.
```

9.47.3.12 ULONG SLQSUIMRefreshComplete (UIMRefreshCompleteReq * *pUIMRefreshCompleteReq*)

This API invoked when the client has finished the Refresh procedure.

Parameters

pUIMRefresh-CompleteReq[IN]	• See UIMRefreshCompleteReq for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs

```
This function is invoked when the client has finished the Refresh
procedure (has reread all the cached files) and communicates this
to the modem. This function enables the terminal response to be
sent to the card
```

9.47.3.13 ULONG SLQSUIMRefreshGetLastEvent (UIMRefreshGetLastEventReq * *pUIMRefreshGetLastEventReq*, UIMRefreshGetLastEventResp * *pUIMRefreshGetLastEventResp*)

This API provides the ability to retrieve the last refresh event.

Parameters

pUIMRefresh-GetLastEvent-Req[IN]	• See UIMRefreshGetLastEventReq for more information.
pUIMRefresh-GetLastEvent-Resp[OUT]	• See UIMRefreshGetLastEventResp for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs

```
This function provides the ability to retrieve the last refresh
event. The event information is usually passed in as an indication
from the QMI to the application and is saved by the application at
that time. If the event information is not saved, the client can
retrieve the last refresh event.
Details regarding the Refresh procedure (i.e., the stages and
actions that an application must complete) are described in
document: 80-VM566-1(NAA Refresh High Level Guide )
```

9.47.3.14 ULONG SLQSUIMRefreshOK (UIMRefreshOKReq * *pUIMRefreshOKReq*)

This API Enables the client to indicate whether it is OK to start the Refresh procedure.

Parameters

pUIMRefreshOKReq[IN]	• Consist of parameters for SLQSUIMRefreshOK. Please see /ref UIMRefreshOKReq for details.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs

```
This function enables the client to indicate whether it is OK to
start the Refresh procedure. This command is used only after a
refresh event is received, which indicates the need to vote.
```

9.47.3.15 ULONG SLQSUIMRefreshRegister (UIMRefreshRegisterReq * *pUIMRefreshRegisterReq*)

This API Registers for file change notifications triggered by the card.

Parameters

pUIMRefreshRegisterReq[IN]	• See UIMRefreshRegisterReq for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs

```
This function registers for file change notifications triggered
by the card. The client can specify a list of files. The client
is notified only when one of the files is modified by the Refresh
procedure. This function can be invoked multiple times for each
session type. If the function is invoked twice with the same session
type, the new values overwrite the previous values. The client can
also use this function to stop receiving indications of the refresh.
This API should be invoked prior to the invocation of the
SLQSUIMSetRefreshCallBack for the events to be registered.
```

9.47.3.16 ULONG SLQSUIMReset ( )

This API resets the issuing control points state kept by the service.

Parameters

None	

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs

```
The list of events to which the client is registered is emptied.
The client must register again using the SLQSUIMEventReg API
to start receiving the events again. This would mean that the
callback registrations would be reset after this API.
```

9.47.3.17 ULONG SLQSUIMSetPinProtection (UIMSetPinProtectionReq * *pUIMSetPinProtectionReq,* UIMPinResp * *pUIMSetPinProtectionResp*)

This API enables or disables the protection of the UIM contents by a specific PIN.

Parameters

pUIMSetPinProtectionReq[IN]	• See UIMSetPinProtectionReq for more information.
pUIMSetPinProtectionResp[OUT]	• See UIMPinResp for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs

```
This API enables or disables the protection of UIM contents by a
specific PIN.
The same PIN can be used by multiple sessions (i.e., the PIN is
shared between GSM and RUIM in an ICC card).
The PIN is automatically set for all the sessions when the API
is executed.
The client can pass a token in the request to receive the result
in a subsequent SLQSUIMSetPinProtectionCallback indication.
```

9.47.3.18 ULONG SLQSUIMSwitchSlot (UIMSwitchSlotReq * *pReq*)

This API Switches the binding between a logical slot and a physical slot.

Parameters

pReq[IN]	• See UIMSwitchSlotReq for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs

```
Please wait at least one second before this API call again.
```

9.47.3.19 ULONG SLQSUIMUnblockPin (UIMUnblockPinReq * *pUIMUnblockPinReq*, UIMPinResp * *pUIMUnblockPinResp*)

This API unblocks a blocked PIN using the PUK code.

Parameters

pUIMUnblock-PinReq[IN]	• See UIMUnblockPinReq for more information.
pUIMUnblock-PinResp[OUT]	• See UIMPinResp for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs

```
This API unblocks a blocked PIN using the PUK code.
The client must pass PUK1 to unblock PIN1 or PUK2 to unblock PIN2.
The same PIN can be used by multiple sessions (i.e., the PIN is
shared between GSM and RUIM in an ICC card).
The PIN is automatically set for all the sessions when the API
is executed.
The client can pass a token in the request to receive the result
in a subsequent SLQSUIMUnblockPinCallback.
```

9.47.3.20 ULONG SLQSUIMVerifyPin (UIMVerifyPinReq * *pUIMVerifyPinReq*, UIMPinResp * *pUIMVerifyPinResp*)

This API verifies the PIN before the card content is accessed.

Parameters

pUIMVerifyPin-Req[IN]	• See UIMVerifyPinReq for more information.
pUIMVerifyPin-Resp[OUT]	• See UIMPinResp for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs

```
This API verifies the PIN before the card content is accessed.
The same PIN can be used by multiple sessions (i.e., the PIN is
shared between GSM and RUIM in an ICC card).
The PIN is automatically set for all the sessions when the API
is executed.
The client can pass a token in the request to receive the result
in a subsequent SLQSUIMVerifyPinCallback.
```

9.48 qaGobiApiVoice.h File Reference

Voice Service API function prototypes.

Data Structures

- struct USSInfo
- struct UUSInfo
- struct CUGInfo
- struct calledPartySubAdd
- struct voiceCallRequestParams
- struct alphaIDInfo
- struct ccSUPSType
- struct voiceCallResponseParams
- struct callFwdTypeAndPlan
- struct voiceSetSUPSServiceReq
- struct voiceSetSUPSServiceResp
- struct airTimer
- struct roamTimer
- struct prefVoiceSO
- struct voiceSetConfigReq
- struct voiceSetConfigResp
- struct voiceAnswerCall
- struct CLIRResp
- struct voiceGetCLIRResp
- struct CLIPResp
- struct voiceGetCLIPResp
- struct voiceGetCallWaitInfo
- struct voiceGetCallBarringReq
- struct voiceGetCallBarringResp
- struct voiceGetCallFWReq
- struct callFWInfo
- struct callFWExtInfo
- struct getCallFWInfo
- struct getCallFWExtInfo
- struct voiceGetCallFWResp
- struct voiceSetCallBarringPwdInfo
- struct voiceSetCallBarringPwdResp
- struct callInfo
- struct remotePartyNum
- struct remotePartyName
- struct connectNumInfo
- struct diagInfo
- struct voiceCallInfoReq
- struct voiceCallInfoResp
- struct getAllCallInformation
- struct getAllCallRmtPtyNum
- struct getAllCallRmtPtyName
- struct allCallsUUSInfo
- struct allCallsAlphaIDInfo
- struct allCallsDiagInfo
- struct peerNumberInfo
- struct arrCallInfo
- struct arrRemotePartyNum
- struct arrRemotePartyName
- struct arrAlertingType
- struct arrUUSInfo
- struct arrSvcOption
- struct arrCallEndReason

- struct arrAlphaID
- struct arrConnectPartyNum
- struct arrDiagInfo
- struct arrCalledPartyNum
- struct arrRedirPartyNum
- struct arrAlertingPattern
- struct voiceGetAllCallInfo
- struct voiceManageCallsReq
- struct voiceManageCallsResp
- struct burstDTMFInfo
- struct DTMFLengths
- struct voiceBurstDTMFInfo
- struct voiceContDTMFinfo
- struct voiceStopContDTMFinfo
- struct voiceFlashInfo
- struct voiceSetPrefPrivacy
- struct voiceIndicationRegisterInfo
- struct DTMFInfo
- struct SUPSInfo
- struct newPwdData
- struct COLPResp
- struct COLRResp
- struct CNAPResp
- struct voiceGetConfigReq
- struct curAMRConfig
- struct voiceGetConfigResp
- struct voiceOrigUSSDNoWaitInfo
- struct voiceBindSubscriptionInfo
- struct voiceALSSetLineSwitchInfo
- struct voiceALSSelectLineInfo
- struct voiceGetCOLPResp
- struct voiceGetCOLRResp
- struct voiceGetCNAPResp
- struct USSResp
- struct USSDRespFNetwork

Macros

- #define MAXUSSDLENGTH 182
- #define MAX_CALL_NO_LEN 81
- #define MAX_DESCRIPTION_LENGTH 255
- #define PASSWORD_LENGTH 4
- #define MAX_NO_OF_CALLS 20

Enumerations

- enum serviceClassInformation {
  VOICE_SUPS_SRV_CLASS_NONE = 0x00,
  VOICE_SUPS_SRV_CLASS_VOICE = 0x01,
  VOICE_SUPS_SRV_CLASS_DATA = 0x02,
  VOICE_SUPS_SRV_CLASS_FAX = 0x04,
  VOICE_SUPS_SRV_CLASS_SMS = 0x08,
  VOICE_SUPS_SRV_CLASS_DATACIRCUITSYNC = 0x10,
  VOICE_SUPS_SRV_CLASS_DATACIRCUITASYNC = 0x20,
  VOICE_SUPS_SRV_CLASS_PACKETACCESS = 0x40,
  VOICE_SUPS_SRV_CLASS_PADACCESS = 0x80 }

Functions

- ULONG OriginateUSSD (BYTE *pInfo)
- ULONG AnswerUSSD (BYTE *pInfo)
- ULONG CancelUSSD ()
- ULONG SLQSVoiceDialCall (voiceCallRequestParams *pCallRequestParams, voiceCallResponseParams *pCallResponseParams)
- ULONG SLQSVoiceEndCall (BYTE *pCallId)
- ULONG SLQSVoiceSetSUPSService (voiceSetSUPSServiceReq *pVoiceSetSUPSServiceReq, voiceSetSUPSServiceResp *pVoiceSetSUPSServiceResp)
- ULONG SLQSVoiceSetConfig (voiceSetConfigReq *pVoiceSetConfigReq, voiceSetConfigResp *pVoiceSetConfigResp)
- ULONG SLQSVoiceAnswerCall (voiceAnswerCall *pVoiceAnswerCall)
- ULONG SLQSVoiceGetCLIR (voiceGetCLIRResp *pVoiceGetCLIRResp)
- ULONG SLQSVoiceGetCLIP (voiceGetCLIPResp *pVoiceGetCLIPResp)
- ULONG SLQSVoiceGetCallWaiting (voiceGetCallWaitInfo *pVoiceGetCallWaitInfo)
- ULONG SLQSVoiceGetCallBarring (voiceGetCallBarringReq *pVoiceGetCallBarringReq, voiceGetCallBarringResp *pVoiceGetCallBarringResp)
- ULONG SLQSVoiceGetCallForwardingStatus (voiceGetCallFWReq *pVoiceGetCallFWReq, voiceGetCallFWResp *pVoiceGetCallFWResp)
- ULONG SLQSVoiceSetCallBarringPassword (voiceSetCallBarringPwdInfo *pVoiceSetCallBarringPwdInfo, voiceSetCallBarringPwdResp *pSetCallBarringPwdResp)
- ULONG SLQSVoiceGetCallInfo (voiceCallInfoReq *pGetCallInfoReq, voiceCallInfoResp *pGetCallInfoResp)
- ULONG SLQSVoiceGetAllCallInfo (voiceGetAllCallInfo *pGetAllCallInfo)
- ULONG SLQSVoiceManageCalls (voiceManageCallsReq *pVoiceManageCallsReq, voiceManageCallsResp *pVoiceManageCallsResp)
- ULONG SLQSVoiceBurstDTMF (voiceBurstDTMFInfo *pBurstDTMFInfo)
- ULONG SLQSVoiceStartContDTMF (voiceContDTMFinfo *pContDTMFInfo)
- ULONG SLQSVoiceStopContDTMF (voiceStopContDTMFinfo *pVoiceStopContDTMFinfo)
- ULONG SLQSVoiceSendFlash (voiceFlashInfo *pFlashInfo)
- ULONG SLQSVoiceSetPreferredPrivacy (voiceSetPrefPrivacy *pSetPrefPrivacy)
- ULONG SLQSVoiceIndicationRegister (voiceIndicationRegisterInfo *pVoiceIndicationRegisterInfo)
- ULONG SLQSVoiceGetConfig (voiceGetConfigReq *pVoiceGetConfigReq, voiceGetConfigResp *pVoiceGetConfigResp)
- ULONG SLQSVoiceOrigUSSDNoWait (voiceOrigUSSDNoWaitInfo *pVoiceOrigUSSDNoWaitInfo)
- ULONG SLQSVoiceBindSubscription (voiceBindSubscriptionInfo *pVoiceBindSubscriptionInfo)
- ULONG SLQSVoiceALSSetLineSwitching (voiceALSSetLineSwitchInfo *pVoiceALSSetLineSwitchInfo)
- ULONG SLQSVoiceALSSelectLine (voiceALSSelectLineInfo *pVoiceALSSelectLineInfo)
- ULONG SLQSVoiceGetCOLP (voiceGetCOLPResp *pVoiceGetCOLPResp)
- ULONG SLQSVoiceGetCOLR (voiceGetCOLRResp *pVoiceGetCOLRResp)
- ULONG SLQSVoiceGetCNAP (voiceGetCNAPResp *pVoiceGetCNAPResp)
- ULONG SLQSOriginateUSSD (struct USSInfo *pReq, struct USSResp *pResp)

9.48.1 Detailed Description

Voice Service API function prototypes.

9.48.2 Macro Definition Documentation

9.48.2.1 #define MAX_CALL_NO_LEN 81

9.48.2.2 #define MAX_DESCRIPTION_LENGTH 255

9.48.2.3 #define MAX_NO_OF_CALLS 20

9.48.2.4 #define MAXUSSDLENGTH 182

9.48.2.5 #define PASSWORD_LENGTH 4

9.48.3 Enumeration Type Documentation

9.48.3.1 enum serviceClassInformation

Service Class information

Enumerator

VOICE_SUPS_SRV_CLASS_NONE
VOICE_SUPS_SRV_CLASS_VOICE
VOICE_SUPS_SRV_CLASS_DATA
VOICE_SUPS_SRV_CLASS_FAX
VOICE_SUPS_SRV_CLASS_SMS
VOICE_SUPS_SRV_CLASS_DATACIRCUITSYNC
VOICE_SUPS_SRV_CLASS_DATACIRCUITASYNC
VOICE_SUPS_SRV_CLASS_PACKETACCESS
VOICE_SUPS_SRV_CLASS_PADACCESS

9.48.4 Function Documentation

9.48.4.1 ULONG AnswerUSSD (BYTE * *pInfo*)

Responds to a USSD request from the network.

Parameters

pInfo[IN]	• USS information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: 5 mins

9.48.4.2 ULONG CancelUSSD ( )

Cancels an in-progress USSD operation.

Parameters

None	

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: 30 Secs

9.48.4.3 ULONG OriginateUSSD (BYTE * *pInfo*)

Initiates a USSD operation.

Parameters

pInfo[IN]	• USS information • See USSInfo for more details

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: 5 mins

9.48.4.4 ULONG SLQSOriginateUSSD (struct USSInfo * *pReq*, struct USSResp * *pResp*)

Initiates a USSD session.

Parameters

pReq	[IN] • USS information • See USSInfo for more details
pResp	[OUT] • USS information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Device Supported: MC83x5
Timeout: 5 mins

9.48.4.5 ULONG SLQSVoiceALSSelectLine (voiceALSSelectLineInfo * *pVoiceALSSelectLineInfo*)

This API allows the user to select the preferred line.

Parameters

pVoiceALSSelectLineInfo[IN]	• See voiceALSSelectLineInfo for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: 30 Secs
This API allows the user to select the preferred line, and the status is updated on the card. The API is supported only for specific SIM/USIMs that support alternate line service. This command is applicable only in 3GPP devices. A No Effect error is returned if the update on the card fails.

9.48.4.6 ULONG SLQSVoiceALSSetLineSwitching (voiceALSSetLineSwitchInfo * *pVoiceALSSetLineSwitchInfo*)

This API sets the line switch setting on the card.

Parameters

pVoiceALSSetLineSwitchInfo[IN]	• See voiceALSSetLineSwitchInfo for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: 30 Secs
This API sets a line to be switchable or unswitchable, and the switch status is updated on the card. The API is supported only for specific SIM/USIMs that support alternate line service. This command is applicable only in 3GPP devices. A No Effect error is returned if the update on the card fails.

9.48.4.7 ULONG SLQSVoiceAnswerCall (voiceAnswerCall * *pVoiceAnswerCall*)

Answers an incoming voice call.

Parameters

pVoiceAnswer-Call[IN/OUT]	• Pointer to structure of voiceAnswerCall – See voiceAnswerCall for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 10 Secs
This API is used to answer an incoming voice call when the incoming voice call is the only call present at that time. If there are other calls while an incoming call (waiting call) is received, API "SLQSVoiceSendFlash" can be used case of 3GPP2(CDMA) and API "SLQSVoiceManageCalls" in the case of 3GPP(UMTS). If the result indicates success, the device has started the requested operation and it does not mean that the call has been answered. "SLQSVoiceSetAllCallStatusCallback" can be subscribed to check the call Information/State.

9.48.4.8 ULONG SLQSVoiceBindSubscription (voiceBindSubscriptionInfo * *pVoiceBindSubscriptionInfo*)

This API binds a subscription type to a specific voice client ID.

Parameters

pVoiceBind-Subscription-Info[IN]	• See voiceBindSubscriptionInfo for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs
Some versions of the modem support the Dual SIM feature. With this feature the modem can register with two different cellular networks simultaneously. Each network registration is associated with a different subscription, e.g., phone number, such that the modem appears to the network to be two different users. By default, the Voice client is bound to the primary subscription. This command allows the Voice client to change this binding. After receiving a successful response to this command, all future commands sent by the client will affect the newly bound subscription only.

9.48.4.9 ULONG SLQSVoiceBurstDTMF (voiceBurstDTMFInfo * *pBurstDTMFInfo*)

Sends a burst Dual-Tone Multi frequency (DTMF) (applicable only for 3GPP2)

Parameters

pBurstDTMF-Info[IN/OUT]	• Structure containing parameters of burst DTMF. • See voiceBurstDTMFInfo for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 30 Secs
Applicable only for 3GPP2. This API sends a burst DTMF. If API result indicates success, this means the device has started the requested operation. It does not mean that the burst DTMF request has been sent to the network. A burst DTMF request is sent to the current active/alerting call when CallId is set to 0xFF. This API is applicable only in 3GPP2.

9.48.4.10 ULONG SLQSVoiceDialCall (voiceCallRequestParams * *pCallRequestParams,* voiceCallResponseParams * *pCallResponseParams*)

Originates a voice call (MO call).

Parameters

pCallRequest-Params[IN]	• Pointer to structure of voiceCallRequestParams – See voiceCallRequestParams for more information
pCallResponse-Params[OUT]	• Pointer to structure of voiceCallResponseParams – See voiceCallResponseParams for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs
This API originates a voice call (MO). If the function returns success with a call_id, the device has started the requested operation. It does not mean that the call has been connected. SLQSVoiceSetAllCallStatus-Callback() callback can be subscribed to learn if the call was successful.

9.48.4.11 ULONG SLQSVoiceEndCall (BYTE * *pCallId*)

This message ends a voice call

Parameters

pCallId	[IN/OUT] • Unique call identifier for the call that must be ended

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs
If the function returns success, the device has started the requested operation. It does not mean that the call has been ended. The application should always process the SLQSVoiceSetAllCallStatusCallback() callback to learn if the call was ended.

9.48.4.12 ULONG SLQSVoiceGetAllCallInfo (voiceGetAllCallInfo * *pGetAllCallInfo*)

This API queries the information associated with all the calls originating or terminating from a particular device.

Parameters

pGetAllCallInfo[-OUT]	• See voiceGetAllCallInfo for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs
This command is used by the control point to get information of all the calls to and fro from the device in progress. The information keeps on updating constantly, as the state of a call changes example,from incoming to conversation to terminated.
This API requires a firmware with at least voice 2.0 support.

9.48.4.13 ULONG SLQSVoiceGetCallBarring (voiceGetCallBarringReq * *pVoiceGetCallBarringReq,* voiceGetCallBarringResp * *pVoiceGetCallBarringResp*)

Queries the status of Call Barring Supplementary Service (applicable only for 3GPP).

Parameters

pVoiceGetCallBarringReq[IN]	• Pointer to structure of voiceGetCallBarringReq – See voiceGetCallBarringReq for more information
pVoiceGetCallBarringResp[OUT]	• Pointer to structure of voiceGetCallBarringResp – See voiceGetCallBarringResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: 30 Secs
This API queries the status of the call barring supplementary service, i.e., to find whether the call barring supplementary service is active and, if active, for which service classes it is active. The request is a blocking request, i.e., the response is sent only after confirmation is received from the network. The maximum time it takes for the response to be sent is approximately 30 sec. This API is applicable only in 3GPP devices.

9.48.4.14 ULONG SLQSVoiceGetCallForwardingStatus (voiceGetCallFWReq * *pVoiceGetCallFWReq,* voiceGetCallFWResp * *pVoiceGetCallFWResp*)

Queries the status of Call Forwarding Supplementary Service.

Parameters

pVoiceGetCallFWReq[IN]	• Pointer to structure of voiceGetCallFWReq – See voiceGetCallFWReq for more information

pVoiceGetCallFWResp[OUT]	• Pointer to structure of voiceGetCallFWResp – See voiceGetCallFWResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: 30 Secs
This API queries the status of the call forwarding supplementary service, i.e., to find whether the call forwarding supplementary service is active and, if active, for which service classes and call forwarding number it is active. The request is a blocking request, i.e., the response is sent only after confirmation is received from the network. The maximum time it takes for the response to be sent is approximately 30 sec. This API is applicable only in 3GPP devices.

9.48.4.15 ULONG SLQSVoiceGetCallInfo (voiceCallInfoReq * *pGetCallInfoReq,* voiceCallInfoResp * *pGetCallInfoResp*)

This API queries the information associated with a call and gives information about a particular call whose call Id is sent in as request.

Parameters

pGetCallInfoReq[IN]	• See voiceCallInfoReq for more information.
pGetCallInfoResp[OUT]	• See voiceCallInfoResp for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs
If no voice call is in progress or an invalid call_id is sent in the request, an error is returned as the response.
This API requires a firmware with atleast voice 2.0 support.

9.48.4.16 ULONG SLQSVoiceGetCallWaiting (voiceGetCallWaitInfo * *pVoiceGetCallWaitInfo*)

Queries the status of Call Waiting Supplementary Service (applicable only for 3GPP).

Parameters

pVoiceGetCallWaitInfo[IN/OUT]	• Pointer to structure of voiceGetCallWaitInfo – See voiceGetCallWaitInfo for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: 30 Secs
This API queries the status of the call waiting supplementary service, i.e., to find whether the call waiting supplementary service is active. The request is a blocking request, i.e., the response is sent only after confirmation is received from the network. The maximum time it takes for the response to be sent is approximately 30 sec. This API is applicable only in 3GPP devices.

9.48.4.17 ULONG SLQSVoiceGetCLIP (voiceGetCLIPResp * *pVoiceGetCLIPResp*)

Queries the status of the Calling Line Identification Presentation (CLIP) supplementary service (applicable only for 3GPP).

Parameters

pVoiceGetCLIPResp[OUT]	• Pointer to structure of voiceGetCLIPResp – See voiceGetCLIPResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: 30 Secs
This API queries the status of the CLIP supplementary service. The active_status field is only applicable when provision_status is PROVISIONED, i.e., there is not any case where provision_status is NOT_PROVISIONED and active_status is ACTIVE. The request is a blocking request, i.e., the response is sent only after confirmation is received from the network. The maximum time it takes for the response to be sent is approximately 30 sec. This API is applicable only in 3GPP devices.

9.48.4.18 ULONG SLQSVoiceGetCLIR (voiceGetCLIRResp * *pVoiceGetCLIRResp*)

Queries the status of the Calling Line Identification Restriction (CLIR) supplementary service (applicable only for 3GPP).

Parameters

pVoiceGetCLIR-Resp[OUT]	• Pointer to structure of voiceGetCLIRResp – See voiceGetCLIRResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: 30 Secs
This API queries the status of the CLIR supplementary service. The active_status field is only applicable when provision_status is PROVISIONED, i.e., there is not any case where provision_status is NOT_PROVISIONED and active_status is ACTIVE. The request is a blocking request, i.e., the response is sent only after confirmation is received from the network. The maximum time it takes for the response to be sent is approximately 30 sec. This API is applicable only in 3GPP devices.

9.48.4.19 ULONG SLQSVoiceGetCNAP (voiceGetCNAPResp * *pVoiceGetCNAPResp*)

Queries the status of the Calling Name Presentation(CNAP) supplementary service (applicable only for 3GPP).

Parameters

pVoiceGetCNA-PResp[OUT]	• Pointer to structure of voiceGetCNAPResp – See voiceGetCNAPResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: 30 Secs

This API queries the status of the CNAP supplementary service. A response indicates whether CNAP is active/inactive and provisioned/not provisioned in the network. The active_status field is only applicable when

provision_status is PROVISIONED, i.e., there is not any case where provision_status is NOT_PROVISIONED and active_status is ACTIVE. This API is applicable only in 3GPP devices.

9.48.4.20 ULONG SLQSVoiceGetCOLP (voiceGetCOLPResp * *pVoiceGetCOLPResp*)

Queries the status of the Connected Line Identification Presentation (COLP) supplementary service (applicable only for 3GPP).

Parameters

pVoiceGetCOLPResp[OUT]	• Pointer to structure of voiceGetCOLPResp – See voiceGetCOLPResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: 30 Secs

This API queries the status of the COLP supplementary service. A response indicates whether COLP is active/inactive and provisioned/not provisioned in the network. The active_status field is only applicable when provision_status is PROVISIONED, i.e., there is not any case where provision_status is NOT_PROVISIONED and active_status is ACTIVE. This API is applicable only in 3GPP devices.

9.48.4.21 ULONG SLQSVoiceGetCOLR (voiceGetCOLRResp * *pVoiceGetCOLRResp*)

Queries the status of the Connected Line Identification Restriction (COLR) supplementary service (applicable only for 3GPP).

Parameters

pVoiceGetCOLRResp[OUT]	• Pointer to structure of voiceGetCOLRResp – See voiceGetCOLRResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: 30 Secs

This API queries the status of the COLR supplementary service. A response indicates whether COLR is active/inactive and provisioned/not provisioned in the network. The active_status field is only applicable when provision_status is PROVISIONED, i.e., there is not any case where provision_status is NOT_PROVISIONED and active_status is ACTIVE. This API is applicable only in 3GPP devices.

9.48.4.22 ULONG SLQSVoiceGetConfig (voiceGetConfigReq * *pVoiceGetConfigReq,* voiceGetConfigResp * *pVoiceGetConfigResp*)

This API retrieves various configuration parameters that control the modem behavior related to circuit switched services.

Parameters

pVoiceGetConfigReq	• Structure containing Get Config request parameters. – See voiceGetConfigReq for more information.
pVoiceGetConfigResp	• Structure containing Get Config response parameters. – See voiceGetConfigResp for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs
Any invalid value in a request message causes the service point to reject the message without retrieving any configuration information.

9.48.4.23 ULONG SLQSVoiceIndicationRegister (voiceIndicationRegisterInfo * *pVoiceIndicationRegisterInfo*)

Sets the registration state for different QMI_VOICE indications for the requesting control point

Parameters

pVoiceIndicationRegisterInfo[IN]	• Structure containing Indication Register Information. – See voiceIndicationRegisterInfo for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 10 Secs

```
This API is used by a device to register/deregister for different
QMI VOICE indications.
The device's registration state variables that control registration
for indications will be modified to reflect the settings indicated in the
request message.
At least one optional parameter must be present in the request.
```

9.48.4.24 ULONG SLQSVoiceManageCalls (voiceManageCallsReq * *pVoiceManageCallsReq*, voiceManageCallsResp * *pVoiceManageCallsResp*)

Manages the calls by using the supplementary service applicable during the call. In cases of successful API completion if the state of any call is changed, it is indicated using CallBack SLQSVoiceSetAllCallStatusCallBack. If there are other calls while an incoming voice call (waiting call) is received, this API is used to answer the call. This API is applicable only in "3GPP devices".

Parameters

pVoiceManageCallsReq[IN]	• Request structure of to manage calls.
pVoiceManageCallsResp[OUT]	• Response Structure to manage Calls

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: 10 Secs
Applicable only for "3GPP"

9.48.4.25 ULONG SLQSVoiceOrigUSSDNoWait (voiceOrigUSSDNoWaitInfo * *pVoiceOrigUSSDNoWaitInfo*)

This API initiates a USSD operation such that the response for this request is returned immediately and the data is returned via an indication.

Parameters

pVoiceOrigUSSDNoWaitInfo[IN]	• See voiceOrigUSSDNoWaitInfo for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: 30 Secs
This API starts a new USSD operation. The response to the request is sent immediately. The response result is sent to the client via the SLQSVoiceOrigUSSDNoWaitCallback. This command is applicable only in 3GPP devices.

9.48.4.26 ULONG SLQSVoiceSendFlash (voiceFlashInfo * *pFlashInfo*)

This API sends a simple flash message. Applicable only for 3GPP2 devices.

Parameters

pFlashInfo[IN/OUT]	• See voiceFlashInfo for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 10 Secs
If success, it only means the device has started the requested operation and not that the Flash has been sent. If the optional parameter Flash Type is not set, the default flash type is assumed to be a simple flash. If the parameter Flash Type is set to 1 the call ID corresponding to it is either an incoming or waiting call's call ID. If the parameter Flash Type is set to 2 the call ID corresponding to it is a held call's call ID. A Flash request is sent to the appropriate call when call_id is set to 0xFF.

9.48.4.27 ULONG SLQSVoiceSetCallBarringPassword (voiceSetCallBarringPwdInfo * *pVoiceSetCallBarringPwdInfo*, voiceSetCallBarringPwdResp * *pSetCallBarringPwdResp*)

Sets a Call Barring Password (applicable only for 3GPP).

Parameters

pVoiceSetCallBarringPwdInfo[IN]	• Pointer to structure of voiceSetCallBarringPwdInfo – See voiceSetCallBarringPwdInfo for more information

pSetCallBarring-PwdResp[OUT]	• Pointer to structure of voiceSetCallBarringPwdResp – See voiceSetCallBarringPwdResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: 30 Secs
This API changes the call barring supplementary service password. The request is a blocking request, i.e., the response is sent only after confirmation is received from the network. The maximum time it takes for the response to be sent is approximately 30 sec. This API is applicable only in 3GPP devices.

9.48.4.28 ULONG SLQSVoiceSetConfig (voiceSetConfigReq * *pVoiceSetConfigReq,* voiceSetConfigResp * *pVoiceSetConfigResp*)

This message sets various configuration parameters that control the modem behavior related to circuit-switched services.

Parameters

pVoiceSet-ConfigReq[IN]	• Pointer to structure of voiceSetConfigReq – See voiceSetConfigReq for more information
pVoiceSet-ConfigResp[OU-T]	• Pointer to structure of voiceSetConfigResp – See voiceSetConfigResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs
Any invalid value in a request message causes the device to reject the message without updating any configuration information. In the case of a successful update of all requested information, a QMI_ERR_NONE error is returned. In the case where a subset of information failed to be written, a QMI_ERR_INTERNAL error is returned with corresponding optional information requested in the request message.

9.48.4.29 ULONG SLQSVoiceSetPreferredPrivacy (voiceSetPrefPrivacy * *pSetPrefPrivacy*)

This API sets the voice privacy preference. Applicable only for 3GPP2 devices.

Parameters

pSetPrefPrivacy[IN]	• See voiceSetPrefPrivacy for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Device Supported: SL9090
Timeout: 10 Secs

9.48.4.30 ULONG SLQSVoiceSetSUPSService (voiceSetSUPSServiceReq * *pVoiceSetSUPSServiceReq,* voiceSetSUPSServiceResp * *pVoiceSetSUPSServiceResp*)

This API manages call-independent supplementary services, e.g., activation of call forwarding (to forward incoming calls to a third party), activation of call barring (to request the network to block some of the call attempts), and activation of call waiting (to be notified of an incoming call even when the user is engaged in an active or held call).

Parameters

pVoiceSetSUPSServiceReq	[IN] • Pointer to structure of voiceSetSUPSServiceReq – See voiceSetSUPSServiceReq for more information
pVoiceSetSUPSServiceResp	[OUT] • Pointer to structure of voiceSetSUPSServiceResp – See voiceSetSUPSServiceResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Timeout: 30 Secs
Some of the call-independent services are provided by the network operator as part of the service agreement. If they are not provided by default, the user has to explicitly request them. This API provides the facility to the control point for sending the explicit request to the network for enabling/disabling

9.48.4.31 ULONG SLQSVoiceStartContDTMF (voiceContDTMFinfo * *pContDTMFInfo*)

Starts a continuous DTMF.

Parameters

pContDTMF-Info[IN/OUT]	• Structure containing Continuous DTMF Information. – See voiceContDTMFinfo for more Information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs
This API starts a continuous DTMF. If the API results indicates success, it means that the device has started the requested operation. It does not mean that the start continuous DTMF request has been sent to the network. A start continuous DTMF request is sent to the current active/alerting call when CallId is set to 0xFF.

9.48.4.32 ULONG SLQSVoiceStopContDTMF (voiceStopContDTMFinfo * *pVoiceStopContDTMFinfo*)

Stops a continuous DTMF.

Parameters

pVoiceStopCont-DTMFinfo	• Structure containing Continuous Stop DTMF Information. – See voiceStopContDTMFinfo for more information. • Start continuous DTMF request is sent to the current active/alerting call when CallId is set to 0xFF. • This is IN/OUT params, value passed by user will packed in request and before unpacking response this will be assigned with an invalid callID value "0". It change to a valid value if received as part of response otherwise Invalid value will be present.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 30 Secs
This API starts a continuous DTMF. If the API results indicates success, it means that the device has started the requested operation. It does not mean that the start continuous DTMF request has been sent to the network. A stop continuous DTMF request is sent to the current active/alerting call when CallId is set to 0xFF.

9.49 qaGobiApiWds.h File Reference

Wireless Data Service API function prototypes.

Data Structures

- struct dataBearerTechnology
- struct dataBearers
- struct QmiWdsIpAddressInfo
- struct WdsIpAddressInfoReq
- struct UMTSQoS
- struct ProfileIdentifier
- struct GPRSQoS
- struct PCSCFIPv4ServerAddressList
- struct PCSCFFQDNAddress
- struct PCSCFFQDNAddressList
- struct Domain
- struct DomainNameList
- struct IPV6AddressInfo
- struct IPV6GWAddressInfo
- struct qmiWdsRunTimeSettings
- struct WdsRunTimeSettings
- struct ssdatasession_params
- struct SLQSDeleteProfileParams
- struct Profile3GPP
- struct Profile3GPP2
- union WdsProfileParam
- struct CreateProfileIn
- struct UMTSMinQoS
- struct GPRSRequestedQoS
- struct TFTIDParams
- struct UMTSReqQoSSigInd
- struct QosClassID
- struct CreateProfileOut
- struct slqsautoconnect
- struct ModifyProfileIn
- struct ModifyProfileOut
- struct _slqs3GPPConfigItem
- struct _GetProfileSettingIn
- struct _GetProfileSettingOut
- struct TrStatInd
- struct wdsSetEventReportReq
- struct swiPDPRuntimeSettingsReq

- struct swiPDPRuntimeSettingsResp
- struct WdsConnectionRateElmnts
- struct WdsConnectionRate
- struct WdsByteTotalsElmnts
- struct WdsByteTotals
- struct GetInstIDResp
- struct GetSessionIDResp
- struct TransferStatInd
- struct getDUNCallInfoReq
- struct ConnectionStatus
- struct ChannelRate
- struct getDUNCallInfoResp
- struct WdsPktStatisticsElmnts
- struct WdsPktStatisticsResp
- struct WdsPktStatisticsReq
- struct CurrNetworkInfo
- struct CurrDataSysStat
- struct swiRMTrasnferStaticsReq
- struct DataULongTlv
- struct DataULongLongTlv
- struct QmiCbkWdsStatisticsIndState
- struct DataBearerTech
- struct DataBearerTechExt
- struct WDSSWICurrentChannelRates
- struct WDSSetLoopbackData
- struct WDSGetLoopbackData
- struct WdsDHCPv4ProfileId
- struct WdsDHCPv4HWConfig
- struct WdsDHCPv4Option
- struct WdsDHCPv4OptionList
- struct WdsDHCPv4Config
- struct WdsClientLeaseChange

Macros

- #define IPV6_ADDRESS_ARRAY_SIZE 8

Typedefs

- typedef struct dataBearerTechnology QmiWDSDataBearerTechnology
- typedef struct dataBearers QmiWDSDataBearers
- typedef union WdsProfileParam QmiProfileInfo
- typedef struct _slqs3GPPConfigItem slqs3GPPConfigItem
- typedef struct _GetProfileSettingIn GetProfileSettingIn
- typedef struct _GetProfileSettingOut GetProfileSettingOut

Enumerations

- enum qmiDataBearerMasks {
  QMI_WDS_CURRENT_CALL_DB_MASK = 0x01,
  QMI_WDS_LAST_CALL_DB_MASK = 0x02 }

Functions

- ULONG SetMobileIP (ULONG mode)
- ULONG GetMobileIP (ULONG *pMode)
- ULONG SetMobileIPParameters (CHAR *pSPC, ULONG *pMode, BYTE *pRetryLimit, BYTE *pRetryInterval, BYTE *pReRegPeriod, BYTE *pReRegTraffic, BYTE *pHAAuthenticator, BYTE *pHA2002bis)
- ULONG SetAutoconnect (ULONG setting)
- ULONG GetAutoconnect (ULONG *pSetting)
- ULONG SetDefaultProfile (ULONG profileType, ULONG *pPDPType, ULONG *pIPAddress, ULONG *pPrimaryDNS, ULONG *pSecondaryDNS, ULONG *pAuthentication, CHAR *pName, CHAR *pAPNName, CHAR *pUsername, CHAR *pPassword)
- ULONG SetDefaultProfileLTE (ULONG profileType, ULONG *pPDPType, ULONG *pIPAddressv4, ULONG *pPrimaryDNSv4, ULONG *pSecondaryDNSv4, USHORT *pIPAddressv6, USHORT *PrimaryDNSv6, USHORT *pSecondaryDNSv6, ULONG *pAuthentication, CHAR *pName, CHAR *pAPNName, CHAR *pUsername, CHAR *pPassword)
- ULONG SetDefaultProfileLTEV2 (ULONG profileType, ULONG *pPDPType, ULONG *pIPAddressv4, ULONG *pPrimaryDNSv4, ULONG *pSecondaryDNSv4, USHORT *pIPAddressv6, USHORT *PrimaryDNSv6, USHORT *pSecondaryDNSv6, ULONG *pAuthentication, CHAR *pName, CHAR *pAPNName, CHAR *pUsername, CHAR *pPassword)
- ULONG GetDefaultProfile (ULONG profileType, ULONG *pPDPType, ULONG *pIPAddress, ULONG *pPrimaryDNS, ULONG *pSecondaryDNS, ULONG *pAuthentication, BYTE nameSize, CHAR *pName, BYTE apnSize, CHAR *pAPNName, BYTE userSize, CHAR *pUsername)
- ULONG GetDefaultProfileLTE (ULONG profileType, ULONG *pPDPType, ULONG *pIPAddressv4, ULONG *pPrimaryDNSv4, ULONG *pSecondaryDNSv4, USHORT *pIPAddressv6, USHORT *pPrimaryDNSv6, USHORT *pSecondaryDNSv6, ULONG *pAuthentication, BYTE nameSize, CHAR *pName, BYTE apnSize, CHAR *pAPNName, BYTE userSize, CHAR *pUsername)
- ULONG GetSessionState (ULONG *pState, BYTE instance)
- ULONG GetPacketStatus (ULONG *pTXPacketSuccesses, ULONG *pRXPacketSuccesses, ULONG *pTXPacketErrors, ULONG *pRXPacketErrors, ULONG *pTXPacketOverflows, ULONG *pRXPacketOverflows, BYTE instance)
- ULONG GetByteTotals (ULONGLONG *pTXTotalBytes, ULONGLONG *pRXTotalBytes, BYTE instance)
- ULONG GetDormancyState (ULONG *pDormancyState, BYTE instance)
- ULONG GetDataBearerTechnology (ULONG *pDataBearer, BYTE instance)
- ULONG SLQSGetDataBearerTechnology (QmiWDSDataBearers *pDataBearers, BYTE instance)
- ULONG GetSessionDuration (ULONGLONG *pDuration, BYTE instance)
- ULONG GetIPAddressLTE (WdsIpAddressInfoReq *)
- ULONG GetConnectionRate (ULONG *pCurrentChannelTXRate, ULONG *pCurrentChannelRXRate, ULONG *pMaxChannelTXRate, ULONG *pMaxChannelRXRate, BYTE instance)
- ULONG GetMobileIPProfile (BYTE index, BYTE *pEnabled, ULONG *pAddress, ULONG *pPrimaryHA, ULONG *pSecondaryHA, BYTE *pRevTunneling, BYTE naiSize, CHAR *pNAI, ULONG *pHASPI, ULONG *pAAASPI, ULONG *pHAState, ULONG *pAAAState)
- ULONG GetLastMobileIPError (ULONG *pError)
- ULONG iSLQSMISetIPFamilyPreference (BYTE IPFamilyPreference, BYTE instance)
- BOOL WDS_IsGobiDevice ()
- ULONG SetActiveMobileIPProfile (CHAR *pSPC, BYTE index)
- ULONG SetMobileIPProfile (CHAR *pSPC, BYTE index, BYTE *pEnabled, ULONG *pAddress, ULONG *pPrimaryHA, ULONG *pSecondaryHA, BYTE *pRevTunneling, CHAR *pNAI, ULONG *pHASPI, ULONG *pAAASPI, CHAR *pMNHA, CHAR *pMNAAA)
- ULONG SLQSGetRuntimeSettings (struct WdsRunTimeSettings *pRunTimeSettings)
- ULONG SLQSSetProfile (ULONG profileType, BYTE profileId, ULONG *pPDPType, ULONG *pIPAddress, ULONG *pPrimaryDNS, ULONG *pSecondaryDNS, ULONG *pAuthentication, CHAR *pName, CHAR *pAPNName, CHAR *pUsername, CHAR *pPassword)
- ULONG SLQSGetProfile (ULONG profileType, BYTE profileId, ULONG *pPDPType, ULONG *pIPAddress, ULONG *pPrimaryDNS, ULONG *pSecondaryDNS, ULONG *pAuthentication, BYTE nameSize, CHAR *pName, BYTE apnSize, CHAR *pAPNName, BYTE userSize, CHAR *pUsername, WORD *pExtendedErrorCode)

- ULONG SLQSStartStopDataSession (struct ssdatasession_params *pin)
- ULONG SLQSDeleteProfile (struct SLQSDeleteProfileParams *pProfileToDelete, WORD *pExtendedErrorCode)
- ULONG SLQSCreateProfile (struct CreateProfileIn *pReq, struct CreateProfileOut *pResp)
- ULONG SLQSAutoConnect (struct slqsautoconnect *pacreq)
- ULONG SLQSModifyProfile (struct ModifyProfileIn *pReq, struct ModifyProfileOut *pResp)
- ULONG SLQSSet3GPPConfigItem (slqs3GPPConfigItem *pSLQS3GPPConfigItem)
- ULONG SLQSGet3GPPConfigItem (slqs3GPPConfigItem *pSLQS3GPPConfigItem)
- ULONG SLQSGetProfileSettings (GetProfileSettingIn *pReq, GetProfileSettingOut *pResp)
- ULONG SLQSWdsSetEventReport (wdsSetEventReportReq *pSetEventReportReq)
- ULONG SLQSWdsSwiPDPRuntimeSettings (swiPDPRuntimeSettingsReq *pPDPRuntimeSettingsReq, swiPDPRuntimeSettingsResp *pPDPRuntimeSettingsResp)
- ULONG iGetConnectionRate (ULONG *pv4sessionId, ULONG *pv6sessionId, struct WdsConnectionRateElmnts *pConnectionRateElmnt)
- ULONG SLQSGetConnectionRate (struct WdsConnectionRate *pConnectionRate)
- ULONG iGetByteTotals (ULONG *pv4sessionId, ULONG *pv6sessionId, struct WdsByteTotalsElmnts *pByteTotalsElmnt)
- ULONG SLQSGetByteTotals (struct WdsByteTotals *pByteTotals)
- ULONG SLQSWdsGoDormant (void)
- ULONG SLQSWdsGoActive (void)
- ULONG SLQSGetSessionState (ULONG *pStateV4, ULONG *pStateV6, BYTE instance)
- ULONG SLQSGetDUNCallInfo (getDUNCallInfoReq *pGetDUNCallInfoReq, getDUNCallInfoResp *pGetDUNCallInfoResp)
- ULONG GetPacketStatistics (struct WdsPktStatisticsReq *pStatMask, struct WdsPktStatisticsElmnts *pPktStatisticsElmnt, BYTE instance)
- ULONG iGetPacketStatistics (ULONG *pV4sessionId, ULONG *pV6sessionId, struct WdsPktStatisticsReq *pStatMask, struct WdsPktStatisticsElmnts *pPktStatisticsElmnt)
- ULONG SLQSGetPacketStatistics (struct WdsPktStatisticsReq *pStatMask, struct WdsPktStatisticsResp *pPktStatistics)
- ULONG SLQSGetCurrDataSystemStat (CurrDataSysStat *pCurrDataSysStat)
- ULONG RMSetTransferStatistics (swiRMTrasnferStaticsReq *pSwiRMTrasnferStaticsReq)
- ULONG SLQSResetPacketStatics ()
- ULONG SLQSGetDataBearerTechnologyExt (DataBearerTechExt *pDataBearerTech, BYTE instance)
- ULONG SLQSGetCurrentChannelRate (WDSSWICurrentChannelRates *pRates, BYTE instance)
- ULONG SLQSSSetLoopback (WDSSetLoopbackData *pReq)
- ULONG SLQSSGetLoopback (WDSGetLoopbackData *data)
- ULONG GetDefaultProfileNum (BYTE profile_type, BYTE profile_family, BYTE *pProfile_no)
- ULONG SetDefaultProfileNum (BYTE profile_type, BYTE profile_family, BYTE profile_index)
- ULONG SLQSSSetDHCPv4ClientConfig (WdsDHCPv4Config *pReq)
- ULONG SLQSSGetDHCPv4ClientConfig (WdsDHCPv4Config *pReqResp)
- ULONG SetMuxID (BYTE instance)

9.49.1 Detailed Description

Wireless Data Service API function prototypes.

9.49.2 Macro Definition Documentation

9.49.2.1 #define IPV6_ADDRESS_ARRAY_SIZE 8

9.49.3 Typedef Documentation

9.49.3.1 typedef struct _GetProfileSettingIn GetProfileSettingIn

This structure contains the input parameters for SLQSGetProfileSettings

Parameters

ProfileType	• Identifies the technology type of the profile – 0x00 - 3GPP – 0x01 - 3GPP2
ProfileID	• index identifying the profile

9.49.3.2 typedef struct _GetProfileSettingOut GetProfileSettingOut

This structure contains the profile settings retrieved by the API SLQSGetProfileSettings

Parameters

curProfile	• Structure containing details of the profile • See QmiProfileInfo for more details
pExtErrCode	• pointer to a 2 byte extended error code • Error code will only will be present if error code eQCWWAN_ERR_QMI_EXTENDED_INTERNAL is returned by device. • See qm_wds_ds_profile_extended_err_codes enum in qmerrno.h for received error description.

9.49.3.3 typedef union WdsProfileParam QmiProfileInfo

This union WdsProfileParam consist of Profile3GPP and Profile3GPP2 out of which one will be used to create profile.

Parameters

SlqsProfile3GPP	• 3GPP profile
SlqsProfile3GPP2	• 3GPP2 profile

9.49.3.4 typedef struct dataBearers QmiWDSDataBearers

Structure to hold the data bearer technology values

Parameters

dataBearerMask[OUT]	• This bit mask indicates if data bearer information for the current and/or last call has been received from the device. If a bit is set, then the information is available in the corresponding structure i.e. the one provided by the caller. Refer to qmiDataBearerMasks for bit-mask positions.

pCurDataBearerTechnology[OUT]	• current data bearer technology value. – NULL if the parameter is not required
pLastCallDataBearerTechnology[OUT]	• last call data bearer technology value. – NULL if the parameter is not required

9.49.3.5 typedef struct dataBearerTechnology QmiWDSDataBearerTechnology

Structure to hold the current data bearer technology values

Parameters

pCurrentNetwork[OUT]	• current selected network – 0 - UNKNOWN – 1 - 3GPP2 – 2 - 3GPP
pRatMask[OUT]	• Radio Access Technology (RAT) mask to indicate the type of technology (RAT mask value of zero indicates that this field is ignored) – 0x8000 - NULL Bearer – 0x0000 - DO_NOT_CARE CDMA RAT mask – 0x01 - CDMA_1X – 0x02 - EVDO_REV0 – 0x04 - EVDO_REVA UMTS RAT mask – 0x01 - WCDMA – 0x02 - GPRS – 0x04 - HSDPA – 0x08 - HSUPA – 0x10 - EDGE – 0x20 - LTE – 0x40 - HSDPA+ – 0x80 - DC_HSDPA+
pSoMask[OUT]	• Service Option (SO) mask to indicate the SO or type of application (SO mask value of zero indicates that this field is ignored) – 0x00 - DO_NOT_CARE CDMA 1X SO mask – 0x01 - CDMA_1X_IS95 – 0x02 - CDMA_1X_IS2000 – 0x04 - CDMA_1X_IS2000_REL_A CDMA EV-DO Rev A SO mask – 0x01 - EVDO_REVA_DPA – 0x02 - EVDO_REVA_MFPA – 0x04 - EVDO_REVA_EMPA – 0x08 - EVDO_REVA_EMPA_EHRPD

9.49.3.6 typedef struct _slqs3GPPConfigItem slqs3GPPConfigItem

This structure contains the 3gpp Configuration Item information.

Parameters

pLTEAttach-Profile	• LTE Attach Profile – points to a single WORD Value indicating the attached LTE Profile – Optional parameter with possible values 1-16 (EM/MC73xx or earlier) – function SLQSGet3GPPConfigItem() returns a default value 255 if no LTE Attach Profile is configured • This setting is deprecated on MC/EM74xx
pProfileList	• Profile List – an array of 4 profile configurations – Each element points to a single WORD value indicating profile – Optional parameter with possible values * 1 - 16 (MC/EM73xx and before) * 1 - 24 (MC/EM74xx and onwards) – function SLQSGet3GPPConfigItem() returns a default value 255 if no 3gpp configuration is present
pDefaultPDN-Enabled	• Always Connect Default PDN – A single BYTE value indicating the status of Always connect default PDN * 0 - disabled * 1 - enabled – Optional parameter – function SLQSGet3GPPConfigItem() returns a default value 255 if no 3gpp configuration is present
p3gppRelease	• 3gpp release – A single BYTE value indicating the 3gpp release * 0 - Release 99 * 1 - Release 5 * 2 - Release 6 * 3 - Release 7 * 4 - Release 8 – In 9x30 and onwards * 5 - Release 9 * 6 - Release 10 * 7 - Release 11 – Optional parameter – function SLQSGet3GPPConfigItem() returns a default value 255 if no 3gpp configuration is present

pLTEAttach-ProfileList	• pointer to WORD array indicating LTE Attach Profile List – Optional parameter – possible values: 1-24 – This setting is only supported for MC/EM74xx onwards – The new equivalent option for "pLTEAttachProfile" on 74xx modems is "pLTEAttachProfile-List". Please provide attach profiles in order of decreasing priority in this list.
LTEAttach-ProfileListLen	• Number of element in pLTEAttachProfileList – valid range: 1-24 * This setting is only supported for MC/EM74xx onwards

9.49.4 Enumeration Type Documentation

9.49.4.1 enum qmiDataBearerMasks

Bit mask values to indicate the presence of data bearer information for the current and last data calls

Enumerator

QMI_WDS_CURRENT_CALL_DB_MASK

QMI_WDS_LAST_CALL_DB_MASK

9.49.5 Function Documentation

9.49.5.1 ULONG GetAutoconnect (ULONG * *pSetting*)

Returns the current auto connect data session setting.

Parameters

pSetting[OUT]	• NDIS auto connect setting – 0 - Disabled – 1 - Enabled

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.49.5.2 ULONG GetByteTotals (ULONGLONG * *pTXTotalBytes,* ULONGLONG * *pRXTotalBytes,* BYTE *instance*)

Returns the Rx/Tx byte counts since the start of the last packet data session for IPV4 session only.

Parameters

pTXTotalBytes[-OUT]	• Bytes transmitted without error
pRXTotalBytes[-OUT]	• Bytes received without error
instance	• PDP instance

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds, Rx/Tx byte counts for IPV4 only

9.49.5.3 ULONG GetConnectionRate (ULONG * *pCurrentChannelTXRate,* ULONG * *pCurrentChannelRXRate,* ULONG * *pMaxChannelTXRate,* ULONG * *pMaxChannelRXRate,* BYTE *instance*)

Returns connection rate information for the packet data connection. This API is not applicable when multiple data session is up. For multiple PDN, please use API SLQSGetConnectionRate()

Parameters

pCurrent-ChannelTX-Rate[OUT]	• Current channel Tx rate (in bps)
pCurrent-ChannelRX-Rate[OUT]	• Current channel Rx rate (in bps)
pMaxChannelT-XRate[OUT]	• Maximum Tx rate (bps) that may be assigned to device by serving system.
pMaxChannelR-XRate[OUT]	• Maximum Rx rate (bps) that may be assigned to device by serving system.
instance	• PDP instance

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.49.5.4 ULONG GetDataBearerTechnology (ULONG * *pDataBearer,* BYTE *instance*)

Retrieves the current data bearer technology (only valid when connected). This API is deprecated on MC73xx/E-M73xx modules since firmware version SWI9X15C_05_xx_xx_xx and all EM74xx firmware versions. Please use API SLQSGetDataBearerTechnologyExt() for new firmware versions and new modules.

Parameters

pDataBearer[OUT]	• Data bearer technology – 0x01 - CDMA2000 1x – 0x02 - CDMA 1xEV-DO Rev 0 – 0x03 - GSM – 0x04 - UMTS – 0x05 - CDMA2000 HRPD (1xEV-DO Rev A) – 0x06 - EDGE – 0x07 - HSDPA AND WCDMA – 0x08 - WCDMA AND HSUPA – 0x09 - HSDPA AND HSUPA – 0x0A - LTE – 0x0B - CDMA2000 EHRPD – 0x0C - HSDPA+ and WCDMA – 0x0D - HSDPA+ and HSUPA – 0x0E - DC_HSDPA+ and WCDMA – 0x0F - DC_HSDPA+ and HSUPA – 0x10 - HSDPA+ and 64QAM – 0x11 - HSDPA+, 64QAM and HSUPA – 0x12 - TDSCDMA – 0x13 - TDSCDMA and HSDPA – 0xFF - Unknown
instance	• PDP instance

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

The QMI command of this API is deprecated. Use SLQSGetDataBearerTechnologyExt() for new modules (chipset 9x15, 9x30). Version Introduced: Major-1, Minor-12 Version Deprecated: Major-1, Minor-40 Timeout: 2 seconds

9.49.5.5 ULONG GetDefaultProfile (ULONG *profileType*, ULONG * *pPDPType*, ULONG * *pIPAddress*, ULONG * *pPrimaryDNS*, ULONG * *pSecondaryDNS*, ULONG * *pAuthentication*, BYTE *nameSize*, CHAR * *pName*, BYTE *apnSize*, CHAR * *pAPNName*, BYTE *userSize*, CHAR * *pUsername*)

Reads the default profile settings from the device. The default profile is used to establish an auto connect data session.

Parameters

profileType	• Type of profile – 0 - UMTS
pPDPType[OUT]	• Packet Data Protocol (PDP) type specifies the type of data payload exchanged over the air link when the packet data session is established with this profile – 0 - PDP-IP (IPv4) – 1 - PDP-PPP – 2 - PDP-IPv6 – 3 - PDP-IPv4v6
pIPAddress[OUT]	• Preferred IPv4 address to be assigned to device
pPrimaryDNS[OUT]	• Primary DNS Ipv4 address preference
pSecondaryDNS[OUT]	• Secondary DNS Ipv4 address preference
pAuthentication[OUT]	• Bitmap that indicates authentication algorithm preference – 0x00000001 - PAP preference * 0 - Never performed * 1 - May be performed – 0x00000002 - CHAP preference * 0 - Never performed * 1 - May be performed – All other bits are reserved and must be set to 0 – If more than 1 bit is set, then device decides which authentication procedure is performed while setting up data session e.g. the device may have a policy to select the most secure authentication mechanism.
nameSize	• Maximum number of characters (including NULL terminator) that profile name array can contain.
pName[OUT]	• Profile name
apnSize	• Maximum number of characters (including NULL terminator) that APN name array can contain

pAPNName[OUT]	• Access point name. NULL-terminated string parameter that is a logical name used to select GGSN and external packet data network. • If value is NULL or omitted, then subscription default value will be requested.
userSize	• Maximum number of characters (including NULL terminator) that username array can contain.
pUsername[OUT]	• Username used during network authentication

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.49.5.6 ULONG GetDefaultProfileLTE (ULONG *profileType*, ULONG * *pPDPType*, ULONG * *pIPAddressv4*, ULONG * *pPrimaryDNSv4*, ULONG * *pSecondaryDNSv4*, USHORT * *pIPAddressv6*, USHORT * *pPrimaryDNSv6*, USHORT * *pSecondaryDNSv6*, ULONG * *pAuthentication*, BYTE *nameSize*, CHAR * *pName*, BYTE *apnSize*, CHAR * *pAPNName*, BYTE *userSize*, CHAR * *pUsername*)

Reads the default profile settings from the device. The default profile is used to establish an auto connect data session.

Parameters

profileType	• Type of profile – 0 - UMTS
pPDPType[OUT]	• Packet Data Protocol (PDP) type specifies the type of data payload exchanged over the air link when the packet data session is established with this profile – 0 - PDP-IP (IPv4) – 1 - PDP-PPP – 2 - PDP-IPv6 – 3 - PDP-IPv4v6
pIPAddressv4[OUT]	• Preferred IPv4 addr to be assigned to device
pPrimaryDNSv4[OUT]	• Primary DNS Ipv4 address preference

pSecondaryDNSv4[OUT]	• Secondary DNS Ipv4 address preference
pIPAddressv6[OUT]	• Preferred IPv6 addr to be assigned to device Space for storing 8 element array for the IPv6 addresses is allocated by the application. The IP Address will be retrieved in the big endian format. For example User buffer contents: [<U0>..<U7>] IPv6 address: 1234:2A01:....:5678 U0 corresponds to 1234 U1 corresponds to 2A01 – ----------— – -— – ----------— – -— U7 corresponds to 5678
pPrimaryDNSv6[OUT]	• Primary DNS Ipv6 address preference
pSecondaryDNSv6[OUT]	• Secondary DNS Ipv6 address preference
pAuthentication[OUT]	• Bitmap that indicates authentication algorithm preference – 0x00000001 - PAP preference * 0 - Never performed * 1 - May be performed – 0x00000002 - CHAP preference * 0 - Never performed * 1 - May be performed – All other bits are reserved and must be set to 0 – If more than 1 bit is set, then device decides which authentication procedure is performed while setting up data session e.g. the device may have a policy to select the most secure authentication mechanism.
nameSize	• Maximum number of characters (including NULL terminator) that Profile name array can contain
pName[OUT]	• Profile name
apnSize	• Maximum number of characters (including NULL terminator) that APN name array can contain
pAPNName[IN]	• Access point name. NULL-terminated string parameter that is a logical name used to select GGSN and external packet data network. • If value is NULL or omitted, then subscription default value will be requested.
userSize	• Maximum number of characters including NULL terminator) that username array can contain.

pUsername[OUT]	• Username used during network authentication

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: LTE
Timeout: 2 seconds

9.49.5.7 ULONG GetDefaultProfileNum (BYTE *profile_type*, BYTE *profile_family*, BYTE * *pProfile_no*)

This API to Get default profile number

Parameters

profile_type	[IN] • 0 - 3GPP • 1 - 3GPP2
profile_family	[IN] • 0 - Embedded • 1 - Tethered
pProfile_no	[OUT]

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

```
Timeout: 2 seconds\n
```

9.49.5.8 ULONG GetDormancyState (ULONG * *pDormancyState*, BYTE *instance*)

Returns the dormancy state of the current packet data session when connected.

Parameters

pDormancyState[OUT]	• Dormancy state of current packet data session – 1 - Traffic channel dormant – 2 - Traffic channel active

instance	• PDP instance

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.49.5.9 ULONG GetIPAddressLTE (WdsIpAddressInfoReq *)

Returns the current packet data session IP address(es)

- Parameter values default to their data type's maximum unsigned value unless explicitly stated otherwise.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: LTE
Timeout: 2 seconds.

9.49.5.10 ULONG GetLastMobileIPError (ULONG * *pError*)

Returns the last mobile IP error.

Parameters

pError[OUT]	• Status of last MIP call (or attempt) – Zero - Success – NonZero - Error code See qaGobiApiTableCallEndReasons.h for Mobile IP Error codes

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Device Supported: MC83x5
Timeout: 2 seconds

9.49.5.11 ULONG GetMobileIP (ULONG * *pMode*)

Returns the current mobile IP setting.

Parameters

mode[OUT]	• Mobile IP setting – 0 - Mobile IP off (simple IP only) – 1 - Mobile IP preferred – 2 - Mobile IP only

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 2 seconds

9.49.5.12 ULONG GetMobileIPProfile (BYTE *index*, BYTE * *pEnabled*, ULONG * *pAddress*, ULONG * *pPrimaryHA*, ULONG * *pSecondaryHA*, BYTE * *pRevTunneling*, BYTE *naiSize*, CHAR * *pNAI*, ULONG * *pHASPI*, ULONG * *pAAASPI*, ULONG * *pHAState*, ULONG * *pAAAState*)

Returns the specified mobile IP profile settings.

Parameters

index	• Mobile IP profile ID
pEnabled[OUT]	• Profile enabled: – 0 - Disabled – 1 - Enabled – 0xFF - Unknown

pAddress[OUT]	• Home IPv4 address: – 0xFFFFFFFF - Unknown
pPrimaryHA[OUT]	• Primary home agent IPv4 address – 0xFFFFFFFF - Unknown
pSecondaryHA[OUT]	• Secondary home agent IPv4 address – 0xFFFFFFFF - Unknown
pRevTunneling[OUT]	• Reverse tunneling enabled – 0 - Disabled – 1 - Enabled – 0xFF - Unknown
naiSize	• The maximum number of characters (including NULL terminator) that the NAI array can contain.
pNAI[OUT]	• Network access identifier string
pHASPI[OUT]	• Home agent security parameter index
pAAASPI[OUT]	• AAA server security parameter index – 0xFFFFFFFF - Unknown
pHAState[OUT]	• Home agent key state – 0 - Unset – 1 - Set, default value – 2 - Set, modified from default – 3 - 0xFFFFFFFF - Unknown
pAAAState[OUT]	• AAA key state – 0 - Unset – 1 - Set, default value – 2 - Set, modified from default – 3 - 0xFFFFFFFF - Unknown

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 2 seconds

9.49.5.13 ULONG GetPacketStatistics (struct WdsPktStatisticsReq * *pStatMask*, struct WdsPktStatisticsElmnts * *pPktStatisticsElmnt*, BYTE *instance*)

Returns the current packet transfer counter values from the device. Since the start of the last packet data session.

Parameters

pStatMask[IN]	• See WdsPktStatisticsReq for more information
pPktStatistics-Elmnt[OUT]	• See WdsPktStatisticsElmnts for more information
instance	• PDP instance

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.49.5.14 ULONG GetPacketStatus (ULONG * *pTXPacketSuccesses*, ULONG * *pRXPacketSuccesses*, ULONG * *pTXPacketErrors*, ULONG * *pRXPacketErrors*, ULONG * *pTXPacketOverflows*, ULONG * *pRXPacketOverflows*, BYTE *instance*)

Returns the packet data transfer statistics since the start of the current packet data.

Parameters

pTXPacket-Successes[OUT]	• Number of packets transmitted without error
pRXPacket-Successes[OUT]	• Number of packets received without error
pTXPacket-Errors[OUT]	• Number of outgoing packets with framing errors

pRXPacket-Errors[OUT]	• Number of incoming packets with framing errors
pTXPacket-Overflows[OUT]	• Number of packets dropped because Tx buffer overflowed
pRXPacket-Overflows[OUT]	• Number of packets dropped because Rx buffer overflowed
instance	• PDP instance

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.49.5.15 ULONG GetSessionDuration (ULONGLONG * *pDuration*, BYTE *instance*)

Returns the duration of the current packet data session.

Parameters

pDuration[OUT]	• Duration of the current packet session in milliseconds
instance	• PDP instance

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS/CDMA
Device Supported: MC83x5, MC7700/50
Timeout: 2 seconds

9.49.5.16 ULONG GetSessionState (ULONG * *pState,* BYTE *instance*)

Returns the state of the current packet data session.

Parameters

pState[OUT]	• Current link status – 1 - DISCONNECTED – 2 - CONNECTED – 3 - SUSPENDED (not supported) – 4 - AUTHENTICATING
instance	• PDP instance

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.49.5.17 ULONG iGetByteTotals (ULONG * *pv4sessionId,* ULONG * *pv6sessionId,* struct WdsByteTotalsElmnts * *pByteTotalsElmnt*)

9.49.5.18 ULONG iGetConnectionRate (ULONG * *pv4sessionId,* ULONG * *pv6sessionId,* struct WdsConnectionRateElmnts * *pConnectionRateElmnt*)

9.49.5.19 ULONG iGetPacketStatistics (ULONG * *pV4sessionId,* ULONG * *pV6sessionId,* struct WdsPktStatisticsReq * *pStatMask,* struct WdsPktStatisticsElmnts * *pPktStatisticsElmnt*)

9.49.5.20 ULONG iSLQSMISetIPFamilyPreference (BYTE *IPFamilyPreference,* BYTE *instance*)

9.49.5.21 ULONG RMSetTransferStatistics (swiRMTrasnferStaticsReq * *pSwiRMTrasnferStaticsReq*)

This API request the device to fetch current data system transfer Statistics.

Parameters

pswiRMTrasnfer-StaticsReq[IN]	• See swiRMTrasnferStaticsReq for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

```
Timeout: 2 seconds\n
```

9.49.5.22 ULONG SetActiveMobileIPProfile (CHAR * *pSPC*, BYTE *index*)

Sets active mobile IP profile.

Parameters

pSPC[IN]	• NULL-terminated string representing six digit service programming code
index[IN]	• Index of the profile to be set as the active profile

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 2 seconds

9.49.5.23 ULONG SetAutoconnect (ULONG *setting*)

Sets the auto connect data session setting.

Parameters

setting[IN]	• NDIS autoconnect setting – 0 - Disabled – 1 - Enabled

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

When enabling, timeout is 5 minutes,
When disabling, timeout is 5 seconds

9.49.5.24 ULONG SetDefaultProfile (ULONG *profileType*, ULONG * *pPDPType*, ULONG * *pIPAddress*, ULONG * *pPrimaryDNS*, ULONG * *pSecondaryDNS*, ULONG * *pAuthentication*, CHAR * *pName*, CHAR * *pAPNName*, CHAR * *pUsername*, CHAR * *pPassword*)

Writes the default profile settings to the device. The default profile is used to establish an autoconnect data session.

Parameters

profileType	• Type of profile – 0 - UMTS
pPDPType[IN]	• Packet Data Protocol (PDP) type specifies the type of data payload exchanged over the air link when the packet data session is established with this profile (optional) – 0 - PDP-IP (IPv4) – 1 - PDP-PPP – 2 - PDP-IPv6 – 3 - PDP-IPv4v6
pIPAddress[IN]	• Preferred IPv4 addr to be assigned to device (optional)
pPrimaryDNS[IN]	• Primary DNS Ipv4 address preference (optional)
pSecondaryDNS[IN]	• Secondary DNS Ipv4 address preference (optional)
pAuthentication[IN]	• Bitmap that indicates authentication algorithm preference (optional) – 0x00000001 - PAP preference * 0 - Never performed * 1 - May be performed – 0x00000002 - CHAP preference * 0 - Never performed * 1 - May be performed – All other bits are reserved and must be set to 0 – If more than 1 bit is set, then device decides which authentication procedure is performed while setting up data session e.g. the device may have a policy to select the most secure authentication mechanism.
pName[IN]	• profile Name (optional)
pAPNName[IN]	• Access point name. NULL-terminated string parameter that is a logical name used to select GGSN and external packet data network (optional) • If value is NULL or omitted, then subscription default value will be requested.
pUsername[IN]	• Username used during network authentication (optional)

pPassword[IN]	• Password used during network authentication (optional)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout is 2 seconds.

9.49.5.25 ULONG SetDefaultProfileLTE (ULONG *profileType*, ULONG * *pPDPType*, ULONG * *pIPAddressv4*, ULONG * *pPrimaryDNSv4*, ULONG * *pSecondaryDNSv4*, USHORT * *pIPAddressv6*, USHORT * *PrimaryDNSv6*, USHORT * *pSecondaryDNSv6*, ULONG * *pAuthentication*, CHAR * *pName*, CHAR * *pAPNName*, CHAR * *pUsername*, CHAR * *pPassword*)

Writes the default profile settings to the device. The default profile is used to establish an auto connect data session.

Parameters

profileType	• Type of profile – 0 - UMTS
pPDPType[IN]	• Packet Data Protocol (PDP) type specifies the type of data payload exchanged over the air link when the packet data session is established with this profile (optional) – 0 - PDP-IP (IPv4) – 1 - PDP-PPP – 2 - PDP-IPv6 – 3 - PDP-IPv4v6
pIPAddressv4[IN]	• Preferred IPv4 address to be assigned to device (optional)
pPrimaryDNSv4[IN]	• Primary DNS Ipv4 address preference (optional)
pSecondaryDNSv4[IN]	• Secondary DNS Ipv4 address preference (optional)
pIPAddressv6[IN]	• Preferred IPv6 address to be assigned to device (optional)
pPrimaryDNSv6[IN]	• Primary DNS Ipv6 address preference (optional)

pSecondaryDNSv6[IN]	• Secondary DNS Ipv6 address preference (optional)
pAuthentication[IN]	• Bitmap that indicates authentication algorithm preference (optional) – 0x00000001 - PAP preference * 0 - Never performed * 1 - May be performed – 0x00000002 - CHAP preference * 0 - Never performed * 1 - May be performed – All other bits are reserved and must be set to 0 – If more than 1 bit is set, then device decides which authentication procedure is performed while setting up data session e.g.the device may have a policy to select the most secure authentication mechanism.
pName[IN]	• profile Name (optional)
pAPNName[IN]	• Access point name. NULL-terminated string parameter that is a logical name used to select GGSN and external packet data network (optional) • If value is NULL or omitted, then subscription default value will be requested
pUsername[IN]	• Username used during network authentication (optional)
pPassword[IN]	• Password used during network authentication (optional)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Deprecated, please use SetDefaultProfileLTEV2 instead
Technology Supported: LTE
Timeout: 2 seconds

9.49.5.26 ULONG SetDefaultProfileLTEV2 (ULONG *profileType*, ULONG * *pPDPType*, ULONG * *pIPAddressv4*, ULONG * *pPrimaryDNSv4*, ULONG * *pSecondaryDNSv4*, USHORT * *pIPAddressv6*, USHORT * *PrimaryDNSv6*, USHORT * *pSecondaryDNSv6*, ULONG * *pAuthentication*, CHAR * *pName*, CHAR * *pAPNName*, CHAR * *pUsername*, CHAR * *pPassword*)

Writes the default profile settings to the device. The default profile is used to establish an auto connect data session.

Parameters

profileType	• Type of profile – 0 - UMTS
pPDPType[IN]	• Packet Data Protocol (PDP) type specifies the type of data payload exchanged over the air link when the packet data session is established with this profile (optional) – 0 - PDP-IP (IPv4) – 1 - PDP-PPP – 2 - PDP-IPv6 – 3 - PDP-IPv4v6
pIPAddressv4[IN]	• Preferred IPv4 address to be assigned to device (optional)
pPrimaryDNSv4[IN]	• Primary DNS Ipv4 address preference (optional)
pSecondaryDNSv4[IN]	• Secondary DNS Ipv4 address preference (optional)
pIPAddressv6[IN]	• Preferred IPv6 addr to be assigned to device (optional)
pPrimaryDNSv6[IN]	• Primary DNS Ipv6 address preference (optional)
pSecondaryDNSv6[IN]	• Secondary DNS Ipv6 address preference (optional)
pAuthentication[IN]	• Bitmap that indicates authentication algorithm preference (optional) – 0x00000001 - PAP preference * 0 - Never performed * 1 - May be performed – 0x00000002 - CHAP preference * 0 - Never performed * 1 - May be performed – All other bits are reserved and must be set to 0 – If more than 1 bit is set, then device decides which authentication procedure is performed while setting up data session e.g.the device may have a policy to select the most secure authentication mechanism.
pName[IN]	• profile Name (optional)
pAPNName[IN]	• Access point name. NULL-terminated string parameter that is a logical name used to select GGSN and external packet data network (optional) • If value is NULL or omitted, then subscription default value will be requested

pUsername[IN]	• Username used during network authentication (optional)
pPassword[IN]	• Password used during network authentication (optional)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: LTE
Timeout: 2 seconds
Replaces deprecated Function SetDefaultProfileLTE

9.49.5.27 ULONG SetDefaultProfileNum (BYTE *profile_type,* BYTE *profile_family,* BYTE *profile_index*)

This API to Set default profile number

Parameters

profile_type	[IN] • 0 - 3GPP • 1 - 3GPP2
profile_family	[IN] • 0 - Embedded • 1 - Tethered
profile_index	[IN]

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

```
Timeout: 2 seconds\n
```

9.49.5.28 ULONG SetMobileIP (ULONG *mode*)

Sets the current mobile IP setting.

Parameters

mode[IN]	• Mobile IP setting – 0 - Mobile IP off (simple IP only) – 1 - Mobile IP preferred – 2 - Mobile IP only

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 2 seconds

9.49.5.29 ULONG SetMobileIPParameters (CHAR * *pSPC,* ULONG * *pMode,* BYTE * *pRetryLimit,* BYTE * *pRetryInterval,* BYTE * *pReRegPeriod,* BYTE * *pReRegTraffic,* BYTE * *pHAAuthenticator,* BYTE * *pHA2002bis*)

Sets the specified mobile IP parameters.

Parameters

pSPC[IN]	• NULL-terminated string representing six digit service programming code.
pMode[IN]	• Mode to be set (optional) – 0 - Mobile IP off (simple IP only) – 1 - Mobile IP preferred – 2 - Mobile IP only
pRetryLimit[IN]	• Registration retry attempt limit (optional)
pRetryInterval[IN]	• Registration retry attempt interval used to determine the time between registration attempts (optional)
pReRegPeriod[IN]	• Period (in minutes) to attempt re-registration before current registration expires (optional)
pReRegTraffic[IN]	• Re-registration only if traffic since last attempt (optional) – Zero - Disabled – NonZero - Enabled

pHA-Authenticator[IN]	• MH-HA authenticator calculator (optional) – Zero - Disabled – NonZero - Enabled
pHA2002bis[IN]	• MH-HA RFC 2002bis authentication instead of RFC2002 (optional) – Zero - Disabled – NonZero - Enabled

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Device Supported: None
Timeout: 2 seconds

9.49.5.30 ULONG SetMobileIPProfile (CHAR * *pSPC*, BYTE *index*, BYTE * *pEnabled*, ULONG * *pAddress*, ULONG * *pPrimaryHA*, ULONG * *pSecondaryHA*, BYTE * *pRevTunneling*, CHAR * *pNAI*, ULONG * *pHASPI*, ULONG * *pAAASPI*, CHAR * *pMNHA*, CHAR * *pMNAAA*)

Sets the mobile IP parameters.

Parameters

pSPC[IN]	• Six digit service programming code string
index[IN]	• Index of the profile to modify
pEnabled[IN]	• (Optional) Enable profile? 0 - Disabled Nonzero - Enabled
pAddress[IN]	• (Optional) Home IPv4 address
pPrimaryHA[IN]	• (Optional) Primary home agent IPv4 address
pSecondaryHA[IN]	• (Optional) Secondary home agent IPv4 address
pRevTunneling[IN]	• (Optional) Enable reverse tunneling? 0 - Disabled Nonzero - Enabled

pNAI[IN]	• (Optional) Network access identifier string
pHASPI[IN]	• (Optional) Home agent security parameter index
pAAASPI[IN]	• (Optional) AAA server security parameter index
pMNHA[IN]	• (Optional) MN-HA key string
pMNAAA[IN]	• (Optional) MN-AAA key string

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA
Timeout: 2 seconds

9.49.5.31 ULONG SetMuxID (BYTE *instance*)

This API is used for QMAP feature, it binds the MUX id before starting a data session or registering a WDS indcation, it is mandatory to do this for QMAP feature.

Parameters

instance	[IN] • QMI Instance ID, value 0-8, it will be mapped to mux id 0x80-0x88 by this API

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

```
Timeout: 2 seconds\n
```

9.49.5.32 ULONG SLQSAutoConnect (struct slqsautoconnect * *pacreq*)

Returns auto connect settings

Parameters

slqsautoconnect[-IN]	• SLQS auto connect settings

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: CDMA/UMTS
Device Supported: MC83x5, MC7700
Timeout: 2 seconds

9.49.5.33 ULONG SLQSCreateProfile (struct CreateProfileIn * *pReq,* struct CreateProfileOut * *pResp*)

Create a new profile with the specified parameters. Note that some firmware versions do not support the optional Profile ID parameter. In this case an error will be returned and the caller can subsequently create a profile by specifying a NULL pointer for the Profile ID parameter. The Profile ID pertaining to the newly created profile is returned in the response structure (pResp).

Parameters

pReq[IN]	• SLQS Create profile Information
pResp[OUT]	• SLQS profile identifier information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS
Device Supported: MC83x5, MC7700
Timeout: 2 seconds

9.49.5.34 ULONG SLQSDeleteProfile (struct SLQSDeleteProfileParams * *pProfileToDelete,* WORD * *pExtendedErrorCode*)

Deletes a configured profile stored on the device. The deletion of a profile does not affect profile index assignments.

Parameters

pProfileToDelete[IN]	• Information about the profile to be deleted. • See SLQSDeleteProfileParams for more details.
pExtendedErrorCode[OUT]	• The extended error code received from DS Profile subsystem of type eWDS_ERR_PROFILE_REG_xxx. • Error code will only will be present if error code eQCWWAN_ERR_QMI_EXTENDED_INTERNAL is returned by device. • See qm_wds_ds_profile_extended_err_codes enum in qmerrno.h for received error description.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values.

Note

Timeout: 2 seconds

9.49.5.35 ULONG SLQSGet3GPPConfigItem (slqs3GPPConfigItem * *pSLQS3GPPConfigItem*)

Reads the 3gpp configuration item.

Parameters

pSLQS3GPPConfigItem[OUT]	• See slqs3GPPConfigItem for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS/LTE
Timeout: 2 seconds

9.49.5.36 ULONG SLQSGetByteTotals (struct WdsByteTotals * *pByteTotals*)

This API request the device to fetch ByteTotals for IPV4 and IPV6.

Parameters

pByteTotals[IN/-OUT]	• See WdsByteTotals for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

```
Timeout: 2 seconds\n
```

9.49.5.37 ULONG SLQSGetConnectionRate (struct WdsConnectionRate * *pConnectionRate*)

This API request the device to fetch ConnectionRate. It can be used for both mono and multiple PDN use case.

Parameters

pConnection-Rate[IN/OUT]	• See WdsConnectionRate for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS/CDMA
Device Supported: MC77XX
Timeout: 2 seconds

9.49.5.38 ULONG SLQSGetCurrDataSystemStat (CurrDataSysStat * *pCurrDataSysStat*)

This API request the device to fetch current data system status.

Parameters

pCurrDataSys-Stat[IN/OUT]	• See CurrDataSysStat for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

```
Timeout: 5 seconds\n
```

9.49.5.39 ULONG SLQSGetCurrentChannelRate (WDSSWICurrentChannelRates * *pRates*, BYTE *instance*)

This API Queries current bitrate of a packet data connection.

Parameters

pRates	[IN] • See WDSSWICurrentChannelRates for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

This feature depends on custom feature setting IPCHANNELRATEEN which can be set via SLQSSetCustFeaturesV2

Timeout: 2 seconds

9.49.5.40 ULONG SLQSGetDataBearerTechnology (QmiWDSDataBearers * *pDataBearers*, BYTE *instance*)

Retrieves the data bearer technology values for current and/or last data calls. The device must be in a data call for this function to execute successfully.

Parameters

qmiWDSDataBearers[OUT]	• Indicates the current and the last call data bearer technology. Should not be NULL, on input.
instance	• PDP instance

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS/CDMA
Device Supported: MC7750,GOBI,MC7700
Timeout: 2 seconds

9.49.5.41 ULONG SLQSGetDataBearerTechnologyExt (DataBearerTechExt * *pDataBearerTech*, BYTE *instance*)

This API Get Data Bearer Technology. This is a new API to replace API GetDataBearerTechnology(). see the description of GetDataBearerTechnology() to get more information

Parameters

pDataBearer-Tech	[IN] • See DataBearerTechExt for more information
instance	[IN] • PDP instance

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

```
Timeout: 2 seconds\n
```

9.49.5.42 ULONG SLQSGetDUNCallInfo (getDUNCallInfoReq * *pGetDUNCallInfoReq*, getDUNCallInfoResp * *pGetDUNCallInfoResp*)

This API queries the current modem connection status.

Parameters

pGetDUNCall-InfoReq[IN]	• See getDUNCallInfoReq for more information
pGetDUNCall-InfoResp[OUT]	• See getDUNCallInfoResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 seconds

9.49.5.43 ULONG SLQSGetPacketStatistics (struct WdsPktStatisticsReq * *pStatMask*, struct WdsPktStatisticsResp * *pPktStatistics*)

This API request the device to fetch current packet transfer counter values from the device

Parameters

pStatMask[IN]	– See WdsPktStatisticsReq for more information
pPktStatistics[OUT]	– See WdsPktStatisticsResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

```
Timeout: 5 seconds\n
```

9.49.5.44 ULONG SLQSGetProfile (ULONG *profileType*, BYTE *profileId*, ULONG * *pPDPType*, ULONG * *pIPAddress*, ULONG * *pPrimaryDNS*, ULONG * *pSecondaryDNS*, ULONG * *pAuthentication*, BYTE *nameSize*, CHAR * *pName*, BYTE *apnSize*, CHAR * *pAPNName*, BYTE *userSize*, CHAR * *pUsername*, WORD * *pExtendedErrorCode*)

Reads the profile settings from the device for the specified profile id.

Parameters

profileType	• Type of profile – 0 - UMTS
profileId	• Index of the configured profile for which settings are read – Value between 1 - 16 (EM/MC73xx or earlier) – Value between 1 - 24 (EM/MC74xx onwards)
pPDPType[OUT]	• Packet Data Protocol (PDP) type specifies the type of data payload exchanged over the air link when the packet data session is established with this profile – 0 - PDP-IP (IPv4) – 1 - PDP-PPP – 2 - PDP-IPv6 – 3 - PDP-IPv4v6
pIPAddress[OUT]	• Preferred IPv4 address to be assigned to device
pPrimaryDNS[OUT]	• Primary DNS Ipv4 address preference

pSecondaryDNS[OUT]	• Secondary DNS Ipv4 address preference
pAuthentication[OUT]	• Bitmap that indicates authentication algorithm preference – 0x00000001 - PAP preference * 0 - Never performed * 1 - May be performed – 0x00000002 - CHAP preference * 0 - Never performed * 1 - May be performed – All other bits are reserved and must be set to 0 – If more than 1 bit is set, then device decides which authentication procedure is performed while setting up data session e.g. the device may have a policy to select the most secure authentication mechanism.
nameSize	• Maximum number of characters (including NULL terminator) that profile name array can contain.
pName[OUT]	• Profile name
apnSize	• Maximum number of characters (including NULL terminator) that APN name array can contain
pAPNName[OUT]	• Access point name. NULL-terminated string parameter that is a logical name used to select GGSN and external packet data network. • If value is NULL or omitted, then subscription default value will be requested.
userSize	• Maximum number of characters (including NULL terminator) that username array can contain.
pUsername[OUT]	• Username used during network authentication
pExtendedErrorCode	• The extended error code received from DS Profile subsystem of type eWDS_ERR_PROFILE_REG_xxx. • Error code will only will be present if error code eQCWWAN_ERR_QMI_EXTENDED_INTERNAL is returned by device. • See qm_wds_ds_profile_extended_err_codes enum in qmerrno.h for received error description.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.49.5.45 ULONG SLQSGetProfileSettings (GetProfileSettingIn * *pReq*, GetProfileSettingOut * *pResp*)

Retrieves a profile(3GPP/3GPP2) with the specified parameters.

Parameters

pReq[IN]	• details of the profile to be fetched • See GetProfileSettingIn for more information
pResp[OUT]	• The profile settings and/or extended error code returned by the device based on input parameters. • See GetProfileSettingOut for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.49.5.46 ULONG SLQSGetRuntimeSettings (struct WdsRunTimeSettings * *pRunTimeSettings*)

Returns the packet data session settings currently in use.

Parameters

pRunTime-Settings[OUT]	• SLQS Runtime Settings Information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.49.5.47 ULONG SLQSGetSessionState (ULONG * *pStateV4,* ULONG * *pStateV6,* BYTE *instance*)

Returns the state of the current packet data session.

Parameters

pStateV4[OUT]	• Current link status for IPV4 Session – 1 - DISCONNECTED – 2 - CONNECTED – 3 - SUSPENDED (not supported) – 4 - AUTHENTICATING
pStateV6[OUT]	• Current link status for IPV6 Session – 1 - DISCONNECTED – 2 - CONNECTED – 3 - SUSPENDED (not supported) – 4 - AUTHENTICATING
instance	• PDP instance

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.49.5.48 ULONG SLQSModifyProfile (struct ModifyProfileIn * *pReq,* struct ModifyProfileOut * *pResp*)

Modify a profile(3GPP/3GPP2) with the specified parameters.

Parameters

pReq[IN]	• Contains parameters which can be modified
pResp[OUT]	• Contains parameters which indicates modification success or failure

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds

9.49.5.49 ULONG SLQSResetPacketStatics ( )

This API request the device to reset packet data transfer statistics.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

```
Timeout: 2 seconds\n
```

9.49.5.50 ULONG SLQSSet3GPPConfigItem (slqs3GPPConfigItem * *pSLQS3GPPConfigItem*)

Sets the 3gpp configuration item.

Parameters

pSLQS3GPP-ConfigItem[IN]	• See slqs3GPPConfigItem for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS/LTE
Timeout: 2 seconds

9.49.5.51 ULONG SLQSSetProfile (ULONG *profileType*, BYTE *profileId*, ULONG * *pPDPType*, ULONG * *pIPAddress*, ULONG * *pPrimaryDNS*, ULONG * *pSecondaryDNS*, ULONG * *pAuthentication*, CHAR * *pName*, CHAR * *pAPNName*, CHAR * *pUsername*, CHAR * *pPassword*)

Writes the profile settings for the specified profile Id.

Parameters

profileType	• Type of profile – 0 - UMTS
profileId	• Profile number to be modified – Value between 1 - 16 (EM/MC73xx or earlier) – Value between 1 - 24 (EM/MC74xx onwards)
pPDPType[IN]	• Packet Data Protocol (PDP) type specifies the type of data payload exchanged over the air link when the packet data session is established with this profile (optional) – 0 - PDP-IP (IPv4) – 1 - PDP-PPP – 2 - PDP-IPv6 – 3 - PDP-IPv4v6
pIPAddress[IN]	• Preferred IPv4 address to be assigned to device (optional)
pPrimaryDNS[IN]	• Primary DNS Ipv4 address preference (optional)
pSecondaryDNS[IN]	• Secondary DNS Ipv4 address preference (optional)
pAuthentication[IN]	• Bitmap that indicates authentication algorithm preference (optional) – 0x00000001 - PAP preference * 0 - Never performed * 1 - May be performed – 0x00000002 - CHAP preference * 0 - Never performed * 1 - May be performed – All other bits are reserved and must be set to 0 – If more than 1 bit is set, then device decides which authentication procedure is performed while setting up data session e.g. the device may have a policy to select the most secure authentication mechanism.
pName[IN]	• profile Name (optional)
pAPNName[IN]	• Access point name. NULL-terminated string parameter that is a logical name used to select GGSN and external packet data network (optional) • If value is NULL or omitted, then subscription default value will be requested.
pUsername[IN]	• Username used during network authentication (optional)

pPassword[IN]	• Password used during network authentication (optional)

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout is 2 seconds.

9.49.5.52 ULONG SLQSSGetDHCPv4ClientConfig (WdsDHCPv4Config * *pReqResp*)

This API gets the DHCP Client V4 Configuration.

Parameters

pReq	[IN] • See WdsDHCPv4Config for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

```
Timeout: 2 seconds\n
```

9.49.5.53 ULONG SLQSSGetLoopback (WDSGetLoopbackData * *data*)

This API to Get the value of loopback mode and multiplier.

Parameters

pReq	[IN] • See WDSGetLoopbackData for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

```
Timeout: 2 seconds\n
```

9.49.5.54 ULONG SLQSSSetDHCPv4ClientConfig (WdsDHCPv4Config * *pReq*)

This API sets the DHCP Client V4 Configuration.

Parameters

pReq	[IN] • See WdsDHCPv4Config for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

```
Timeout: 2 seconds\n
```

9.49.5.55 ULONG SLQSSSetLoopback (WDSSetLoopbackData * *pReq*)

This API to Enable/disable Data Loopback Mode and set the value of loopback multiplier.

Parameters

pReq	[IN] • See WDSSetLoopbackData for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

```
Timeout: 2 seconds\n
```

9.49.5.56 ULONG SLQSSStartStopDataSession (struct ssdatasession_params * *pin*)

Starts or stops a 3GPP/3GPP2 data session on a preconfigured profile. To set the IP family for the data session, execute SLQSSetIPFamilyPreference prior to calling this API.

Parameters

pin[IN]	• ssdatasession_params structure • See ssdatasession_params for more details

Returns

eQCWWAN_ERR_NONE on success, for IPV4V6 data call, the following return values ar treated as success as well, fail otherwise.

- eQCWWAN_ERR_SWICM_V4DWN_V6DWN
- eQCWWAN_ERR_SWICM_V4DWN_V6UP
- eQCWWAN_ERR_SWICM_V4UP_V6DWN
- eQCWWAN_ERR_SWICM_V4UP_V6UP

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 5 Minutes
Use SLQSSetProfile to configure 3GPP profiles

9.49.5.57 ULONG SLQSWdsGoActive (void)

Forces the device to immediately reestablish the traffic channel on the serving radio interface

Parameters

None	

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

This channel can go dormant any time after it has been reactivated. There is no assurance that the channel remains active for any guaranteed period. Timeout: 5 seconds

9.49.5.58 ULONG SLQSWdsGoDormant (void)

Forces the device to immediately drop the traffic channel on the serving radio interface

Parameters

None	

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

This channel can be reactivated as soon as data is sent over the network interface. There is no assurance that the channel remains dormant for any guaranteed period. Timeout: 5 seconds

9.49.5.59 ULONG SLQSWdsSetEventReport (wdsSetEventReportReq * *pSetEventReportReq*)

This API sets the wireless data connection state reporting conditions for the requesting control point.

Parameters

pSetEventReportReq[IN]	• See wdsSetEventReportReq for more information.

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 2 seconds
The control point event reporting state variables are modified to reflect the settings indicated in the request message. The service maintains a set of state variables for each control point. Relevant wireless data connection state changes are communicated to the registered WDS control point via the SLQSWdsSetEventReportCallBack. The AT command equivalents to this command are AT+CMER, AT+CIND, and AT+CIEV

9.49.5.60 ULONG SLQSWdsSwiPDPRuntimeSettings (swiPDPRuntimeSettingsReq * *pPDPRuntimeSettingsReq,* swiPDPRuntimeSettingsResp * *pPDPRuntimeSettingsResp*)

This API requests the device to return the active PDP context associated with a context id.

Parameters

pPDPRuntimeSettingsReq[IN]	• See swiPDPRuntimeSettingsReq for more information
pPDPRuntimeSettingsResp[OUT]	• See swiPDPRuntimeSettingsResp for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

Note

Technology Supported: UMTS/CDMA
Device Supported: MC77XX
Timeout: 2 seconds
The AT command equivalent to this command is AT+CGCONTRDP

9.49.5.61 BOOL WDS_IsGobiDevice ( )

9.50 qaNasGetRFBandInfo.h File Reference

Data Structures

- struct QmiNasGetRFBandInfoResp

Enumerations

- enum eQMI_NAS_GET_RF_INFO_RESP {
  eTLV_RF_BAND_INFO = 0x01,
  eTLV_RF_DEDICATED_BAND_INFO = 0x10,
  eTLV_RF_EXT_FORMAT_BAND_INFO = 0x11,
  eTLV_RF_BANDWIDTH_INFO = 0x12,
  eTLV_LTE_OPERATIONAL_MODE = 0x13 }

Functions

- enum eQCWWANError PkQmiNasGetRFBandInfo (WORD *pMlength, BYTE *pBuffer)
- enum eQCWWANError UpkQmiNasGetRFBandInfo (BYTE *pMdmResp, struct QmiNasGetRFBandInfoResp *pApiResp)

9.50.1 Enumeration Type Documentation

9.50.1.1 enum eQMI_NAS_GET_RF_INFO_RESP

Enumerator

eTLV_RF_BAND_INFO

eTLV_RF_DEDICATED_BAND_INFO

eTLV_RF_EXT_FORMAT_BAND_INFO

eTLV_RF_BANDWIDTH_INFO

eTLV_LTE_OPERATIONAL_MODE

9.50.2 Function Documentation

9.50.2.1 enum eQCWWANError PkQmiNasGetRFBandInfo (WORD * *pMlength*, BYTE * *pBuffer*)

9.50.2.2 enum eQCWWANError UpkQmiNasGetRFBandInfo (BYTE * *pMdmResp*, struct QmiNasGetRFBandInfoResp * *pApiResp*)

9.51 qaNasPerformNetworkScan.h File Reference

Data Structures

- struct QmiNas3GppNetworkInfo
- struct QmiNasPerformNetworkScanResp

Macros

- #define QMI_NAS_NETSTATUS_MASK 0x03
- #define QMI_NAS_MAX_INSTANCES 20
- #define INDEX_ZERO 0
- #define ROAMING_INDEX 2
- #define FORBIDDEN_INDEX 4
- #define PREFERRED_INDEX 6
- #define MAX_DESCRIPTION_LENGTH 255

Enumerations

- enum eQMI_NAS_PERFORM_NETWORK_SCAN_RESP { eTLV_3GPP_NETWORK_INFO = 0x10 }

Functions

- enum eQCWWANError PkQmiNasPerformNetworkScan (WORD ∗pMlength, BYTE ∗pParamField)
- enum eQCWWANError UpkQmiNasPerformNetworkScan (BYTE ∗pMdmResp, struct QmiNasPerformNetworkScanResp ∗pAipResp)

9.51.1 Macro Definition Documentation

9.51.1.1 #define FORBIDDEN_INDEX 4

9.51.1.2 #define INDEX_ZERO 0

9.51.1.3 #define MAX_DESCRIPTION_LENGTH 255

9.51.1.4 #define PREFERRED_INDEX 6

9.51.1.5 #define QMI_NAS_MAX_INSTANCES 20

9.51.1.6 #define QMI_NAS_NETSTATUS_MASK 0x03

9.51.1.7 #define ROAMING_INDEX 2

9.51.2 Enumeration Type Documentation

9.51.2.1 enum eQMI_NAS_PERFORM_NETWORK_SCAN_RESP

Enumerator

eTLV_3GPP_NETWORK_INFO

9.51.3 Function Documentation

9.51.3.1 enum eQCWWANError PkQmiNasPerformNetworkScan (WORD * *pMlength,* BYTE * *pParamField*)

9.51.3.2 enum eQCWWANError UpkQmiNasPerformNetworkScan (BYTE * *pMdmResp,* struct QmiNasPerformNetworkScanResp * *pAipResp*)

9.52 qmerrno.h File Reference

Enumerations

- enum eQCWWANError {
  eQCWWAN_ERR_ENUM_BEGIN = -1,
  eQCWWAN_ERR_NONE,
  eQCWWAN_ERR_GENERAL,
  eQCWWAN_ERR_INTERNAL,
  eQCWWAN_ERR_MEMORY,
  eQCWWAN_ERR_INVALID_ARG,
  eQCWWAN_ERR_BUFFER_SZ,
  eQCWWAN_ERR_NO_DEVICE,
  eQCWWAN_ERR_INVALID_DEVID,
  eQCWWAN_ERR_NO_CONNECTION,
  eQCWWAN_ERR_QMI_IFACE,
  eQCWWAN_ERR_QMI_CONNECT,
  eQCWWAN_ERR_QMI_REQ_SCH,
  eQCWWAN_ERR_QMI_REQ,
  eQCWWAN_ERR_QMI_RSP,
  eQCWWAN_ERR_QMI_REQ_TO,
  eQCWWAN_ERR_QMI_RSP_TO,
  eQCWWAN_ERR_MALFORMED_QMI_RSP,
  eQCWWAN_ERR_INVALID_QMI_RSP,
  eQCWWAN_ERR_INVALID_FILE,
  eQCWWAN_ERR_FILE_OPEN,
  eQCWWAN_ERR_FILE_COPY,
  eQCWWAN_ERR_OFFLINE = 27,
  eQCWWAN_ERR_RESET,
  eQCWWAN_ERR_NO_SIGNAL,
  eQCWWAN_ERR_MULTIPLE_DEVICES,
  eQCWWAN_ERR_DRIVER,
  eQCWWAN_ERR_NO_CANCELABLE_OP,
  eQCWWAN_ERR_CANCEL_OP,
  eQCWWAN_ERR_API_MUTEX_TIMEOUT,
  eQCWWAN_ERR_PDU_GENERATION,
  eQCWWAN_ERR_INVALID_XID,
  eQCWWAN_ERR_MULTIPLE_SMS_UNSUPPORTED,
  eQCWWAN_ERR_ENUM_END,
  eQCWWAN_ERR_QMI_OFFSET = 1000,
  eQCWWAN_ERR_QMI_MALFORMED_MSG = 1001,
  eQCWWAN_ERR_QMI_NO_MEMORY,
  eQCWWAN_ERR_QMI_INTERNAL,
  eQCWWAN_ERR_QMI_ABORTED,
  eQCWWAN_ERR_QMI_CLIENT_IDS_EXHAUSTED,
  eQCWWAN_ERR_QMI_UNABORTABLE_TRANSACTION,
  eQCWWAN_ERR_QMI_INVALID_CLIENT_ID,
  eQCWWAN_ERR_QMI_NO_THRESHOLDS,
  eQCWWAN_ERR_QMI_INVALID_HANDLE,
  eQCWWAN_ERR_QMI_INVALID_PROFILE,
  eQCWWAN_ERR_QMI_INVALID_PINID,
  eQCWWAN_ERR_QMI_INCORRECT_PIN,
  eQCWWAN_ERR_QMI_NO_NETWORK_FOUND,
  eQCWWAN_ERR_QMI_CALL_FAILED,
  eQCWWAN_ERR_QMI_OUT_OF_CALL,
  eQCWWAN_ERR_QMI_NOT_PROVISIONED,
  eQCWWAN_ERR_QMI_MISSING_ARG,
  eQCWWAN_ERR_QMI_ARG_TOO_LONG = 1019,
  eQCWWAN_ERR_QMI_INVALID_TX_ID = 1022,
  eQCWWAN_ERR_QMI_DEVICE_IN_USE,
  eQCWWAN_ERR_QMI_OP_NETWORK_UNSUPPORTED,
  eQCWWAN_ERR_QMI_OP_DEVICE_UNSUPPORTED,
  eQCWWAN_ERR_QMI_NO_EFFECT,
  eQCWWAN_ERR_QMI_NO_FREE_PROFILE,
  eQCWWAN_ERR_QMI_INVALID_PDP_TYPE,
  eQCWWAN_ERR_QMI_INVALID_TECH_PREF,
  eQCWWAN_ERR_QMI_INVALID_PROFILE_TYPE,

eQCWWAN_ERR_QMI_WIDTH = 0xFFFF }

- enum qm_wds_ds_profile_extended_err_codes {
  eWDS_ERR_PROFILE_REG_RESULT_FAIL = 1,
  eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL_HNDL,
  eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL_OP,
  eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL_PROFILE_TYPE,
  eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL_PROFILE_NUM,
  eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL_IDENT,
  eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL,
  eWDS_ERR_PROFILE_REG_RESULT_ERR_LIB_NOT_INITED,
  eWDS_ERR_PROFILE_REG_RESULT_ERR_LEN_INVALID,
  eWDS_ERR_PROFILE_REG_RESULT_LIST_END,
  eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL_SUBS_ID,
  eWDS_ERR_PROFILE_REG_INVAL_PROFILE_FAMILY,
  eWDS_ERR_PROFILE_REG_3GPP_INVAL_PROFILE_FAMILY = 1001,
  eWDS_ERR_PROFILE_REG_3GPP_ACCESS_ERR,
  eWDS_ERR_PROFILE_REG_3GPP_CONTEXT_NOT_DEFINED,
  eWDS_ERR_PROFILE_REG_3GPP_VALID_FLAG_NOT_SET,
  eWDS_ERR_PROFILE_REG_3GPP_READ_ONLY_FLAG_SET,
  eWDS_ERR_PROFILE_REG_3GPP_ERR_OUT_OF_PROFILES,
  eWDS_ERR_PROFILE_REG_3GPP2_ERR_INVALID_IDENT_FOR_PROFILE = 1101,
  eWDS_ERR_PROFILE_REG_END }

9.52.1 Enumeration Type Documentation

9.52.1.1 enum eQCWWANError

QMI Error Code Enumeration

Enumerator

eQCWWAN_ERR_ENUM_BEGIN

eQCWWAN_ERR_NONE 00 - Success

eQCWWAN_ERR_GENERAL 01 - General error

eQCWWAN_ERR_INTERNAL 02 - Internal error

eQCWWAN_ERR_MEMORY 03 - Memory error

eQCWWAN_ERR_INVALID_ARG 04 - Invalid argument

eQCWWAN_ERR_BUFFER_SZ 05 - Buffer too small

eQCWWAN_ERR_NO_DEVICE 06 - Unable to detect WWAN device

eQCWWAN_ERR_INVALID_DEVID 07 - Invalid WWAN device ID

eQCWWAN_ERR_NO_CONNECTION 08 - No connection to WWAN device

eQCWWAN_ERR_QMI_IFACE 09 - Unable to obtain QMI interace

eQCWWAN_ERR_QMI_CONNECT 10 - Unable to connect to QMI interface

eQCWWAN_ERR_QMI_REQ_SCH 11 - Unable to schedule QMI request

eQCWWAN_ERR_QMI_REQ 12 - Error sending QMI request

eQCWWAN_ERR_QMI_RSP 13 - Error receiving QMI response

eQCWWAN_ERR_QMI_REQ_TO 14 - Timeout while sending QMI request

eQCWWAN_ERR_QMI_RSP_TO 15 - Timeout while receiving QMI response

eQCWWAN_ERR_MALFORMED_QMI_RSP 16 - Malformed QMI response received

eQCWWAN_ERR_INVALID_QMI_RSP 17 - Invalid QMI response received

eQCWWAN_ERR_INVALID_FILE 18 - Invalid file path

eQCWWAN_ERR_FILE_OPEN 19 - Unable to open file

eQCWWAN_ERR_FILE_COPY 20 - Unable to copy file

eQCWWAN_ERR_OFFLINE 27 - Unable to set WWAN device offline

eQCWWAN_ERR_RESET 28 - Unable to reset WWAN device

eQCWWAN_ERR_NO_SIGNAL 29 - No available signal

eQCWWAN_ERR_MULTIPLE_DEVICES 30 - Multiple WWAN devices detected

eQCWWAN_ERR_DRIVER 31 - Error interfacing to driver

eQCWWAN_ERR_NO_CANCELABLE_OP 32 - No cancelable operation is pending

eQCWWAN_ERR_CANCEL_OP 33- Error canceling outstanding operation

eQCWWAN_ERR_API_MUTEX_TIMEOUT 34- api mutex lock timeout

eQCWWAN_ERR_PDU_GENERATION 35- PDU generation error

eQCWWAN_ERR_INVALID_XID 36- Invalid transaction id

eQCWWAN_ERR_MULTIPLE_SMS_UNSUPPORTED 37- Unsupported multiple SMS

eQCWWAN_ERR_ENUM_END End of SLQS SDK specific error codes

eQCWWAN_ERR_QMI_OFFSET 1000 - This is not an error code but the offset from which mapped QMI error codes start from

eQCWWAN_ERR_QMI_MALFORMED_MSG 1001 - Malformed or Corrupted QMI msg

eQCWWAN_ERR_QMI_NO_MEMORY 1002 - Device could not allocate memory for QMI Resp

eQCWWAN_ERR_QMI_INTERNAL 1003 - Unexpected error occurred during processing

eQCWWAN_ERR_QMI_ABORTED 1004 - Processing aborted

eQCWWAN_ERR_QMI_CLIENT_IDS_EXHAUSTED 1005 - QMI client IDs have been exhausted

eQCWWAN_ERR_QMI_UNABORTABLE_TRANSACTION 1006 - Unable to abort QMI transaction

eQCWWAN_ERR_QMI_INVALID_CLIENT_ID 1007 - Invalid QMI client ID

eQCWWAN_ERR_QMI_NO_THRESHOLDS 1008 - No thresholds were provided

eQCWWAN_ERR_QMI_INVALID_HANDLE 1009 - Invalid Handle provided in the QMI request

eQCWWAN_ERR_QMI_INVALID_PROFILE 1010 - Profile specified is invalid

eQCWWAN_ERR_QMI_INVALID_PINID 1011 - Invalid PIN ID specified

eQCWWAN_ERR_QMI_INCORRECT_PIN 1012 - Incorrect PIN ID specified

eQCWWAN_ERR_QMI_NO_NETWORK_FOUND 1013 - No network found

eQCWWAN_ERR_QMI_CALL_FAILED 1014 - Call failed

eQCWWAN_ERR_QMI_OUT_OF_CALL 1015 - Device is not in a call

eQCWWAN_ERR_QMI_NOT_PROVISIONED 1016 - Requested information element not provisioned on device

eQCWWAN_ERR_QMI_MISSING_ARG 1017 - Mandatory QMI TLV not provided

eQCWWAN_ERR_QMI_ARG_TOO_LONG 1019 - Arg passed in QMI TLV larger than available storage in device

eQCWWAN_ERR_QMI_INVALID_TX_ID 1022 - Invalid TX ID specified

eQCWWAN_ERR_QMI_DEVICE_IN_USE 1023 - Device currently in a call

eQCWWAN_ERR_QMI_OP_NETWORK_UNSUPPORTED 1024 - The selected operation is not supported by the network

eQCWWAN_ERR_QMI_OP_DEVICE_UNSUPPORTED 1025 - The selected operation is not supported by the device

eQCWWAN_ERR_QMI_NO_EFFECT 1026 - Requested operation would have no effect

eQCWWAN_ERR_QMI_NO_FREE_PROFILE 1027 - No space for a profile is available

eQCWWAN_ERR_QMI_INVALID_PDP_TYPE 1028 - Invalid PDP type specified

eQCWWAN_ERR_QMI_INVALID_TECH_PREF 1029 - Invalid technology preference specified

eQCWWAN_ERR_QMI_INVALID_PROFILE_TYPE 1030 - Invalid profile type specified

eQCWWAN_ERR_QMI_INVALID_SERVICE_TYPE 1031 - Invalid service type specified

eQCWWAN_ERR_QMI_INVALID_REGISTER_ACTION 1032 - Invalid register action specified

eQCWWAN_ERR_QMI_INVALID_PS_ATTACH_ACTION 1033 - Invalid PS attach/detach action specified

eQCWWAN_ERR_QMI_AUTHENTICATION_FAILED 1034 - Authentication of supplied information element failed

eQCWWAN_ERR_QMI_PIN_BLOCKED 1035 - PIN is blocked; an unblock operation needs to be issued

eQCWWAN_ERR_QMI_PIN_PERM_BLOCKED 1036 - PIN is permanently blocked; the UIM is unusable

eQCWWAN_ERR_QMI_SIM_NOT_INITIALIZED 1037 - UIM initialization has not completed

eQCWWAN_ERR_QMI_MAX_QOS_REQUESTS_IN_USE 1038 - Max QOS requests are used

eQCWWAN_ERR_QMI_INCORRECT_FLOW_FILTER 1039 - The Flow filter is incorrect

eQCWWAN_ERR_QMI_NETWORK_QOS_UNAWARE 1040 - Network unaware of the QOS requested

eQCWWAN_ERR_QMI_INVALID_ID 1041 - Invalid QOS ID

eQCWWAN_ERR_QMI_INVALID_QOS_ID 1041 - Invalid QOS ID

eQCWWAN_ERR_QMI_REQUESTED_NUM_UNSUPPORTED 1042 - The request number is not supported

eQCWWAN_ERR_QMI_INTERFACE_NOT_FOUND 1043 - Unable to find the interface

eQCWWAN_ERR_QMI_FLOW_SUSPENDED 1044- Flow suspended

eQCWWAN_ERR_QMI_INVALID_DATA_FORMAT 1045 - Data format is invalid

eQCWWAN_ERR_QMI_GENERAL 1046 - General error

eQCWWAN_ERR_QMI_UNKNOWN 1047 - Unknown error

eQCWWAN_ERR_QMI_INVALID_ARG 1048 - A specified argument is invalid

eQCWWAN_ERR_QMI_INVALID_INDEX 1049 - A specified index is invalid

eQCWWAN_ERR_QMI_NO_ENTRY 1050 - No information element exists at specified memory designation

eQCWWAN_ERR_QMI_DEVICE_STORAGE_FULL 1051 - The memory storage specified in the request is full

eQCWWAN_ERR_QMI_DEVICE_NOT_READY 1052 - Device not in a ready state

eQCWWAN_ERR_QMI_NETWORK_NOT_READY 1053 - Network not in a ready state

eQCWWAN_ERR_QMI_CAUSE_CODE 1054 - Error provided in SMS cause code

eQCWWAN_ERR_QMI_MESSAGE_NOT_SENT 1055 - The message could not be sent

eQCWWAN_ERR_QMI_MESSAGE_DELIVERY_FAILURE 1056 - The message could not be delivered

eQCWWAN_ERR_QMI_INVALID_MESSAGE_ID 1057 - The message ID specified for the message is invalid

eQCWWAN_ERR_QMI_ENCODING 1058 - The message is not encoded properly

eQCWWAN_ERR_QMI_AUTHENTICATION_LOCK 1059 - Maximum number of authentication failures has been reached

eQCWWAN_ERR_QMI_INVALID_TRANSITION 1060 - Operating mode transition from the current mode is invalid

eQCWWAN_ERR_QMI_NOT_A_MCAST_IFACE 1061 - The intercace is not muticast

eQCWWAN_ERR_QMI_MAX_MCAST_REQUESTS_IN_USE 1062 - Maximum requests in use

eQCWWAN_ERR_QMI_INVALID_MCAST_HANDLE 1063 - Invalid muticast handle

eQCWWAN_ERR_QMI_INVALID_IP_FAMILY_PREF 1064 - Invalid IP family preference

eQCWWAN_ERR_QMI_SESSION_INACTIVE 1065 - No tracking session has been started

eQCWWAN_ERR_QMI_SESSION_INVALID 1066 - Current session does not allow this operation

eQCWWAN_ERR_QMI_SESSION_OWNERSHIP 1067 - Current tracking session not started by this QMI control point

eQCWWAN_ERR_QMI_INSUFFICIENT_RESOURCES 1068 - Device GPS service resources insufficient for request

eQCWWAN_ERR_QMI_DISABLED 1069 - Support for QMI message is disabled

eQCWWAN_ERR_QMI_INVALID_OPERATION 1070 - Invalid operation specified

eQCWWAN_ERR_QMI_INVALID_QMI_CMD 1071 - Invalid/unknown QMI command specified

eQCWWAN_ERR_QMI_TPDU_TYPE 1072 - Message contains TPDU type that cannot be read as raw message

eQCWWAN_ERR_QMI_SMSC_ADDR 1073 - The SMSC address specified is invalid

eQCWWAN_ERR_QMI_INFO_UNAVAILABLE 1074 - Information element is unavailable at this point

eQCWWAN_ERR_QMI_SEGMENT_TOO_LONG 1075 - Segment size too large

eQCWWAN_ERR_QMI_SEGMENT_ORDER 1076 - Segment order is incorrect

eQCWWAN_ERR_QMI_BUNDLING_NOT_SUPPORTED 1077 - Bundling not supported

eQCWWAN_ERR_QMI_OP_PARTIAL_FAILURE 1078 - The operation failed partially

eQCWWAN_ERR_QMI_POLICY_MISMATCH 1079 - Policy mismatch

eQCWWAN_ERR_QMI_SIM_FILE_NOT_FOUND 1080 - SIM file not found

eQCWWAN_ERR_QMI_EXTENDED_INTERNAL 1081 - Extended internal error

eQCWWAN_ERR_QMI_ACCESS_DENIED 1082 - Access to a required entity is not available

eQCWWAN_ERR_QMI_HARDWARE_RESTRICTED 1083 - Selected operating mode is invalid with current hardware setting

eQCWWAN_ERR_QMI_ACK_NOT_SENT 1084 - ACK not sent

eQCWWAN_ERR_QMI_INJECT_TIMEOUT 1084 - Inject a timeout for the request

eQCWWAN_ERR_QMI_INCOMPATIBLE_STATE 1090 - Incompatible state

eQCWWAN_ERR_QMI_FDN_RESTRICT 1091 - FDN Restrict

eQCWWAN_ERR_QMI_SUPS_FAILURE_CAUSE 1092 - SUPS failure cause

eQCWWAN_ERR_QMI_NO_RADIO 1093 - No Radio

eQCWWAN_ERR_QMI_NOT_SUPPORTED 1094 - Not Supported

eQCWWAN_ERR_QMI_NO_SUBSCRIPTION 1095 - No Subscription

eQCWWAN_ERR_QMI_CARD_CALL_CONTROL_FAILED 1096 - Card call control failed

eQCWWAN_ERR_QMI_NETWORK_ABORTED 1097 - Network Aborted

eQCWWAN_ERR_QMI_MSG_BLOCKED 1098 - Open Error

eQCWWAN_ERR_QMI_MAX Error - End of QMI specific defines

eQCWWAN_ERR_SWICM_START **Vendor defines - Connection Manager error codes**

eQCWWAN_ERR_SWICM_NOT_IMPLEMENTED 0xE001 - The API is yet to be implemented

eQCWWAN_ERR_SWICM_QMI_SVC_NOT_SUPPORTED 0xE002 - The service is not supported

eQCWWAN_ERR_SWICM_QMI_CLNT_NOT_SUPPORTED 0xE003 - The client is not supported

eQCWWAN_ERR_SWICM_TIMEOUT 0xE004 - API Timeout

eQCWWAN_ERR_SWICM_SOCKET_IN_USE 0xE005 - The communication socket is in use

eQCWWAN_ERR_SWICM_AM_VERS_ERROR 0xE006 - SLQS API and SDK version mismatch

eQCWWAN_ERR_SWICM_FAILED_TO_KILL_SDK_PROCESS 0xE007 - Failed to kill SDK process

eQCWWAN_ERR_SWICM_CALL_IN_PROGRESS 0xE008 - Call in progress

eQCWWAN_ERR_SWICM_V4DWN_V6DWN 0xE009 - IPV4 and IPV6 is down

eQCWWAN_ERR_SWICM_V4DWN_V6UP 0xE00A - IPV4 is down and IPV6 is up

eQCWWAN_ERR_SWICM_V4UP_V6DWN 0xE00B - IPV4 is up and IPV6 is down

eQCWWAN_ERR_SWICM_V4UP_V6UP 0xE00C - IPV4 and IPV6 is up

eQCWWAN_ERR_SWICM_INVALID_SESSION_ID 0xE00D - Invalid V4 Session ID

eQCWWAN_ERR_SWICM_INVALID_V4_SESSION_ID 0xE00E - Invalid V4 Session ID

eQCWWAN_ERR_SWICM_INVALID_V6_SESSION_ID 0xE00F - Invalid V6 Session ID

eQCWWAN_ERR_SWICM_SM_NO_AVAILABLE_SESSIONS 0xE010 - No available Session Manager slots for additional data sessions

eQCWWAN_ERR_SWICM_END 0xE011 - End of connection manager specific codes

eQCWWAN_ERR_SWISMS_START **Vendor defines - SMS Error codes**

eQCWWAN_ERR_SWISMS_MSG_LEN_TOO_LONG 0xE101 - SMS message length is long

eQCWWAN_ERR_SWISMS_MSG_CORRUPTED 0xE102 - The SMS message is corrupted (encoding wrong)

eQCWWAN_ERR_SWISMS_SMSC_NUM_CORRUPTED 0xE103 - The SMS number is corrupted (incorrect number)

eQCWWAN_ERR_SWISMS_BEARER_DATA_NOT_FOUND 0xE104 - The SMS bearer data is not available

eQCWWAN_ERR_SWISM_END

eQCWWAN_ERR_SWIIM_START **Vendor defines - Image Management error codes**

eQCWWAN_ERR_SWIIM_INVALID_PATH 0xE801 - Invalid directory path

eQCWWAN_ERR_SWIIM_OPENING_DIR 0xE802 - Unable to open the directory

eQCWWAN_ERR_SWIIM_FILE_NOT_FOUND 0xE803 - No Firmware image present in the path

eQCWWAN_ERR_SWIIM_OPENING_FILE 0xE804 - Unable to open the file

eQCWWAN_ERR_SWIIM_CORRUPTED_FW_IMAGE 0xE805 - Firmware image is corrupted

eQCWWAN_ERR_SWIIM_FIRMWARE_NOT_DOWNLOADED 0xE806 - No Firmware image download needed

eQCWWAN_ERR_SWIIM_FW_UPDATE_FAIL 0xE807 - Firmware update failed

eQCWWAN_ERR_SWIIM_FW_PREFERENCE_MISMATCH 0xE808 - Update success but pri/fw preference mismatch

eQCWWAN_ERR_SWIIM_FW_UPDATE_SUCCESS 0xE809 - Update successful

eQCWWAN_ERR_SWIIM_FW_ENTER_DOWNLOAD_MODE 0xE80A - Enter Download Mode

eQCWWAN_ERR_SWIIM_FW_FLASH_COMPLETE 0xE80B - File transfer to modem complete

eQCWWAN_ERR_SWIIM_FW_WAIT_FOR_REBOOT 0xE80C - Wait for modem to reboot

eQCWWAN_ERR_SWIIM_INVALID_CRASH_STATE 0xE80D - Invalid Crash State for Firmware Download

eQCWWAN_ERR_SWIIM_FW_SAME_AS_CURRENT_ACTIVE_IMAGE 0xE80E - Same as current active image

eQCWWAN_ERR_SWIIM_FW_INVALID_SLOT_INDEX 0xE80F - invalid slot index

eQCWWAN_ERR_SWIIM_FW_SECBOOT_IMAGE_NOT_SIGNED

eQCWWAN_ERR_SWIIM_END

eQCWWAN_ERR_SWIDCS_START **Vendor defines - Device Connectivity error codes**

eQCWWAN_ERR_SWIDCS_IOCTL_ERR 0xE901 - IO Control error

eQCWWAN_ERR_SWIDCS_FILEIO_ERR 0xE902 - file open/read/write error

eQCWWAN_ERR_SWIDCS_DEVNODE_NOT_FOUND 0xE903 - The device is not found

eQCWWAN_ERR_SWIDCS_APP_DISCONNECTED 0xE904 - Application is disconnected from SDK

eQCWWAN_ERR_SWIDCS_END

eQCWWAN_ERR_QMI_CAT_START **QMI errors related to CAT**

eQCWWAN_ERR_QMI_EVENT_REG_FAILED 62441 - CAT event registration failed

eQCWWAN_ERR_QMI_INVALID_TERMINAL_RSP 62442 - Invalid terminal response

eQCWWAN_ERR_QMI_INVALID_ENVELOPE_CMD 62443 - Invalid envelope command

eQCWWAN_ERR_QMI_CARD_BUSY_RSP 62444 - Card busy response for envelope command

eQCWWAN_ERR_QMI_ENVELOPE_CMD_FAILURE 62445 - Envelope command failure

eQCWWAN_ERR_QMI_CAT_END

eQCWWAN_ERR_NULL_TLV

eQCWWAN_ERR_QMI_WIDTH 0xFFFF - Not an error, represent the end of QMI errors

9.52.1.2 enum qm_wds_ds_profile_extended_err_codes

WDS DS profile extented error codes

Enumerator

eWDS_ERR_PROFILE_REG_RESULT_FAIL 1 - General Failure

eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL_HNDL 2 - The request contains an invalid profile handle

eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL_OP 3 - An invalid operation was requested.

eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL_PROFILE_TYPE 4 - The request contains an invalid technology type

eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL_PROFILE_NUM 5 - The request contains an invalid profile number

eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL_IDENT 6 - The request contains an invalid profile identifier

eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL 7 - The request contains an invalid argument other than profile number and profile identifier received.

eWDS_ERR_PROFILE_REG_RESULT_ERR_LIB_NOT_INITED 8 - Profile registry has not been initialized yet

eWDS_ERR_PROFILE_REG_RESULT_ERR_LEN_INVALID 9 - The request contains a parameter with invalid length.

eWDS_ERR_PROFILE_REG_RESULT_LIST_END 10 - End of the profile list was reached while searching for the requested profile.

eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL_SUBS_ID 11 - The request contains an invalid subscrition identifier.

eWDS_ERR_PROFILE_REG_INVAL_PROFILE_FAMILY 12 - The request contains an invalid profile family.

eWDS_ERR_PROFILE_REG_3GPP_INVAL_PROFILE_FAMILY 1001 - The request contains an invalid 3GPP profile family.

eWDS_ERR_PROFILE_REG_3GPP_ACCESS_ERR 1002 - An error was encountered while accessing the 3GPP profiles.

eWDS_ERR_PROFILE_REG_3GPP_CONTEXT_NOT_DEFINED 1003 - The given 3GPP profile doesn't have a valid context.

eWDS_ERR_PROFILE_REG_3GPP_VALID_FLAG_NOT_SET 1004 - The given 3GPP profile is marked invalid.

eWDS_ERR_PROFILE_REG_3GPP_READ_ONLY_FLAG_SET 1005 - The given 3GPP profile is marked read-only.

eWDS_ERR_PROFILE_REG_3GPP_ERR_OUT_OF_PROFILES 1006 - Creation of a new 3GPP profile failed because the limit of 16 profiles has already been reached.

eWDS_ERR_PROFILE_REG_3GPP2_ERR_INVALID_IDENT_FOR_PROFILE 1101 - An invalid profile identifier was received as part of the 3GPP2 profile modification request.

eWDS_ERR_PROFILE_REG_END

9.53 qos.h File Reference

Data Structures

- struct unpack_qos_SLQSQosGetNetworkStatus_t
- struct pack_qos_SLQSQosSwiReadApnExtraParams_t
- struct unpack_qos_SLQSQosSwiReadApnExtraParams_t

- struct pack_qos_SLQSQosSwiReadDataStats_t
- struct unpack_QosFlowStat_t
- struct unpack_qos_SLQSQosSwiReadDataStats_t
- struct unpack_qos_SLQSSetQosNWStatusCallback_ind_t
- struct unpack_qos_SLQSSetQosStatusCallback_ind_t
- struct unpack_qos_SLQSSetQosPriEventCallback_ind_t
- struct pack_qos_SLQSSetQosEventCallback_t
- struct unpack_qos_QosFlowInfoState_t
- struct unpack_qos_dataRate_t
- struct unpack_qos_tokenBucket_t
- struct unpack_qos_pktErrRate_t
- struct unpack_qos_swiQosFlow_t
- struct unpack_qos_IPv4Addr_t
- struct unpack_qos_Tos_t
- struct unpack_qos_IPv6Addr_t
- struct unpack_qos_IPv6TrafCls_t
- struct unpack_qos_Port_t
- struct unpack_qos_swiQosFilter_t
- struct unpack_qos_QosFlowInfo_t
- struct unpack_qos_SLQSSetQosEventCallback_ind_t
- struct qos_BindDataPortPeripheralEndPointID_t
- struct qos_BindDataPortMuxID_t
- struct qos_BindDataPortSIODataPort_t
- struct pack_qos_BindDataPort_t

Macros

- #define LITEQMI_MAX_QOS_FLOW_PER_APN_STATS 10
- #define LITEQMI_MAX_QOS_FILTERS 25
- #define LITEQMI_MAX_QOS_FLOWS 8

Functions

- int pack_qos_SLQSQosGetNetworkStatus (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_qos_SLQSQosGetNetworkStatus (uint8_t *pResp, uint16_t respLen, unpack_qos_SLQSQosGetNetworkStatus_t *pOutput)
- int pack_qos_SLQSQosSwiReadApnExtraParams (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_qos_SLQSQosSwiReadApnExtraParams_t reqParam)
- int unpack_qos_SLQSQosSwiReadApnExtraParams (uint8_t *pResp, uint16_t respLen, unpack_qos_SLQSQosSwiReadApnExtraParams_t *pOutput)
- int pack_qos_SLQSQosSwiReadDataStats (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_qos_SLQSQosSwiReadDataStats_t reqParam)
- int unpack_qos_SLQSQosSwiReadDataStats (uint8_t *pResp, uint16_t respLen, unpack_qos_SLQSQosSwiReadDataStats_t *pOutput)
- int unpack_qos_SLQSSetQosNWStatusCallback_ind (uint8_t *pResp, uint16_t respLen, unpack_qos_SLQSSetQosNWStatusCallback_ind_t *pOutput)
- int unpack_qos_SLQSSetQosStatusCallback_ind (uint8_t *pResp, uint16_t respLen, unpack_qos_SLQSSetQosStatusCallback_ind_t *pOutput)
- int unpack_qos_SLQSSetQosPriEventCallback_ind (uint8_t *pResp, uint16_t respLen, unpack_qos_SLQSSetQosPriEventCallback_ind_t *pOutput)
- int pack_qos_SLQSSetQosEventCallback (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_qos_SLQSSetQosEventCallback_t reqParam)
- int unpack_qos_SLQSSetQosEventCallback (uint8_t *pResp, uint16_t respLen)

- int unpack_qos_SLQSSetQosEventCallback_ind (uint8_t *pResp, uint16_t respLen, unpack_qos_SLQSSetQosEventCallback_ind_t *pOutput)
- int pack_qos_BindDataPort (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_qos_BindDataPort_t req)
- int unpack_qos_BindDataPort (uint8_t *pResp, uint16_t respLen)

9.53.1 Macro Definition Documentation

9.53.1.1 #define LITEQMI_MAX_QOS_FILTERS 25

9.53.1.2 #define LITEQMI_MAX_QOS_FLOW_PER_APN_STATS 10

9.53.1.3 #define LITEQMI_MAX_QOS_FLOWS 8

9.53.2 Function Documentation

9.53.2.1 int pack_qos_BindDataPort (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_qos_BindDataPort_t *req*)

Function to pack command to Binds a control point to a data port. This maps to PkQmiQosBindDataPort

Parameters

out	*pCtx*	• See pack_qmi_t for more information
in,out	*pReqBuf*	• Buffer for packed QMI command to be provided by the host application • Minimum expected size is 2048 bytes
in,out	*pLen*	• On input, size of pReqBuf • On ouptut, number of bytes actually packed
in	*req*	• See pack_qos_BindDataPort_t for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

- Timeout: 2 seconds

9.53.2.2 int pack_qos_SLQSQosGetNetworkStatus (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Function to pack command to retrieve QoS status of the network. This maps to SLQSQosGetNetworkStatus

Parameters

out	*pCtx*	• See pack_qmi_t for more information
in,out	*pReqBuf*	• Buffer for packed QMI command to be provided by the host application • Minimum expected size is 2048 bytes
in,out	*pLen*	• On input, size of pReqBuf • On ouptut, number of bytes actually packed

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

- Timeout: 2 seconds
- Technology Supported: CDMA
- PDN Specific: No

9.53.2.3 int pack_qos_SLQSQosSwiReadApnExtraParams (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_qos_SLQSQosSwiReadApnExtraParams_t *reqParam*)

Function to pack QMI command to query extra APN parameters This maps to SLQSQosSwiReadApnExtraParams

Parameters

out	*pCtx*	• See pack_qmi_t for more information
in,out	*pReqBuf*	• Buffer for packed QMI command to be provided by the host application • Minimum expected size is 2048 bytes
in,out	*pLen*	• On input, size of pReqBuf • On ouptut, number of bytes actually packed
in	*reqParam*	• See pack_qos_SLQSQosSwiReadApnExtraParams_t for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

- Timeout: 2 seconds
  - PDN Specific: Yes

9.53.2.4 int pack_qos_SLQSQosSwiReadDataStats (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_qos_SLQSQosSwiReadDataStats_t *reqParam*)

Function to pack QMI command to query APN data statistics This maps to SLQSQosSwiReadDataStats

Parameters

out	*pCtx*	• See pack_qmi_t for more information
in,out	*pReqBuf*	• Buffer for packed QMI command to be provided by the host application • Minimum expected size is 2048 bytes
in,out	*pLen*	• On input, size of pReqBuf • On ouptut, number of bytes actually packed
in	*reqParam*	• See pack_qos_SLQSQosSwiReadDataStats_t for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

- Timeout: 2 seconds
  - PDN Specific: Yes

9.53.2.5 int pack_qos_SLQSSetQosEventCallback (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_qos_SLQSSetQosEventCallback_t *reqParam*)

Function to pack QMI command to enable QoS event indications This maps to SLQSSetQosEventCallback

Parameters

out	*pCtx*	• See pack_qmi_t for more information

in,out	*pReqBuf*	• Buffer for packed QMI command to be provided by the host application • Minimum expected size is 2048 bytes
in,out	*pLen*	• On input, size of pReqBuf • On ouptut, number of bytes actually packed
in	*reqParam*	• See pack_qos_SLQSSetQosEventCallback_t for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

- Timeout: 2 seconds
  - PDN Specific: Yes

9.53.2.6 int unpack_qos_BindDataPort (uint8_t * *pResp*, uint16_t *respLen*)

Function to unpack the response to Binds a control point to a data port. This maps to UpkQmiQosBindDataPort

Parameters

in	*pResp*	• Response from modem
in	*respLen*	• Length of pResp from modem

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.53.2.7 int unpack_qos_SLQSQosGetNetworkStatus (uint8_t * *pResp*, uint16_t *respLen*, unpack_qos_SLQSQosGetNetworkStatus_t * *pOutput*)

Function to unpack the response to get NW QoS status command This maps to SLQSQosGetNetworkStatus

Parameters

in	*pResp*	• Response from modem
in	*respLen*	• Length of pResp from modem
out	*pOutput*	• See unpack_qos_SLQSQosGetNetworkStatus_t for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.53.2.8 int unpack_qos_SLQSQosSwiReadApnExtraParams (uint8_t * *pResp*, uint16_t *respLen*, unpack_qos_SLQSQosSwiReadApnExtraParams_t * *pOutput*)

Function to unpack the response to get NW QoS status command This maps to SLQSQosSwiReadApnExtraParams

Parameters

in	*pResp*	• Response from modem
in	*respLen*	• Length of pResp from modem
out	*pOutput*	• See unpack_qos_SLQSQosSwiReadApnExtraParams_t for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.53.2.9 int unpack_qos_SLQSQosSwiReadDataStats (uint8_t * *pResp*, uint16_t *respLen*, unpack_qos_SLQSQosSwiReadDataStats_t * *pOutput*)

Function to unpack APN data statistics response This maps to SLQSQosSwiReadDataStats

Parameters

in	*pResp*	• Response from modem

in	*respLen*	• Length of pResp from modem
out	*pOutput*	• See unpack_qos_SLQSQosSwiReadDataStats_t for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.53.2.10 int unpack_qos_SLQSSetQosEventCallback (uint8_t * *pResp*, uint16_t *respLen*)

Function to unpack enable QoS event indications command's response This maps to SLQSSetQosEventCallback

Parameters

in	*pResp*	• Response from modem
in	*respLen*	• Length of pResp from modem

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.53.2.11 int unpack_qos_SLQSSetQosEventCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_qos_SLQSSetQosEventCallback_ind_t * *pOutput*)

Function to unpack QoS event indications This maps to SLQSSetQosEventCallback

Parameters

in	*pResp*	• Response from modem
in	*respLen*	• Length of pResp from modem
out	*pOutput*	• See unpack_qos_SLQSSetQosEventCallback_ind_t for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

- This is a broadcast notification that is sent to the registered QoS service
- No explicit function to register for this indication is needed
- Please use eQMI_QOS_NETWORK_STATUS_IND indication to identify this event from QOS service read function

9.53.2.12 int unpack_qos_SLQSSetQosNWStatusCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_qos_SLQSSetQosNWStatusCallback_ind_t** * *pOutput*)

Function to unpack QoS NW status indication. This maps to SLQSSetQosNWStatusCallback

Parameters

in	*pResp*	• Response from modem
in	*respLen*	• Length of pResp from modem
out	*pOutput*	• See unpack_qos_SLQSSetQosNWStatusCallback_ind_t for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

- Technology Supported: CDMA
- This is a broadcast notification that is sent to the registered QoS service
- No explicit function to register for this indication is needed
- Please use eQMI_QOS_NETWORK_STATUS_IND indication to identify this event from QOS service read function

9.53.2.13 int unpack_qos_SLQSSetQosPriEventCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_qos_SLQSSetQosPriEventCallback_ind_t** * *pOutput*)

Function to unpack QoS primary flow events. This maps to SLQSSetQosPriEventCallback

Parameters

in	*pResp*	• Response from modem
in	*respLen*	• Length of pResp from modem
out	*pOutput*	• See unpack_qos_SLQSSetQosPriEventCallback_ind_t for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

- This is a broadcast notification that is sent to the registered QoS service
- No explicit function to register for this indication is needed
- Please use eQMI_QOS_PRIMARY_QOS_EVENT_IND indication to identify this event from QOS service read function
- This is only generated when the primary flow is modified by the host

9.53.2.14 int unpack_qos_SLQSSetQosStatusCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_qos_SLQSSetQosStatusCallback_ind_t * *pOutput*)

Function to unpack QoS status indications. This maps to SLQSSetQosStatusCallback

Parameters

in	*pResp*	• Response from modem
in	*respLen*	• Length of pResp from modem
out	*pOutput*	• See unpack_qos_SLQSSetQosStatusCallback_ind_t for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

- This is a broadcast notification that is sent to the registered QoS service
- No explicit function to register for this indication is needed
- Please use eQMI_QOS_FLOW_STATUS_IND indication to identify this event from QOS service read function

9.54 rms.h File Reference

Data Structures

- struct unpack_rms_GetSMSWake_t
- struct pack_rms_SetSMSWake_t

Macros

- #define __LITEQMI_RMS_H__

Functions

- int pack_rms_GetSMSWake (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen)
- int unpack_rms_GetSMSWake (uint8_t ∗pResp, uint16_t respLen, unpack_rms_GetSMSWake_t ∗pOutput)
- int pack_rms_SetSMSWake (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, pack_rms_SetSMSWake_t ∗reqArg)
- int unpack_rms_SetSMSWake (uint8_t ∗pResp, uint16_t respLen)

9.54.1 Macro Definition Documentation

9.54.1.1 #define __LITEQMI_RMS_H__

9.54.2 Function Documentation

9.54.2.1 int pack_rms_GetSMSWake (pack_qmi_t ∗ *pCtx*, uint8_t ∗ *pReqBuf*, uint16_t ∗ *pLen*)

Get SMS Wake pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.54.2.2 int pack_rms_SetSMSWake (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_rms_SetSMSWake_t * reqArg)

Set SMS Wake pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.54.2.3 int unpack_rms_GetSMSWake (uint8_t * pResp, uint16_t respLen, unpack_rms_GetSMSWake_t * pOutput)

Get SMS Wake unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.54.2.4 int unpack_rms_SetSMSWake (uint8_t * pResp, uint16_t respLen)

Set SMS Wake unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.55 sar.h File Reference

Data Structures

- struct unpack_sar_SLQSGetRfSarState_t
- struct pack_sar_SLQSSetRfSarState_t

Functions

- int pack_sar_SLQSGetRfSarState (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen)
- int unpack_sar_SLQSGetRfSarState (uint8_t ∗pResp, uint16_t respLen, unpack_sar_SLQSGetRfSarState_t ∗pOutput)
- int pack_sar_SLQSSetRfSarState (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, pack_sar_SLQSSetRfSarState_t ∗reqArg)
- int unpack_sar_SLQSSetRfSarState (uint8_t ∗pResp, uint16_t respLen)

9.55.1 Function Documentation

9.55.1.1 int pack_sar_SLQSGetRfSarState (pack_qmi_t ∗ *pCtx*, uint8_t ∗ *pReqBuf*, uint16_t ∗ *pLen*)

Gets the specified RF SAR state pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.55.1.2 int pack_sar_SLQSSetRfSarState (pack_qmi_t ∗ *pCtx*, uint8_t ∗ *pReqBuf*, uint16_t ∗ *pLen*, pack_sar_SLQSSetRfSarState_t ∗ *reqArg*)

Sets the specified RF SAR state pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.55.1.3 int unpack_sar_SLQSGetRfSarState (uint8_t * *pResp*, uint16_t *respLen*, unpack_sar_SLQSGetRfSarState_t * *pOutput*)

Gets the specified RF SAR state unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.55.1.4 int unpack_sar_SLQSSetRfSarState (uint8_t * *pResp*, uint16_t *respLen*)

Sets the specified RF SAR state unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56 sms.h File Reference

Data Structures

- struct pack_sms_SLQSGetSMS_t
- struct unpack_sms_SLQSGetSMS_t
- struct pack_sms_SLQSGetSMSList_t
- struct qmiSmsMessageList
- struct unpack_sms_SLQSGetSMSList_t
- struct pack_sms_SLQSModifySMSStatus_t
- struct unpack_sms_SLQSModifySMSStatus_t
- struct pack_sms_SLQSDeleteSMS_t
- struct unpack_sms_SLQSDeleteSMS_t

- struct pack_sms_SendSMS_t
- struct unpack_sms_SendSMS_t
- struct pack_sms_SetNewSMSCallback_t
- struct unpack_sms_SetNewSMSCallback_t
- struct sMSMTMessageInfo
- struct newMTMessageTlv
- struct sMSTransferRouteMTMessageInfo
- struct transferRouteMessageTlv
- struct sMSMessageModeInfo
- struct messageModeTlv
- struct sMSEtwsMessageInfo
- struct sMSEtwsMessageTlv
- struct sMSEtwsPlmnInfo
- struct eTWSPLMNInfoTlv
- struct sMSCAddressInfo
- struct sMSCAddressTlv
- struct sMSOnIMSInfo
- struct sMSOnIMSTlv
- struct unpack_sms_SetNewSMSCallback_ind_t
- struct unpack_sms_SLQSWmsMemoryFullCallBack_ind_t
- struct unpack_sms_GetSMSCAddress_t
- struct pack_sms_SetSMSCAddress_t
- struct pack_sms_SaveSMS_t
- struct unpack_sms_SaveSMS_t
- struct sms_BroadcastConfig
- struct sms_qaQmi3GPPBroadcastCfgInfo
- struct sms_CDMABroadcastConfig
- struct sms_qaQmi3GPP2BroadcastCfgInfo
- struct unpack_sms_SLQSGetSmsBroadcastConfig_t
- struct pack_sms_SLQSGetSmsBroadcastConfig_t
- struct pack_sms_SLQSSetSmsBroadcastConfig_t
- struct pack_sms_SLQSSetSmsBroadcastActivation_t
- struct sms_transLayerInfo
- struct sms_getTransLayerInfo
- struct unpack_sms_SLQSGetTransLayerInfo_t
- struct sms_getTransNWRegInfo
- struct unpack_sms_SLQSGetTransNWRegInfo_t
- struct sms_getIndicationReg
- struct unpack_sms_SLQSGetIndicationRegister_t
- struct sms_setIndicationReg
- struct pack_sms_SLQSSetIndicationRegister_t
- struct sms_routeEntry
- struct sms_setRoutesReq
- struct pack_sms_SLQSSmsSetRoutes_t
- struct sms_msgProtocolResp
- struct unpack_sms_SLQSSmsGetMessageProtocol_t
- struct sms_maxStorageSizeReq
- struct sms_maxStorageSizeResp
- struct pack_sms_SLQSSmsGetMaxStorageSize_t
- struct unpack_sms_SLQSSmsGetMaxStorageSize_t
- struct sms_messageWaitingInfoContent
- struct sms_getMsgWaitingInfo
- struct unpack_sms_SLQSGetMessageWaiting_t
- struct sms_sendAsyncsmsParams
- struct pack_sms_SLQSSendAsyncSMS_t

- struct pack_sms_SLQSSetSmsStorage_t
- struct unpack_sms_SLQSSwiGetSMSStorage_t
- struct unpack_sms_SLQSTransLayerInfoCallback_ind_t
- struct unpack_sms_SLQSNWRegInfoCallback_ind_t
- struct unpack_sms_SLQSWmsMessageWaitingCallBack_ind_t
- struct unpack_sms_SLQSWmsAsyncRawSendCallBack_ind_t

Macros

- #define MAX_SMS_MESSAGE_SIZE 2048
- #define MAX_SMS_LIST_SIZE 255
- #define MAX_MS_TRANSFER_ROUTE_MSG 256
- #define MAX_MSE_TWS_MSG 1254
- #define MAX_MSC_ADDRESS_SIZE 256
- #define MAX_CDMA_ENC_MO_TXT_MSG_SIZE 255
- #define SMSC_TYPE_LEN 0x03
- #define SMS_CONFIG_LEN 0x05
- #define SMS_MAX_SMS_ROUTES 0x0A
- #define SMS_NUM_OF_SET 0xFF

Enumerations

- enum eqmiCbkSetStatus {
  LITEQMI_QMI_CBK_PARAM_RESET = 0,
  LITEQMI_QMI_CBK_PARAM_SET = 1,
  LITEQMI_QMI_CBK_PARAM_NOCHANGE }

Functions

- int pack_sms_SLQSGetSMS (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, pack_sms_SLQSGetSMS_t ∗reqParam)
- int unpack_sms_SLQSGetSMS (uint8_t ∗pResp, uint16_t respLen, unpack_sms_SLQSGetSMS_t ∗pOutput)
- int pack_sms_SLQSGetSMSList (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, pack_sms_SLQSGetSMSList_t ∗reqParam)
- int unpack_sms_SLQSGetSMSList (uint8_t ∗pResp, uint16_t respLen, unpack_sms_SLQSGetSMSList_t ∗pOutput)
- int pack_sms_SLQSModifySMSStatus (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, pack_sms_SLQSModifySMSStatus_t ∗reqParam)
- int unpack_sms_SLQSModifySMSStatus (uint8_t ∗pResp, uint16_t respLen, unpack_sms_SLQSModifySMSStatus_t ∗pOutput)
- int pack_sms_SLQSDeleteSMS (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, pack_sms_SLQSDeleteSMS_t ∗reqParam)
- int unpack_sms_SLQSDeleteSMS (uint8_t ∗pResp, uint16_t respLen, unpack_sms_SLQSDeleteSMS_t ∗pOutput)
- int pack_sms_SendSMS (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, pack_sms_SendSMS_t ∗reqParam)
- int unpack_sms_SendSMS (uint8_t ∗pResp, uint16_t respLen, unpack_sms_SendSMS_t ∗pOutput)
- int pack_sms_SetNewSMSCallback (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, pack_sms_SetNewSMSCallback_t reqParam)
- int unpack_sms_SetNewSMSCallback (uint8_t ∗pResp, uint16_t respLen, unpack_sms_SetNewSMSCallback_t ∗Output)
- int unpack_sms_SetNewSMSCallback_ind (uint8_t ∗pResp, uint16_t respLen, unpack_sms_SetNewSMSCallback_ind_t ∗pOutput)

- int unpack_sms_SLQSWmsMemoryFullCallBack_ind (uint8_t *pResp, uint16_t respLen, unpack_sms_SLQSWmsMemoryFullCallBack_ind_t *pOutput)
- int pack_sms_GetSMSCAddress (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_sms_GetSMSCAddress (uint8_t *pResp, uint16_t respLen, unpack_sms_GetSMSCAddress_t *pOutput)
- int pack_sms_SetSMSCAddress (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_sms_SetSMSCAddress_t *reqParam)
- int unpack_sms_SetSMSCAddress (uint8_t *pResp, uint16_t respLen)
- int pack_sms_SaveSMS (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_sms_SaveSMS_t *reqParam)
- int unpack_sms_SaveSMS (uint8_t *pResp, uint16_t respLen, unpack_sms_SaveSMS_t *pOutput)
- int pack_sms_SLQSGetSmsBroadcastConfig (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_sms_SLQSGetSmsBroadcastConfig_t *reqParam)
- int unpack_sms_SLQSGetSmsBroadcastConfig (uint8_t *pResp, uint16_t respLen, unpack_sms_SLQSGetSmsBroadcastConfig_t *pOutput)
- int pack_sms_SLQSSetSmsBroadcastConfig (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_sms_SLQSSetSmsBroadcastConfig_t *reqParam)
- int unpack_sms_SLQSSetSmsBroadcastConfig (uint8_t *pResp, uint16_t respLen)
- int pack_sms_SLQSSetSmsBroadcastActivation (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_sms_SLQSSetSmsBroadcastActivation_t *reqParam)
- int unpack_sms_SLQSSetSmsBroadcastActivation (uint8_t *pResp, uint16_t respLen)
- int pack_sms_SLQSGetTransLayerInfo (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_sms_SLQSGetTransLayerInfo (uint8_t *pResp, uint16_t respLen, unpack_sms_SLQSGetTransLayerInfo_t *pOutput)
- int pack_sms_SLQSGetTransNWRegInfo (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_sms_SLQSGetTransNWRegInfo (uint8_t *pResp, uint16_t respLen, unpack_sms_SLQSGetTransNWRegInfo_t *pOutput)
- int pack_sms_SLQSGetIndicationRegister (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_sms_SLQSGetIndicationRegister (uint8_t *pResp, uint16_t respLen, unpack_sms_SLQSGetIndicationRegister_t *pOutput)
- int pack_sms_SLQSSetIndicationRegister (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_sms_SLQSSetIndicationRegister_t *reqParam)
- int unpack_sms_SLQSSetIndicationRegister (uint8_t *pResp, uint16_t respLen)
- int pack_sms_SLQSSmsSetRoutes (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_sms_SLQSSmsSetRoutes_t *reqParam)
- int unpack_sms_SLQSSmsSetRoutes (uint8_t *pResp, uint16_t respLen)
- int pack_sms_SLQSSmsGetMessageProtocol (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_sms_SLQSSmsGetMessageProtocol (uint8_t *pResp, uint16_t respLen, unpack_sms_SLQSSmsGetMessageProtocol_t *pOutput)
- int pack_sms_SLQSSmsGetMaxStorageSize (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_sms_SLQSSmsGetMaxStorageSize_t *reqParam)
- int unpack_sms_SLQSSmsGetMaxStorageSize (uint8_t *pResp, uint16_t respLen, unpack_sms_SLQSSmsGetMaxStorageSize_t *pOutput)
- int pack_sms_SLQSGetMessageWaiting (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_sms_SLQSGetMessageWaiting (uint8_t *pResp, uint16_t respLen, unpack_sms_SLQSGetMessageWaiting_t *pOutput)
- int pack_sms_SLQSSendAsyncSMS (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_sms_SLQSSendAsyncSMS_t *reqParam)
- int unpack_sms_SLQSSendAsyncSMS (uint8_t *pResp, uint16_t respLen)
- int pack_sms_SLQSSetSmsStorage (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_sms_SLQSSetSmsStorage_t *reqParam)
- int unpack_sms_SLQSSetSmsStorage (uint8_t *pResp, uint16_t respLen)
- int pack_sms_SLQSSwiGetSMSStorage (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_sms_SLQSSwiGetSMSStorage (uint8_t *pResp, uint16_t respLen, unpack_sms_SLQSSwiGetSMSStorage_t *pOutput)

- int unpack_sms_SLQSTransLayerInfoCallback_ind (uint8_t *pResp, uint16_t respLen, unpack_sms_SLQS-TransLayerInfoCallback_ind_t *pOutput)
- int unpack_sms_SLQSNWRegInfoCallback_ind (uint8_t *pResp, uint16_t respLen, unpack_sms_SLQSNW-RegInfoCallback_ind_t *pOutput)
- int unpack_sms_SLQSWmsMessageWaitingCallBack_ind (uint8_t *pResp, uint16_t respLen, unpack_sms_-SLQSWmsMessageWaitingCallBack_ind_t *pOutput)
- int unpack_sms_SLQSWmsAsyncRawSendCallBack_ind (uint8_t *pResp, uint16_t respLen, unpack_sms_-SLQSWmsAsyncRawSendCallBack_ind_t *pOutput)

9.56.1 Macro Definition Documentation

9.56.1.1 #define MAX_CDMA_ENC_MO_TXT_MSG_SIZE 255

9.56.1.2 #define MAX_MS_TRANSFER_ROUTE_MSG 256

9.56.1.3 #define MAX_MSC_ADDRESS_SIZE 256

9.56.1.4 #define MAX_MSE_TWS_MSG 1254

9.56.1.5 #define MAX_SMS_LIST_SIZE 255

9.56.1.6 #define MAX_SMS_MESSAGE_SIZE 2048

9.56.1.7 #define SMS_CONFIG_LEN 0x05

9.56.1.8 #define SMS_MAX_SMS_ROUTES 0x0A

9.56.1.9 #define SMS_NUM_OF_SET 0xFF

9.56.1.10 #define SMSC_TYPE_LEN 0x03

9.56.2 Enumeration Type Documentation

9.56.2.1 enum eqmiCbkSetStatus

Enumerator

LITEQMI_QMI_CBK_PARAM_RESET

LITEQMI_QMI_CBK_PARAM_SET

LITEQMI_QMI_CBK_PARAM_NOCHANGE

9.56.3 Function Documentation

9.56.3.1 int pack_sms_GetSMSCAddress (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Gets the SMS center address pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.2 int pack_sms_SaveSMS (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_sms_SaveSMS_t * *reqParam*)

Saves an SMS message to device memory pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
	reqParam	packed request

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.3 int pack_sms_SendSMS (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_sms_SendSMS_t * *reqParam*)

send sms list pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
	reqParam	packed request

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.4 int pack_sms_SetNewSMSCallback (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_sms_SetNewSMSCallback_t *reqParam*)

set new sms callback pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
	reqParam	packed request

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.5 int pack_sms_SetSMSCAddress (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_sms_SetSMSCAddress_t * *reqParam*)

Set the SMS center address pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
	reqParam	packed request

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.6 int pack_sms_SLQSDeleteSMS (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_sms_SLQSDeleteSMS_t * *reqParam*)

delete sms pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
	reqParam	packed request

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.7 int pack_sms_SLQSGetIndicationRegister (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Gets registration state of different WMS indications pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.8 int pack_sms_SLQSGetMessageWaiting (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Gets the message waiting information pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.9 int pack_sms_SLQSGetSMS (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_sms_SLQSGetSMS_t * *reqParam*)

get sms pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
	reqParam	packed request

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.10 int pack_sms_SLQSGetSmsBroadcastConfig (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_sms_SLQSGetSmsBroadcastConfig_t * reqParam)

Provides Information about the SMS BroadcastConfiguration pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
	reqParam	packed request

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.11 int pack_sms_SLQSGetSMSList (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_sms_SLQSGetSMSList_t * reqParam)

get sms list pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
	reqParam	packed request

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.12 int pack_sms_SLQSGetTransLayerInfo (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen)

Gets information about the transport layer pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.13 int pack_sms_SLQSGetTransNWRegInfo (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Gets transport layer network registration info pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.14 int pack_sms_SLQSModifySMSStatus (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_sms_SLQSModifySMSStatus_t * *reqParam*)

modify sms status pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
	reqParam	packed request

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.15 int pack_sms_SLQSSendAsyncSMS (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_sms_SLQSSendAsyncSMS_t * *reqParam*)

Sends an SMS message for immediate over-the-air transmission pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
	reqParam	packed request

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.16 int pack_sms_SLQSSetIndicationRegister (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_sms_SLQSSetIndicationRegister_t * *reqParam*)

Sets the registration state of different WMS indications pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
	reqParam	packed request

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.17 int pack_sms_SLQSSetSmsBroadcastActivation (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_sms_SLQSSetSmsBroadcastActivation_t * *reqParam*)

Enables or disables the reception of broadcast SMS messages pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
	reqParam	packed request

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.18 int pack_sms_SLQSSetSmsBroadcastConfig (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_sms_SLQSSetSmsBroadcastConfig_t * *reqParam*)

Sets the information about the SMS BroadcastConfiguration pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
	reqParam	packed request

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.19 int pack_sms_SLQSSetSmsStorage (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_sms_SLQSSetSmsStorage_t * *reqParam*)

Sets the SMS Storage on the device pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
	reqParam	packed request

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.20 int pack_sms_SLQSSmsGetMaxStorageSize (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_sms_SLQSSmsGetMaxStorageSize_t * *reqParam*)

Get the maximum number of messages that can be stored in the specified memory storage. Also it provides the number of slots currently available pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
	reqParam	packed request

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.21 int pack_sms_SLQSSmsGetMessageProtocol (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen)

Gets the message protocol currently in use for the WMS client pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.22 int pack_sms_SLQSSmsSetRoutes (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_sms_SLQSSmsSetRoutes_t * reqParam)

Sets the action performed on SMS message receipt for specified message routes. It also specifies the action performed on SMS receipt of status reports pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
	reqParam	packed request

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.23 int pack_sms_SLQSSwiGetSMSStorage (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen)

Gets the current SMS configuration that is applied to all incoming and outgoing messages pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.24 int unpack_sms_GetSMSCAddress (uint8_t * *pResp*, uint16_t *respLen*, unpack_sms_GetSMSCAddress_t * *pOutput*)

Gets the SMS center address unpack.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.25 int unpack_sms_SaveSMS (uint8_t * *pResp*, uint16_t *respLen*, unpack_sms_SaveSMS_t * *pOutput*)

Saves an SMS message to device memory unpack.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.26 int unpack_sms_SendSMS (uint8_t * *pResp*, uint16_t *respLen*, unpack_sms_SendSMS_t * *pOutput*)

send sms unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.27 int unpack_sms_SetNewSMSCallback (uint8_t * *pResp*, uint16_t *respLen*, unpack_sms_SetNewSMSCallback_t * *Output*)

set new sms callback unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*Output*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.28 int unpack_sms_SetNewSMSCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_sms_SetNewSMSCallback_ind_t * *pOutput*)

set new sms callback indication unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.29 int unpack_sms_SetSMSCAddress (uint8_t * *pResp*, uint16_t *respLen*)

Set the SMS center address unpack.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.30 int unpack_sms_SLQSDeleteSMS (uint8_t * *pResp*, uint16_t *respLen*, **unpack_sms_SLQSDeleteSMS_t** * *pOutput*)

delete sms unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.31 int unpack_sms_SLQSGetIndicationRegister (uint8_t * *pResp*, uint16_t *respLen*, **unpack_sms_SLQSGetIndicationRegister_t** * *pOutput*)

Gets registration state of different WMS indications unpack.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.32 int unpack_sms_SLQSGetMessageWaiting (uint8_t * *pResp*, uint16_t *respLen*, **unpack_sms_SLQSGetMessageWaiting_t** * *pOutput*)

Gets the message waiting information unpack.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.33 int unpack_sms_SLQSGetSMS (uint8_t * *pResp*, uint16_t *respLen*, **unpack_sms_SLQSGetSMS_t** * *pOutput*)

get sms unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.34 int unpack_sms_SLQSGetSmsBroadcastConfig (uint8_t * *pResp*, uint16_t *respLen*, **unpack_sms_SLQSGetSmsBroadcastConfig_t** * *pOutput*)

Provides Information about the SMS BroadcastConfiguration unpack.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.35 int unpack_sms_SLQSGetSMSList (uint8_t * *pResp*, uint16_t *respLen*, **unpack_sms_SLQSGetSMSList_t** * *pOutput*)

get sms list unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.36 int unpack_sms_SLQSGetTransLayerInfo (uint8_t * *pResp*, uint16_t *respLen*, unpack_sms_SLQSGetTransLayerInfo_t * *pOutput*)

Gets information about the transport layer unpack.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.37 int unpack_sms_SLQSGetTransNWRegInfo (uint8_t * *pResp*, uint16_t *respLen*, unpack_sms_SLQSGetTransNWRegInfo_t * *pOutput*)

Gets transport layer network registration info unpack.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.38 int unpack_sms_SLQSModifySMSStatus (uint8_t * *pResp*, uint16_t *respLen*, unpack_sms_SLQSModifySMS-Status_t * *pOutput*)

modify sms status unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.39 int unpack_sms_SLQSNWRegInfoCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_sms_SLQSNWRegInfoCallback_ind_t * *pOutput*)

Unpack indication about change in transport layer info

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.40 int unpack_sms_SLQSSendAsyncSMS (uint8_t * *pResp*, uint16_t *respLen*)

Sends an SMS message for immediate over-the-air transmission unpack.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.41 int unpack_sms_SLQSSetIndicationRegister (uint8_t * *pResp*, uint16_t *respLen*)

Sets the registration state of different WMS indications unpack.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.42 int unpack_sms_SLQSSetSmsBroadcastActivation (uint8_t * *pResp*, uint16_t *respLen*)

Enables or disables the reception of broadcast SMS messages unpack.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.43 int unpack_sms_SLQSSetSmsBroadcastConfig (uint8_t * *pResp*, uint16_t *respLen*)

Sets the information about the SMS BroadcastConfiguration unpack.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.44 int unpack_sms_SLQSSetSmsStorage (uint8_t * *pResp*, uint16_t *respLen*)

Sets the SMS Storage on the device unpack.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.45 int unpack_sms_SLQSSmsGetMaxStorageSize (uint8_t * *pResp*, uint16_t *respLen*, unpack_sms_SLQSSmsGetMaxStorageSize_t * *pOutput*)

Get the maximum number of messages that can be stored in the specified memory storage. Also it provides the number of slots currently available unpack.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.46 int unpack_sms_SLQSSmsGetMessageProtocol (uint8_t * *pResp*, uint16_t *respLen*, unpack_sms_SLQSSmsGetMessageProtocol_t * *pOutput*)

Gets the message protocol currently in use for the WMS client unpack.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.47 int unpack_sms_SLQSSmsSetRoutes (uint8_t * *pResp*, uint16_t *respLen*)

Sets the action performed on SMS message receipt for specified message routes. It also specifies the action performed on SMS receipt of status reports unpack.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.48 int unpack_sms_SLQSSwiGetSMSStorage (uint8_t * *pResp*, uint16_t *respLen*, unpack_sms_SLQSSwiGetSMSStorage_t * *pOutput*)

Gets the current SMS configuration that is applied to all incoming and outgoing messages unpack.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.49 int unpack_sms_SLQSTransLayerInfoCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_sms_SLQSTransLayerInfoCallback_ind_t * *pOutput*)

Unpack indication about change in transport layer info

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.50 int unpack_sms_SLQSWmsAsyncRawSendCallBack_ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_sms_SLQSWmsAsyncRawSendCallBack_ind_t * *pOutput*)

Unpack indication for sms async raw send

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.51 int unpack_sms_SLQSWmsMemoryFullCallBack_ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_sms_SLQSWmsMemoryFullCallBack_ind_t** * *pOutput*)

sms full callback indication unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.56.3.52 int unpack_sms_SLQSWmsMessageWaitingCallBack_ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_sms_SLQSWmsMessageWaitingCallBack_ind_t** * *pOutput*)

Unpack indication for message waiting information

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.57 SwiDataTypes.h File Reference

SWI data types.

Macros

- #define SWI_API

- #define QMI_NO_LTE_FW_SUPPORT 0
- #define QMI_TLV_PLACEHOLDER 0x8F
- #define UNUSEDPARAM(x) (void)x

Typedefs

- typedef unsigned int ULONG
- typedef unsigned long long ULONGLONG
- typedef signed char INT8
- typedef unsigned char BYTE
- typedef char CHAR
- typedef unsigned short WORD
- typedef unsigned short USHORT
- typedef const char * LPCSTR
- typedef int BOOL
- typedef signed short SHORT
- typedef signed int INT32
- typedef float FLOAT

9.57.1 Detailed Description

SWI data types.

9.57.2 Macro Definition Documentation

9.57.2.1 #define QMI_NO_LTE_FW_SUPPORT 0

9.57.2.2 #define QMI_TLV_PLACEHOLDER 0x8F

9.57.2.3 #define SWI_API

9.57.2.4 #define UNUSEDPARAM(*x*) (void)x

Macro used to avoid “unused variable” compiler warnings generated due to the inclusion of the "-Wextra" flag in our make files.

9.57.3 Typedef Documentation

9.57.3.1 typedef int BOOL

9.57.3.2 typedef unsigned char BYTE

9.57.3.3 typedef char CHAR

9.57.3.4 typedef float FLOAT

9.57.3.5 typedef signed int INT32

9.57.3.6 typedef signed char INT8

9.57.3.7 typedef const char* LPCSTR

9.57.3.8 typedef signed short SHORT

9.57.3.9 typedef unsigned int ULONG

9.57.3.10 typedef unsigned long long ULONGLONG

9.57.3.11 typedef unsigned short USHORT

9.57.3.12 typedef unsigned short WORD

9.58 swidms.h File Reference

Data Structures

- struct unpack_swidms_SLQSSwiDmsGetUsbNetNum_t
- struct pack_swidms_SLQSSwiDmsSetUsbNetNum_t
- struct pack_swidms_SLQSSwiDmsSetMTU_t
- struct unpack_swidms_SLQSSwiDmsSetMTU_t
- struct swidms_mtuSize3gppTlv
- struct swidms_hrpdMTUSizeTlv
- struct swidms_ehrpdMTUSizeTlv
- struct swidms_usbMTUSizeTlv
- struct unpack_swidms_SLQSSwiDmsGetMTU_t

Functions

- int pack_swidms_SLQSSwiDmsGetUsbNetNum (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen)
- int unpack_swidms_SLQSSwiDmsGetUsbNetNum (uint8_t ∗pResp, uint16_t respLen, unpack_swidms_SLQSSwiDmsGetUsbNetNum_t ∗pOutput)
- int pack_swidms_SLQSSwiDmsSetUsbNetNum (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, pack_swidms_SLQSSwiDmsSetUsbNetNum_t ∗pReqParam)
- int unpack_swidms_SLQSSwiDmsSetUsbNetNum (uint8_t ∗pResp, uint16_t respLen)
- int pack_swidms_SLQSSwiDmsSetMTU (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, pack_swidms_SLQSSwiDmsSetMTU_t ∗reqArg)
- int unpack_swidms_SLQSSwiDmsSetMTU (uint8_t ∗pResp, uint16_t respLen, unpack_swidms_SLQSSwiDmsSetMTU_t ∗pOutput)
- int pack_swidms_SLQSSwiDmsGetMTU (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen)
- int unpack_swidms_SLQSSwiDmsGetMTU (uint8_t ∗pResp, uint16_t respLen, unpack_swidms_SLQSSwiDmsGetMTU_t ∗pOutput)

9.58.1 Function Documentation

9.58.1.1 int pack_swidms_SLQSSwiDmsGetMTU (pack_qmi_t ∗ *pCtx,* uint8_t ∗ *pReqBuf,* uint16_t ∗ *pLen*)

Get the preferred MTU Size of the 3GPP, HRPD, EHRPD and USB descriptor Interfaces pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.58.1.2 int pack_swidms_SLQSSwiDmsGetUsbNetNum (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

pack function to get usb net numbers for QMAP configuration

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.58.1.3 int pack_swidms_SLQSSwiDmsSetMTU (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_swidms_SLQSSwiDmsSetMTU_t * *reqArg*)

Sets the preferred MTU size for 3GPP, HRPD, EHRPD Interfaces pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.58.1.4 int pack_swidms_SLQSSwiDmsSetUsbNetNum (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_swidms_SLQSSwiDmsSetUsbNetNum_t * *pReqParam*)

pack function to set usb net numbers for QMAP configuration

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request params

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.58.1.5 int unpack_swidms_SLQSSwiDmsGetMTU (uint8_t * *pResp*, uint16_t *respLen*, **unpack_swidms_SLQSSwiDmsGetMTU_t** * *pOutput*)

Get the MTU Size of the 3GPP, HRPD, EHRPD and USB descriptor Interfaces unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.58.1.6 int unpack_swidms_SLQSSwiDmsGetUsbNetNum (uint8_t * *pResp*, uint16_t *respLen*, **unpack_swidms_SLQSSwiDmsGetUsbNetNum_t** * *pOutput*)

unpack function to get usb net numbers for QMAP configuration

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.58.1.7 int unpack_swidms_SLQSSwiDmsSetMTU (uint8_t * *pResp*, uint16_t *respLen*, unpack_swidms_SLQSSwiDmsSetMTU_t * *pOutput*)

Sets preferred MTU size for 3GPP, HRPD, EHRPD Interfaces unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.58.1.8 int unpack_swidms_SLQSSwiDmsSetUsbNetNum (uint8_t * *pResp*, uint16_t *respLen*)

unpack function to set usb net numbers for QMAP configuration

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.59 swiloc.h File Reference

Data Structures

- struct unpack_swiloc_SwiLocGetAutoStart_t
- struct pack_swiloc_SwiLocSetAutoStart_t

Typedefs

- typedef unpack_result_t unpack_swiloc_SwiLocSetAutoStart_t

Functions

- int pack_swiloc_SwiLocGetAutoStart (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_swiloc_SwiLocGetAutoStart (uint8_t *pResp, uint16_t respLen, unpack_swiloc_SwiLocGetAutoStart_t *pOutput)

- int pack_swiloc_SwiLocSetAutoStart (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_swiloc_SwiLocSetAutoStart_t *reqArg)
- int unpack_swiloc_SwiLocSetAutoStart (uint8_t *pResp, uint16_t respLen, unpack_swiloc_SwiLocSetAutoStart_t *pOutput)

9.59.1 Typedef Documentation

9.59.1.1 typedef unpack_result_t unpack_swiloc_SwiLocSetAutoStart_t

9.59.2 Function Documentation

9.59.2.1 int pack_swiloc_SwiLocGetAutoStart (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Get Auto Start pack

Parameters

in	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.59.2.2 int pack_swiloc_SwiLocSetAutoStart (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_swiloc_SwiLocSetAutoStart_t * *reqArg*)

Set Auto Start pack

Parameters

in	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.59.2.3 int unpack_swiloc_SwiLocGetAutoStart (uint8_t * *pResp*, uint16_t *respLen*, unpack_swiloc_SwiLocGetAutoStart_t * *pOutput*)

Get Auto Start unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.59.2.4 int unpack_swiloc_SwiLocSetAutoStart (uint8_t * *pResp*, uint16_t *respLen*, unpack_swiloc_SwiLocSetAutoStart_t * *pOutput*)

Set Auto Start unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.60 swioma.h File Reference

Data Structures

- struct pack_swioma_SLQSOMADMStartSession_t
- struct unpack_swioma_SLQSOMADMStartSession_t
- struct pack_swioma_SLQSOMADMCancelSession_t
- struct unpack_swioma_SLQSOMADMGetSettings_t
- struct pack_swioma_SLQSOMADMSetSettings_t
- struct pack_swioma_SLQSOMADMSendSelection_t
- struct pack_swioma_SLQSOMADMGetSessionInfo_t
- struct unpack_swioma_SLQSOMADMGetSessionInfo_t
- struct unpack_omaDmFotaTlv_t
- struct unpack_omaDmConfigTlv_t
- struct unpack_omaDmNotificationsTlv_t
- struct unpack_swioma_SLQSOMADMAlertCallback_ind_t

Macros

- #define LITEQMI_MAX_SWIOMA_STR_LEN 255

Functions

- int pack_swioma_SLQSOMADMStartSession (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, pack_swioma_SLQSOMADMStartSession_t reqParam)
- int unpack_swioma_SLQSOMADMStartSession (uint8_t ∗pResp, uint16_t respLen, unpack_swioma_SLQSOMADMStartSession_t ∗pOutput)
- int pack_swioma_SLQSOMADMCancelSession (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, pack_swioma_SLQSOMADMCancelSession_t reqParam)
- int unpack_swioma_SLQSOMADMCancelSession (uint8_t ∗pResp, uint16_t respLen)
- int pack_swioma_SLQSOMADMGetSettings (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen)
- int unpack_swioma_SLQSOMADMGetSettings (uint8_t ∗pResp, uint16_t respLen, unpack_swioma_SLQSOMADMGetSettings_t ∗pOutput)
- int pack_swioma_SLQSOMADMSetSettings (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, pack_swioma_SLQSOMADMSetSettings_t reqParam)
- int unpack_swioma_SLQSOMADMSetSettings (uint8_t ∗pResp, uint16_t respLen)
- int pack_swioma_SLQSOMADMSendSelection (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, pack_swioma_SLQSOMADMSendSelection_t reqParam)
- int unpack_swioma_SLQSOMADMSendSelection (uint8_t ∗pResp, uint16_t respLen)
- int pack_swioma_SLQSOMADMGetSessionInfo (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, pack_swioma_SLQSOMADMGetSessionInfo_t reqParam)
- int unpack_swioma_SLQSOMADMGetSessionInfo (uint8_t ∗pResp, uint16_t respLen, unpack_swioma_SLQSOMADMGetSessionInfo_t ∗pOutput)
- int pack_swioma_SLQSOMADMAlertCallback (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen)
- int unpack_swioma_SLQSOMADMAlertCallback (uint8_t ∗pResp, uint16_t respLen)
- int unpack_swioma_SLQSOMADMAlertCallback_ind (uint8_t ∗pResp, uint16_t respLen, unpack_swioma_SLQSOMADMAlertCallback_ind_t ∗pOutput)

9.60.1 Macro Definition Documentation

9.60.1.1 #define LITEQMI_MAX_SWIOMA_STR_LEN 255

9.60.2 Function Documentation

9.60.2.1 int pack_swioma_SLQSOMADMAlertCallback (pack_qmi_t ∗ *pCtx,* uint8_t ∗ *pReqBuf,* uint16_t ∗ *pLen*)

Function to pack QMI command to enable the SWIOMADM network-initiated alert callback function. This maps to SetSLQSOMADMAlertCallback

Parameters

pCtx	[out] • See pack_qmi_t for more information
pReqBuf	[in,out] • Buffer for packed QMI command to be provided by the host application • Minimum expected size is 2048 bytes
pLen	[in,out] • On input, size of pReqBuf • On ouptut, number of bytes actually packed

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 20 seconds

9.60.2.2 int pack_swioma_SLQSOMADMCancelSession (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_swioma_SLQSOMADMCancelSession_t *reqParam*)

Function to pack cancel OMA-DM session command This maps to SLQSOMADMCancelSession

Parameters

pCtx	[out] • See pack_qmi_t for more information
pReqBuf	[in,out] • Buffer for packed QMI command to be provided by the host application • Minimum expected size is 2048 bytes
pLen	[in,out] • On input, size of pReqBuf • On output, number of bytes actually packed
reqParam	[in] • See pack_swioma_SLQSOMADMCancelSession_t for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 20 seconds

9.60.2.3 int pack_swioma_SLQSOMADMGetSessionInfo (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_swioma_SLQSOMADMGetSessionInfo_t *reqParam*)

Function to pack QMI command to return information related to the current (or previous if no session is active) OMA-DM session. This maps to SLQSOMADMGetSessionInfo

Parameters

pCtx	[out] • See pack_qmi_t for more information

pReqBuf	[in,out] • Buffer for packed QMI command to be provided by the host application • Minimum expected size is 2048 bytes
pLen	[in,out] • On input, size of pReqBuf • On ouptut, number of bytes actually packed
reqParam	[in] • See pack_swioma_SLQSOMADMGetSessionInfo_t for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 20 seconds

9.60.2.4 int pack_swioma_SLQSOMADMGetSettings (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Function to pack command to retrieve the OMA-DM settings from the device. This maps to SLQSOMADMGet-Settings2

Parameters

pCtx	[out] • See pack_qmi_t for more information
pReqBuf	[in,out] • Buffer for packed QMI command to be provided by the host application • Minimum expected size is 2048 bytes
pLen	[in,out] • On input, size of pReqBuf • On output, number of bytes actually packed

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 20 seconds

9.60.2.5 int pack_swioma_SLQSOMADMSendSelection (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_swioma_SLQSOMADMSendSelection_t *reqParam*)

Function to pack OMA-DM send selection command This maps to SLQSOMADMSendSelection2

Parameters

pCtx	[out] • See pack_qmi_t for more information
pReqBuf	[in,out] • Buffer for packed QMI command to be provided by the host application • Minimum expected size is 2048 bytes
pLen	[in,out] • On input, size of pReqBuf • On ouptut, number of bytes actually packed
reqParam	[in] • See pack_swioma_SLQSOMADMSendSelection_t for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 20 seconds

9.60.2.6 int pack_swioma_SLQSOMADMSetSettings (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_swioma_SLQSOMADMSetSettings_t *reqParam*)

Function to pack OMA-DM set settings command This maps to SLQSOMADMSetSettings3

Parameters

pCtx	[out] • See pack_qmi_t for more information
pReqBuf	[in,out] • Buffer for packed QMI command to be provided by the host application • Minimum expected size is 2048 bytes
pLen	[in,out] • On input, size of pReqBuf • On ouptut, number of bytes actually packed
reqParam	[in] • See pack_swioma_SLQSOMADMSetSettings_t for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 20 seconds

9.60.2.7 int pack_swioma_SLQSOMADMStartSession (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_swioma_SLQSOMADMStartSession_t *reqParam*)

Function to pack Start OMA-DM session command This maps to SLQSOMADMStartSession2

Parameters

pCtx	[out] • See pack_qmi_t for more information
pReqBuf	[in,out] • Buffer for packed QMI command to be provided by the host application • Minimum expected size is 2048 bytes
pLen	[in,out] • On input, size of pReqBuf • On ouptut, number of bytes actually packed
reqParam	[in] • See pack_swioma_SLQSOMADMStartSession_t for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

Timeout: 20 seconds

9.60.2.8 int unpack_swioma_SLQSOMADMAlertCallback (uint8_t * *pResp*, uint16_t *respLen*)

Function to unpack response of QMI command to enable the SWIOMADM network-initiated alert callback function. This maps to SetSLQSOMADMAlertCallback

Parameters

pResp	[in] • Response from modem
respLen	[in] • Length of pResp from modem

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

- Please use eQMI_SWIOMA_EVENT_IND indication to identify this event from SWIOMA service read function

9.60.2.9 int unpack_swioma_SLQSOMADMAlertCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_swioma_SLQSOMADMAlertCallback_ind_t * *pOutput*)

Function to unpack SWIOMADM alert indications This maps to SetSLQSOMADMAlertCallback

Parameters

pResp	[in] • Response from modem
respLen	[in] • Length of pResp from modem
pOutput	[out] • See unpack_swioma_SLQSOMADMAlertCallback_ind_t for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.60.2.10 int unpack_swioma_SLQSOMADMCancelSession (uint8_t * *pResp*, uint16_t *respLen*)

Function to pack cancel OMA-DM session command This maps to SLQSOMADMCancelSession

Parameters

pResp	[in] • Response from modem
respLen	[in] • Length of pResp from modem

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.60.2.11 int unpack_swioma_SLQSOMADMGetSessionInfo (uint8_t * *pResp*, uint16_t *respLen*, unpack_swioma_SLQSOMADMGetSessionInfo_t * *pOutput*)

Function to unpack information related to the current (or previous if no session is active) OMA-DM session. This maps to SLQSOMADMGetSessionInfo

Parameters

pResp	[in] • Response from modem
respLen	[in] • Length of pResp from modem
pOutput	[out] • See unpack_swioma_SLQSOMADMGetSessionInfo_t for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.60.2.12 int unpack_swioma_SLQSOMADMGetSettings (uint8_t * *pResp*, uint16_t *respLen*, unpack_swioma_SLQSOMADMGetSettings_t * *pOutput*)

Function to unpack OMA-DM get settings response from modem This maps to SLQSOMADMGetSettings2

Parameters

pResp	[in] • Response from modem
respLen	[in] • Length of pResp from modem

pOutput	[out] • See unpack_swioma_SLQSOMADMGetSettings_t for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.60.2.13 int unpack_swioma_SLQSOMADMSendSelection (uint8_t * *pResp*, uint16_t *respLen*)

Function to unpack OMA-DM send selection command This maps to SLQSOMADMSendSelection2

Parameters

pResp	[in] • Response from modem
respLen	[in] • Length of pResp from modem

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.60.2.14 int unpack_swioma_SLQSOMADMSetSettings (uint8_t * *pResp*, uint16_t *respLen*)

Function to unpack OMA-DM set settings command This maps to SLQSOMADMSetSettings3

Parameters

pResp	[in] • Response from modem
respLen	[in] • Length of pResp from modem

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.60.2.15 int unpack_swioma_SLQSOMADMStartSession (uint8_t * *pResp*, uint16_t *respLen*, unpack_swioma_SLQSOMADMStartSession_t * *pOutput*)

Function to unpack Start OMA-DM session response from modem This maps to SLQSOMADMStartSession2

Parameters

pResp	[in] • Response from modem
respLen	[in] • Length of pResp from modem
pOutput	[out] • See unpack_swioma_SLQSOMADMStartSession_t for more information

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.61 SWIWWANCMAPI.h File Reference

9.62 uim.h File Reference

Data Structures

- struct uim_appStatus
- struct uim_slotInfo
- struct uim_cardStatus
- struct uim_hotSwapStatus
- struct unpack_uim_GetCardStatus_t
- struct uim_encryptedPIN1
- struct uim_remainingRetries
- struct uim_sessionInformation
- struct uim_verifyUIMPIN
- struct uim_unblockUIMPIN
- struct uim_cardResult
- struct uim_setPINProtection
- struct uim_changeUIMPIN
- struct uim_fileInfo
- struct uim_UIMSessionInformation
- struct uim_readTransparentInfo
- struct uim_readResult
- struct pack_uim_VerifyPin_t
- struct unpack_uim_VerifyPin_t
- struct pack_uim_UnblockPin_t
- struct unpack_uim_UnblockPin_t
- struct pack_uim_SetPinProtection_t

- struct unpack_uim_SetPinProtection_t
- struct pack_uim_ChangePin_t
- struct unpack_uim_ChangePin_t
- struct pack_uim_ReadTransparent_t
- struct unpack_uim_ReadTransparent_t
- struct pack_uim_SLQSUIMEventRegister_t
- struct unpack_uim_SLQSUIMEventRegister_t
- struct appStats
- struct slotInf
- struct unpack_uim_SLQSUIMSetStatusChangeCallBack_ind_t
- struct slot_t
- struct slots_t
- struct unpack_uim_SLQSUIMGetSlotsStatus_t
- struct pack_uim_SLQSUIMSwitchSlot_t
- struct unpack_uim_SetUimSlotStatusChangeCallback_ind_t
- struct pack_uim_SLQSUIMPowerUp_t
- struct pack_uim_SLQSUIMPowerDown_t
- struct pack_uim_SLQSUIMRefreshOK_t
- struct uim_registerRefresh
- struct pack_uim_SLQSUIMRefreshRegister_t
- struct pack_uim_SLQSUIMRefreshComplete_t
- struct uim_refreshevent
- struct pack_uim_SLQSUIMRefreshGetLastEvent_t
- struct unpack_uim_SLQSUIMRefreshGetLastEvent_t
- struct pack_uim_SLQSUIMGetFileAttributes_t
- struct uim_fileAttributes
- struct unpack_uim_SLQSUIMGetFileAttributes_t
- struct uim_depersonalizationInformation
- struct pack_uim_SLQSUIMDepersonalization_t
- struct unpack_uim_SLQSUIMDepersonalization_t
- struct uim_authenticationData
- struct pack_uim_SLQSUIMAuthenticate_t
- struct uim_authenticateResult
- struct unpack_uim_SLQSUIMAuthenticate_t
- struct uim_personalizationStatus
- struct pack_uim_SLQSUIMGetConfiguration_t
- struct unpack_uim_SLQSUIMGetConfiguration_t
- struct unpack_uim_SLQSUIMRefreshCallback_Ind_t

Macros

- #define UIM_UINT8_MAX_STRING_SZ 255
- #define UIM_MAX_DESCRIPTION_LENGTH 255
- #define UIM_MAX_NO_OF_SLOTS 5
- #define UIM_MAX_NO_OF_APPLICATIONS 10
- #define MAX_NO_OF_SLOTS 5
- #define MAX_NO_OF_APPLICATIONS 10
- #define MAX_DESCRIPTION_LENGTH 255
- #define MAX_SLOTS_STATUS 255
- #define MAX_ICCID_LENGTH 255
- #define UIM_MAX_CONTENT_LENGTH 1024
- #define UIM_MAX_ACTIVE_PERS_FEATURES 12

Functions

- int pack_uim_GetCardStatus (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, void *reqArg)
- int unpack_uim_GetCardStatus (uint8_t *pResp, uint16_t respLen, unpack_uim_GetCardStatus_t *pOutput)
- int pack_uim_VerifyPin (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_uim_VerifyPin_t *reqArg)
- int unpack_uim_VerifyPin (uint8_t *pResp, uint16_t respLen, unpack_uim_VerifyPin_t *pOutput)
- int pack_uim_UnblockPin (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_uim_UnblockPin_t *reqArg)
- int unpack_uim_UnblockPin (uint8_t *pResp, uint16_t respLen, unpack_uim_UnblockPin_t *pOutput)
- int pack_uim_SetPinProtection (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_uim_SetPinProtection_t *reqArg)
- int unpack_uim_SetPinProtection (uint8_t *pResp, uint16_t respLen, unpack_uim_SetPinProtection_t *pOutput)
- int pack_uim_ChangePin (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_uim_ChangePin_t *reqArg)
- int unpack_uim_ChangePin (uint8_t *pResp, uint16_t respLen, unpack_uim_ChangePin_t *pOutput)
- int pack_uim_ReadTransparent (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_uim_ReadTransparent_t *reqArg)
- int unpack_uim_ReadTransparent (uint8_t *pResp, uint16_t respLen, unpack_uim_ReadTransparent_t *pOutput)
- int pack_uim_SLQSUIMEventRegister (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_uim_SLQSUIMEventRegister_t *reqArg)
- int unpack_uim_SLQSUIMEventRegister (uint8_t *pResp, uint16_t respLen, unpack_uim_SLQSUIMEventRegister_t *pOutput)
- int unpack_uim_SLQSUIMSetStatusChangeCallBack_ind (uint8_t *pResp, uint16_t respLen, unpack_uim_SLQSUIMSetStatusChangeCallBack_ind_t *pOutput)
- int pack_uim_SLQSUIMGetSlotsStatus (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_uim_SLQSUIMGetSlotsStatus (uint8_t *pResp, uint16_t respLen, unpack_uim_SLQSUIMGetSlotsStatus_t *pOutput)
- int pack_uim_SLQSUIMSwitchSlot (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_uim_SLQSUIMSwitchSlot_t *reqArg)
- int unpack_uim_SLQSUIMSwitchSlot (uint8_t *pResp, uint16_t respLen)
- int unpack_uim_SetUimSlotStatusChangeCallback_ind (uint8_t *pResp, uint16_t respLen, unpack_uim_SetUimSlotStatusChangeCallback_ind_t *pOutput)
- int pack_uim_SLQSUIMPowerUp (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_uim_SLQSUIMPowerUp_t *reqArg)
- int unpack_uim_SLQSUIMPowerUp (uint8_t *pResp, uint16_t respLen)
- int pack_uim_SLQSUIMPowerDown (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_uim_SLQSUIMPowerDown_t *reqArg)
- int unpack_uim_SLQSUIMPowerDown (uint8_t *pResp, uint16_t respLen)
- int pack_uim_SLQSUIMReset (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_uim_SLQSUIMReset (uint8_t *pResp, uint16_t respLen)
- int pack_uim_SLQSUIMRefreshOK (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_uim_SLQSUIMRefreshOK_t *reqArg)
- int unpack_uim_SLQSUIMRefreshOK (uint8_t *pResp, uint16_t respLen)
- int pack_uim_SLQSUIMRefreshRegister (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_uim_SLQSUIMRefreshRegister_t *reqArg)
- int unpack_uim_SLQSUIMRefreshRegister (uint8_t *pResp, uint16_t respLen)
- int pack_uim_SLQSUIMRefreshComplete (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_uim_SLQSUIMRefreshComplete_t *reqArg)
- int unpack_uim_SLQSUIMRefreshComplete (uint8_t *pResp, uint16_t respLen)
- int pack_uim_SLQSUIMRefreshGetLastEvent (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_uim_SLQSUIMRefreshGetLastEvent_t *reqArg)
- int unpack_uim_SLQSUIMRefreshGetLastEvent (uint8_t *pResp, uint16_t respLen, unpack_uim_SLQSUIMRefreshGetLastEvent_t *pOutput)

- int pack_uim_SLQSUIMGetFileAttributes (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, pack_uim_-SLQSUIMGetFileAttributes_t ∗reqArg)
- int unpack_uim_SLQSUIMGetFileAttributes (uint8_t ∗pResp, uint16_t respLen, unpack_uim_SLQSUIMGet-FileAttributes_t ∗pOutput)
- int pack_uim_SLQSUIMDepersonalization (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, pack_uim-_SLQSUIMDepersonalization_t ∗reqArg)
- int unpack_uim_SLQSUIMDepersonalization (uint8_t ∗pResp, uint16_t respLen, unpack_uim_SLQSUIM-Depersonalization_t ∗pOutput)
- int pack_uim_SLQSUIMAuthenticate (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, pack_uim_SLQ-SUIMAuthenticate_t ∗reqArg)
- int unpack_uim_SLQSUIMAuthenticate (uint8_t ∗pResp, uint16_t respLen, unpack_uim_SLQSUIM-Authenticate_t ∗pOutput)
- int pack_uim_SLQSUIMGetConfiguration (pack_qmi_t ∗pCtx, uint8_t ∗pReqBuf, uint16_t ∗pLen, pack_uim_-SLQSUIMGetConfiguration_t ∗reqArg)
- int unpack_uim_SLQSUIMGetConfiguration (uint8_t ∗pResp, uint16_t respLen, unpack_uim_SLQSUIMGet-Configuration_t ∗pOutput)
- int unpack_uim_SLQSUIMRefreshCallback_Ind (uint8_t ∗pResp, uint16_t respLen, unpack_uim_SLQSUIM-RefreshCallback_Ind_t ∗pOutput)

9.62.1 Macro Definition Documentation

9.62.1.1 #define MAX_DESCRIPTION_LENGTH 255

9.62.1.2 #define MAX_ICCID_LENGTH 255

9.62.1.3 #define MAX_NO_OF_APPLICATIONS 10

9.62.1.4 #define MAX_NO_OF_SLOTS 5

9.62.1.5 #define MAX_SLOTS_STATUS 255

9.62.1.6 #define UIM_MAX_ACTIVE_PERS_FEATURES 12

9.62.1.7 #define UIM_MAX_CONTENT_LENGTH 1024

9.62.1.8 #define UIM_MAX_DESCRIPTION_LENGTH 255

9.62.1.9 #define UIM_MAX_NO_OF_APPLICATIONS 10

9.62.1.10 #define UIM_MAX_NO_OF_SLOTS 5

9.62.1.11 #define UIM_UINT8_MAX_STRING_SZ 255

9.62.2 Function Documentation

9.62.2.1 int pack_uim_ChangePin (pack_qmi_t ∗ *pCtx*, uint8_t ∗ *pReqBuf*, uint16_t ∗ *pLen*, pack_uim_ChangePin_t ∗ *reqArg*)

Change Pin pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.2 int pack_uim_GetCardStatus (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, void * *reqArg*)

Get Card Status pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.3 int pack_uim_ReadTransparent (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_uim_ReadTransparent_t * *reqArg*)

SLQS ReadTransparent pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.4 int pack_uim_SetPinProtection (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_uim_SetPinProtection_t * *reqArg*)

Set Pin Protection pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.5 int pack_uim_SLQSUIMAuthenticate (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_uim_SLQSUIMAuthenticate_t * *reqArg*)

Send a security command to the card pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.6 int pack_uim_SLQSUIMDepersonalization (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_uim_SLQSUIMDepersonalization_t * *reqArg*)

De-activates or unblocks the personalization on the phone pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.7 int pack_uim_SLQSUIMEventRegister (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_uim_SLQSUIMEventRegister_t * *reqArg*)

UIM Status Change callback enable pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.8 int pack_uim_SLQSUIMGetConfiguration (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_uim_SLQSUIMGetConfiguration_t * *reqArg*)

Gets the modem configuration for the UIM module pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.9 int pack_uim_SLQSUIMGetFileAttributes (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_uim_SLQSUIMGetFileAttributes_t * *reqArg*)

Retrieves the file attributes for any EF(Elementary File) or DF(Dedicated File) in the card and provides access by the path pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.10 int pack_uim_SLQSUIMGetSlotsStatus (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Pack get slots status.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.11 int pack_uim_SLQSUIMPowerDown (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_uim_SLQSUIMPowerDown_t * *reqArg*)

Powers down the card pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.12 int pack_uim_SLQSUIMPowerUp (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_uim_SLQSUIMPowerUp_t * *reqArg*)

Powers up the card pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.13 int pack_uim_SLQSUIMRefreshComplete (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_uim_SLQSUIMRefreshComplete_t * *reqArg*)

Enables the terminal response to be sent to the card When the client finished Refresh procedure pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.14 int pack_uim_SLQSUIMRefreshGetLastEvent (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_uim_SLQSUIMRefreshGetLastEvent_t * *reqArg*)

Retrieve the last refresh event pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.15 int pack_uim_SLQSUIMRefreshOK (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_uim_SLQSUIMRefreshOK_t * *reqArg*)

Enables the client to indicate whether it is OK to start the Refresh procedure pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.16 int pack_uim_SLQSUIMRefreshRegister (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_uim_SLQSUIMRefreshRegister_t * *reqArg*)

Registers for file change notifications triggered by the card pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.17 int pack_uim_SLQSUIMReset (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Resets the issuing control points state kept by the service pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.18 int pack_uim_SLQSUIMSwitchSlot (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_uim_SLQSUIMSwitchSlot_t * reqArg)

switch slot pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.19 int pack_uim_UnblockPin (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_uim_UnblockPin_t * reqArg)

Unblock Pin pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.20 int pack_uim_VerifyPin (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_uim_VerifyPin_t * reqArg)

Verify Pin Status pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.21 int unpack_uim_ChangePin (uint8_t * *pResp*, uint16_t *respLen*, **unpack_uim_ChangePin_t** * *pOutput*)

Change Pin unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.22 int unpack_uim_GetCardStatus (uint8_t * *pResp*, uint16_t *respLen*, **unpack_uim_GetCardStatus_t** * *pOutput*)

Get Card Status unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.23 int unpack_uim_ReadTransparent (uint8_t * *pResp*, uint16_t *respLen*, **unpack_uim_ReadTransparent_t** * *pOutput*)

SLQS ReadTransparent unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.24 int unpack_uim_SetPinProtection (uint8_t * *pResp*, uint16_t *respLen*, **unpack_uim_SetPinProtection_t** * *pOutput*)

Set Pin Protection unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.25 int unpack_uim_SetUimSlotStatusChangeCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_uim_SetUimSlotStatusChangeCallback_ind_t** * *pOutput*)

UIM Slot Status Change indication unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

use pack_uim_SLQSUIMEventRegister to subscribe

9.62.2.26 int unpack_uim_SLQSUIMAuthenticate (uint8_t * *pResp*, uint16_t *respLen*, **unpack_uim_SLQSUIM-Authenticate_t** * *pOutput*)

Unpack the status code received from the card when card responded to the read request

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.27 int unpack_uim_SLQSUIMDepersonalization (uint8_t * *pResp*, uint16_t *respLen*, unpack_uim_SLQSUIMDepersonalization_t * *pOutput*)

De-activates or unblocks the personalization on the phone unpack.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.28 int unpack_uim_SLQSUIMEventRegister (uint8_t * *pResp*, uint16_t *respLen*, unpack_uim_SLQSUIMEvent-Register_t * *pOutput*)

UIM Status Change callback enable unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.29 int unpack_uim_SLQSUIMGetConfiguration (uint8_t * *pResp*, uint16_t *respLen*, unpack_uim_SLQSUIMGetConfiguration_t * *pOutput*)

Gets the modem configuration for the UIM module unpack.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.30 int unpack_uim_SLQSUIMGetFileAttributes (uint8_t * *pResp*, uint16_t *respLen*, unpack_uim_SLQSUIMGetFileAttributes_t * *pOutput*)

Retrieves the file attributes for any EF(Elementary File) or DF(Dedicated File) in the card and provides access by the path unpack.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.31 int unpack_uim_SLQSUIMGetSlotsStatus (uint8_t * *pResp*, uint16_t *respLen*, unpack_uim_SLQSUIMGetSlotsStatus_t * *pOutput*)

get slot status unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.32 int unpack_uim_SLQSUIMPowerDown (uint8_t * *pResp*, uint16_t *respLen*)

Powers down the card unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.33 int unpack_uim_SLQSUIMPowerUp (uint8_t * *pResp*, uint16_t *respLen*)

Powers up the card unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.34 int unpack_uim_SLQSUIMRefreshCallback_Ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_uim_SLQSUIMRefreshCallback_Ind_t * *pOutput*)

Unpack UIM refresh event indication.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.35 int unpack_uim_SLQSUIMRefreshComplete (uint8_t * *pResp*, uint16_t *respLen*)

Enables the terminal response to be sent to the card When the client finished Refresh procedure unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.36 int unpack_uim_SLQSUIMRefreshGetLastEvent (uint8_t * *pResp*, uint16_t *respLen*, **unpack_uim_SLQSUIMRefreshGetLastEvent_t** * *pOutput*)

Retrieve the last refresh event unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.37 int unpack_uim_SLQSUIMRefreshOK (uint8_t * *pResp*, uint16_t *respLen*)

Enables the client to indicate whether it is OK to start the Refresh procedure unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.38 int unpack_uim_SLQSUIMRefreshRegister (uint8_t * *pResp*, uint16_t *respLen*)

Registers for file change notifications triggered by the card unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.39 int unpack_uim_SLQSUIMReset (uint8_t * *pResp*, uint16_t *respLen*)

Resets the issuing control points state kept by the service unpack.

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.40 int unpack_uim_SLQSUIMSetStatusChangeCallBack_ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_uim_SLQSUIMSetStatusChangeCallBack_ind_t * *pOutput*)

UIM Status Change indication unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

use pack_uim_SLQSUIMEventRegister to subscribe

9.62.2.41 int unpack_uim_SLQSUIMSwitchSlot (uint8_t * *pResp*, uint16_t *respLen*)

switch slot unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.42 int unpack_uim_UnblockPin (uint8_t * *pResp*, uint16_t *respLen*, **unpack_uim_UnblockPin_t** * *pOutput*)

Unblock Pin unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.62.2.43 int unpack_uim_VerifyPin (uint8_t * *pResp*, uint16_t *respLen*, **unpack_uim_VerifyPin_t** * *pOutput*)

Verify Pin unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	qmi response length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63 voice.h File Reference

Data Structures

- struct voice_USSInfo
- struct pack_voice_OriginateUSSD_t
- struct pack_voice_AnswerUSSD_t
- struct voice_UUSInfo
- struct voice_CUGInfo
- struct voice_calledPartySubAdd
- struct pack_voice_SLQSVoiceDialCall_t
- struct voice_alphaIDInfo
- struct voice_ccSUPSType
- struct unpack_voice_SLQSVoiceDialCall_t
- struct pack_voice_SLQSVoiceEndCall_t
- struct unpack_voice_SLQSVoiceEndCall_t
- struct voice_callFwdTypeAndPlan
- struct pack_voice_SLQSVoiceSetSUPSService_t
- struct unpack_voice_SLQSVoiceSetSUPSService_t
- struct voice_airTimer
- struct voice_roamTimer
- struct voice_prefVoiceSO
- struct pack_voice_SLQSVoiceSetConfig_t
- struct unpack_voice_SLQSVoiceSetConfig_t
- struct pack_voice_SLQSVoiceAnswerCall_t
- struct unpack_voice_SLQSVoiceAnswerCall_t
- struct voice_CLIRResp
- struct unpack_voice_SLQSVoiceGetCLIR_t
- struct voice_CLIPResp
- struct unpack_voice_SLQSVoiceGetCLIP_t
- struct pack_voice_SLQSVoiceGetCallWaiting_t
- struct unpack_voice_SLQSVoiceGetCallWaiting_t
- struct pack_voice_SLQSVoiceGetCallBarring_t
- struct unpack_voice_SLQSVoiceGetCallBarring_t
- struct pack_voice_SLQSVoiceGetCallForwardingStatus_t
- struct voice_callFWInfo
- struct voice_callFWExtInfo
- struct voice_getCallFWInfo
- struct voice_getCallFWExtInfo
- struct unpack_voice_SLQSVoiceGetCallForwardingStatus_t
- struct pack_voice_SLQSVoiceSetCallBarringPassword_t
- struct unpack_voice_SLQSVoiceSetCallBarringPassword_t
- struct pack_voice_SLQSVoiceGetCallInfo_t
- struct voice_callInfo
- struct voice_remotePartyNum
- struct voice_remotePartyName

- struct voice_connectNumInfo
- struct voice_diagInfo
- struct unpack_voice_SLQSVoiceGetCallInfo_t
- struct voice_getAllCallInformation
- struct voice_getAllCallRmtPtyNum
- struct voice_getAllCallRmtPtyName
- struct voice_allCallsUUSInfo
- struct voice_allCallsAlphaIDInfo
- struct voice_allCallsDiagInfo
- struct voice_peerNumberInfo
- struct voice_arrCallInfo
- struct voice_arrRemotePartyNum
- struct voice_arrRemotePartyName
- struct voice_arrAlertingType
- struct voice_arrUUSInfo
- struct voice_arrSvcOption
- struct voice_arrCallEndReason
- struct voice_arrAlphaID
- struct voice_arrConnectPartyNum
- struct voice_arrDiagInfo
- struct voice_arrCalledPartyNum
- struct voice_arrRedirPartyNum
- struct voice_arrAlertingPattern
- struct unpack_voice_SLQSVoiceGetAllCallInfo_t
- struct pack_voice_SLQSVoiceManageCalls_t
- struct unpack_voice_SLQSVoiceManageCalls_t
- struct voice_burstDTMFInfo
- struct voice_DTMFLengths
- struct pack_voice_SLQSVoiceBurstDTMF_t
- struct unpack_voice_SLQSVoiceBurstDTMF_t
- struct pack_voice_SLQSVoiceStartContDTMF_t
- struct unpack_voice_SLQSVoiceStartContDTMF_t
- struct pack_voice_SLQSVoiceStopContDTMF_t
- struct unpack_voice_SLQSVoiceStopContDTMF_t
- struct pack_voice_SLQSVoiceSendFlash_t
- struct unpack_voice_SLQSVoiceSendFlash_t
- struct pack_voice_SLQSVoiceSetPreferredPrivacy_t
- struct pack_voice_SLQSVoiceIndicationRegister_t
- struct pack_voice_SLQSVoiceGetConfig_t
- struct voice_curAMRConfig
- struct unpack_voice_SLQSVoiceGetConfig_t
- struct pack_voice_SLQSVoiceOrigUSSDNoWait_t
- struct pack_voice_SLQSVoiceBindSubscription_t
- struct pack_voice_SLQSVoiceALSSetLineSwitching_t
- struct pack_voice_SLQSVoiceALSSelectLine_t
- struct voice_COLPResp
- struct unpack_voice_SLQSVoiceGetCOLP_t
- struct voice_COLRResp
- struct unpack_voice_SLQSVoiceGetCOLR_t
- struct voice_CNAPResp
- struct unpack_voice_SLQSVoiceGetCNAP_t
- struct pack_voice_SLQSOriginateUSSD_t
- struct unpack_voice_SLQSOriginateUSSD_t
- struct voice_USSDNotificationNetworkInfo
- struct unpack_voice_USSDNotificationCallback_ind_t

- struct voice_SUPSInfo
- struct voice_newPwdData
- struct unpack_voice_SLQSVoiceSUPSCallback_ind_t
- struct unpack_voice_allCallStatusCallback_ind_t
- struct unpack_voice_voicePrivacyChangeCallback_ind_t
- struct voice_DTMFInfo
- struct unpack_voice_DTMFEventCallback_ind_t
- struct voice_ECTNum
- struct unpack_voice_SUPSNotificationCallback_ind_t
- struct unpack_voice_OTASPStatusCallback_ind_t
- struct voice_signalInfo
- struct voice_callerIDInfo
- struct voice_callingPartyInfo
- struct voice_calledPartyInfo
- struct voice_redirNumInfo
- struct voice_NSSAudioCtrl
- struct voice_lineCtrlInfo
- struct voice_extDispRecInfo
- struct unpack_voice_VoiceInfoRecCallback_ind_t

Macros

- #define MAXVOICEUSSDLENGTH 182
- #define MAX_VOICE_CALL_NO_LEN 81
- #define MAX_VOICE_DESCRIPTION_LENGTH 255
- #define VOICE_MAX_NO_OF_CALLS 20
- #define BARRING_PASSWORD_LENGTH 4

Enumerations

- enum liteServiceClassInformation {
  LITE_VOICE_SUPS_SRV_CLASS_NONE = 0x00,
  LITE_VOICE_SUPS_SRV_CLASS_VOICE = 0x01,
  LITE_VOICE_SUPS_SRV_CLASS_DATA = 0x02,
  LITE_VOICE_SUPS_SRV_CLASS_FAX = 0x04,
  LITE_VOICE_SUPS_SRV_CLASS_SMS = 0x08,
  LITE_VOICE_SUPS_SRV_CLASS_DATACIRCUITSYNC = 0x10,
  LITE_VOICE_SUPS_SRV_CLASS_DATACIRCUITASYNC = 0x20,
  LITE_VOICE_SUPS_SRV_CLASS_PACKETACCESS = 0x40,
  LITE_VOICE_SUPS_SRV_CLASS_PADACCESS = 0x80 }

Functions

- int pack_voice_OriginateUSSD (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_voice_OriginateUSSD_t *reqArg)
- int unpack_voice_OriginateUSSD (uint8_t *pResp, uint16_t respLen)
- int pack_voice_AnswerUSSD (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_voice_AnswerUSSD_t *reqArg)
- int unpack_voice_AnswerUSSD (uint8_t *pResp, uint16_t respLen)
- int pack_voice_CancelUSSD (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_voice_CancelUSSD (uint8_t *pResp, uint16_t respLen)
- int pack_voice_SLQSVoiceDialCall (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_voice_SLQSVoiceDialCall_t *pReq)

- int unpack_voice_SLQSVoiceDialCall (uint8_t *pResp, uint16_t respLen, unpack_voice_SLQSVoiceDialCall_t *pOutput)
- int pack_voice_SLQSVoiceEndCall (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_voice_SLQSVoiceEndCall_t *pReq)
- int unpack_voice_SLQSVoiceEndCall (uint8_t *pResp, uint16_t respLen, unpack_voice_SLQSVoiceEndCall_t *pOutput)
- int pack_voice_SLQSVoiceSetSUPSService (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_voice_SLQSVoiceSetSUPSService_t *pReq)
- int unpack_voice_SLQSVoiceSetSUPSService (uint8_t *pResp, uint16_t respLen, unpack_voice_SLQSVoiceSetSUPSService_t *pOutput)
- int pack_voice_SLQSVoiceSetConfig (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_voice_SLQSVoiceSetConfig_t *pReq)
- int unpack_voice_SLQSVoiceSetConfig (uint8_t *pResp, uint16_t respLen, unpack_voice_SLQSVoiceSetConfig_t *pOutput)
- int pack_voice_SLQSVoiceAnswerCall (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_voice_SLQSVoiceAnswerCall_t *pReq)
- int unpack_voice_SLQSVoiceAnswerCall (uint8_t *pResp, uint16_t respLen, unpack_voice_SLQSVoiceAnswerCall_t *pOutput)
- int pack_voice_SLQSVoiceGetCLIR (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_voice_SLQSVoiceGetCLIR (uint8_t *pResp, uint16_t respLen, unpack_voice_SLQSVoiceGetCLIR_t *pOutput)
- int pack_voice_SLQSVoiceGetCLIP (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_voice_SLQSVoiceGetCLIP (uint8_t *pResp, uint16_t respLen, unpack_voice_SLQSVoiceGetCLIP_t *pOutput)
- int pack_voice_SLQSVoiceGetCallWaiting (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_voice_SLQSVoiceGetCallWaiting_t *pReq)
- int unpack_voice_SLQSVoiceGetCallWaiting (uint8_t *pResp, uint16_t respLen, unpack_voice_SLQSVoiceGetCallWaiting_t *pOutput)
- int pack_voice_SLQSVoiceGetCallBarring (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_voice_SLQSVoiceGetCallBarring_t *pReq)
- int unpack_voice_SLQSVoiceGetCallBarring (uint8_t *pResp, uint16_t respLen, unpack_voice_SLQSVoiceGetCallBarring_t *pOutput)
- int pack_voice_SLQSVoiceGetCallForwardingStatus (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_voice_SLQSVoiceGetCallForwardingStatus_t *pReq)
- int unpack_voice_SLQSVoiceGetCallForwardingStatus (uint8_t *pResp, uint16_t respLen, unpack_voice_SLQSVoiceGetCallForwardingStatus_t *pOutput)
- int pack_voice_SLQSVoiceSetCallBarringPassword (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_voice_SLQSVoiceSetCallBarringPassword_t *pReq)
- int unpack_voice_SLQSVoiceSetCallBarringPassword (uint8_t *pResp, uint16_t respLen, unpack_voice_SLQSVoiceSetCallBarringPassword_t *pOutput)
- int pack_voice_SLQSVoiceGetCallInfo (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_voice_SLQSVoiceGetCallInfo_t *pReq)
- int unpack_voice_SLQSVoiceGetCallInfo (uint8_t *pResp, uint16_t respLen, unpack_voice_SLQSVoiceGetCallInfo_t *pOutput)
- int pack_voice_SLQSVoiceGetAllCallInfo (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_voice_SLQSVoiceGetAllCallInfo (uint8_t *pResp, uint16_t respLen, unpack_voice_SLQSVoiceGetAllCallInfo_t *pOutput)
- int pack_voice_SLQSVoiceManageCalls (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_voice_SLQSVoiceManageCalls_t *pReq)
- int unpack_voice_SLQSVoiceManageCalls (uint8_t *pResp, uint16_t respLen, unpack_voice_SLQSVoiceManageCalls_t *pOutput)
- int pack_voice_SLQSVoiceBurstDTMF (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_voice_SLQSVoiceBurstDTMF_t *pReq)
- int unpack_voice_SLQSVoiceBurstDTMF (uint8_t *pResp, uint16_t respLen, unpack_voice_SLQSVoiceBurstDTMF_t *pOutput)
- int pack_voice_SLQSVoiceStartContDTMF (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_voice_SLQSVoiceStartContDTMF_t *pReq)

- int unpack_voice_SLQSVoiceStartContDTMF (uint8_t *pResp, uint16_t respLen, unpack_voice_SLQSVoiceStartContDTMF_t *pOutput)
- int pack_voice_SLQSVoiceStopContDTMF (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_voice_SLQSVoiceStopContDTMF_t *pReq)
- int unpack_voice_SLQSVoiceStopContDTMF (uint8_t *pResp, uint16_t respLen, unpack_voice_SLQSVoiceStopContDTMF_t *pOutput)
- int pack_voice_SLQSVoiceSendFlash (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_voice_SLQSVoiceSendFlash_t *pReq)
- int unpack_voice_SLQSVoiceSendFlash (uint8_t *pResp, uint16_t respLen, unpack_voice_SLQSVoiceSendFlash_t *pOutput)
- int pack_voice_SLQSVoiceSetPreferredPrivacy (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_voice_SLQSVoiceSetPreferredPrivacy_t *reqArg)
- int unpack_voice_SLQSVoiceSetPreferredPrivacy (uint8_t *pResp, uint16_t respLen)
- int pack_voice_SLQSVoiceIndicationRegister (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_voice_SLQSVoiceIndicationRegister_t *reqArg)
- int unpack_voice_SLQSVoiceIndicationRegister (uint8_t *pResp, uint16_t respLen)
- int pack_voice_SLQSVoiceGetConfig (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_voice_SLQSVoiceGetConfig_t *reqArg)
- int unpack_voice_SLQSVoiceGetConfig (uint8_t *pResp, uint16_t respLen, unpack_voice_SLQSVoiceGetConfig_t *pOutput)
- int pack_voice_SLQSVoiceOrigUSSDNoWait (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_voice_SLQSVoiceOrigUSSDNoWait_t *reqArg)
- int unpack_voice_SLQSVoiceOrigUSSDNoWait (uint8_t *pResp, uint16_t respLen)
- int pack_voice_SLQSVoiceBindSubscription (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_voice_SLQSVoiceBindSubscription_t *reqArg)
- int unpack_voice_SLQSVoiceBindSubscription (uint8_t *pResp, uint16_t respLen)
- int pack_voice_SLQSVoiceALSSetLineSwitching (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_voice_SLQSVoiceALSSetLineSwitching_t *reqArg)
- int unpack_voice_SLQSVoiceALSSetLineSwitching (uint8_t *pResp, uint16_t respLen)
- int pack_voice_SLQSVoiceALSSelectLine (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_voice_SLQSVoiceALSSelectLine_t *reqArg)
- int unpack_voice_SLQSVoiceALSSelectLine (uint8_t *pResp, uint16_t respLen)
- int pack_voice_SLQSVoiceGetCOLP (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_voice_SLQSVoiceGetCOLP (uint8_t *pResp, uint16_t respLen, unpack_voice_SLQSVoiceGetCOLP_t *pOutput)
- int pack_voice_SLQSVoiceGetCOLR (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_voice_SLQSVoiceGetCOLR (uint8_t *pResp, uint16_t respLen, unpack_voice_SLQSVoiceGetCOLR_t *pOutput)
- int pack_voice_SLQSVoiceGetCNAP (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_voice_SLQSVoiceGetCNAP (uint8_t *pResp, uint16_t respLen, unpack_voice_SLQSVoiceGetCNAP_t *pOutput)
- int pack_voice_SLQSOriginateUSSD (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_voice_SLQSOriginateUSSD_t *reqArg)
- int unpack_voice_SLQSOriginateUSSD (uint8_t *pResp, uint16_t respLen, unpack_voice_SLQSOriginateUSSD_t *pOutput)
- int unpack_voice_USSDNotificationCallback_ind (uint8_t *pResp, uint16_t respLen, unpack_voice_USSDNotificationCallback_ind_t *pOutput)
- int unpack_voice_SLQSVoiceSUPSCallback_ind (uint8_t *pResp, uint16_t respLen, unpack_voice_SLQSVoiceSUPSCallback_ind_t *pOutput)
- int unpack_voice_allCallStatusCallback_ind (uint8_t *pResp, uint16_t respLen, unpack_voice_allCallStatusCallback_ind_t *pOutput)
- int unpack_voice_voicePrivacyChangeCallback_ind (uint8_t *pResp, uint16_t respLen, unpack_voice_voicePrivacyChangeCallback_ind_t *pOutput)
- int unpack_voice_DTMFEventCallback_ind (uint8_t *pResp, uint16_t respLen, unpack_voice_DTMFEventCallback_ind_t *pOutput)

- int unpack_voice_SUPSNotificationCallback_ind (uint8_t *pResp, uint16_t respLen, unpack_voice_SUPSNotificationCallback_ind_t *pOutput)
- int unpack_voice_OTASPStatusCallback_ind (uint8_t *pResp, uint16_t respLen, unpack_voice_OTASPStatusCallback_ind_t *pOutput)
- int unpack_voice_VoiceInfoRecCallback_ind (uint8_t *pResp, uint16_t respLen, unpack_voice_VoiceInfoRecCallback_ind_t *pOutput)

9.63.1 Detailed Description

9.63.2 S1

- 3GPP Mobile Radio Interface Layer 3 Specification : Core Network Protocols; Stage 3 (Release 7)
- 3GPP TS 24.008 V7.0.0 (2005-06)

9.63.3 Macro Definition Documentation

9.63.3.1 #define BARRING_PASSWORD_LENGTH 4

9.63.3.2 #define MAX_VOICE_CALL_NO_LEN 81

9.63.3.3 #define MAX_VOICE_DESCRIPTION_LENGTH 255

9.63.3.4 #define MAXVOICEUSSDLENGTH 182

9.63.3.5 #define VOICE_MAX_NO_OF_CALLS 20

9.63.4 Enumeration Type Documentation

9.63.4.1 enum liteServiceClassInformation

Service Class information

Enumerator

LITE_VOICE_SUPS_SRV_CLASS_NONE
LITE_VOICE_SUPS_SRV_CLASS_VOICE
LITE_VOICE_SUPS_SRV_CLASS_DATA
LITE_VOICE_SUPS_SRV_CLASS_FAX
LITE_VOICE_SUPS_SRV_CLASS_SMS
LITE_VOICE_SUPS_SRV_CLASS_DATACIRCUITSYNC
LITE_VOICE_SUPS_SRV_CLASS_DATACIRCUITASYNC
LITE_VOICE_SUPS_SRV_CLASS_PACKETACCESS
LITE_VOICE_SUPS_SRV_CLASS_PADACCESS

9.63.5 Function Documentation

9.63.5.1 int pack_voice_AnswerUSSD (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_voice_AnswerUSSD_t * *reqArg*)

Responds to a USSD request from the network pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.2 int pack_voice_CancelUSSD (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Cancels an in-progress USSD operation pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.3 int pack_voice_OriginateUSSD (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_voice_OriginateUSSD_t * *reqArg*)

Initiates a USSD operation pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.4 int pack_voice_SLQSOriginateUSSD (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_voice_SLQSOriginateUSSD_t * reqArg)

Initiates a USSD session pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.5 int pack_voice_SLQSVoiceALSSelectLine (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_voice_SLQSVoiceALSSelectLine_t * reqArg)

allows the user to select the preferred line pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.6 int pack_voice_SLQSVoiceALSSetLineSwitching (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_voice_SLQSVoiceALSSetLineSwitching_t * reqArg)

sets the line switch setting on the card pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.7 int pack_voice_SLQSVoiceAnswerCall (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_voice_SLQSVoiceAnswerCall_t * *pReq*)

Answers an incoming voice call pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReq*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.8 int pack_voice_SLQSVoiceBindSubscription (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_voice_SLQSVoiceBindSubscription_t * *reqArg*)

binds a subscription type to a specific voice client ID pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.9 int pack_voice_SLQSVoiceBurstDTMF (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_voice_SLQSVoiceBurstDTMF_t * *pReq*)

Sends a burst Dual-Tone Multi frequency (DTMF) pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReq*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.10 int pack_voice_SLQSVoiceDialCall (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_voice_SLQSVoiceDialCall_t * *pReq*)

Originates a voice call (MO call) pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReq*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.11 int pack_voice_SLQSVoiceEndCall (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_voice_SLQSVoiceEndCall_t * *pReq*)

Ends a voice call pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReq*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.12 int pack_voice_SLQSVoiceGetAllCallInfo (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen)

information associated with all the calls originating or terminating pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.13 int pack_voice_SLQSVoiceGetCallBarring (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_voice_SLQSVoiceGetCallBarring_t * pReq)

Status of Call Barring Supplementary Service pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReq*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.14 int pack_voice_SLQSVoiceGetCallForwardingStatus (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_voice_SLQSVoiceGetCallForwardingStatus_t * pReq)

Status of Call Forwarding Supplementary Service pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReq*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.15 int pack_voice_SLQSVoiceGetCallInfo (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_voice_SLQSVoiceGetCallInfo_t * *pReq*)

information associated with a call pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReq*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.16 int pack_voice_SLQSVoiceGetCallWaiting (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_voice_SLQSVoiceGetCallWaiting_t * *pReq*)

Status of Call Waiting Supplementary Service pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReq*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.17 int pack_voice_SLQSVoiceGetCLIP (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

status of the Calling Line Identification Presentation (CLIP) pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.18 int pack_voice_SLQSVoiceGetCLIR (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

status of the Calling Line Identification Restriction (CLIR) pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.19 int pack_voice_SLQSVoiceGetCNAP (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

status of the Calling Name Presentation(CNAP) pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.20 int pack_voice_SLQSVoiceGetCOLP (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

status of the Connected Line Identification Presentation pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.21 int pack_voice_SLQSVoiceGetCOLR (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

status of the Connected Line Identification Restriction pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.22 int pack_voice_SLQSVoiceGetConfig (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_voice_SLQSVoiceGetConfig_t * *reqArg*)

retrieves various configuration parameters that control the modem behavior pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.23 int pack_voice_SLQSVoiceIndicationRegister (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_voice_SLQSVoiceIndicationRegister_t * *reqArg*)

Sets the registration state for different QMI_VOICE indications pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.24 int pack_voice_SLQSVoiceManageCalls (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_voice_SLQSVoiceManageCalls_t * *pReq*)

Manages the calls by using the supplementary service pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReq*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.25 int pack_voice_SLQSVoiceOrigUSSDNoWait (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_voice_SLQSVoiceOrigUSSDNoWait_t * *reqArg*)

initiates a USSD operation No Wait pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.26 int pack_voice_SLQSVoiceSendFlash (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_voice_SLQSVoiceSendFlash_t * pReq)

sends a simple flash message pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReq*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.27 int pack_voice_SLQSVoiceSetCallBarringPassword (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_voice_SLQSVoiceSetCallBarringPassword_t * pReq)

Sets a Call Barring Password pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReq*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.28 int pack_voice_SLQSVoiceSetConfig (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_voice_SLQSVoiceSetConfig_t * pReq)

configuration parameters that control the modem behavior pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReq*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.29 int pack_voice_SLQSVoiceSetPreferredPrivacy (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_voice_SLQSVoiceSetPreferredPrivacy_t * *reqArg*)

sets the voice privacy preference pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.30 int pack_voice_SLQSVoiceSetSUPSService (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_voice_SLQSVoiceSetSUPSService_t * *pReq*)

call-independent supplementary services pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReq*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.31 int pack_voice_SLQSVoiceStartContDTMF (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_voice_SLQSVoiceStartContDTMF_t * *pReq*)

Starts a continuous DTMF pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReq*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.32 int pack_voice_SLQSVoiceStopContDTMF (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_voice_SLQSVoiceStopContDTMF_t * *pReq*)

Stops a continuous DTMF pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReq*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.33 int unpack_voice_allCallStatusCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_allCallStatusCallback_ind_t * *pOutput*)

Unpack all call status callback indication.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	all call status callback unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.34 int unpack_voice_AnswerUSSD (uint8_t * *pResp*, uint16_t *respLen*)

Responds to a USSD request from the network unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.35 int unpack_voice_CancelUSSD (uint8_t * *pResp*, uint16_t *respLen*)

Cancels an in-progress USSD operation unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.36 int unpack_voice_DTMFEventCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_DTMFEventCallback_ind_t * *pOutput*)

Unpack DTMF event callback indication.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	DTMF event callback unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.37 int unpack_voice_OriginateUSSD (uint8_t * *pResp*, uint16_t *respLen*)

Initiates a USSD operation unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.38 int unpack_voice_OTASPStatusCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_OTASPStatusCallback_ind_t * *pOutput*)

Unpack voice OTASP status callback indication.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	voice OTASP status callback unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.39 int unpack_voice_SLQSOriginateUSSD (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_SLQSOriginateUSSD_t * *pOutput*)

Initiates a USSD session unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.40 int unpack_voice_SLQSVoiceALSSelectLine (uint8_t * *pResp*, uint16_t *respLen*)

allows the user to select the preferred line unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.41 int unpack_voice_SLQSVoiceALSSetLineSwitching (uint8_t * *pResp*, uint16_t *respLen*)

sets the line switch setting on the card unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.42 int unpack_voice_SLQSVoiceAnswerCall (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_SLQSVoiceAnswerCall_t * *pOutput*)

Answers an incoming voice call unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.43 int unpack_voice_SLQSVoiceBindSubscription (uint8_t * *pResp*, uint16_t *respLen*)

binds a subscription type to a specific voice client ID unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.44 int unpack_voice_SLQSVoiceBurstDTMF (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_SLQSVoiceBurstDTMF_t * *pOutput*)

Sends a burst Dual-Tone Multi frequency (DTMF) unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.45 int unpack_voice_SLQSVoiceDialCall (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_SLQSVoiceDialCall_t * *pOutput*)

Originates a voice call (MO call) unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.46 int unpack_voice_SLQSVoiceEndCall (uint8_t * *pResp*, uint16_t *respLen*, **unpack_voice_SLQSVoiceEndCall_t** * *pOutput*)

Ends a voice call unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.47 int unpack_voice_SLQSVoiceGetAllCallInfo (uint8_t * *pResp*, uint16_t *respLen*, **unpack_voice_SLQSVoiceGetAllCallInfo_t** * *pOutput*)

information associated with all the calls originating or terminating unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.48 int unpack_voice_SLQSVoiceGetCallBarring (uint8_t * *pResp*, uint16_t *respLen*, **unpack_voice_SLQSVoiceGetCallBarring_t** * *pOutput*)

Status of Call Barring Supplementary Service unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.49 int unpack_voice_SLQSVoiceGetCallForwardingStatus (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_SLQSVoiceGetCallForwardingStatus_t * *pOutput*)

Status of Call Forwarding Supplementary Service unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.50 int unpack_voice_SLQSVoiceGetCallInfo (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_SLQSVoiceGetCallInfo_t * *pOutput*)

information associated with a call unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.51 int unpack_voice_SLQSVoiceGetCallWaiting (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_SLQSVoiceGetCallWaiting_t * *pOutput*)

Status of Call Waiting Supplementary Service unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.52 int unpack_voice_SLQSVoiceGetCLIP (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_SLQSVoiceGetCLIP_t * *pOutput*)

status of the Calling Line Identification Presentation (CLIP) unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.53 int unpack_voice_SLQSVoiceGetCLIR (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_SLQSVoiceGetCLIR_t * *pOutput*)

status of the Calling Line Identification Restriction (CLIR) unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.54 int unpack_voice_SLQSVoiceGetCNAP (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_SLQSVoiceGetCNAP_t * *pOutput*)

status of the Calling Name Presentation(CNAP) unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.55 int unpack_voice_SLQSVoiceGetCOLP (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_SLQSVoiceGetCOLP_t * *pOutput*)

status of the Connected Line Identification Presentation unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.56 int unpack_voice_SLQSVoiceGetCOLR (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_SLQSVoiceGetCOLR_t * *pOutput*)

status of the Connected Line Identification Restriction unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.57 int unpack_voice_SLQSVoiceGetConfig (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_SLQSVoiceGetConfig_t * *pOutput*)

retrieves various configuration parameters that control the modem behavior unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.58 int unpack_voice_SLQSVoiceIndicationRegister (uint8_t * *pResp*, uint16_t *respLen*)

Sets the registration state for different QMI_VOICE indications unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.59 int unpack_voice_SLQSVoiceManageCalls (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_SLQSVoiceManageCalls_t * *pOutput*)

Manages the calls by using the supplementary service unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.60 int unpack_voice_SLQSVoiceOrigUSSDNoWait (uint8_t * *pResp*, uint16_t *respLen*)

initiates a USSD operation No Wait unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.61 int unpack_voice_SLQSVoiceSendFlash (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_SLQSVoiceSendFlash_t * *pOutput*)

sends a simple flash message unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.62 int unpack_voice_SLQSVoiceSetCallBarringPassword (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_SLQSVoiceSetCallBarringPassword_t * *pOutput*)

Sets a Call Barring Password unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.63 int unpack_voice_SLQSVoiceSetConfig (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_SLQSVoiceSetConfig_t * *pOutput*)

configuration parameters that control the modem behavior unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.64 int unpack_voice_SLQSVoiceSetPreferredPrivacy (uint8_t * *pResp*, uint16_t *respLen*)

sets the voice privacy preference unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.65 int unpack_voice_SLQSVoiceSetSUPSService (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_SLQSVoiceSetSUPSService_t * *pOutput*)

call-independent supplementary services unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.66 int unpack_voice_SLQSVoiceStartContDTMF (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_SLQSVoiceStartContDTMF_t * *pOutput*)

Starts a continuous DTMF unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.67 int unpack_voice_SLQSVoiceStopContDTMF (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_SLQSVoiceStopContDTMF_t * *pOutput*)

Stops a continuous DTMF unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

Note

return eQCWWAN_ERR_NULL_TLV then callID value is invalid.

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.68 int unpack_voice_SLQSVoiceSUPSCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_SLQSVoiceSUPSCallback_ind_t * *pOutput*)

Unpack voice sups callback indication.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	voice susp callback unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.69 int unpack_voice_SUPSNotificationCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_SUPSNotificationCallback_ind_t * *pOutput*)

Unpack SUPS notification callback indication.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	SUPS notification callback unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.70 int unpack_voice_USSDNotificationCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_voice_USSDNotificationCallback_ind_t** * *pOutput*)

Unpack USSD notification callback indication.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	USSD notification unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.71 int unpack_voice_VoiceInfoRecCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_voice_VoiceInfoRecCallback_ind_t** * *pOutput*)

Unpack SUPS notification callback indication.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	SUPS notification callback unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.63.5.72 int unpack_voice_voicePrivacyChangeCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_voice_voicePrivacyChangeCallback_ind_t * *pOutput*)

Unpack voice privacy change callback indication.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	voice privacy change callback unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64 wds.h File Reference

Data Structures

- struct LibPackQosClassID
- struct LibPackTFTIDParams
- struct LibPackGPRSRequestedQoS
- struct LibPackUMTSQoS
- struct LibPackUMTSReqQoSSigInd
- struct pack_wds_SLQSStartDataSession_t
- struct unpack_wds_SLQSStartDataSession_t
- struct unpack_wds_SLQSSetPacketSrvStatusCallback_t
- struct pack_wds_SLQSStopDataSession_t
- struct wds_ProfileIdentifier
- struct wds_GPRSQoS
- struct wds_PCSCFIPv4ServerAddressList
- struct wds_PCSCFFQDNAddress
- struct wds_PCSCFFQDNAddressList
- struct wds_Domain
- struct wds_DomainNameList
- struct wds_IPV6AddressInfo
- struct wds_IPV6GWAddressInfo
- struct unpack_wds_SLQSGetRuntimeSettings_t
- struct wds_currNetworkInfo
- struct unpack_wds_SLQSSetWdsEventCallback_ind_t
- struct pack_wds_SLQSSetWdsEventCallback_t
- struct pack_wds_SLQSGetRuntimeSettings_t
- struct wds_UMTSMinQoS
- struct LibPackprofile_3GPP
- struct LibPackprofile_3GPP2
- union wds_profileInfo
- struct pack_wds_SLQSCreateProfile_t
- struct PackCreateProfileOut
- struct unpack_wds_SLQSCreateProfile_t
- struct pack_wds_SLQSModifyProfile_t

- struct unpack_wds_SLQSModifyProfile_t
- struct pack_wds_SLQSGetProfileSettings_t
- struct LibpackProfile3GPP
- struct LibpackProfile3GPP2
- union unpackWdsProfileParam
- struct UnPackGetProfileSettingOut
- struct unpack_wds_SLQSGetProfileSettings_t
- struct unpack_wds_GetSessionState_t
- struct pack_wds_GetDefaultProfile_t
- struct unpack_wds_GetDefaultProfile_t
- struct unpack_wds_GetConnectionRate_t
- struct pack_wds_GetPacketStatus_t
- struct unpack_wds_GetPacketStatus_t
- struct unpack_wds_GetSessionDuration_t
- struct pack_wds_GetSessionDuration_t
- struct unpack_wds_GetDormancyState_t
- struct pack_wds_GetDormancyState_t
- struct pack_wds_SLQSDeleteProfile_t
- struct unpack_wds_SLQSDeleteProfile_t
- struct pack_wds_SetDefaultProfile_t
- struct unpack_wds_SLQSGet3GPPConfigItem_t
- struct pack_wds_SLQSSet3GPPConfigItem_t
- struct unpack_wds_GetMobileIP_t
- struct pack_wds_GetMobileIP_t
- struct pack_wds_GetMobileIPProfile_t
- struct unpack_wds_GetMobileIPProfile_t
- struct currNetworkInfo
- struct unpack_wds_SLQSGetCurrDataSystemStat_t
- struct pack_wds_SLQSGetCurrDataSystemStat_t
- struct unpack_wds_GetLastMobileIPError_t
- struct pack_wds_GetLastMobileIPError_t
- struct rmTrasnferStaticsReq
- struct pack_wds_RMSetTransferStatistics_t
- struct unpack_wds_RMSetTransferStatistics_t
- struct pack_wds_SetMobileIPProfile_t
- struct unpack_wds_SetMobileIPProfile_t
- struct pack_wds_SLQSWdsSwiPDPRuntimeSettings_t
- struct ipv6AddressInfo
- struct unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t
- struct wds_transferStatInd
- struct pack_wds_SLQSGetDUNCallInfo_t
- struct connectionStatus
- struct dunchannelRate
- struct unpack_wds_SLQSGetDUNCallInfo_t
- struct qmiWDSDataBearerTechnology
- struct unpack_wds_SLQSGetDataBearerTechnology_t
- struct pack_wds_SLQSGetDataBearerTechnology_t
- struct pack_wds_SLQSSetIPFamilyPreference_t
- struct unpack_wds_SLQSSetIPFamilyPreference_t
- struct pack_wds_SetDefaultProfileNum_t
- struct pack_wds_GetDefaultProfileNum_t
- struct unpack_wds_GetDefaultProfileNum_t
- struct wdsDhcpv4ProfileId
- struct wdsDhcpv4HwConfig
- struct wdsDhcpv4Option

- struct wdsDhcpv4OptionList
- struct pack_wds_SLQSSGetDHCPv4ClientConfig_t
- struct unpack_wds_SLQSSGetDHCPv4ClientConfig_t
- struct pack_wds_GetPacketStatistics_t
- struct unpack_wds_GetPacketStatistics_t
- struct unpack_wds_GetByteTotals_t
- struct unpack_wds_SLQSGetCurrentChannelRate_t
- struct unpack_wds_SLQSSGetLoopback_t
- struct pack_wds_SLQSSSetLoopback_t
- struct wds_DataULongTlv
- struct wds_DataULongLongTlv
- struct unpack_RMTransferStatistics_ind_t
- struct pack_wds_DHCPv4ClientLeaseChange_t
- struct wds_DHCPProfileIdTlv
- struct wds_DHCPLeaseStateTlv
- struct wds_IPv4AdTlv
- struct wds_DHCPOpt
- struct wds_DHCPLeaseOptTlv
- struct unpack_wds_DHCPv4ClientLease_ind_t
- struct pack_wds_SetMobileIP_t
- struct pack_wds_SetMobileIPParameters_t
- struct pack_wds_SetAutoconnect_t
- struct unpack_wds_GetAutoconnect_t
- struct wds_TrStatInd
- struct pack_wds_SLQSWdsSetEventReport_t
- struct wds_DHCPv4ProfileId
- struct wds_DHCPv4HWConfig
- struct wds_DHCPv4Option
- struct wds_DHCPv4OptionList
- struct pack_wds_SLQSSSetDHCPv4ClientConfig_t
- struct unpack_wds_GetDataBearerTechnology_t
- struct wds_ConnStatusTlv
- struct wds_LastMdmCallEndRsnTlv
- struct wds_TXBytesOKTlv
- struct wds_RXBytesOKTlv
- struct wds_DormStatTlv
- struct wds_DataBearTechTlv
- struct wds_channelRate
- struct wds_ChannelRateTlv
- struct unpack_wds_SLQSDUNCallInfoCallBack_ind_t

Macros

- #define IPV6_ADDRESS_ARRAY_SIZE 8
- #define MAX_WDS_3GPP_CONF_LTE_ATTACH_PROFILE_LIST_SIZE 24
- #define PACK_WDS_IPV4 4
- #define PACK_WDS_IPV6 6
- #define BYT_STAT_STAT_MASK 0X000000C0
- #define WDS_DHCP_MAX_NUM_OPTIONS 30
- #define WDS_DHCP_OPTION_DATA_BUF_SIZE 2048 /∗ current max size of raw message in SDK process is 2048 ∗/

Typedefs

- typedef union unpackWdsProfileParam UnpackQmiProfileInfo

Enumerations

- enum liteQmiDataBearerMasks {
  QMI_LITE_WDS_CURRENT_CALL_DB_MASK = 0x01,
  QMI_LITE_WDS_LAST_CALL_DB_MASK = 0x02 }

Functions

- int pack_wds_SLQSStartDataSession (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_SLQSStartDataSession_t *reqArg)
- int unpack_wds_SLQSStartDataSession (uint8_t *pResp, uint16_t respLen, unpack_wds_SLQSStartDataSession_t *pOutput)
- int unpack_wds_SLQSSetPacketSrvStatusCallback (uint8_t *pResp, uint16_t respLen, unpack_wds_SLQSSetPacketSrvStatusCallback_t *pOutput)
- int pack_wds_SLQSStopDataSession (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_SLQSStopDataSession_t *reqArg)
- int unpack_wds_SLQSStopDataSession (uint8_t *pResp, uint16_t respLen)
- int unpack_wds_SLQSGetRuntimeSettings (uint8_t *pResp, uint16_t respLen, unpack_wds_SLQSGetRuntimeSettings_t *pOutput)
- int unpack_wds_SLQSSetWdsEventCallback_ind (uint8_t *pResp, uint16_t respLen, unpack_wds_SLQSSetWdsEventCallback_ind_t *pOutput)
- int unpack_wds_SLQSSetWdsEventCallback (uint8_t *pResp, uint16_t respLen)
- int pack_wds_SLQSSetWdsEventCallback (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_SLQSSetWdsEventCallback_t *reqArg)
- int pack_wds_SLQSGetRuntimeSettings (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_SLQSGetRuntimeSettings_t *reqArg)
- int pack_wds_SLQSCreateProfile (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_SLQSCreateProfile_t *reqArg)
- int unpack_wds_SLQSCreateProfile (uint8_t *pResp, uint16_t respLen, unpack_wds_SLQSCreateProfile_t *pOutput)
- int pack_wds_SLQSModifyProfile (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_SLQSModifyProfile_t *reqArg)
- int unpack_wds_SLQSModifyProfile (uint8_t *pResp, uint16_t respLen, unpack_wds_SLQSModifyProfile_t *pOutput)
- int pack_wds_SLQSGetProfileSettings (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_SLQSGetProfileSettings_t *reqArg)
- int unpack_wds_SLQSGetProfileSettings (uint8_t *pResp, uint16_t respLen, unpack_wds_SLQSGetProfileSettings_t *pOutput)
- int pack_wds_GetSessionState (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_wds_GetSessionState (uint8_t *pResp, uint16_t respLen, unpack_wds_GetSessionState_t *pOutput)
- int pack_wds_GetDefaultProfile (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_GetDefaultProfile_t *reqParam)
- int unpack_wds_GetDefaultProfile (uint8_t *pResp, uint16_t respLen, unpack_wds_GetDefaultProfile_t *pOutput)
- int pack_wds_GetConnectionRate (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_wds_GetConnectionRate (uint8_t *pResp, uint16_t respLen, unpack_wds_GetConnectionRate_t *pOutput)
- int pack_wds_GetPacketStatus (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_GetPacketStatus_t *reqParam)

- int unpack_wds_GetPacketStatus (uint8_t *pResp, uint16_t respLen, unpack_wds_GetPacketStatus_t *pOutput)
- int pack_wds_GetSessionDuration (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_GetSessionDuration_t *reqParam)
- int unpack_wds_GetSessionDuration (uint8_t *pResp, uint16_t respLen, unpack_wds_GetSessionDuration_t *pOutput)
- int pack_wds_GetDormancyState (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_GetDormancyState_t *reqParam)
- int unpack_wds_GetDormancyState (uint8_t *pResp, uint16_t respLen, unpack_wds_GetDormancyState_t *pOutput)
- int pack_wds_SLQSDeleteProfile (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_SLQSDeleteProfile_t *reqParam)
- int unpack_wds_SLQSDeleteProfile (uint8_t *pResp, uint16_t respLen, unpack_wds_SLQSDeleteProfile_t *pOutput)
- int pack_wds_SetDefaultProfile (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_SetDefaultProfile_t *reqParam)
- int unpack_wds_SetDefaultProfile (uint8_t *pResp, uint16_t respLen)
- int pack_wds_SLQSGet3GPPConfigItem (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_wds_SLQSGet3GPPConfigItem (uint8_t *pResp, uint16_t respLen, unpack_wds_SLQSGet3GPPConfigItem_t *pOutput)
- int pack_wds_SLQSSet3GPPConfigItem (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_SLQSSet3GPPConfigItem_t *reqParam)
- int unpack_wds_SLQSSet3GPPConfigItem (uint8_t *pResp, uint16_t respLen)
- int pack_wds_GetMobileIP (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_GetMobileIP_t *pReqParam)
- int unpack_wds_GetMobileIP (uint8_t *pResp, uint16_t respLen, unpack_wds_GetMobileIP_t *pOutput)
- int pack_wds_GetMobileIPProfile (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_GetMobileIPProfile_t *reqParam)
- int unpack_wds_GetMobileIPProfile (uint8_t *pResp, uint16_t respLen, unpack_wds_GetMobileIPProfile_t *pOutput)
- int pack_wds_SLQSGetCurrDataSystemStat (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_SLQSGetCurrDataSystemStat_t *pReqParam)
- int unpack_wds_SLQSGetCurrDataSystemStat (uint8_t *pResp, uint16_t respLen, unpack_wds_SLQSGetCurrDataSystemStat_t *pOutput)
- int pack_wds_GetLastMobileIPError (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_GetLastMobileIPError_t *pReqParam)
- int unpack_wds_GetLastMobileIPError (uint8_t *pResp, uint16_t respLen, unpack_wds_GetLastMobileIPError_t *pOutput)
- int pack_wds_RMSetTransferStatistics (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_RMSetTransferStatistics_t *reqParam)
- int unpack_wds_RMSetTransferStatistics (uint8_t *pResp, uint16_t respLen, unpack_wds_RMSetTransferStatistics_t *pOutput)
- int pack_wds_SetMobileIPProfile (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_SetMobileIPProfile_t *reqParam)
- int unpack_wds_SetMobileIPProfile (uint8_t *pResp, uint16_t respLen, unpack_wds_SetMobileIPProfile_t *pOutput)
- int pack_wds_SLQSWdsSwiPDPRuntimeSettings (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_SLQSWdsSwiPDPRuntimeSettings_t *reqParam)
- int unpack_wds_SLQSWdsSwiPDPRuntimeSettings (uint8_t *pResp, uint16_t respLen, unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t *pOutput)
- int pack_wds_SLQSGetDUNCallInfo (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_SLQSGetDUNCallInfo_t *reqParam)
- int unpack_wds_SLQSGetDUNCallInfo (uint8_t *pResp, uint16_t respLen, unpack_wds_SLQSGetDUNCallInfo_t *pOutput)
- int pack_wds_SLQSGetDataBearerTechnology (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_SLQSGetDataBearerTechnology_t *pReqParam)

- int unpack_wds_SLQSGetDataBearerTechnology (uint8_t *pResp, uint16_t respLen, unpack_wds_SLQSGetDataBearerTechnology_t *pOutput)
- int pack_wds_SLQSSetIPFamilyPreference (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_SLQSSetIPFamilyPreference_t *pReqParam)
- int unpack_wds_SLQSSetIPFamilyPreference (uint8_t *pResp, uint16_t respLen, unpack_wds_SLQSSetIPFamilyPreference_t *pOutput)
- int pack_wds_SetDefaultProfileNum (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_SetDefaultProfileNum_t *pReqParam)
- int unpack_wds_SetDefaultProfileNum (uint8_t *pResp, uint16_t respLen)
- int pack_wds_GetDefaultProfileNum (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_GetDefaultProfileNum_t *pReqParam)
- int unpack_wds_GetDefaultProfileNum (uint8_t *pResp, uint16_t respLen, unpack_wds_GetDefaultProfileNum_t *pOutput)
- int pack_wds_SLQSSGetDHCPv4ClientConfig (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_SLQSSGetDHCPv4ClientConfig_t *pReq)
- int unpack_wds_SLQSSGetDHCPv4ClientConfig (uint8_t *pResp, uint16_t respLen, unpack_wds_SLQSSGetDHCPv4ClientConfig_t *pOutput)
- int pack_wds_GetPacketStatistics (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_GetPacketStatistics_t *pReq)
- int unpack_wds_GetPacketStatistics (uint8_t *pResp, uint16_t respLen, unpack_wds_GetPacketStatistics_t *pOutput)
- int pack_wds_GetByteTotals (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_wds_GetByteTotals (uint8_t *pResp, uint16_t respLen, unpack_wds_GetByteTotals_t *pOutput)
- int pack_wds_SLQSGetCurrentChannelRate (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_wds_SLQSGetCurrentChannelRate (uint8_t *pResp, uint16_t respLen, unpack_wds_SLQSGetCurrentChannelRate_t *pOutput)
- int pack_wds_SLQSSGetLoopback (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_wds_SLQSSGetLoopback (uint8_t *pResp, uint16_t respLen, unpack_wds_SLQSSGetLoopback_t *pOutput)
- int pack_wds_SLQSSSetLoopback (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_SLQSSSetLoopback_t *reqArg)
- int unpack_wds_SLQSSSetLoopback (uint8_t *pResp, uint16_t respLen)
- int unpack_wds_RMTransferStatistics_ind (uint8_t *pResp, uint16_t respLen, unpack_RMTransferStatistics_ind_t *pOutput)
- int pack_wds_DHCPv4ClientLeaseChange (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_DHCPv4ClientLeaseChange_t *reqArg)
- int unpack_wds_DHCPv4ClientLeaseChange (uint8_t *pResp, uint16_t respLen)
- int unpack_wds_DHCPv4ClientLease_ind (uint8_t *pResp, uint16_t respLen, unpack_wds_DHCPv4ClientLease_ind_t *pOutput)
- int pack_wds_SetMobileIP (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_SetMobileIP_t *reqArg)
- int unpack_wds_SetMobileIP (uint8_t *pResp, uint16_t respLen)
- int pack_wds_SetMobileIPParameters (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_SetMobileIPParameters_t *reqArg)
- int unpack_wds_SetMobileIPParameters (uint8_t *pResp, uint16_t respLen)
- int pack_wds_SetAutoconnect (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_SetAutoconnect_t *reqArg)
- int unpack_wds_SetAutoconnect (uint8_t *pResp, uint16_t respLen)
- int pack_wds_GetAutoconnect (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_wds_GetAutoconnect (uint8_t *pResp, uint16_t respLen, unpack_wds_GetAutoconnect_t *pOutput)
- int pack_wds_SLQSWdsSetEventReport (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_SLQSWdsSetEventReport_t *reqArg)
- int unpack_wds_SLQSWdsSetEventReport (uint8_t *pResp, uint16_t respLen)
- int pack_wds_SLQSWdsGoDormant (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_wds_SLQSWdsGoDormant (uint8_t *pResp, uint16_t respLen)

- int pack_wds_SLQSWdsGoActive (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_wds_SLQSWdsGoActive (uint8_t *pResp, uint16_t respLen)
- int pack_wds_SLQSResetPacketStatics (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_wds_SLQSResetPacketStatics (uint8_t *pResp, uint16_t respLen)
- int pack_wds_SLQSSSetDHCPv4ClientConfig (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, pack_wds_SLQSSSetDHCPv4ClientConfig_t *reqArg)
- int unpack_wds_SLQSSSetDHCPv4ClientConfig (uint8_t *pResp, uint16_t respLen)
- int pack_wds_GetDataBearerTechnology (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen)
- int unpack_wds_GetDataBearerTechnology (uint8_t *pResp, uint16_t respLen, unpack_wds_GetDataBearerTechnology_t *pOutput)
- int pack_wds_SetMuxID (pack_qmi_t *pCtx, uint8_t *pReqBuf, uint16_t *pLen, uint8_t *pMuxID)
- int unpack_wds_SetMuxID (uint8_t *pResp, uint16_t respLen)
- int unpack_wds_SLQSDUNCallInfoCallBack_ind (uint8_t *pResp, uint16_t respLen, unpack_wds_SLQSDUNCallInfoCallBack_ind_t *pOutput)

9.64.1 Macro Definition Documentation

9.64.1.1 #define BYT_STAT_STAT_MASK 0X000000C0

9.64.1.2 #define IPV6_ADDRESS_ARRAY_SIZE 8

9.64.1.3 #define MAX_WDS_3GPP_CONF_LTE_ATTACH_PROFILE_LIST_SIZE 24

9.64.1.4 #define PACK_WDS_IPV4 4

9.64.1.5 #define PACK_WDS_IPV6 6

9.64.1.6 #define WDS_DHCP_MAX_NUM_OPTIONS 30

9.64.1.7 #define WDS_DHCP_OPTION_DATA_BUF_SIZE 2048 /* current max size of raw message in SDK process is 2048 */

9.64.2 Typedef Documentation

9.64.2.1 typedef union unpackWdsProfileParam UnpackQmiProfileInfo

This union WdsProfileParam consists of Profile3GPP and Profile3GPP2 out of which one will be used to create profile.

Parameters

SlqsProfile3GPP	3GPP profile • See LibpackProfile3GPP
SlqsProfile3GPP2	3GPP2 profile • See LibpackProfile3GPP2

9.64.3 Enumeration Type Documentation

9.64.3.1 enum liteQmiDataBearerMasks

Bit mask values to indicate the presence of data bearer information for the current and last data calls

Enumerator

QMI_LITE_WDS_CURRENT_CALL_DB_MASK

QMI_LITE_WDS_LAST_CALL_DB_MASK

9.64.4 Function Documentation

9.64.4.1 int pack_wds_DHCPv4ClientLeaseChange (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_wds_DHCPv4ClientLeaseChange_t * *reqArg*)

DHCPv4 lease state changes pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.2 int pack_wds_GetAutoconnect (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Gets auto connect data session setting pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.3 int pack_wds_GetByteTotals (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

get Rx/Tx byte counts since the start of the last packet data session pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.4 int pack_wds_GetConnectionRate (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

get connection rate pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: No

9.64.4.5 int pack_wds_GetDataBearerTechnology (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

get current data bearer technology pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.6 int pack_wds_GetDefaultProfile (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_wds_GetDefaultProfile_t * *reqParam*)

get default profile pack.

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqParam*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.7 int pack_wds_GetDefaultProfileNum (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_wds_GetDefaultProfileNum_t * *pReqParam*)

get default profile number pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.8 int pack_wds_GetDormancyState (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_wds_GetDormancyState_t * reqParam)

get dormancy state pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqParam*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: No

9.64.4.9 int pack_wds_GetLastMobileIPError (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_wds_GetLastMobileIPError_t * pReqParam)

get current data system pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: No

9.64.4.10 int pack_wds_GetMobileIP (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_wds_GetMobileIP_t * pReqParam)

get mobile ip mode pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: No

9.64.4.11 int pack_wds_GetMobileIPProfile (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_wds_GetMobileIPProfile_t * *reqParam*)

get mobile ip profile pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqParam*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.12 int pack_wds_GetPacketStatistics (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_wds_GetPacketStatistics_t * *pReq*)

gets current packet transfer counter values pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReq*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.13 int pack_wds_GetPacketStatus (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_wds_GetPacketStatus_t * *reqParam*)

get packet status pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqParam*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.14 int pack_wds_GetSessionDuration (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_wds_GetSessionDuration_t * *reqParam*)

get session duration pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqParam*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: No

9.64.4.15 int pack_wds_GetSessionState (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen)

get session state pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.16 int pack_wds_RMSetTransferStatistics (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_wds_RMSetTransferStatistics_t * reqParam)

RM set transfer statistics pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqParam*	request parameter

Note

PDN Specific: No

9.64.4.17 int pack_wds_SetAutoconnect (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_wds_SetAutoconnect_t * reqArg)

Auto connect data session parameters pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.18 int pack_wds_SetDefaultProfile (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_wds_SetDefaultProfile_t * *reqParam*)

set default profile pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqParam*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.19 int pack_wds_SetDefaultProfileNum (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_wds_SetDefaultProfileNum_t * *pReqParam*)

set default profile number pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.20 int pack_wds_SetMobileIP (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_wds_SetMobileIP_t * reqArg)

Sets the current mobile IP setting pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.21 int pack_wds_SetMobileIPParameters (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_wds_SetMobileIPParameters_t * reqArg)

Sets the specified mobile IP parameters pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.22 int pack_wds_SetMobileIPProfile (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_wds_SetMobileIPProfile_t * reqParam)

set mobile ip profile pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqParam*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.23 int pack_wds_SetMuxID (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, uint8_t * *pMuxID*)

Set MUX ID pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pMuxID*	MUX ID. • 0x80 to 0x88

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.24 int pack_wds_SLQSCreateProfile (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_wds_SLQSCreateProfile_t * *reqArg*)

Create Profile pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.25 int pack_wds_SLQSDeleteProfile (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_wds_SLQSDeleteProfile_t * *reqParam*)

delete stored profile pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqParam*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.26 int pack_wds_SLQSGet3GPPConfigItem (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

get 3Gpp config items pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.27 int pack_wds_SLQSGetCurrDataSystemStat (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_wds_SLQSGetCurrDataSystemStat_t * *pReqParam*)

get current data system pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.28 int pack_wds_SLQSGetCurrentChannelRate (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

get current Tx/Rx channel bitrate of the current packet data pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.29 int pack_wds_SLQSGetDataBearerTechnology (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_wds_SLQSGetDataBearerTechnology_t * *pReqParam*)

get data bearer technology pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.30 int pack_wds_SLQSGetDUNCallInfo (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_wds_SLQSGetDUNCallInfo_t * *reqParam*)

get dun call info pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqParam*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.31 int pack_wds_SLQSGetProfileSettings (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_wds_SLQSGetProfileSettings_t * *reqArg*)

Get Profile Settings pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.32 int pack_wds_SLQSGetRuntimeSettings (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_wds_SLQSGetRuntimeSettings_t * *reqArg*)

get runtime settings pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.33 int pack_wds_SLQSModifyProfile (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_wds_SLQSModifyProfile_t * *reqArg*)

Modify Profile pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.34 int pack_wds_SLQSResetPacketStatics (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Reset packet data transfer statistics pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.35 int pack_wds_SLQSSet3GPPConfigItem (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_wds_SLQSSet3GPPConfigItem_t * *reqParam*)

set 3Gpp config items pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqParam*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.36 int pack_wds_SLQSSetIPFamilyPreference (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_wds_SLQSSetIPFamilyPreference_t * pReqParam)

Set IP Family Preference pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReqParam*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.37 int pack_wds_SLQSSetWdsEventCallback (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_wds_SLQSSetWdsEventCallback_t * reqArg)

set event callback pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: No

9.64.4.38 int pack_wds_SLQSSGetDHCPv4ClientConfig (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_wds_SLQSSGetDHCPv4ClientConfig_t * pReq)

get DHCPv4 Client Config pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*pReq*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.39 int pack_wds_SLQSSGetLoopback (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

get the value of loopback mode and multiplier pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.40 int pack_wds_SLQSSSetDHCPv4ClientConfig (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_wds_SLQSSSetDHCPv4ClientConfig_t * *reqArg*)

Gets the DHCP Client V4 Configuration pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

see qmerrno.h for eQCWWAN_xxx error values

9.64.4.41 int pack_wds_SLQSSSetLoopback (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_wds_SLQSSSetLoopback_t * *reqArg*)

Enable/disable Data Loopback Mode and set the value of loopback multiplier pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.42 int pack_wds_SLQSStartDataSession (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_wds_SLQSStartDataSession_t * *reqArg*)

Start data session

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.43 int pack_wds_SLQSStopDataSession (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*, pack_wds_SLQSStopDataSession_t * *reqArg*)

stop data session pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.44 int pack_wds_SLQSWdsGoActive (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Gets the device into Active state pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.45 int pack_wds_SLQSWdsGoDormant (pack_qmi_t * *pCtx*, uint8_t * *pReqBuf*, uint16_t * *pLen*)

Gets the device into dormant state pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.46 int pack_wds_SLQSWdsSetEventReport (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_wds_SLQSWdsSetEventReport_t * reqArg)

Sets the event report parameters pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqArg*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.47 int pack_wds_SLQSWdsSwiPDPRuntimeSettings (pack_qmi_t * pCtx, uint8_t * pReqBuf, uint16_t * pLen, pack_wds_SLQSWdsSwiPDPRuntimeSettings_t * reqParam)

swi pdp runtime settings pack

Parameters

in,out	*pCtx*	qmi request context
out	*pReqBuf*	qmi request buffer
out	*pLen*	qmi request length
in	*reqParam*	request parameter

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Note

PDN Specific: Yes

9.64.4.48 int unpack_wds_DHCPv4ClientLease_ind (uint8_t * pResp, uint16_t respLen, unpack_wds_DHCPv4ClientLease_ind_t * pOutput)

DHCP lease state has changed indication unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.49 int unpack_wds_DHCPv4ClientLeaseChange (uint8_t * *pResp*, uint16_t *respLen*)

DHCPv4 lease state changes unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.50 int unpack_wds_GetAutoconnect (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_GetAutoconnect_t * *pOutput*)

Gets auto connect data session setting unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.51 int unpack_wds_GetByteTotals (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_GetByteTotals_t * *pOutput*)

get Rx/Tx byte counts since the start of the last packet data session unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.52 int unpack_wds_GetConnectionRate (uint8_t * *pResp*, uint16_t *respLen*, **unpack_wds_GetConnectionRate_t** * *pOutput*)

get connection rate unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.53 int unpack_wds_GetDataBearerTechnology (uint8_t * *pResp*, uint16_t *respLen*, **unpack_wds_GetDataBearerTechnology_t** * *pOutput*)

get current data bearer technology unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.54 int unpack_wds_GetDefaultProfile (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_GetDefaultProfile_t * *pOutput*)

get default profile unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.55 int unpack_wds_GetDefaultProfileNum (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_GetDefaultProfileNum_t * *pOutput*)

get default profile number unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.56 int unpack_wds_GetDormancyState (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_GetDormancyState_t * *pOutput*)

get dormancy state unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.57 int unpack_wds_GetLastMobileIPError (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_GetLastMobileIP-Error_t * *pOutput*)

get current data system unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.58 int unpack_wds_GetMobileIP (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_GetMobileIP_t * *pOutput*)

get mobile ip mode unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.59 int unpack_wds_GetMobileIPProfile (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_GetMobileIPProfile_t * *pOutput*)

get mobile ip profile unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.60 int unpack_wds_GetPacketStatistics (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_GetPacketStatistics_t * *pOutput*)

gets current packet transfer counter values unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.61 int unpack_wds_GetPacketStatus (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_GetPacketStatus_t * *pOutput*)

get packet status unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.62 int unpack_wds_GetSessionDuration (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_GetSessionDuration_t * *pOutput*)

get session duration unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.63 int unpack_wds_GetSessionState (uint8_t * *pResp*, uint16_t *respLen*, **unpack_wds_GetSessionState_t** * *pOutput*)

get session state unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.64 int unpack_wds_RMSetTransferStatistics (uint8_t * *pResp*, uint16_t *respLen*, **unpack_wds_RMSetTransferStatistics_t** * *pOutput*)

RM set transfer statistics unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.65 int unpack_wds_RMTransferStatistics_ind (uint8_t * *pResp*, uint16_t *respLen*, **unpack_RMTransferStatistics_ind_t** * *pOutput*)

RM transfer statistics indication unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.66 int unpack_wds_SetAutoconnect (uint8_t * *pResp*, uint16_t *respLen*)

Auto connect data session parameters unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.67 int unpack_wds_SetDefaultProfile (uint8_t * *pResp*, uint16_t *respLen*)

set default profile unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.68 int unpack_wds_SetDefaultProfileNum (uint8_t * *pResp*, uint16_t *respLen*)

set default profile number unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.69 int unpack_wds_SetMobileIP (uint8_t * *pResp*, uint16_t *respLen*)

Sets the current mobile IP setting unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.70 int unpack_wds_SetMobileIPParameters (uint8_t * *pResp*, uint16_t *respLen*)

Sets the specified mobile IP parameters unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.71 int unpack_wds_SetMobileIPProfile (uint8_t * *pResp*, uint16_t *respLen*, **unpack_wds_SetMobileIPProfile_t** * *pOutput*)

set mobile ip profile unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.72 int unpack_wds_SetMuxID (uint8_t * *pResp*, uint16_t *respLen*)

Set MUX ID unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.73 int unpack_wds_SLQSCreateProfile (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_SLQSCreateProfile_t * *pOutput*)

Create Profile unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response structure to fill

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.74 int unpack_wds_SLQSDeleteProfile (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_SLQSDeleteProfile_t * *pOutput*)

delete stored profile unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.75 int unpack_wds_SLQSDUNCallInfoCallBack_ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_SLQSDUNCallInfoCallBack_ind_t * *pOutput*)

unpack DUN call info indication

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.76 int unpack_wds_SLQSGet3GPPConfigItem (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_SLQSGet3GPPConfigItem_t * *pOutput*)

get 3GPP config items unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.77 int unpack_wds_SLQSGetCurrDataSystemStat (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_SLQSGetCurrDataSystemStat_t * *pOutput*)

get current data system unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.78 int unpack_wds_SLQSGetCurrentChannelRate (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_SLQSGetCurrentChannelRate_t * *pOutput*)

get current Tx/Rx channel bitrate of the current packet data unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.79 int unpack_wds_SLQSGetDataBearerTechnology (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_SLQSGetDataBearerTechnology_t * *pOutput*)

get data bearer technology unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.80 int unpack_wds_SLQSGetDUNCallInfo (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_SLQSGetDUNCallInfo_t * *pOutput*)

get dun call info unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.81 int unpack_wds_SLQSGetProfileSettings (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_SLQSGetProfileSettings_t * *pOutput*)

get session state unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response structure to fill

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.82 int unpack_wds_SLQSGetRuntimeSettings (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_SLQSGetRuntimeSettings_t * *pOutput*)

get runtime settings unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.83 int unpack_wds_SLQSModifyProfile (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_SLQSModifyProfile_t * *pOutput*)

Modify Profile unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response structure to fill

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.84 int unpack_wds_SLQSResetPacketStatics (uint8_t * *pResp*, uint16_t *respLen*)

Reset packet data transfer statistics unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.85 int unpack_wds_SLQSSet3GPPConfigItem (uint8_t * *pResp*, uint16_t *respLen*)

set 3GPP config items unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

9.64.4.86 int unpack_wds_SLQSSetIPFamilyPreference (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_SLQSSetIPFamilyPreference_t * *pOutput*)

Set IP Family Preference unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.87 int unpack_wds_SLQSSetPacketSrvStatusCallback (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_SLQSSetPacketSrvStatusCallback_t * *pOutput*)

set packet srv status callback unpack

Parameters

in	*pResp*	qmi response
in	*respLen*	length
out	*pOutput*	unpacked response

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.88 int unpack_wds_SLQSSetWdsEventCallback (uint8_t * *pResp*, uint16_t *respLen*)

set event callback unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.89 int unpack_wds_SLQSSetWdsEventCallback_ind (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_SLQSSetWdsEventCallback_ind_t * *pOutput*)

set event callback unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.90 int unpack_wds_SLQSSGetDHCPv4ClientConfig (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_SLQSSGetDHCPv4ClientConfig_t * *pOutput*)

get DHCPv4 Client Config unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.91 int unpack_wds_SLQSSGetLoopback (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_SLQSSGetLoopback_t * *pOutput*)

get the value of loopback mode and multiplier unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.92 int unpack_wds_SLQSSSetDHCPv4ClientConfig (uint8_t * *pResp*, uint16_t *respLen*)

Gets the DHCP Client V4 Configuration unpack.

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.93 int unpack_wds_SLQSSSetLoopback (uint8_t * *pResp*, uint16_t *respLen*)

Enable/disable Data Loopback Mode and set the value of loopback multiplier unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.94 int unpack_wds_SLQSStartDataSession (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_SLQSStartDataSession_t * *pOutput*)

start data session unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.95 int unpack_wds_SLQSStopDataSession (uint8_t * *pResp*, uint16_t *respLen*)

stop data session unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.96 int unpack_wds_SLQSWdsGoActive (uint8_t * *pResp*, uint16_t *respLen*)

Gets the device into Active state unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.97 int unpack_wds_SLQSWdsGoDormant (uint8_t * *pResp*, uint16_t *respLen*)

Gets the device into dormant state unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.98 int unpack_wds_SLQSWdsSetEventReport (uint8_t * *pResp*, uint16_t *respLen*)

Sets the event report parameters unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

9.64.4.99 int unpack_wds_SLQSWdsSwiPDPRuntimeSettings (uint8_t * *pResp*, uint16_t *respLen*, unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t * *pOutput*)

get current data system unpack

Parameters

in	*pResp*	qmi response from modem
in	*respLen*	qmi response length
out	*pOutput*	response unpacked

Returns

eQCWWAN_ERR_NONE on success, eQCWWAN_xxx error value otherwise

See Also

See qmerrno.h for eQCWWAN_xxx error values

Index

_3gppRelease
unpack_wds_SLQSGet3GPPConfigItem_t, 1407
_GetProfileSettingIn, 68
ProfileID, 68
ProfileType, 68
_GetProfileSettingOut, 68
curProfile, 69
pExtErrCode, 69
_MitigationDevInfo, 71
deviceID, 71
deviceIdLen, 71
_QmiSwiAvmsEventReportBinaryUpdateSessionInfo-Resp, 75
bBinaryType, 77
bSerity, 77
bState, 77
bUserInputRequest, 77
szDescription, 77
szName, 77
szVersion, 77
TlvPresent, 77
ulPkgDownloadComplete, 77
ulPkgDownloadSize, 77
wDescriptionLength, 77
wNameLength, 77
wUpdateCompeteStatus, 77
wUserInputTimeout, 77
wVersionLength, 77
_QmiSwiAvmsEventReportConfigResp, 77
bState, 78
bUserInputRequest, 78
szAlertMsg, 78
TlvPresent, 78
wAlertMsgLength, 78
wUserInputTimeout, 78
_QmiSwiAvmsEventReportConnectionRequestResp, 78
bUserInputRequest, 79
TlvPresent, 79
wUserInputTimeout, 79
_QmiSwiAvmsEventReportDataSessionStatusResp, 79
bType, 79
TlvPresent, 79
wErrorCode, 79
_QmiSwiAvmsEventReportHTTPStatusResp, 79
TlvPresent, 80
wHTTPStatus, 80
_QmiSwiAvmsEventReportNotificationResp, 81
bNotification, 81
TlvPresent, 81
wSessionStatus, 82
_QmiSwiAvmsEventReportPackageIDResp, 82
bPackageID, 82
TlvPresent, 82
_QmiSwiAvmsEventReportRegStatusResp, 82
bRegStatus, 82
TlvPresent, 82
_QmiSwiAvmsEventReportSessionTypeResp, 82
bType, 83
TlvPresent, 83
_QmiSwiAvmsEventReportWAMSParamChangeResp, 83
TlvPresent, 83
wWamsChangeMask, 83
_QmiSwiAvmsSetSettingsAPNInfo, 83
bAPNLength, 84
bPWDLength, 84
bUnameLength, 84
szAPN, 84
szPWD, 84
szUname, 84
_QmiSwiAvmsSetSettingsConnectionRetryTimers, 84
Timers, 84
_QmiSwiAvmsSetSettingsPeriodInfo, 84
ulMax, 84
ulMin, 84
_SLQSAVMSSetSettingsReqPara, 87
pAPNInfo, 89
pAutoConnect, 89
pAutoReboot, 89
pConnectionRetryTimers, 89
pFwAutoSDM, 89
pFwPromptUpdate, 89
pFwPromptdownload, 89
pNotifStore, 89
pPeroidInfo, 89
pPollingTimer, 89
_SLQSAVMSSetSettingsReqPara_v2, 89
pAPNInfo, 90
pAutoConnect, 90
pAutoReboot, 90
pConnectionRetryTimers, 91
pFwPromptUpdate, 91
pFwPromptdownload, 91
pNotifStore, 91
pPeroidInfo, 91
pPollingTimer, 91
_SLQSAVMSSettings, 91

pAPNInfo, 91
pAutoConnect, 91
pAutoReboot, 91
pConnectionRetryTimers, 91
pFwAutoSDM, 91
pFwPromptUpdate, 91
pFwPromptdownload, 91
pNotificationStore, 91
pOMADMEnabled, 91
pPeroidsInfo, 91
pPollingTimer, 91
_SLQSAVMSSettingsAPNInfo, 92
bAPNLength, 93
bPWDLength, 93
bUnameLength, 93
pAPN, 93
pPWD, 93
pUname, 93
_SLQSAVMSSettingsConnectionRetryTimers, 93
Timers, 93
_SLQSAVMSSettingsPeriodsInfo, 93
max, 93
min, 93
_SLQSAVMSSettings_v2, 92
pAPNInfo, 92
pAutoConnect, 92
pAutoReboot, 92
pConnectionRetryTimers, 92
pFwAutoSDM, 92
pFwPromptUpdate, 92
pFwPromptdownload, 92
pNotificationStore, 92
pOMADMEnabled, 92
pPeroidsInfo, 92
pPollingTimer, 92
_SLQSOMADMSessionInfo, 95
pDate, 97
pDateLength, 97
pPkgDescLength, 97
pPkgDescription, 97
pPkgName, 97
pPkgNameLength, 98
pRetryCount, 98
pSessionState, 98
pSessionType, 98
pSeverity, 98
pSource, 98
pSourceLength, 98
pStatus, 98
pTime, 98
pTimeLength, 98
pUpdateCompleteStatus, 98
_SLQSOMADMSettings, 98
pAutosdm, 99
pFOTAUpdate, 99
pFOTAdownload, 99
pFwAutoCheck, 99
pOMADMEnabled, 99
_SLQSOMADMSettingsReqParams, 100
FOTAUpdate, 100
FOTAdownload, 100
pAutosdm, 100
_SLQSOMADMSettingsReqParams3, 100
FOTAUpdate, 101
FOTAdownload, 101
pAutosdm, 101
pFwAutoCheck, 101
_SLQSSwiGetHostDevInfoParams, 101
bManSize, 102
bModelSize, 102
bPlasmaIDSize, 102
bSWVerSize, 102
pManString, 103
pModelString, 103
pPlasmaIDString, 103
pSWVerString, 103
_SLQSSwiGetOSInfoParams, 103
bNameSize, 103
bVersionSize, 103
pNameString, 103
pVersionString, 103
_SLQSSwiGetSerialNoExtParams, 103
meidLength, 104
pMeidString, 104
_SLQSSwiSetHostDevInfoParams, 104
bManSize, 105
bModelSize, 105
bPlasmaIDSize, 105
bSWVerSize, 105
pManString, 105
pModelString, 105
pPlasmaIDString, 105
pSWVerString, 105
_SLQSSwiSetOSInfoParams, 105
bNameSize, 106
bVersionSize, 106
pNameString, 106
pVersionString, 106
SlqsNas3GppNetworkRAT, 93
MCC, 94
MNC, 94
RAT, 94
_SwiAvmsEventInd, 106
BinaryUpdateSessionInfo, 106
Config, 106
ConnectionRequest, 106
DataSessionStatus, 106
HTTPStatus, 106
Notification, 106
PackageID, 107
RegStatus, 107
SessionType, 107
WAMSParaChanged, 107
_getIndicationRegResp, 67
pRegCallStatInfoEvt, 68
pRegTransLayerInfoEvt, 68

pRegTransNWRegInfoEvt, 68
_getResetInfoNotification, 69
source, 70
type, 70
_getTransLayerInfoResp, 70
pRegInd, 70
pTransLayerInfo, 70
_getTransNWRegInfoResp, 70
pRegStatus, 71
_modemTempNotification, 71
ModemTempState, 72
ModemTemperature, 72
_packetSrvStatus, 72
bearerID, 74
connStatus, 74
ipFamily, 74
pQmiInterfaceInfo, 74
reconfigReqd, 74
sessionEndReason, 74
techName, 74
verboseSessnEndReason, 74
verboseSessnEndReasonType, 74
_qaQmi3GPP2BroadcastCfgInfo, 74
activated_ind, 75
CDMABroadcastConfig, 75
num_instances, 75
_qaQmi3GPPBroadcastCfgInfo, 75
activated_ind, 75
broadcastConfig, 75
num_instances, 75
_setIndicationRegReq, 84
pRegCallStatInfoEvt, 85
pRegTransLayerInfoEvt, 85
pRegTransNWRegInfoEvt, 85
_slqs3GPPConfigItem, 85
LTEAttachProfileListLen, 87
p3gppRelease, 87
pDefaultPDNEnabled, 87
pLTEAttachProfile, 87
pLTEAttachProfileList, 87
pProfileList, 87
_slqsNetworkScanInfo, 94
pNetworkInfo, 95
pNetworkInfoInstances, 95
pPCSDigitInfo, 95
pPCSDigitInstances, 95
pRATInfo, 95
pRATInstances, 95
pScanResult, 95
_sysSelectPrefExtInfo, 107
pAcqOrderPref, 108
pCiotAcqOrderPref, 108
pCiotLteOpModePref, 108
pLteM1BandPref, 108
pLteNb1BandPref, 108
pNr5gBandPref, 108
pRatDisabledMask, 108
pSysSelectPrefInfo, 108
_sysSelectPrefInfo, 108
pBandPref, 113
pEmerMode, 113
pGWAcqOrderPref, 113
pLTEBandPref, 113
pModePref, 113
pNetSelPref, 113
pPRLPref, 113
pRoamPref, 113
pSrvDomainPref, 113
_sysSelectPrefParams, 114
pAcqOrderPref, 119
pBandPref, 119
pCSGID, 119
pChgDuration, 119
pEmerMode, 119
pGWAcqOrderPref, 119
pLTEBandPref, 119
pMNCIncPCSDigStat, 119
pModePref, 119
pNetSelPref, 119
pPRLPref, 119
pRAT, 120
pRoamPref, 120
pSrvDomainPref, 120
pSrvRegRestriction, 120
pTdscdmaBandPref, 120
_transLayerInfoNotification, 120
pTransLayerInfo, 121
regInd, 121
_transLayerinfo, 120
TransCap, 120
TransType, 120
_transNWRegInfoNotification, 121
NWRegStat, 121

AAASPI
unpack_wds_GetMobileIPProfile_t, 1398
AAAState
unpack_wds_GetMobileIPProfile_t, 1398
ABSOLUTE_VALIDITY
qaGobiApiSms.h, 2011
ACT_CODE_MAX_SIZE
dms.h, 1598
ALS
getAllCallInformation, 278
voice_getAllCallInformation, 1468
AMSSString
unpack_dms_GetFirmwareRevision_t, 1145
unpack_dms_GetFirmwareRevisions_t, 1146
APNName
unpack_wds_SLQSGetRuntimeSettings_t, 1415
AVMS (SWIAVMS), 63
absoluteValidity
cdmaMsgDecodingParams, 176
cdmaMsgDecodingParamsExt, 179
accelAcceptReady
qaGobiApiCbk.h, 1766
accelAcceptReady_s, 122

batchPerSec, 122
injectEnable, 122
samplesPerBatch, 122
accelTemp
pack_loc_SLQSLOCInjectSensorData_t, 687
accelTempAcceptReady
qaGobiApiCbk.h, 1766
accelTempAcceptReady_s, 122
batchPerSec, 123
injectEnable, 123
samplesPerBatch, 123
acceleroData
pack_loc_SLQSLOCInjectSensorData_t, 687
acceleroTimeSrc
pack_loc_SLQSLOCInjectSensorData_t, 687
AccessMac
nas_protocolSubtypeElement, 545
protocolSubtypeElement, 850
accolc
pack_nas_SetACCOLC_t, 693
accuracy
pack_pds_SetPDSDefaults_t, 730
ackIndicator
SMSTransferRouteMTMessage, 1016
sMSTransferRouteMTMessageInfo, 1016
acqOrdeLen
acqOrderPref, 124
AcqOrderPrefTlv, 124
nas_acqOrderPref, 454
nas_AcqOrderPrefTlv, 455
acqOrderPref, 123
acqOrdeLen, 124
pAcqOrder, 124
AcqOrderPrefTlv, 124
acqOrdeLen, 124
pAcqOrder, 124
TlvPresent, 124
acroamsetting
pack_wds_SetAutoconnect_t, 792
slqsautoconnect, 972
acsetting
pack_wds_SetAutoconnect_t, 792
slqsautoconnect, 972
actCode
pack_dms_ActivateAutomatic_t, 657
ActPilotPNElement, 124
ActSetPilotPN, 125
ActSetPilotPNStrength, 125
ActSetCnt
nas_NetworkStat1x, 528
NetworkStat1x, 640
ActSetPilotPN
ActPilotPNElement, 125
nas_ActPilotPNElement, 455
ActSetPilotPNStrength
ActPilotPNElement, 125
nas_ActPilotPNElement, 455
action
pack_nas_InitiateDomainAttach_t, 692
slqsautoconnect, 972
ssdatasession_params, 1021
ActivateAutomatic
qaGobiApiDms.h, 1861
activated_ind
_qaQmi3GPP2BroadcastCfgInfo, 75
_qaQmi3GPPBroadcastCfgInfo, 75
sms_qaQmi3GPP2BroadcastCfgInfo, 995
sms_qaQmi3GPPBroadcastCfgInfo, 995
activationState
pack_dms_SetActivationStatusCallback_t, 659
activationStatus
dms_ActivationStatusTlv, 240
ActivationStatusTlv
unpack_dms_SetEventReport_ind_t, 1159
activeBand
nas_RfBandInfoExtFormatElements, 552
RfBandInfoExtFormatElements, 910
activeBandClass
nas_RFBandInfoElements, 551
nas_RFInfoTlv, 557
RFBandInfoElements, 909
activeChannel
nas_RFBandInfoElements, 551
nas_RfBandInfoExtFormatElements, 552
nas_RFInfoTlv, 557
RFBandInfoElements, 909
RfBandInfoExtFormatElements, 910
activeInd
messageWaitingInfoContent, 448
sms_messageWaitingInfoContent, 993
ActiveStatus
CLIPResp, 194
CLIRResp, 195
CNAPResp, 197
COLPResp, 198
COLRResp, 198
voice_CLIPResp, 1458
voice_CLIRResp, 1458
voice_CNAPResp, 1459
voice_COLPResp, 1460
voice_COLRResp, 1461
ActiveTechPref
unpack_nas_GetNetworkPreference_t, 1224
ActiveTimer
unpack_dms_PSMCfgChange_ind_t, 1157
activeTimer
dms_PSMActiveTimerTlv, 241
PSMActiveTimerTlv, 851
ActiveTimerInd
dms_PSMActiveTimerIndTlv, 241
AddCDMASysInfo, 125
geoSysIdx, 125
regPrd, 125
AddSysInfo, 125
cellBroadcastCap, 126
geoSysIdx, 126

addr
IPv4Addr, 354
IPv6Addr, 356
unpack_qos_IPv4Addr_t, 1292
unpack_qos_IPv6Addr_t, 1292
address
IPv4Info, 355
IPv6Info, 358
loc_IPv4Info, 399
loc_IPv6Info, 400
loc_urlAddr, 407
unpack_wds_GetMobileIPProfile_t, 1398
urlAddr, 1427
addressSize
unpack_sms_GetSMSCAddress_t, 1315
aid
uim_refreshevent, 1091
uim_sessionInformation, 1093
uim_UIMSessionInformation, 1097
UIMRefreshEvent, 1111
UIMSessionInformation, 1114
aidLength
appStats, 133
appStatus, 136
uim_appStatus, 1076
uim_refreshevent, 1091
uim_sessionInformation, 1093
uim_UIMSessionInformation, 1097
UIMRefreshEvent, 1111
UIMSessionInformation, 1114
aidVal
appStats, 133
appStatus, 136
uim_appStatus, 1076
aidingIndicatorMask
loc_sensorDataUsage, 405
sensorDataUsage_s, 933
t_sensor, 1053
airTimer, 126
airTimerValue, 127
namID, 127
airTimerValue
airTimer, 127
voice_airTimer, 1435
alertPitch
signalInfo, 967
voice_signalInfo, 1480
alertingPattern
arrAlertingPattern, 138
voice_arrAlertingPattern, 1438
AlertingType
arrAlertingType, 139
voice_arrAlertingType, 1439
alertmsg
omaDmConfigTlv, 648
omaDmConfigTlvExt, 650
unpack_omaDmConfigTlv_t, 1276
alertmsglength
omaDmConfigTlv, 648
omaDmConfigTlvExt, 650
unpack_omaDmConfigTlv_t, 1276
allCallsAlphaIDInfo, 127
AlphaIDInfo, 127
callID, 127
allCallsAlphaIDInfoArr
arrAlphaID, 139
voice_arrAlphaID, 1440
allCallsDiagInfo, 127
callID, 128
DiagInfo, 128
AllCallsUUSInfo
arrUUSInfo, 145
voice_arrUUSInfo, 1445
allCallsUUSInfo, 128
callID, 128
uusInfo, 128
alphaDcs
alphaIDInfo, 129
voice_alphaIDInfo, 1438
AlphaID
CatAlPhaIdentifierTlv, 168
AlphaIDInfo
allCallsAlphaIDInfo, 127
voice_allCallsAlphaIDInfo, 1436
alphaIDInfo, 128
alphaDcs, 129
alphaLen, 129
alphaText, 129
alphaIDLen
SMSAsyncRawSend_s, 1002
unpack_sms_SLQSWmsAsyncRawSendCallBack-_ind_t, 1325
AlphaIDLength
CatAlPhaIdentifierTlv, 168
alphaLen
alphaIDInfo, 129
voice_alphaIDInfo, 1438
alphaText
alphaIDInfo, 129
voice_alphaIDInfo, 1438
alphabet
wcdmaMsgEncodingParams, 1540
altSrcInfo_t, 130
coverage, 131
linkage, 131
source, 131
Altitude
GPSStateInfo, 314
unpack_pds_SLQSGetGPSStateInfo_t, 1290
altitudeAssumed
unpack_loc_GnssSvInfo_Ind_t, 1201
altitudeSrcInfo, 129
coverage, 130
linkage, 130
pack_loc_SLQSLOCInjectPosition_t, 685
source, 130

altitudeWrtEllipsoid
pack_loc_SLQSLOCInjectPosition_t, 685
altitudeWrtMeanSeaLevel
pack_loc_SLQSLOCInjectPosition_t, 685
ambr_dl
sApnExtraParams, 926
unpack_qos_SLQSQosSwiReadApnExtraParams-_t, 1297
ambr_dl_ext
sApnExtraParams, 926
unpack_qos_SLQSQosSwiReadApnExtraParams-_t, 1298
ambr_dl_ext2
sApnExtraParams, 926
unpack_qos_SLQSQosSwiReadApnExtraParams-_t, 1298
ambr_ul
sApnExtraParams, 926
unpack_qos_SLQSQosSwiReadApnExtraParams-_t, 1298
ambr_ul_ext
sApnExtraParams, 926
unpack_qos_SLQSQosSwiReadApnExtraParams-_t, 1298
ambr_ul_ext2
sApnExtraParams, 926
unpack_qos_SLQSQosSwiReadApnExtraParams-_t, 1298
amssSize
unpack_dms_GetFirmwareRevision_t, 1145
unpack_dms_GetFirmwareRevisions_t, 1146
AnswerUSSD
qaGobiApiVoice.h, 2122
apdoxypages.c, 1585
apnId
pack_qos_SLQSQosSwiReadApnExtraParams_t, 740
pack_qos_SLQSQosSwiReadDataStats_t, 740
sApnExtraParams, 926
sQosStat, 1018
unpack_qos_SLQSQosSwiReadApnExtraParams-_t, 1298
unpack_qos_SLQSQosSwiReadDataStats_t, 1299
apnName
unpack_wds_SLQSWdsSwiPDPRuntimeSettings-_t, 1425
apnname
unpack_wds_GetDefaultProfile_t, 1394
apnsize
unpack_wds_GetDefaultProfile_t, 1394
appNameLength
loc_LocApplicationInfo, 401
LocApplicationInfo, 409
appProviderLength
loc_LocApplicationInfo, 401
LocApplicationInfo, 409
appState
appStats, 133
appStatus, 136
uim_appStatus, 1076
appStats, 131
aidLength, 133
aidVal, 133
appState, 133
appType, 134
persoFeature, 134
persoRetries, 134
persoState, 134
persoUnblockRetries, 134
pin1Retries, 134
pin1State, 134
pin2Retries, 134
pin2State, 134
puk1Retries, 134
puk2Retries, 134
univPin, 134
AppStatus
slotInf, 969
slotInfo, 971
uim_slotInfo, 1096
appStatus, 134
aidLength, 136
aidVal, 136
appState, 136
appType, 137
persoFeature, 137
persoRetries, 137
persoState, 137
persoUnblockRetries, 137
pin1Retries, 137
pin1State, 137
pin2Retries, 137
pin2State, 137
puk1Retries, 137
puk2Retries, 137
univPin, 137
appType
appStats, 134
appStatus, 137
uim_appStatus, 1076
appVersionLength
loc_LocApplicationInfo, 401
LocApplicationInfo, 409
appVersionValid
loc_LocApplicationInfo, 401
LocApplicationInfo, 409
Application
unpack_nas_GetCDMANetworkParameters_t, 1219
appversion_str
slqsfwinfo_s, 974
unpack_dms_GetFirmwareInfo_t, 1144
arfcn
GERANInfo, 276
gsmCellInfo, 316
nas_GERANInfo, 484

nas_gsmCellInfo, 486
arrAlertingPattern, 137
alertingPattern, 138
callID, 138
numInstances, 138
arrAlertingType, 138
AlertingType, 139
callID, 139
numInstances, 139
arrAlphaID, 139
allCallsAlphaIDInfoArr, 139
numInstances, 139
arrCallEndReason, 140
callEndReason, 140
callID, 140
numInstances, 141
arrCallInfo, 141
getAllCallInfo, 141
numInstances, 141
arrCallInfomation
unpack_voice_allCallStatusCallback_ind_t, 1349
voiceSetAllCallStatusCbkInfo, 1520
arrCalledPartyNum, 139
CalledPartyNum, 140
numInstances, 140
arrConnectPartyNum, 141
ConnectedPartyNum, 142
numInstances, 142
arrDiagInfo, 142
DiagInfo, 142
numInstances, 142
arrRedirPartyNum, 142
numInstances, 143
RedirPartyNum, 143
arrRemotePartyName, 143
GetAllCallRmtPtyName, 143
numInstances, 143
arrRemotePartyNum, 143
numInstances, 144
RmtPtyNum, 144
arrSvcOption, 144
callID, 144
numInstances, 144
srvOption, 144
arrUUSInfo, 144
AllCallsUUSInfo, 145
numInstances, 145
arrfileInfo
registerRefresh, 904
uim_refreshevent, 1091
uim_registerRefresh, 1092
UIMRefreshEvent, 1111
AtCmdPort
DcsUsbPortNames, 232
Audio Service (AUDIO), 57
auth
unpack_wds_GetDefaultProfile_t, 1394
authData
pack_uim_SLQSUIMAuthenticate_t, 761
UIMAuthenticateReq, 1099
AuthProt
nas_protocolSubtypeElement, 545
protocolSubtypeElement, 850
authenticateResult, 145
content, 145
contentLen, 145
Authentication
unpack_wds_SLQSGetRuntimeSettings_t, 1415
authentication
pack_wds_SetDefaultProfile_t, 793
authenticationData, 146
context, 146
data, 146
dataLen, 146
Autosdm
unpack_swioma_SLQSOMADMGetSettings_t, 1335
avgPeriod
LTESigRptCfg, 439
LTESigRptConfig, 440
nas_LTESigRptCfg, 516
nas_LTESigRptConfig, 517
azimuth
loc_satelliteInfo, 404
satelliteInfo, 928

bAPNLength
_QmiSwiAvmsSetSettingsAPNInfo, 84
_SLQSAVMSSettingsAPNInfo, 93
bAltitudeAssumed
gnssSvInfoNotification, 309
bAuto
pack_pds_SetPortAutomaticTracking_t, 731
pack_pds_SetServiceAutomaticTracking_t, 731
bBinaryType
_QmiSwiAvmsEventReportBinaryUpdateSession-InfoResp, 77
bEnable
pack_dms_UIMSetPINProtection_t, 672
pack_nas_SLQSSetSignalStrengthsCallback_t, 712
bEnabled
pack_pds_SetXTRAAutomaticDownload_t, 732
bForceDownload
pack_fms_SetImagesPreference_t, 676
bICCID
slot_t, 968
UIMSlotStatus, 1116
bICCIDLength
slot_t, 968
UIMSlotStatus, 1116
bLogicalSlot
pack_uim_SLQSUIMSwitchSlot_t, 766
slot_t, 968
UIMSlotStatus, 1116
UIMSwitchSlotReq, 1118
bManSize

_SLQSSwiGetHostDevInfoParams, 102
_SLQSSwiSetHostDevInfoParams, 105
bModelSize
_SLQSSwiGetHostDevInfoParams, 102
_SLQSSwiSetHostDevInfoParams, 105
bNameSize
_SLQSSwiGetOSInfoParams, 103
_SLQSSwiSetOSInfoParams, 106
bNotification
_QmiSwiAvmsEventReportNotificationResp, 81
bNumberOfPhySlots
UIMSlotStatusChangeInfo, 1117
unpack_uim_SetUimSlotStatusChangeCallback_-ind_t, 1339
BOOL
SwiDataTypes.h, 2228
BPTlv
NASQmiCbkNasSystemSelPrefInd, 625
bPWDLength
_QmiSwiAvmsSetSettingsAPNInfo, 84
_SLQSAVMSSettingsAPNInfo, 93
bPackageID
_QmiSwiAvmsEventReportPackageIDResp, 82
bPlasmaIDSize
_SLQSSwiGetHostDevInfoParams, 102
_SLQSSwiSetHostDevInfoParams, 105
bRegStatus
_QmiSwiAvmsEventReportRegStatusResp, 82
bResetStatistics
rmTrasnferStaticsReq, 914
swiRMTrasnferStaticsReq, 1046
bSWVerSize
_SLQSSwiGetHostDevInfoParams, 102
_SLQSSwiSetHostDevInfoParams, 105
bSerity
_QmiSwiAvmsEventReportBinaryUpdateSession-InfoResp, 77
bState
_QmiSwiAvmsEventReportBinaryUpdateSession-InfoResp, 77
_QmiSwiAvmsEventReportConfigResp, 78
bType
_QmiSwiAvmsEventReportDataSessionStatus-Resp, 79
_QmiSwiAvmsEventReportSessionTypeResp, 83
BUILD_ID_LEN
qaGobiApiFms.h, 1896
BUILD_ID_MAX_LEN
qaGobiApiFms.h, 1896
bUnameLength
_QmiSwiAvmsSetSettingsAPNInfo, 84
_SLQSAVMSSettingsAPNInfo, 93
bUserInputRequest
_QmiSwiAvmsEventReportBinaryUpdateSession-InfoResp, 77
_QmiSwiAvmsEventReportConfigResp, 78
_QmiSwiAvmsEventReportConnectionRequest-Resp, 79
bVersionSize
_SLQSSwiGetOSInfoParams, 103
_SLQSSwiSetOSInfoParams, 106
BYT_STAT_STAT_MASK
wds.h, 2299
BYTE
SwiDataTypes.h, 2228
band
LTEInfo, 426
nas_LTEInfo, 504
band1900
gsmCellInfo, 316
nas_gsmCellInfo, 486
band_pref
NASBandPreferenceTlv, 592
BandCapability
unpack_dms_GetBandCapability_t, 1134
bandCapability
BandCapabilityResp, 150
unpack_dms_SLQSGetBandCapability_t, 1169
BandCapabilityResp, 147
bandCapability, 150
pLteBandCapability, 150
pTdsBandCapability, 150
BandPref
nas_BandPrefTlv, 459
bandPref
pack_nas_SLQSSetBandPreference_t, 711
bandwidth
LTEInfo, 426
nas_LTEInfo, 504
nas_RfBandwidthInfoElements, 554
RfBandwidthInfoElements, 912
baseId
CDMAInfo, 174
CDMASysInfo, 186
nas_CDMAInfo, 462
nas_CDMASysInfo, 466
baseLat
CDMAInfo, 174
CDMASysInfo, 186
nas_CDMAInfo, 462
nas_CDMASysInfo, 466
baseLong
CDMAInfo, 174
CDMASysInfo, 187
nas_CDMAInfo, 462
nas_CDMASysInfo, 466
BasestationID
qaQmiServingSystemParam, 859
unpack_nas_SLQSGetServingSystem_t, 1242
BasestationLatitude
qaQmiServingSystemParam, 859
unpack_nas_SLQSGetServingSystem_t, 1242
BasestationLongitude
qaQmiServingSystemParam, 859
unpack_nas_SLQSGetServingSystem_t, 1242
batchPerSec

accelAcceptReady_s, 122
accelTempAcceptReady_s, 123
gyroAcceptReady_s, 321
gyroTempAcceptReady_s, 322
loc_accelAcceptReady, 390
loc_accelTempAcceptReady, 391
loc_gyroAcceptReady, 397
loc_gyroTempAcceptReady, 398
BdsSV, 150
id, 150
mask, 150
BdsSVInfo, 150
len, 151
pSV, 151
BearerID
unpack_qos_QosFlowInfo_t, 1295
bearerID
_packetSrvStatus, 74
unpack_wds_SLQSSetPacketSrvStatusCallback_-t, 1419
bearerId
sQosFlowStat, 1017
unpack_QosFlowStat_t, 1311
unpack_wds_SLQSWdsSwiPDPRuntimeSettings-_t, 1425
BinaryUpdateSessionInfo
_SwiAvmsEventInd, 106
bits_129_192
nas_nr5gBandPref, 532
nas_NR5gBandPrefTlv, 533
nr5gBandPref, 645
NR5gBandPrefTlv, 646
bits_193_256
nas_nr5gBandPref, 532
nas_NR5gBandPrefTlv, 533
nr5gBandPref, 645
NR5gBandPrefTlv, 646
bits_1_64
nas_nr5gBandPref, 532
nas_NR5gBandPrefTlv, 533
nr5gBandPref, 645
NR5gBandPrefTlv, 646
bits_65_128
nas_nr5gBandPref, 532
nas_NR5gBandPrefTlv, 533
nr5gBandPref, 645
NR5gBandPrefTlv, 646
bootSize
unpack_dms_GetFirmwareRevisions_t, 1146
BootString
unpack_dms_GetFirmwareRevisions_t, 1146
bootversion_str
slqsfwinfo_s, 974
unpack_dms_GetFirmwareInfo_t, 1144
Broadcast
unpack_nas_GetCDMANetworkParameters_t, 1219
broadcastActivate
pack_sms_SLQSSetSmsBroadcastActivation_t, 749
BroadcastConfig, 151
fromServiceId, 152
selected, 152
toServiceId, 152
broadcastConfig
_qaQmi3GPPBroadcastCfgInfo, 75
sms_qaQmi3GPPBroadcastCfgInfo, 995
bsInfoValid
CDMASysInfo, 187
nas_CDMASysInfo, 466
bsPRev
CDMASysInfo, 187
nas_CDMASysInfo, 466
bsPRevValid
CDMASysInfo, 187
nas_CDMASysInfo, 466
bsic
GERANInfo, 276
nas_GERANInfo, 484
bsicId
gsmCellInfo, 316
nas_gsmCellInfo, 486
bucketSz
tokenBucket, 1067
unpack_qos_tokenBucket_t, 1310
buildID
CurrImageInfo, 215
FMSImageIdElement, 272
image_info_t, 333
ImageIdElement, 335
buildIDLen
CurrImageInfo, 215
image_info_t, 333
buildIDLength
FMSImageIdElement, 272
ImageIdElement, 335
buildId
FMSImageElement, 271
ImageElement, 334
buildIdLength
FMSImageElement, 271
ImageElement, 334
BurstDTMFInfo
pack_voice_SLQSVoiceBurstDTMF_t, 772
voiceBurstDTMFInfo, 1486
burstDTMFInfo, 152
digitCnt, 152
pCallID, 152
pDigitBuff, 152
ByteLoopbackMode
unpack_wds_SLQSSGetLoopback_t, 1422
WDSGetLoopbackData, 1576
ByteLoopbackMultiplier
unpack_wds_SLQSSGetLoopback_t, 1422
WDSGetLoopbackData, 1576
ByteTotalsElmntsV4

WdsByteTotals, 1567
ByteTotalsElmntsV6
WdsByteTotals, 1567

CATEventDataType, 169
eventMask, 169
pErrorMask, 169
CATSendEnvelopeCommand
qaGobiApiCat.h, 1755
CATSendTerminalResponse
qaGobiApiCat.h, 1755
CBK_DISABLE_EVENT
qaGobiApiCbk.h, 1764
CBK_ENABLE_EVENT
qaGobiApiCbk.h, 1764
CBK_NOCHANGE
qaGobiApiCbk.h, 1764
CCETlv
QmiCbkCatEventStatusReportInd, 860
CDMA_P_Rev
qaQmiServingSystemParam, 859
unpack_nas_SLQSGetServingSystem_t, 1242
CDMABroadcastConfig, 171
_qaQmi3GPP2BroadcastCfgInfo, 75
language, 172
selected, 172
serviceCategory, 172
sms_qaQmi3GPP2BroadcastCfgInfo, 995
CDMAChannel, 172
priChA, 172
priChB, 172
secChA, 172
secChB, 173
CDMAECIOThresh, 173
CDMAECIOThreshListLen, 173
pCDMAECIOThreshList, 173
CDMAECIOThreshListLen
CDMAECIOThresh, 173
nas_CDMAECIOThresh, 461
CDMAInfo, 173
baseId, 174
baseLat, 174
baseLong, 174
nid, 174
refpn, 174
sid, 174
CDMARSSIThresh, 182
CDMARSSIThreshListLen, 182
pCDMARSSIThreshList, 182
CDMARSSIThreshListLen
CDMARSSIThresh, 182
nas_CDMARSSIThresh, 463
CDMASSInfo, 182
ecio, 183
rssi, 183
unpack_nas_SLQSNasGetSigInfo_t, 1261
CDMASysInfo, 184
baseId, 186
baseLat, 186
baseLong, 187
bsInfoValid, 187
bsPRev, 187
bsPRevValid, 187
ccsSupported, 187
ccsSupportedValid, 187
cdmaSysIdValid, 187
isSysPrlMatch, 187
isSysPrlMatchValid, 187
MCC, 187
MNC, 187
networkID, 187
networkIdValid, 187
pRevInUse, 187
pRevInUseValid, 187
packetZone, 187
packetZoneValid, 187
sysInfoCDMA, 187
systemID, 187
CDMASysInfoExt, 187
imsi_11_12, 188
MCC, 188
CDMASystemInfoExt
qaQmiServingSystemParam, 859
unpack_nas_SLQSGetServingSystem_t, 1242
CHAR
SwiDataTypes.h, 2228
CK_MAX_SIZE
dms.h, 1598
CLIPResp, 194
ActiveStatus, 194
ProvisionStatus, 194
CLIRResp, 194
ActiveStatus, 195
ProvisionStatus, 195
CNAPResp, 196
ActiveStatus, 197
ProvisionStatus, 197
COLPResp, 197
ActiveStatus, 198
ProvisionStatus, 198
COLRResp, 198
ActiveStatus, 198
ProvisionStatus, 198
CONFIG_LEN
qaGobiApiSms.h, 2011
CQIValueCW0
LteCQIParm, 423
unpack_nas_SLQSSwiGetLteCQI_t, 1270
CQIValueCW1
LteCQIParm, 423
unpack_nas_SLQSSwiGetLteCQI_t, 1270
CRTlv
unpack_wds_SLQSDUNCallInfoCallBack_ind_t, 1406
CSDomain
unpack_nas_GetServingNetwork_t, 1227
CSGID, 208

id, 209
mcc, 209
mnc, 209
mncPcsDigits, 209
rat, 209
CSTlv
unpack_wds_SLQSDUNCallInfoCallBack_ind_t, 1406
CUGIndex
CUGInfo, 210
voice_CUGInfo, 1463
CUGInfo, 209
CUGIndex, 210
SuppOA, 210
SuppPrefCUG, 210
CallBacK registration (CBK), 45
CallBarStatus
qaQmiServingSystemParam, 859
unpack_nas_SLQSGetServingSystem_t, 1242
callBarStatus, 153
csBarStatus, 154
psBarStatus, 154
CallBarringSysInfo, 152
csBarStatus, 153
psBarStatus, 153
callDuration
unpack_wds_GetSessionDuration_t, 1403
CallEndReason
DUNCallInfoInd, 257
wds_LastMdmCallEndRsnTlv, 1559
callEndReason
arrCallEndReason, 140
unpack_wds_SLQSGetDUNCallInfo_t, 1412
voice_arrCallEndReason, 1441
CallFWExtInfo
getCallFWExtInfo, 285
voice_getCallFWExtInfo, 1470
callFWExtInfo, 158
noReplyTimer, 160
numLen, 160
numPlan, 160
numType, 160
number, 160
PI, 160
SI, 160
SvcClass, 160
SvcStatus, 160
CallFWInfo
getCallFWInfo, 286
voice_getCallFWInfo, 1470
callFWInfo, 160
noReplyTimer, 161
numLen, 161
number, 161
SvcClass, 161
SvcStatus, 161
callFwdTypeAndPlan, 157
numberPlan, 158
numberType, 158
callID
allCallsAlphaIDInfo, 127
allCallsDiagInfo, 128
allCallsUUSInfo, 128
arrAlertingPattern, 138
arrAlertingType, 139
arrCallEndReason, 140
arrSvcOption, 144
callInfo, 162
DTMFInfo, 256
getAllCallRmtPtyName, 279
getAllCallRmtPtyNum, 279
pack_voice_SLQSVoiceGetCallInfo_t, 776
pack_voice_SLQSVoiceStopContDTMF_t, 787
peerNumberInfo, 820
unpack_voice_OTASPStatusCallback_ind_t, 1351
unpack_voice_SLQSVoiceStopContDTMF_t, 1382
unpack_voice_SUPSNotificationCallback_ind_t, 1386
unpack_voice_VoiceInfoRecCallback_ind_t, 1388
unpack_voice_voicePrivacyChangeCallback_ind_t, 1389
voice_allCallsAlphaIDInfo, 1436
voice_allCallsDiagInfo, 1436
voice_allCallsUUSInfo, 1437
voice_arrAlertingPattern, 1438
voice_arrAlertingType, 1439
voice_arrCallEndReason, 1441
voice_arrSvcOption, 1445
voice_callInfo, 1454
voice_DTMFInfo, 1465
voice_getAllCallRmtPtyName, 1468
voice_getAllCallRmtPtyNum, 1469
voice_peerNumberInfo, 1474
voiceCallInfoReq, 1486
voiceInfoRec, 1514
voiceOTASPStatusInfo, 1517
voicePrivacyInfo, 1518
voiceStopContDTMFinfo, 1530
voiceSUPSNotification, 1534
callInfo, 161
callID, 162
callState, 162
callType, 163
direction, 163
mode, 163
callNumber
pack_voice_SLQSVoiceDialCall_t, 774
voiceCallRequestParams, 1490
callState
callInfo, 162
voice_callInfo, 1454
callType
callInfo, 163
voice_callInfo, 1455
calledPartyInfo, 154
numLen, 155

numPlan, 155
numType, 155
number, 155
PI, 156
SI, 156
CalledPartyNum
arrCalledPartyNum, 140
voice_arrCalledPartyNum, 1440
calledPartySubAdd, 156
extBit, 156
oddEvenInd, 156
subAddr, 156
subAddrLen, 156
subAddrType, 156
callerID
callerIDInfo, 157
connectNumInfo, 203
voice_callerIDInfo, 1449
voice_connectNumInfo, 1462
callerIDInfo, 157
callerID, 157
callerIDLen, 157
PI, 157
callerIDLen
callerIDInfo, 157
connectNumInfo, 203
voice_callerIDInfo, 1449
voice_connectNumInfo, 1462
callerName
remotePartyName, 906
voice_remotePartyName, 1478
CallInfo
getAllCallInformation, 278
voice_getAllCallInformation, 1468
callingPartyInfo, 163
numLen, 164
numPlan, 164
numType, 164
number, 164
PI, 164
SI, 164
CancelUSSD
qaGobiApiVoice.h, 2122
Card Application Toolkit (CAT), 48
cardResult, 164
sw1, 165
sw2, 165
cardState
slotInf, 969
slotInfo, 971
uim_slotInfo, 1096
cardStatus, 165
index1xPri, 166
index1xSec, 166
indexGwPri, 166
indexGwSec, 166
numSlot, 166
SlotInfo, 166
Carrier
fwinfo_s, 275
carrier
CurrentImgList, 213
unpack_dms_SLQSSwiGetFirmwareCurr_t, 1174
carrier_str
slqsfwinfo_s, 974
unpack_dms_GetFirmwareInfo_t, 1144
CarrierImage_t, 166
m_FwBuildId, 167
m_FwImageId, 167
m_PriBuildId, 167
m_PriImageId, 167
m_nCarrierId, 167
m_nFolderId, 167
m_nStorage, 167
CatAlPhaIdentifierTlv, 167
AlphaID, 168
AlphaIDLength, 168
ReferenceID, 168
CatAlphaIdtfr
currentCatEvent, 212
CatCommonEventTlv, 168
CatEvent, 168
EventID, 168
EventLength, 168
TlvPresent, 168
CatEndPS
currentCatEvent, 212
CatEndProactiveSessionTlv, 168
EndProactiveSession, 169
CatEvIDData
currentCatEvent, 212
CatEvent
CatCommonEventTlv, 168
CatEventIDDataTlv, 169
Data, 169
DataLength, 169
ReferenceID, 169
CatEventListTlv, 169
SetupEventList, 170
CatEventLst
currentCatEvent, 212
CatRefresh
currentCatEvent, 212
CatRefreshTlv, 170
RefreshMode, 170
RefreshStage, 170
causeCode
SMSAsyncRawSend_s, 1002
unpack_sms_SLQSWmsAsyncRawSendCallBack-_ind_t, 1325
ccSUPSType, 170
reason, 171
svcType, 171
ccsSupported
CDMASysInfo, 187
nas_CDMASysInfo, 466

ccsSupportedValid
CDMASysInfo, 187
nas_CDMASysInfo, 466
cdmaMsgDecodingParams, 174
absoluteValidity, 176
mcTimeStamp, 176
messageLength, 176
pAlertPriority, 176
pCallbkAddr, 176
pCallbkAddrLength, 176
pDisplayMode, 176
pLanguage, 176
pMessage, 177
pMessageID, 177
pPriority, 177
pPrivacy, 177
pReadAcknowledgementReq, 177
pRelativeValidity, 177
pSenderAddr, 177
pSenderAddrLength, 177
pTextMsg, 177
pTextMsgLength, 177
pUserAcknowledgementReq, 177
cdmaMsgDecodingParamsExt, 177
absoluteValidity, 179
mcTimeStamp, 179
messageLength, 179
pAlertPriority, 180
pCallbkAddr, 180
pCallbkAddrLength, 180
pDisplayMode, 180
pIsUDHPresent, 180
pLanguage, 180
pMessage, 180
pMessageID, 180
pPartNum, 180
pPriority, 180
pPrivacy, 180
pReadAcknowledgementReq, 180
pReferenceNum, 180
pRelativeValidity, 180
pSenderAddr, 180
pSenderAddrLength, 180
pTextMsg, 180
pTextMsgLength, 180
pTotalNum, 180
pUserAcknowledgementReq, 180
cdmaMsgEncodingParams, 180
messageId, 182
pCallbackAddr, 182
pDestAddr, 182
pEncodingAlphabet, 182
pMessage, 182
pMessageSize, 182
pPriority, 182
pRelValidity, 182
pTextMsg, 182
textMsgLength, 182
cdmaSSInfo, 183
ecio, 183
rssi, 183
cdmaSysIdValid
CDMASysInfo, 187
nas_CDMASysInfo, 466
cell_resel_priority
infoInterFreq, 353
nas_infoInterFreq, 498
cellBroadcastCap
AddSysInfo, 126
nas_AddSysInfo, 457
CellDb, 188
mask, 188
CellID
qaQmiServingSystemParam, 859
unpack_nas_SLQSGetServingSystem_t, 1242
cellID
GERANInfo, 276
nas_GERANInfo, 484
nas_UMTSInfo, 582
UMTSInfo, 1121
cellId
GSMSysInfo, 320
LTESysInfo, 445
nas_GSMSysInfo, 490
nas_LTESysInfo, 521
nas_WCDMASysInfo, 591
WCDMASysInfo, 1544
cellIdValid
gsmCellInfo, 316
GSMSysInfo, 320
LTESysInfo, 445
nas_gsmCellInfo, 486
nas_GSMSysInfo, 490
nas_LTESysInfo, 521
nas_WCDMASysInfo, 591
WCDMASysInfo, 1544
cellInterFreqParams
infoInterFreq, 353
nas_infoInterFreq, 498
cellIsTDD
nas_umtsLTENbrCell, 584
umtsLTENbrCell, 1123
CellParams
LTEInfoIntrafreq, 429
nas_LTEInfoIntrafreq, 507
cellParams, 188
pci, 189
rsrp, 189
rsrq, 189
rssi, 189
srxlev, 189
cellReselPriority
lteGsmCellInfo, 424
LTEInfoIntrafreq, 429
lteWcdmaCellInfo, 447
nas_lteGsmCellInfo, 502

nas_LTEInfoIntrafreq, 507
nas_lteWcdmaCellInfo, 522
cells_len
infoInterFreq, 353
lteGsmCellInfo, 424
nas_infoInterFreq, 499
nas_lteGsmCellInfo, 502
cellsLen
LTEInfoIntrafreq, 429
lteWcdmaCellInfo, 447
nas_LTEInfoIntrafreq, 507
nas_lteWcdmaCellInfo, 522
chaddr
wds_DHCPv4HWConfig, 1553
WdsDHCPv4HWConfig, 1572
wdsDhcpv4HwConfig, 1572
chaddrLen
wds_DHCPv4HWConfig, 1553
WdsDHCPv4HWConfig, 1572
wdsDhcpv4HwConfig, 1572
changePIN
pack_uim_ChangePin_t, 758
UIMChangePinReq, 1100
changeUIMPIN, 189
oldPINLen, 190
oldPINVal, 190
pinID, 190
pinLen, 190
pinVal, 190
ChannelRate, 190
CurrChanRxRate, 191
CurrChanTxRate, 191
DUNCallInfoInd, 257
MaxChanRxRate, 191
MaxChanTxRate, 191
wds_ChannelRateTlv, 1546
channelRate, 191
CurrChanRxRate, 191
CurrChanTxRate, 191
unpack_wds_SLQSGetDUNCallInfo_t, 1412
Chipset
DeviceConfigDetail, 236
nas_DeviceConfigDetail, 479
ciotAcqOrderLen
ciotAcqOrderPref, 192
CiotAcqOrderPrefTlv, 193
nas_ciotAcqOrderPref, 469
nas_CiotAcqOrderPrefTlv, 470
ciotAcqOrderPref, 191
ciotAcqOrderLen, 192
pCiotAcqOrder, 192
CiotAcqOrderPrefTlv, 192
ciotAcqOrderLen, 193
pCiotAcqOrder, 193
TlvPresent, 193
ciotLteOpModePref
CiotLteOpModePrefTlv, 193
nas_CiotLteOpModePrefTlv, 470
CiotLteOpModePrefTlv, 193
ciotLteOpModePref, 193
TlvPresent, 194
ckLen
depersonalizationInformation, 234
uim_depersonalizationInformation, 1082
ckVal
depersonalizationInformation, 234
uim_depersonalizationInformation, 1082
clear
pack_dms_SLQSSwiGetCrashInfo_t, 667
ClkInfo, 195
mask, 196
codingScheme
nas_PLMNNetworkNameData, 543
PLMNNetworkNameData, 831
remotePartyName, 906
voice_remotePartyName, 1478
CommInfo, 198
imsRegState, 200
modemMode, 200
psState, 200
systemMode, 200
temperature, 200
common.h
eAUDIO, 1589
eCAT, 1588
eCTL, 1588
eDMS, 1588
eIMS, 1588
eIMSA, 1588
eIND, 1589
eLOC, 1588
eLOG_DEBUG, 1588
eLOG_FATAL, 1588
eLOG_INFO, 1588
eLOG_WARN, 1588
eNAS, 1588
ePDS, 1588
eQOS, 1588
eREQ, 1589
eRMS, 1589
eRSP, 1589
eSAR, 1588
eSMS, 1588
eSWIAUDIO, 1589
eSWIDMS, 1589
eSWILOC, 1589
eSWIM2MCMD, 1589
eSWIM2MCMD_AVC2, 1589
eSWIOMA, 1589
eSWIOMAEXT, 1589
eTIMEOUT_10_S, 1589
eTIMEOUT_20_S, 1589
eTIMEOUT_2_S, 1589
eTIMEOUT_300_S, 1589
eTIMEOUT_30_S, 1589
eTIMEOUT_5_S, 1589

eTIMEOUT_60_S, 1589
eTIMEOUT_8_S, 1589
eTIMEOUT_DEFAULT, 1589
eTMD, 1588
eUIM, 1588
eVOICE, 1588
eWDS, 1588
common.h, 1585
eLOG_LEVEL, 1588
eQMI_SVC, 1588
eTimeout, 1589
fill_pack_ctx, 1589
fill_sdu_hdr, 1589
get_version, 1589
glog, 1591
gloglvl, 1591
helper_get_error_code, 1589
helper_get_error_reason, 1590
helper_get_req_str, 1590
helper_get_resp_ctx, 1590
helper_get_xid, 1590
helper_set_log_func, 1590
helper_set_log_lvl, 1590
liteqmi_GetVersion, 1590
liteqmi_helper_decode7bitAsciiEncString, 1590
liteqmi_log, 1591
logger, 1588
MINREQBKLEN, 1587
MSGID_AND_LEN, 1587
MSGID_DONT_CARE, 1587
msgtype, 1589
SDU_HDR_LEN, 1588
UNUSEDPARAM, 1588
unpack_result_code_only, 1591
commonInfo
swiModemStatusResp, 1034
unpack_nas_SLQSNasSwiModemStatus_t, 1265
ConcSvcInfo
unpack_nas_SLQSGetServingSystem_t, 1242
concSvcInfo
qaQmiServingSystemParam, 859
confidence
pack_loc_SLQSLOCSetCradleMountConfig_t, 689
Config
_SwiAvmsEventInd, 106
conn_status
unpack_wds_SLQSSetPacketSrvStatusCallback_-t, 1419
ConnRateElmntsV4
WdsConnectionRate, 1569
ConnRateElmntsV6
WdsConnectionRate, 1569
connStatus
_packetSrvStatus, 74
connectNumInfo, 202
callerID, 203
callerIDLen, 203
numPlan, 203
numPresInd, 203
numType, 203
screeningInd, 203
ConnectedPartyNum
arrConnectPartyNum, 142
voice_arrConnectPartyNum, 1442
ConnectionRequest
_SwiAvmsEventInd, 106
ConnectionStatus, 200
MDMCallDuration, 201
MDMConnStatus, 201
connectionStatus, 201
MDMCallDuration, 201
MDMConnStatus, 202
unpack_wds_GetSessionState_t, 1403
unpack_wds_SLQSGetDUNCallInfo_t, 1412
connetionState
imsaPdpStatusInfo, 338
content
authenticateResult, 145
readResult, 901
uim_authenticateResult, 1077
uim_readResult, 1089
contentLen
authenticateResult, 145
readResult, 901
uim_authenticateResult, 1077
uim_readResult, 1089
context
authenticationData, 146
uim_authenticationData, 1078
contextId
pack_wds_SLQSWdsSwiPDPRuntimeSettings_t, 812
swiPDPRuntimeSettingsReq, 1035
unpack_wds_SLQSWdsSwiPDPRuntimeSettings-_t, 1425
contextType
pack_wds_SLQSWdsSwiPDPRuntimeSettings_t, 812
swiPDPRuntimeSettingsReq, 1035
ControlMac
nas_protocolSubtypeElement, 545
protocolSubtypeElement, 850
count0
nas_RankIndicatorTlv, 549
Count1
RankIndicatorInd, 900
count1
nas_RankIndicatorTlv, 549
Count2
RankIndicatorInd, 900
countryInitials
nas_PLMNNetworkNameData, 543
PLMNNetworkNameData, 831
coverage
altitudeSrcInfo, 130
altSrcInfo_t, 131

cpich_ecno
nas_wcdmaCellInfo, 586
wcdmaCellInfo, 1534
cpich_rscp
nas_wcdmaCellInfo, 586
wcdmaCellInfo, 1534
cradleMountConfigStatus
QmiCbkLocCradleMountInd, 866
unpack_loc_CradleMountCallback_Ind_t, 1195
crashAction
pack_dms_SetCrashAction_t, 659
crashData
CrashInfo, 204
crashInformation, 206
crashId
CrashInfo, 204
crashInformation, 206
CrashInfo, 203
crashData, 204
crashId, 204
crashStrLen, 204
gcDumpStrLen, 204
numCrashes, 204
pCrashString, 204
pGCDumpString, 204
crashInfo
crashInfoParams, 205
crashInfoParam
unpack_dms_SLQSSwiGetCrashInfo_t, 1172
CrashInfoParams, 204
pCrashInfo, 205
pDevCrashStatus, 205
crashInfoParams, 205
crashInfo, 205
crashStatus, 205
crashInformation, 205
crashData, 206
crashId, 206
crashString, 206
crashStrlen, 206
gcdumpString, 206
gcdumpStrlen, 206
numCrashes, 206
crashStatus
crashInfoParams, 205
crashStrLen
CrashInfo, 204
crashString
crashInformation, 206
crashStrlen
crashInformation, 206
CreateProfileIn, 206
curProfile, 207
pProfileID, 207
pProfileType, 207
CreateProfileOut, 207
pExtErrorCode, 208
pProfileIndex, 208
pProfileType, 208
csAttachState
nas_servSystem, 567
NASServingSystemInfo, 627
ServingSystemInfo, 936
servSystem, 938
csBarStatus
CallBarringSysInfo, 153
callBarStatus, 154
nas_CallBarringSysInfo, 459
nas_callBarStatus, 460
CsgId, 208
csgId, 208
TlvPresent, 208
csgId
CsgId, 208
cur_carr_name
slqsfwinfo_s, 974
unpack_dms_GetFirmwareInfo_t, 1144
cur_carr_rev
slqsfwinfo_s, 974
unpack_dms_GetFirmwareInfo_t, 1144
curAMRConfig, 210
gsmAmrStat, 211
wcdmaAmrStat, 211
curDataBearerTechnology
unpack_wds_SLQSGetDataBearerTechnology_t, 1410
curProfile
_GetProfileSettingOut, 69
CreateProfileIn, 207
ModifyProfileIn, 451
pack_wds_SLQSModifyProfile_t, 804
UnPackGetProfileSettingOut, 1426
CurrChanRxRate
ChannelRate, 191
channelRate, 191
dunchannelRate, 258
wds_channelRate, 1545
CurrChanTxRate
ChannelRate, 191
channelRate, 191
dunchannelRate, 258
wds_channelRate, 1545
currDBTechAvail
unpack_wds_SLQSSetWdsEventCallback_ind_t, 1420
CurrDataSysStat, 211
pCurrNetworkInfo, 212
pNetworkInfoLen, 212
pPrefNetwork, 212
CurrImageInfo, 214
buildID, 215
buildIDLen, 215
imageType, 215
uniqueID, 215
currNWInfo

unpack_wds_SLQSSetWdsEventCallback_ind_t, 1420
CurrNetworkInfo, 215
NetworkType, 216
RATMask, 217
SOMask, 217
currNetworkInfo, 217
NetworkType, 218
RATMask, 218
SOMask, 218
unpack_wds_SLQSGetCurrDataSystemStat_t, 1408
current_channel_rx_rate
unpack_wds_SLQSGetCurrentChannelRate_t, 1409
WDSSWICurrentChannelRates, 1584
current_channel_tx_rate
unpack_wds_SLQSGetCurrentChannelRate_t, 1409
WDSSWICurrentChannelRates, 1584
currentCatEvent, 212
CatAlphaIdtfr, 212
CatEndPS, 212
CatEvIDData, 212
CatEventLst, 212
CatRefresh, 212
currentChannelRXRate
unpack_wds_GetConnectionRate_t, 1391
currentChannelTXRate
unpack_wds_GetConnectionRate_t, 1391
currentDataBearer
pack_wds_SLQSSetWdsEventCallback_t, 807
CurrentImgList, 212
carrier, 213
fwvers, 213
numEntries, 213
pCurrImgInfo, 213
pkgver, 213
priver, 213
currentMitigationLvl
QmiCbkTmdMitiLvlRptInd, 884
currentNetwork
dataBearerTechnology, 228
qmiWDSDataBearerTechnology, 889
CurrentPLMN
qaQmiServingSystemParam, 859
unpack_nas_SLQSGetServingSystem_t, 1242
currentPLMN, 213
MCC, 214
MNC, 214
netDescr, 214
netDescrLength, 214
cust_attr
custSettingInfo, 223
DMScustSettingInfo, 248
cust_id
custSettingInfo, 223
DMScustSettingInfo, 248
DMSgetCustomInput, 250
getCustomInput, 287
pack_dms_GetCustFeaturesV2_t, 658
pack_dms_SetCustFeaturesV2_t, 662
setCustomSettingV2, 945
cust_value
custSettingInfo, 223
DMScustSettingInfo, 248
pack_dms_SetCustFeaturesV2_t, 662
setCustomSettingV2, 945
custFeaturesInfo, 218
GpsEnable, 220
pDHCPRelayEnabled, 220
pDisableIMSI, 220
pGPSLPM, 220
pGPSSel, 220
pIPFamSupport, 220
pIsVoiceEnabled, 220
pRMAutoConnect, 220
pSMSSupport, 220
qaGobiApiDms.h, 1855
custFeaturesSetting, 221
pDHCPRelayEnabled, 222
pGPSEnable, 222
pGPSLPM, 222
pGPSSel, 222
pIsVoiceEnabled, 222
qaGobiApiDms.h, 1856
custSetting
custSettingList, 223
DMScustSettingList, 249
custSettingInfo, 222
cust_attr, 223
cust_id, 223
cust_value, 223
id_length, 223
value_length, 223
custSettingList, 223
custSetting, 223
list_type, 223
num_instances, 224
CustomSCP
unpack_nas_GetCDMANetworkParameters_t, 1219
CwtMute
GetM2MAudioProfileResp, 300
GetM2MAVMuteResp, 302

DEVICE_STATE_BOOT
qaGobiApiCbk.h, 1804
DEVICE_STATE_DISCONNECTED
qaGobiApiCbk.h, 1804
DEVICE_STATE_READY
qaGobiApiCbk.h, 1804
DEVICE_STATE_SERIAL_ONLY
qaGobiApiCbk.h, 1804
DBTTlv
unpack_wds_SLQSDUNCallInfoCallBack_ind_t, 1406

dBTechAvail
unpack_wds_SLQSSetWdsEventCallback_ind_t, 1420
dBTechExtRatValue
unpack_wds_SLQSSetWdsEventCallback_ind_t, 1420
dBTechExtSoMask
unpack_wds_SLQSSetWdsEventCallback_ind_t, 1420
dBTechnology
unpack_wds_SLQSSetWdsEventCallback_ind_t, 1420
dBtechExtAvail
unpack_wds_SLQSSetWdsEventCallback_ind_t, 1420
dBtechnologyExt
unpack_wds_SLQSSetWdsEventCallback_ind_t, 1420
DEFAULTBYTEVALUE
qaGobiApiPds.h, 1985
DEFAULTLONGVALUE
qaGobiApiPds.h, 1985
DEFAULTWORDVALUE
qaGobiApiPds.h, 1985
DEREGISTER_EVENT
qaGobiApiCbk.h, 1764
DEREGISTER_SRV
qaGobiApiCbk.h, 1764
DEVICE_OFFLINE
qaGobiApiFms.h, 1896
DEVICE_RESET
qaGobiApiFms.h, 1896
DEVICE_SHUTDOWN
qaGobiApiFms.h, 1896
DHCPOption, 237
optCode, 237
optValLen, 237
pOptVal, 237
DHCPOptionList, 237
numOpt, 238
pOptions, 238
DHCPRelayEnabled
pack_dms_SetCustFeature_t, 661
unpack_dms_GetCustFeature_t, 1136
DHCPv4LeaseOptTlv
unpack_wds_DHCPv4ClientLease_ind_t, 1390
DHCPv4LeaseStateTlv
unpack_wds_DHCPv4ClientLease_ind_t, 1390
dLatitude
unpack_pds_SetEventReport_Ind_t, 1285
dLongitude
unpack_pds_SetEventReport_Ind_t, 1285
DMS_IMGDETAILS_LEN
dms.h, 1598
DMS_PM_FACTORY
dms.h, 1598
DMS_PM_LOW
dms.h, 1598
DMS_PM_OFFLINE
dms.h, 1598
DMS_PM_ONLINE
dms.h, 1598
DMS_PM_RESET
dms.h, 1599
DMS_PM_SHUT_DOWN
dms.h, 1599
DMS_VALID_FSN_LEN
dms.h, 1599
DMScustSettingInfo, 247
cust_attr, 248
cust_id, 248
cust_value, 248
id_length, 248
value_length, 248
DMScustSettingList, 248
custSetting, 249
list_type, 249
num_instances, 249
DMSgetCustomFeatureV2, 249
pCustSettingInfo, 249
pCustSettingList, 249
pGetCustomInput, 249
DMSgetCustomInput, 250
cust_id, 250
list_type, 250
DRCCover
DRCParams, 255
nas_DRCParams, 480
DRCParams, 254
DRCCover, 255
DRCValue, 255
DRCValue
DRCParams, 255
nas_DRCParams, 480
DSTlv
unpack_wds_SLQSDUNCallInfoCallBack_ind_t, 1406
DTMFEvent
DTMFInfo, 256
voice_DTMFInfo, 1465
DTMFInfo, 255
callID, 256
DTMFEvent, 256
digitBuff, 256
digitCnt, 256
DTMFInformation
unpack_voice_DTMFEventCallback_ind_t, 1350
voiceDTMFEventInfo, 1493
DTMFInterdigitInterval
DTMFLengths, 256
voice_DTMFLengths, 1466
DTMFLengths, 256
DTMFInterdigitInterval, 256
DTMFPulseWidth, 257
DTMFPulseWidth
DTMFLengths, 257

voice_DTMFLengths, 1466
DTMFdigit
pack_voice_SLQSVoiceStartContDTMF_t, 787
voiceContDTMFinfo, 1492
DTMInd
qaQmiServingSystemParam, 859
unpack_nas_SLQSGetServingSystem_t, 1242
DUNCallInfoInd, 257
CallEndReason, 257
ChannelRate, 257
DataBearerTech, 257
DormancyStatus, 257
MdmConnStatus, 257
RXOKBytesCount, 257
TXOKBytesCount, 257
Data
CatEventIDDataTlv, 169
data
authenticationData, 146
SMSCAddress, 1003
sMSCAddressInfo, 1003
SMSEtwsMessage, 1004
sMSEtwsMessageInfo, 1005
SMSTransferRouteMTMessage, 1016
sMSTransferRouteMTMessageInfo, 1016
SwiOTAMsg_s, 1034
uim_authenticationData, 1078
data_buf
NASOTAMessageTlv, 616
data_len
NASOTAMessageTlv, 616
SwiOTAMsg_s, 1034
dataBearer
pack_wds_SLQSSetWdsEventCallback_t, 807
dataBearerMask
dataBearers, 224
unpack_wds_SLQSGetDataBearerTechnology_t, 1410
DataBearerTech, 224
DUNCallInfoInd, 257
ratValue, 226
soMask, 226
techType, 226
wds_DataBearTechTlv, 1549
dataBearerTech
unpack_wds_SLQSGetDUNCallInfo_t, 1412
DataBearerTechExt, 226
pBearerTech, 227
pLastBearerTech, 227
dataBearerTechExt
pack_wds_SLQSSetWdsEventCallback_t, 807
dataBearerTechnology, 227
currentNetwork, 228
ratMask, 228
soMask, 228
dataBearers, 224
dataBearerMask, 224
pCurDataBearerTechnology, 224
pLastCallDataBearerTechnology, 224
dataCapabilities
dataSrvCapabilities, 229
nas_dataSrvCapabilities, 475
dataCapabilitiesLen
dataSrvCapabilities, 229
nas_dataSrvCapabilities, 475
DataCaps
unpack_nas_GetServingNetwork_t, 1227
unpack_nas_GetServingNetworkCapabilities_t, 1228
dataCaps
unpack_nas_SetDataCapabilitiesCallback_ind_t, 1230
DataCapsLen
unpack_nas_GetServingNetwork_t, 1227
unpack_nas_GetServingNetworkCapabilities_t, 1228
dataCapsSize
unpack_nas_SetDataCapabilitiesCallback_ind_t, 1230
dataLen
authenticationData, 146
uim_authenticationData, 1078
DataLength
CatEventIDDataTlv, 169
DataRate
unpack_qos_swiQosFlow_t, 1308
dataRate, 228
dataRateMax, 229
guaranteedRate, 229
dataRateMax
dataRate, 229
unpack_qos_dataRate_t, 1292
dataServiceCaCapability
unpack_dms_GetDeviceCapabilities_t, 1140
DataServiceCapability
unpack_dms_GetDeviceCap_t, 1138
DataSessionStatus
_SwiAvmsEventInd, 106
DataSrvCapabilities
qaQmiServingSystemParam, 859
unpack_nas_SLQSGetServingSystem_t, 1242
dataSrvCapabilities, 229
dataCapabilities, 229
dataCapabilitiesLen, 229
DataStatusDetail, 230
IPAddress, 231
LastErrCode, 231
dataSysStatAvail
unpack_wds_SLQSSetWdsEventCallback_ind_t, 1420
dataSystemStatus
pack_wds_SLQSSetWdsEventCallback_t, 807
DataULongLongTlv, 232
TlvPresent, 232
ullData, 232
DataULongTlv, 232

TlvPresent, 232
ulData, 232
Date
unpack_swioma_SLQSOMADMGetSessionInfo_t, 1333
wcdmaLongMsgDecodingParams, 1537
wcdmaMsgDecodingParams, 1539
DateLength
unpack_swioma_SLQSOMADMGetSessionInfo_t, 1333
day
nas_timeInfo, 579
nas_UniversalTime, 585
timeInfo, 1063
UniversalTime, 1131
dayLtSavingAdj
nas_timeInfo, 579
timeInfo, 1063
dayOfWeek
nas_timeInfo, 579
nas_UniversalTime, 585
timeInfo, 1063
UniversalTime, 1131
daylightSavings
nas_qaQmi3Gpp2TimeZone, 546
qaQmi3Gpp2TimeZone, 855
DcsUsbPortNames, 232
AtCmdPort, 232
DmPort, 232
NmeaPort, 232
dedicatedBand
nas_RfDedicatedBandInfoElements, 556
RfDedicatedBandInfoElements, 914
defaultPDNEnabled
unpack_wds_SLQSGet3GPPConfigItem_t, 1407
DefaultRoamInd
unpack_nas_SLQSGetServingSystem_t, 1242
defaultRoamInd
qaQmiServingSystemParam, 859
delAssistDataStatus, 232
results, 233
status, 233
delayClass
GPRSQoS, 310
GPRSRequestedQoS, 311
LibPackGPRSRequestedQoS, 360
wds_GPRSQoS, 1557
DeleteStoredImage
qaGobiApiFms.h, 1899
deliveryErrSDU
LibPackUMTSQoS, 388
UMTSMinQoS, 1125
UMTSQoS, 1128
wds_UMTSMinQoS, 1566
depersonalizationInformation, 233
ckLen, 234
ckVal, 234
feature, 234
operation, 234
depersonilisationInfo
pack_uim_SLQSUIMDepersonalization_t, 761
UIMDepersonalizationReq, 1101
Description
SlqsNas3GppNetworkInfo, 975
description
omaDmFotaTlv, 651
omaDmFotaTlvExt, 654
unpack_omaDmFotaTlv_t, 1278
descriptionlength
omaDmFotaTlv, 651
omaDmFotaTlvExt, 654
unpack_omaDmFotaTlv_t, 1278
Desription
nas_QmiNas3GppNetworkInfo, 547
destPortRangeEnd
LibPackTFTIDParams, 385
TFTIDParams, 1061
destPortRangeStart
LibPackTFTIDParams, 385
TFTIDParams, 1061
detailSvcInfo, 234
hdrHybrid, 235
hdrSrvStatus, 235
isSysForbidden, 235
srvCapability, 235
srvStatus, 236
DetailedSvcInfo
qaQmiServingSystemParam, 859
unpack_nas_SLQSGetServingSystem_t, 1242
dev
qmifwinfo_s, 885
DevCrashState
unpack_dms_GetCrashAction_t, 1134
Device
SetM2MAudioAVCFGReq, 951
Device Connectivity Service (DCS), 41
Device Management Service (DMS), 43
device_state_enum
qaGobiApiCbk.h, 1804
DeviceConfigDetail, 236
Chipset, 236
HWVersion, 236
QLIC, 237
Technology, 237
deviceID
_MitigationDevInfo, 71
deviceIdLen
_MitigationDevInfo, 71
DiagInfo
allCallsDiagInfo, 128
arrDiagInfo, 142
voice_allCallsDiagInfo, 1436
voice_arrDiagInfo, 1442
diagInfo, 238
diagInfoLen, 238
diagnosticInfo, 238

diagInfoLen
diagInfo, 238
voice_diagInfo, 1464
diagnosticInfo
diagInfo, 238
voice_diagInfo, 1464
digitBuff
DTMFInfo, 256
voice_DTMFInfo, 1465
digitCnt
burstDTMFInfo, 152
DTMFInfo, 256
voice_burstDTMFInfo, 1446
voice_DTMFInfo, 1465
dirNum, 238
dirNum, 239
dirNumLen, 239
dirNum, 239
nas_dirNum, 479
dirNumLen
dirNum, 239
nas_dirNum, 479
direction
callInfo, 163
voice_callInfo, 1455
DisableIMSI
pack_dms_SetCustFeature_t, 661
unpack_dms_GetCustFeature_t, 1136
dispType
extDispRecInfo, 264
voice_extDispRecInfo, 1467
displayCondition
nas_serviceProviderName, 565
serviceProviderName, 935
dl_bw_value
nas_PhyCaAggPcellInfo, 536
nas_PhyCaAggScellDlBw, 536
nas_PhyCaAggScellInfo, 540
NASPhyCaAggPcellInfo, 616
NASPhyCaAggScellDlBw, 617
NASPhyCaAggScellInfo, 619
PhyCaAggPcellInfo, 822
PhyCaAggScellDlBw, 823
PhyCaAggScellInfo, 827
DmPort
DcsUsbPortNames, 232
dms.h, 1591
ACT_CODE_MAX_SIZE, 1598
CK_MAX_SIZE, 1598
DMS_IMGDETAILS_LEN, 1598
DMS_PM_FACTORY, 1598
DMS_PM_LOW, 1598
DMS_PM_OFFLINE, 1598
DMS_PM_ONLINE, 1598
DMS_PM_RESET, 1599
DMS_PM_SHUT_DOWN, 1599
DMS_VALID_FSN_LEN, 1599
ERI_DATA_MAX_SIZE, 1599
MAX_BUILD_ID_LEN, 1599
MEID_MAX_SIZE, 1599
pack_dms_ActivateAutomatic, 1600
pack_dms_GetActivationState, 1600
pack_dms_GetBandCapability, 1600
pack_dms_GetCrashAction, 1601
pack_dms_GetCustFeature, 1601
pack_dms_GetCustFeaturesV2, 1601
pack_dms_GetDeviceCap, 1602
pack_dms_GetDeviceCapabilities, 1602
pack_dms_GetDeviceHardwareRev, 1603
pack_dms_GetDeviceMfr, 1603
pack_dms_GetDeviceSerialNumbers, 1603
pack_dms_GetFSN, 1605
pack_dms_GetFirmwareInfo, 1604
pack_dms_GetFirmwareRevision, 1604
pack_dms_GetFirmwareRevisions, 1604
pack_dms_GetHardwareRevision, 1605
pack_dms_GetIMSI, 1605
pack_dms_GetManufacturer, 1606
pack_dms_GetModelID, 1606
pack_dms_GetNetworkTime, 1606
pack_dms_GetOfflineReason, 1607
pack_dms_GetPRLVersion, 1607
pack_dms_GetPower, 1607
pack_dms_GetSerialNumbers, 1608
pack_dms_GetUSBComp, 1608
pack_dms_GetVoiceNumber, 1608
pack_dms_ResetToFactoryDefaults, 1609
pack_dms_SLQSDmsSwiGetPCInfo, 1613
pack_dms_SLQSDmsSwiGetResetInfo, 1613
pack_dms_SLQSDmsSwiIndicationRegister, 1613
pack_dms_SLQSGetBandCapability, 1614
pack_dms_SLQSGetERIFile, 1614
pack_dms_SLQSGetPowerSaveModeConfig, 1614
pack_dms_SLQSSetPowerSaveModeConfig, 1615
pack_dms_SLQSSwiClearDyingGaspStatistics, 1615
pack_dms_SLQSSwiGetCrashInfo, 1615
pack_dms_SLQSSwiGetDyingGaspCfg, 1616
pack_dms_SLQSSwiGetDyingGaspStatistics, 1616
pack_dms_SLQSSwiGetFirmwareCurr, 1616
pack_dms_SLQSSwiGetFwUpdateStatus, 1617
pack_dms_SLQSSwiGetHostDevInfo, 1617
pack_dms_SLQSSwiGetOSInfo, 1617
pack_dms_SLQSSwiGetSerialNoExt, 1618
pack_dms_SLQSSwiSetDyingGaspCfg, 1618
pack_dms_SLQSSwiSetHostDevInfo, 1618
pack_dms_SLQSSwiSetOSInfo, 1619
pack_dms_SLQSUIMGetState, 1619
pack_dms_SetActivationStatusCallback, 1609
pack_dms_SetCrashAction, 1610
pack_dms_SetCustFeature, 1610
pack_dms_SetCustFeaturesV2, 1610
pack_dms_SetEventReport, 1611
pack_dms_SetFirmwarePreference, 1611
pack_dms_SetIndicationRegister, 1611

pack_dms_SetPower, 1612
pack_dms_SetUSBComp, 1612
pack_dms_SwiSetEventReport, 1620
pack_dms_UIMChangePIN, 1620
pack_dms_UIMGetControlKeyStatus, 1620
pack_dms_UIMGetICCID, 1621
pack_dms_UIMGetPINStatus, 1621
pack_dms_UIMSetControlKeyProtection, 1621
pack_dms_UIMSetPINProtection, 1622
pack_dms_UIMUnblockControlKey, 1622
pack_dms_UIMUnblockPIN, 1623
pack_dms_UIMVerifyPIN, 1623
pack_dms_ValidateSPC, 1623
SPC_SIZE, 1599
UNIQUE_ID_LEN, 1599
unpack_dms_ActivateAutomatic, 1624
unpack_dms_GetActivationState, 1624
unpack_dms_GetBandCapability, 1625
unpack_dms_GetCrashAction, 1625
unpack_dms_GetCustFeature, 1625
unpack_dms_GetCustFeaturesV2, 1626
unpack_dms_GetDeviceCap, 1626
unpack_dms_GetDeviceCapabilities, 1626
unpack_dms_GetDeviceHardwareRev, 1627
unpack_dms_GetDeviceMfr, 1627
unpack_dms_GetDeviceSerialNumbers, 1627
unpack_dms_GetFSN, 1629
unpack_dms_GetFirmwareInfo, 1628
unpack_dms_GetFirmwareRevision, 1628
unpack_dms_GetFirmwareRevisions, 1628
unpack_dms_GetHardwareRevision, 1629
unpack_dms_GetIMSI, 1629
unpack_dms_GetManufacturer, 1630
unpack_dms_GetModelID, 1630
unpack_dms_GetNetworkTime, 1630
unpack_dms_GetOfflineReason, 1631
unpack_dms_GetPRLVersion, 1631
unpack_dms_GetPower, 1631
unpack_dms_GetSerialNumbers, 1632
unpack_dms_GetUSBComp, 1632
unpack_dms_GetVoiceNumber, 1632
unpack_dms_PSMCfgChange_ind, 1633
unpack_dms_ResetToFactoryDefaults, 1633
unpack_dms_SLQSDmsSwiGetPCInfo, 1637
unpack_dms_SLQSDmsSwiGetResetInfo, 1637
unpack_dms_SLQSDmsSwiGetResetInfo_Ind, 1638
unpack_dms_SLQSDmsSwiIndicationRegister, 1638
unpack_dms_SLQSGetBandCapability, 1638
unpack_dms_SLQSGetERIFile, 1639
unpack_dms_SLQSGetPowerSaveModeConfig, 1639
unpack_dms_SLQSSetPowerSaveModeConfig, 1639
unpack_dms_SLQSSwiClearDyingGaspStatistics, 1640
unpack_dms_SLQSSwiGetCrashInfo, 1640
unpack_dms_SLQSSwiGetDyingGaspCfg, 1641
unpack_dms_SLQSSwiGetDyingGaspStatistics, 1641
unpack_dms_SLQSSwiGetFirmwareCurr, 1641
unpack_dms_SLQSSwiGetFwUpdateStatus, 1642
unpack_dms_SLQSSwiGetHostDevInfo, 1642
unpack_dms_SLQSSwiGetOSInfo, 1642
unpack_dms_SLQSSwiGetSerialNoExt, 1643
unpack_dms_SLQSSwiSetDyingGaspCfg, 1643
unpack_dms_SLQSSwiSetHostDevInfo, 1643
unpack_dms_SLQSSwiSetOSInfo, 1644
unpack_dms_SLQSUIMGetState, 1644
unpack_dms_SetActivationStatusCallback, 1633
unpack_dms_SetCrashAction, 1634
unpack_dms_SetCustFeature, 1634
unpack_dms_SetCustFeaturesV2, 1634
unpack_dms_SetEventReport, 1635
unpack_dms_SetEventReport_ind, 1635
unpack_dms_SetFirmwarePreference, 1635
unpack_dms_SetIndicationRegister, 1636
unpack_dms_SetPower, 1636
unpack_dms_SetUSBComp, 1636
unpack_dms_SwiEventReportCallBack_ind, 1644
unpack_dms_SwiSetEventReport, 1645
unpack_dms_UIMChangePIN, 1645
unpack_dms_UIMGetControlKeyStatus, 1645
unpack_dms_UIMGetICCID, 1646
unpack_dms_UIMGetPINStatus, 1646
unpack_dms_UIMSetControlKeyProtection, 1646
unpack_dms_UIMSetPINProtection, 1647
unpack_dms_UIMUnblockControlKey, 1647
unpack_dms_UIMUnblockPIN, 1648
unpack_dms_UIMVerifyPIN, 1648
unpack_dms_ValidateSPC, 1648
dms_ActivationStatusTlv, 239
activationStatus, 240
TlvPresent, 240
dms_OperatingModeTlv, 240
operatingMode, 240
TlvPresent, 240
dms_PSMActiveTimerIndTlv, 240
ActiveTimerInd, 241
TlvPresent, 241
dms_PSMActiveTimerTlv, 241
activeTimer, 241
TlvPresent, 241
dms_PSMDurationDueToOOSTlv, 241
durationDueToOOS, 242
TlvPresent, 242
dms_PSMDurationThresholdTlv, 242
durationThreshold, 242
TlvPresent, 242
dms_PSMEarlyWakeupTimeTlv, 242
earlyWakeupTime, 243
TlvPresent, 243
dms_PSMEnableStateIndTlv, 243
EnableStateInd, 243
TlvPresent, 243

dms_PSMEnableStateTlv, 243
enableState, 244
TlvPresent, 244
dms_PSMPeriodicUpdateTimerIndTlv, 244
PeriodicUpdateTimerInd, 244
TlvPresent, 244
dms_PSMPeriodicUpdateTimerTlv, 244
periodicUpdateTimer, 245
TlvPresent, 245
dms_PSMRandomizationWindowTlv, 245
randomizationWindow, 245
TlvPresent, 245
dms_TemperatureTlv, 245
TempStat, 246
Temperature, 246
TlvPresent, 246
dms_VoltageTlv, 246
TlvPresent, 247
VoltStat, 247
Voltage, 247
dmsCurrentPRLInfo, 247
pPRLPreference, 247
pPRLVersion, 247
qaGobiApiDms.h, 1857
dmsIndicationRegisterReq, 250
pSwiGetResetInd, 250
dmsPsmCfgParamChange, 251
pActiveTimer, 251
pEnableState, 251
pPeriodicUpdateTimer, 251
dmsSwiGetPCInfo, 251
opMode, 252
pLpmFlag, 253
pPersistentLpm, 253
pPowerOffMode, 253
pWdisable, 253
dmsSwiGetResetInfo, 253
source, 253
type, 253
Domain, 253
domainLen, 254
domainName, 254
domain
DomainNameList, 254
wds_DomainNameList, 1556
domainLen
Domain, 254
wds_Domain, 1555
DomainList
unpack_wds_SLQSGetRuntimeSettings_t, 1415
domainName
Domain, 254
wds_Domain, 1555
DomainNameList, 254
domain, 254
numInstances, 254
DormancyStat
wds_DormStatTlv, 1556
dormancyStatAvail
unpack_wds_SLQSSetWdsEventCallback_ind_t, 1420
dormancyState
unpack_wds_GetDormancyState_t, 1396
DormancyStatus
DUNCallInfoInd, 257
dormancyStatus
pack_wds_SLQSSetWdsEventCallback_t, 807
unpack_wds_SLQSGetDUNCallInfo_t, 1413
unpack_wds_SLQSSetWdsEventCallback_ind_t, 1420
downLink
NSSAudioCtrl, 646
voice_NSSAudioCtrl, 1472
DownloadToSlot
qaGobiApiFms.h, 1899
dscp
QosMap, 900
dtmSupp
GSMSysInfo, 320
nas_GSMSysInfo, 490
dtmSuppValid
GSMSysInfo, 320
nas_GSMSysInfo, 490
dunchannelRate, 257
CurrChanRxRate, 258
CurrChanTxRate, 258
MaxChanRxRate, 258
MaxChanTxRate, 258
Duration
pack_nas_SetNetworkPreference_t, 695
unpack_nas_GetNetworkPreference_t, 1224
durationDueToOOS
dms_PSMDurationDueToOOSTlv, 242
PSMDurationDueToOOSTlv, 852
durationThreshold
dms_PSMDurationThresholdTlv, 242
PSMDurationThresholdTlv, 852

eAUDIO
common.h, 1589
eCAT
common.h, 1588
eCTL
common.h, 1588
eDMS
common.h, 1588
eGOBI_DEV_SERIES_9X07_9X50
qaGobiApiFms.h, 1897
eGOBI_DEV_SERIES_9X15
qaGobiApiFms.h, 1897
eGOBI_DEV_SERIES_9X30
qaGobiApiFms.h, 1897
eGOBI_DEV_SERIES_G3K
qaGobiApiFms.h, 1897
eGOBI_DEV_SERIES_NON_GOBI
qaGobiApiFms.h, 1897
eGOBI_DEV_SERIES_SIERRA_GOBI

qaGobiApiFms.h, 1897
eGOBI_DEV_SERIES_UNKNOWN
qaGobiApiFms.h, 1897
eGOBI_IMG_CAR_3
qaGobiApiFms.h, 1898
eGOBI_IMG_CAR_AERIS
qaGobiApiFms.h, 1898
eGOBI_IMG_CAR_ALLTEL
qaGobiApiFms.h, 1897
eGOBI_IMG_CAR_AMX_TELCEL
qaGobiApiFms.h, 1898
eGOBI_IMG_CAR_ATT
qaGobiApiFms.h, 1897
eGOBI_IMG_CAR_BELL
qaGobiApiFms.h, 1897
eGOBI_IMG_CAR_BHARTI
qaGobiApiFms.h, 1898
eGOBI_IMG_CAR_BRASIL_VIVO
qaGobiApiFms.h, 1898
eGOBI_IMG_CAR_CHINA_MOBILE
qaGobiApiFms.h, 1898
eGOBI_IMG_CAR_CHINA_TELECOM
qaGobiApiFms.h, 1897
eGOBI_IMG_CAR_CHINA_UNICOM
qaGobiApiFms.h, 1897
eGOBI_IMG_CAR_EMOBILE
qaGobiApiFms.h, 1898
eGOBI_IMG_CAR_FACTORY
qaGobiApiFms.h, 1897
eGOBI_IMG_CAR_GENERIC
qaGobiApiFms.h, 1897
eGOBI_IMG_CAR_GENERIC_CDMA
qaGobiApiFms.h, 1897
eGOBI_IMG_CAR_IUSACELL
qaGobiApiFms.h, 1897
eGOBI_IMG_CAR_KDDI
qaGobiApiFms.h, 1897
eGOBI_IMG_CAR_KT_FREETEL
qaGobiApiFms.h, 1898
eGOBI_IMG_CAR_LEAP
qaGobiApiFms.h, 1897
eGOBI_IMG_CAR_METROPCS
qaGobiApiFms.h, 1897
eGOBI_IMG_CAR_NETCOM
qaGobiApiFms.h, 1898
eGOBI_IMG_CAR_NORF
qaGobiApiFms.h, 1897
eGOBI_IMG_CAR_NTT_DOCOMO
qaGobiApiFms.h, 1898
eGOBI_IMG_CAR_O2
qaGobiApiFms.h, 1898
eGOBI_IMG_CAR_OMH
qaGobiApiFms.h, 1897
eGOBI_IMG_CAR_ORANGE
qaGobiApiFms.h, 1898
eGOBI_IMG_CAR_RELIANCE1
qaGobiApiFms.h, 1897
eGOBI_IMG_CAR_RELIANCE2
qaGobiApiFms.h, 1898
eGOBI_IMG_CAR_ROGERS
qaGobiApiFms.h, 1898
eGOBI_IMG_CAR_SFR
qaGobiApiFms.h, 1898
eGOBI_IMG_CAR_SINGTEL_OPTUS
qaGobiApiFms.h, 1898
eGOBI_IMG_CAR_SK_TELCOM1
qaGobiApiFms.h, 1897
eGOBI_IMG_CAR_SK_TELCOM2
qaGobiApiFms.h, 1898
eGOBI_IMG_CAR_SOFTBANK
qaGobiApiFms.h, 1898
eGOBI_IMG_CAR_SPRINT
qaGobiApiFms.h, 1897
eGOBI_IMG_CAR_SWISSCOM
qaGobiApiFms.h, 1898
eGOBI_IMG_CAR_TATA
qaGobiApiFms.h, 1897
eGOBI_IMG_CAR_TELCOM_ITALIA
qaGobiApiFms.h, 1898
eGOBI_IMG_CAR_TELCOM_NZ
qaGobiApiFms.h, 1897
eGOBI_IMG_CAR_TELEFONICA
qaGobiApiFms.h, 1898
eGOBI_IMG_CAR_TELENOR
qaGobiApiFms.h, 1898
eGOBI_IMG_CAR_TELIASONERA
qaGobiApiFms.h, 1898
eGOBI_IMG_CAR_TELSTRA1
qaGobiApiFms.h, 1897
eGOBI_IMG_CAR_TELSTRA2
qaGobiApiFms.h, 1898
eGOBI_IMG_CAR_TELUS
qaGobiApiFms.h, 1897
eGOBI_IMG_CAR_TMOBILE
qaGobiApiFms.h, 1897
eGOBI_IMG_CAR_US
qaGobiApiFms.h, 1897
eGOBI_IMG_CAR_VERIZON
qaGobiApiFms.h, 1897
eGOBI_IMG_CAR_VODAFONE
qaGobiApiFms.h, 1897
eGOBI_IMG_GPS_ASSISTED
qaGobiApiFms.h, 1898
eGOBI_IMG_GPS_NO_XTRA
qaGobiApiFms.h, 1898
eGOBI_IMG_GPS_NONE
qaGobiApiFms.h, 1898
eGOBI_IMG_GPS_STAND_ALONE
qaGobiApiFms.h, 1898
eGOBI_IMG_REG_ASIA
qaGobiApiFms.h, 1898
eGOBI_IMG_REG_AUS
qaGobiApiFms.h, 1898
eGOBI_IMG_REG_EU
qaGobiApiFms.h, 1898
eGOBI_IMG_REG_GLOBAL

qaGobiApiFms.h, 1898
eGOBI_IMG_REG_LA
qaGobiApiFms.h, 1898
eGOBI_IMG_REG_NA
qaGobiApiFms.h, 1898
eGOBI_IMG_TECH_CDMA
qaGobiApiFms.h, 1899
eGOBI_IMG_TECH_UMTS
qaGobiApiFms.h, 1899
eGobi_DEV_SERIES_MC83
qaGobiApiFms.h, 1897
eIMS
common.h, 1588
eIMSA
common.h, 1588
eIND
common.h, 1589
eLITEQMI_NAS_LTE_CPHY_CA_BW_NRB_100
nas.h, 1683
eLITEQMI_NAS_LTE_CPHY_CA_BW_NRB_15
nas.h, 1683
eLITEQMI_NAS_LTE_CPHY_CA_BW_NRB_25
nas.h, 1683
eLITEQMI_NAS_LTE_CPHY_CA_BW_NRB_50
nas.h, 1683
eLITEQMI_NAS_LTE_CPHY_CA_BW_NRB_6
nas.h, 1683
eLITEQMI_NAS_LTE_CPHY_CA_BW_NRB_75
nas.h, 1683
eLITEQMI_NAS_LTE_CPHY_SCELL_STATE_CONFIGURED_ACTIVATED
nas.h, 1683
eLITEQMI_NAS_LTE_CPHY_SCELL_STATE_CONFIGURED_DEACTIVATED
nas.h, 1683
eLITEQMI_NAS_LTE_CPHY_SCELL_STATE_DECONFIGURED
nas.h, 1683
eLOC
common.h, 1588
eLOG_DEBUG
common.h, 1588
eLOG_FATAL
common.h, 1588
eLOG_INFO
common.h, 1588
eLOG_WARN
common.h, 1588
eNAS
common.h, 1588
eNAS_LTE_CPHY_CA_BW_NRB_100
qaGobiApiNas.h, 1949
eNAS_LTE_CPHY_CA_BW_NRB_15
qaGobiApiNas.h, 1949
eNAS_LTE_CPHY_CA_BW_NRB_25
qaGobiApiNas.h, 1949
eNAS_LTE_CPHY_CA_BW_NRB_50
qaGobiApiNas.h, 1949
eNAS_LTE_CPHY_CA_BW_NRB_6
qaGobiApiNas.h, 1949
eNAS_LTE_CPHY_CA_BW_NRB_75
qaGobiApiNas.h, 1949
eNAS_LTE_CPHY_CA_BW_NRB_LITE_100
nas.h, 1683
eNAS_LTE_CPHY_CA_BW_NRB_LITE_15
nas.h, 1683
eNAS_LTE_CPHY_CA_BW_NRB_LITE_25
nas.h, 1683
eNAS_LTE_CPHY_CA_BW_NRB_LITE_50
nas.h, 1683
eNAS_LTE_CPHY_CA_BW_NRB_LITE_6
nas.h, 1683
eNAS_LTE_CPHY_CA_BW_NRB_LITE_75
nas.h, 1683
eNAS_LTE_CPHY_SCELL_STATE_CONFIGURED_ACTIVATED
qaGobiApiNas.h, 1949
eNAS_LTE_CPHY_SCELL_STATE_CONFIGURED_ACTIVATED_LITE
nas.h, 1684
eNAS_LTE_CPHY_SCELL_STATE_CONFIGURED_DEACTIVATED
qaGobiApiNas.h, 1949
eNAS_LTE_CPHY_SCELL_STATE_CONFIGURED_DEACTIVATED_LITE
nas.h, 1684
eNAS_LTE_CPHY_SCELL_STATE_DECONFIGURED
qaGobiApiNas.h, 1949
eNAS_LTE_CPHY_SCELL_STATE_DECONFIGURED_LITE
nas.h, 1684
eNAS_RADIO_IF_GSM
qaGobiApiNas.h, 1948
eNAS_RADIO_IF_LTE
qaGobiApiNas.h, 1948
eNAS_RADIO_IF_TDSCDMA
qaGobiApiNas.h, 1948
eNAS_RADIO_IF_UMTS
qaGobiApiNas.h, 1948
ePDS
common.h, 1588
eQA_QMI_SVC_NA
qaGobiApiCbk.h, 1805
eQA_QMI_SVC_NAS
qaGobiApiCbk.h, 1805
eQA_QMI_SVC_WDS
qaGobiApiCbk.h, 1805
eQCWWAN_ERR_API_MUTEX_TIMEOUT
qmerrno.h, 2188
eQCWWAN_ERR_BUFFER_SZ
qmerrno.h, 2187
eQCWWAN_ERR_CANCEL_OP
qmerrno.h, 2188
eQCWWAN_ERR_DRIVER
qmerrno.h, 2188
eQCWWAN_ERR_ENUM_BEGIN

qmerrno.h, 2187
eQCWWAN_ERR_ENUM_END
qmerrno.h, 2188
eQCWWAN_ERR_FILE_COPY
qmerrno.h, 2187
eQCWWAN_ERR_FILE_OPEN
qmerrno.h, 2187
eQCWWAN_ERR_GENERAL
qmerrno.h, 2187
eQCWWAN_ERR_INTERNAL
qmerrno.h, 2187
eQCWWAN_ERR_INVALID_ARG
qmerrno.h, 2187
eQCWWAN_ERR_INVALID_DEVID
qmerrno.h, 2187
eQCWWAN_ERR_INVALID_FILE
qmerrno.h, 2187
eQCWWAN_ERR_INVALID_QMI_RSP
qmerrno.h, 2187
eQCWWAN_ERR_INVALID_XID
qmerrno.h, 2188
eQCWWAN_ERR_MALFORMED_QMI_RSP
qmerrno.h, 2187
eQCWWAN_ERR_MEMORY
qmerrno.h, 2187
eQCWWAN_ERR_MULTIPLE_DEVICES
qmerrno.h, 2188
eQCWWAN_ERR_MULTIPLE_SMS_UNSUPPORTED
qmerrno.h, 2188
eQCWWAN_ERR_NO_CANCELABLE_OP
qmerrno.h, 2188
eQCWWAN_ERR_NO_CONNECTION
qmerrno.h, 2187
eQCWWAN_ERR_NO_DEVICE
qmerrno.h, 2187
eQCWWAN_ERR_NO_SIGNAL
qmerrno.h, 2188
eQCWWAN_ERR_NONE
qmerrno.h, 2187
eQCWWAN_ERR_NULL_TLV
qmerrno.h, 2191
eQCWWAN_ERR_OFFLINE
qmerrno.h, 2188
eQCWWAN_ERR_PDU_GENERATION
qmerrno.h, 2188
eQCWWAN_ERR_QMI_ABORTED
qmerrno.h, 2188
eQCWWAN_ERR_QMI_ACCESS_DENIED
qmerrno.h, 2190
eQCWWAN_ERR_QMI_ACK_NOT_SENT
qmerrno.h, 2190
eQCWWAN_ERR_QMI_ARG_TOO_LONG
qmerrno.h, 2188
eQCWWAN_ERR_QMI_AUTHENTICATION_FAILED
qmerrno.h, 2189
eQCWWAN_ERR_QMI_AUTHENTICATION_LOCK
qmerrno.h, 2189
eQCWWAN_ERR_QMI_BUNDLING_NOT_SUPPORTED
qmerrno.h, 2190
eQCWWAN_ERR_QMI_CALL_FAILED
qmerrno.h, 2188
eQCWWAN_ERR_QMI_CARD_BUSY_RSP
qmerrno.h, 2191
eQCWWAN_ERR_QMI_CARD_CALL_CONTROL_FAILED
qmerrno.h, 2190
eQCWWAN_ERR_QMI_CAT_END
qmerrno.h, 2191
eQCWWAN_ERR_QMI_CAT_START
qmerrno.h, 2191
eQCWWAN_ERR_QMI_CAUSE_CODE
qmerrno.h, 2189
eQCWWAN_ERR_QMI_CLIENT_IDS_EXHAUSTED
qmerrno.h, 2188
eQCWWAN_ERR_QMI_CONNECT
qmerrno.h, 2187
eQCWWAN_ERR_QMI_DEVICE_IN_USE
qmerrno.h, 2188
eQCWWAN_ERR_QMI_DEVICE_NOT_READY
qmerrno.h, 2189
eQCWWAN_ERR_QMI_DEVICE_STORAGE_FULL
qmerrno.h, 2189
eQCWWAN_ERR_QMI_DISABLED
qmerrno.h, 2189
eQCWWAN_ERR_QMI_ENCODING
qmerrno.h, 2189
eQCWWAN_ERR_QMI_ENVELOPE_CMD_FAILURE
qmerrno.h, 2191
eQCWWAN_ERR_QMI_EVENT_REG_FAILED
qmerrno.h, 2191
eQCWWAN_ERR_QMI_EXTENDED_INTERNAL
qmerrno.h, 2190
eQCWWAN_ERR_QMI_FDN_RESTRICT
qmerrno.h, 2190
eQCWWAN_ERR_QMI_FLOW_SUSPENDED
qmerrno.h, 2189
eQCWWAN_ERR_QMI_GENERAL
qmerrno.h, 2189
eQCWWAN_ERR_QMI_HARDWARE_RESTRICTED
qmerrno.h, 2190
eQCWWAN_ERR_QMI_IFACE
qmerrno.h, 2187
eQCWWAN_ERR_QMI_INCOMPATIBLE_STATE
qmerrno.h, 2190
eQCWWAN_ERR_QMI_INCORRECT_FLOW_FILTER
qmerrno.h, 2189
eQCWWAN_ERR_QMI_INCORRECT_PIN
qmerrno.h, 2188
eQCWWAN_ERR_QMI_INFO_UNAVAILABLE
qmerrno.h, 2190
eQCWWAN_ERR_QMI_INJECT_TIMEOUT
qmerrno.h, 2190
eQCWWAN_ERR_QMI_INSUFFICIENT_RESOURCES

qmerrno.h, 2189
eQCWWAN_ERR_QMI_INTERFACE_NOT_FOUND
qmerrno.h, 2189
eQCWWAN_ERR_QMI_INTERNAL
qmerrno.h, 2188
eQCWWAN_ERR_QMI_INVALID_ARG
qmerrno.h, 2189
eQCWWAN_ERR_QMI_INVALID_CLIENT_ID
qmerrno.h, 2188
eQCWWAN_ERR_QMI_INVALID_DATA_FORMAT
qmerrno.h, 2189
eQCWWAN_ERR_QMI_INVALID_ENVELOPE_CMD
qmerrno.h, 2191
eQCWWAN_ERR_QMI_INVALID_HANDLE
qmerrno.h, 2188
eQCWWAN_ERR_QMI_INVALID_ID
qmerrno.h, 2189
eQCWWAN_ERR_QMI_INVALID_INDEX
qmerrno.h, 2189
eQCWWAN_ERR_QMI_INVALID_IP_FAMILY_PREF
qmerrno.h, 2189
eQCWWAN_ERR_QMI_INVALID_MCAST_HANDLE
qmerrno.h, 2189
eQCWWAN_ERR_QMI_INVALID_MESSAGE_ID
qmerrno.h, 2189
eQCWWAN_ERR_QMI_INVALID_OPERATION
qmerrno.h, 2190
eQCWWAN_ERR_QMI_INVALID_PDP_TYPE
qmerrno.h, 2188
eQCWWAN_ERR_QMI_INVALID_PINID
qmerrno.h, 2188
eQCWWAN_ERR_QMI_INVALID_PROFILE
qmerrno.h, 2188
eQCWWAN_ERR_QMI_INVALID_PROFILE_TYPE
qmerrno.h, 2188
eQCWWAN_ERR_QMI_INVALID_PS_ATTACH_ACTION
qmerrno.h, 2189
eQCWWAN_ERR_QMI_INVALID_QMI_CMD
qmerrno.h, 2190
eQCWWAN_ERR_QMI_INVALID_QOS_ID
qmerrno.h, 2189
eQCWWAN_ERR_QMI_INVALID_REGISTER_ACTION
qmerrno.h, 2189
eQCWWAN_ERR_QMI_INVALID_SERVICE_TYPE
qmerrno.h, 2188
eQCWWAN_ERR_QMI_INVALID_TECH_PREF
qmerrno.h, 2188
eQCWWAN_ERR_QMI_INVALID_TERMINAL_RSP
qmerrno.h, 2191
eQCWWAN_ERR_QMI_INVALID_TRANSITION
qmerrno.h, 2189
eQCWWAN_ERR_QMI_INVALID_TX_ID
qmerrno.h, 2188
eQCWWAN_ERR_QMI_MALFORMED_MSG
qmerrno.h, 2188
eQCWWAN_ERR_QMI_MAX
qmerrno.h, 2190
eQCWWAN_ERR_QMI_MAX_MCAST_REQUESTS_IN_USE
qmerrno.h, 2189
eQCWWAN_ERR_QMI_MAX_QOS_REQUESTS_IN_USE
qmerrno.h, 2189
eQCWWAN_ERR_QMI_MESSAGE_DELIVERY_FAILURE
qmerrno.h, 2189
eQCWWAN_ERR_QMI_MESSAGE_NOT_SENT
qmerrno.h, 2189
eQCWWAN_ERR_QMI_MISSING_ARG
qmerrno.h, 2188
eQCWWAN_ERR_QMI_MSG_BLOCKED
qmerrno.h, 2190
eQCWWAN_ERR_QMI_NETWORK_ABORTED
qmerrno.h, 2190
eQCWWAN_ERR_QMI_NETWORK_NOT_READY
qmerrno.h, 2189
eQCWWAN_ERR_QMI_NETWORK_QOS_UNAWARE
qmerrno.h, 2189
eQCWWAN_ERR_QMI_NO_EFFECT
qmerrno.h, 2188
eQCWWAN_ERR_QMI_NO_ENTRY
qmerrno.h, 2189
eQCWWAN_ERR_QMI_NO_FREE_PROFILE
qmerrno.h, 2188
eQCWWAN_ERR_QMI_NO_MEMORY
qmerrno.h, 2188
eQCWWAN_ERR_QMI_NO_NETWORK_FOUND
qmerrno.h, 2188
eQCWWAN_ERR_QMI_NO_RADIO
qmerrno.h, 2190
eQCWWAN_ERR_QMI_NO_SUBSCRIPTION
qmerrno.h, 2190
eQCWWAN_ERR_QMI_NO_THRESHOLDS
qmerrno.h, 2188
eQCWWAN_ERR_QMI_NOT_A_MCAST_IFACE
qmerrno.h, 2189
eQCWWAN_ERR_QMI_NOT_PROVISIONED
qmerrno.h, 2188
eQCWWAN_ERR_QMI_NOT_SUPPORTED
qmerrno.h, 2190
eQCWWAN_ERR_QMI_OFFSET
qmerrno.h, 2188
eQCWWAN_ERR_QMI_OP_DEVICE_UNSUPPORTED
qmerrno.h, 2188
eQCWWAN_ERR_QMI_OP_NETWORK_UNSUPPORTED
qmerrno.h, 2188
eQCWWAN_ERR_QMI_OP_PARTIAL_FAILURE
qmerrno.h, 2190
eQCWWAN_ERR_QMI_OUT_OF_CALL
qmerrno.h, 2188
eQCWWAN_ERR_QMI_PIN_BLOCKED
qmerrno.h, 2189

eQCWWAN_ERR_QMI_PIN_PERM_BLOCKED
qmerrno.h, 2189
eQCWWAN_ERR_QMI_POLICY_MISMATCH
qmerrno.h, 2190
eQCWWAN_ERR_QMI_REQ
qmerrno.h, 2187
eQCWWAN_ERR_QMI_REQ_SCH
qmerrno.h, 2187
eQCWWAN_ERR_QMI_REQ_TO
qmerrno.h, 2187
eQCWWAN_ERR_QMI_REQUESTED_NUM_UNSUPPORTED
qmerrno.h, 2189
eQCWWAN_ERR_QMI_RSP
qmerrno.h, 2187
eQCWWAN_ERR_QMI_RSP_TO
qmerrno.h, 2187
eQCWWAN_ERR_QMI_SEGMENT_ORDER
qmerrno.h, 2190
eQCWWAN_ERR_QMI_SEGMENT_TOO_LONG
qmerrno.h, 2190
eQCWWAN_ERR_QMI_SESSION_INACTIVE
qmerrno.h, 2189
eQCWWAN_ERR_QMI_SESSION_INVALID
qmerrno.h, 2189
eQCWWAN_ERR_QMI_SESSION_OWNERSHIP
qmerrno.h, 2189
eQCWWAN_ERR_QMI_SIM_FILE_NOT_FOUND
qmerrno.h, 2190
eQCWWAN_ERR_QMI_SIM_NOT_INITIALIZED
qmerrno.h, 2189
eQCWWAN_ERR_QMI_SMSC_ADDR
qmerrno.h, 2190
eQCWWAN_ERR_QMI_SUPS_FAILURE_CAUSE
qmerrno.h, 2190
eQCWWAN_ERR_QMI_TPDU_TYPE
qmerrno.h, 2190
eQCWWAN_ERR_QMI_UNABORTABLE_TRANSACTION
qmerrno.h, 2188
eQCWWAN_ERR_QMI_UNKNOWN
qmerrno.h, 2189
eQCWWAN_ERR_QMI_WIDTH
qmerrno.h, 2191
eQCWWAN_ERR_RESET
qmerrno.h, 2188
eQCWWAN_ERR_SWICM_AM_VERS_ERROR
qmerrno.h, 2190
eQCWWAN_ERR_SWICM_CALL_IN_PROGRESS
qmerrno.h, 2190
eQCWWAN_ERR_SWICM_END
qmerrno.h, 2191
eQCWWAN_ERR_SWICM_FAILED_TO_KILL_SDK_PROCESS
qmerrno.h, 2190
eQCWWAN_ERR_SWICM_INVALID_SESSION_ID
qmerrno.h, 2190
eQCWWAN_ERR_SWICM_INVALID_V4_SESSION_ID
qmerrno.h, 2190
eQCWWAN_ERR_SWICM_INVALID_V6_SESSION_ID
qmerrno.h, 2190
eQCWWAN_ERR_SWICM_NOT_IMPLEMENTED
qmerrno.h, 2190
eQCWWAN_ERR_SWICM_QMI_CLNT_NOT_SUPPORTED
qmerrno.h, 2190
eQCWWAN_ERR_SWICM_QMI_SVC_NOT_SUPPORTED
qmerrno.h, 2190
eQCWWAN_ERR_SWICM_SM_NO_AVAILABLE_SESSIONS
qmerrno.h, 2190
eQCWWAN_ERR_SWICM_SOCKET_IN_USE
qmerrno.h, 2190
eQCWWAN_ERR_SWICM_START
qmerrno.h, 2190
eQCWWAN_ERR_SWICM_TIMEOUT
qmerrno.h, 2190
eQCWWAN_ERR_SWICM_V4DWN_V6DWN
qmerrno.h, 2190
eQCWWAN_ERR_SWICM_V4DWN_V6UP
qmerrno.h, 2190
eQCWWAN_ERR_SWICM_V4UP_V6DWN
qmerrno.h, 2190
eQCWWAN_ERR_SWICM_V4UP_V6UP
qmerrno.h, 2190
eQCWWAN_ERR_SWIDCS_APP_DISCONNECTED
qmerrno.h, 2191
eQCWWAN_ERR_SWIDCS_DEVNODE_NOT_FOUND
qmerrno.h, 2191
eQCWWAN_ERR_SWIDCS_END
qmerrno.h, 2191
eQCWWAN_ERR_SWIDCS_FILEIO_ERR
qmerrno.h, 2191
eQCWWAN_ERR_SWIDCS_IOCTL_ERR
qmerrno.h, 2191
eQCWWAN_ERR_SWIDCS_START
qmerrno.h, 2191
eQCWWAN_ERR_SWIIM_CORRUPTED_FW_IMAGE
qmerrno.h, 2191
eQCWWAN_ERR_SWIIM_END
qmerrno.h, 2191
eQCWWAN_ERR_SWIIM_FILE_NOT_FOUND
qmerrno.h, 2191
eQCWWAN_ERR_SWIIM_FIRMWARE_NOT_DOWNLOADED
qmerrno.h, 2191
eQCWWAN_ERR_SWIIM_FW_ENTER_DOWNLOAD_MODE
qmerrno.h, 2191
eQCWWAN_ERR_SWIIM_FW_FLASH_COMPLETE
qmerrno.h, 2191

eQCWWAN_ERR_SWIIM_FW_INVALID_SLOT_INDEX
qmerrno.h, 2191
eQCWWAN_ERR_SWIIM_FW_PREFERENCE_MISMATCH
qmerrno.h, 2191
eQCWWAN_ERR_SWIIM_FW_SAME_AS_CURRENT_ACTIVE_IMAGE
qmerrno.h, 2191
eQCWWAN_ERR_SWIIM_FW_SECBOOT_IMAGE_NOT_SIGNED
qmerrno.h, 2191
eQCWWAN_ERR_SWIIM_FW_UPDATE_FAIL
qmerrno.h, 2191
eQCWWAN_ERR_SWIIM_FW_UPDATE_SUCCESS
qmerrno.h, 2191
eQCWWAN_ERR_SWIIM_FW_WAIT_FOR_REBOOT
qmerrno.h, 2191
eQCWWAN_ERR_SWIIM_INVALID_CRASH_STATE
qmerrno.h, 2191
eQCWWAN_ERR_SWIIM_INVALID_PATH
qmerrno.h, 2191
eQCWWAN_ERR_SWIIM_OPENING_DIR
qmerrno.h, 2191
eQCWWAN_ERR_SWIIM_OPENING_FILE
qmerrno.h, 2191
eQCWWAN_ERR_SWIIM_START
qmerrno.h, 2191
eQCWWAN_ERR_SWISM_END
qmerrno.h, 2191
eQCWWAN_ERR_SWISMS_BEARER_DATA_NOT_FOUND
qmerrno.h, 2191
eQCWWAN_ERR_SWISMS_MSG_CORRUPTED
qmerrno.h, 2191
eQCWWAN_ERR_SWISMS_MSG_LEN_TOO_LONG
qmerrno.h, 2191
eQCWWAN_ERR_SWISMS_SMSC_NUM_CORRUPTED
qmerrno.h, 2191
eQCWWAN_ERR_SWISMS_START
qmerrno.h, 2191
eQMI_LOC_SESS_STATUS_FAILURE
loc.h, 1658
eQMI_LOC_SESS_STATUS_IN_PROGRESS
loc.h, 1658
eQMI_LOC_SESS_STATUS_SUCCESS
loc.h, 1658
eQMI_LOC_SESS_STATUS_TIMEOUT
loc.h, 1658
eQOS
common.h, 1588
eREQ
common.h, 1589
eRMS
common.h, 1589
eRSP
common.h, 1589
eSAR
common.h, 1588
eSMS
common.h, 1588
eSWIAUDIO
common.h, 1589
eSWIDMS
common.h, 1589
eSWILOC
common.h, 1589
eSWIM2MCMD
common.h, 1589
eSWIM2MCMD_AVC2
common.h, 1589
eSWIOMA
common.h, 1589
eSWIOMAEXT
common.h, 1589
eSYS_SRV_DOMAIN_CAMPED
qaGobiApiNas.h, 1948
eSYS_SRV_DOMAIN_CS_ONLY
qaGobiApiNas.h, 1948
eSYS_SRV_DOMAIN_CS_PS
qaGobiApiNas.h, 1948
eSYS_SRV_DOMAIN_NO_SRV
qaGobiApiNas.h, 1948
eSYS_SRV_DOMAIN_PS_ONLY
qaGobiApiNas.h, 1948
eSYS_SRV_DOMAIN_UNKNOWN
qaGobiApiNas.h, 1948
eSetServiceAutomaticTrackingDisable
qaGobiApiPds.h, 1985
eSetServiceAutomaticTrackingEnable
qaGobiApiPds.h, 1985
eTIMEOUT_10_S
common.h, 1589
eTIMEOUT_20_S
common.h, 1589
eTIMEOUT_2_S
common.h, 1589
eTIMEOUT_300_S
common.h, 1589
eTIMEOUT_30_S
common.h, 1589
eTIMEOUT_5_S
common.h, 1589
eTIMEOUT_60_S
common.h, 1589
eTIMEOUT_8_S
common.h, 1589
eTIMEOUT_DEFAULT
common.h, 1589
eTLV_3GPP_NETWORK_INFO
qaNasPerformNetworkScan.h, 2184
eTLV_CBK_ALPHA_IDENTIFIER
qaCbkCatEventReportInd.h, 1749
eTLV_CBK_DISPLAY_TEXT
qaCbkCatEventReportInd.h, 1749

eTLV_CBK_END_PROACTIVE_SESSION
qaCbkCatEventReportInd.h, 1749
eTLV_CBK_GET_IN_KEY
qaCbkCatEventReportInd.h, 1749
eTLV_CBK_GET_INPUT
qaCbkCatEventReportInd.h, 1749
eTLV_CBK_LANGUAGE_NOTIFICATION
qaCbkCatEventReportInd.h, 1749
eTLV_CBK_REFRESH
qaCbkCatEventReportInd.h, 1749
eTLV_CBK_SELECT_ITEM
qaCbkCatEventReportInd.h, 1749
eTLV_CBK_SETUP_EVENT_LIST
qaCbkCatEventReportInd.h, 1749
eTLV_CBK_SETUP_IDLE_MODE_TEXT
qaCbkCatEventReportInd.h, 1749
eTLV_CBK_SETUP_MENU
qaCbkCatEventReportInd.h, 1749
eTLV_END_PROACTIVE_SESSION_LENGTH
qaCbkCatEventReportInd.h, 1749
eTLV_IND_OMA_DM_CONFIG
qaCbkSwiOmaDmEventReportInd.h, 1750
eTLV_IND_OMA_DM_FOTA
qaCbkSwiOmaDmEventReportInd.h, 1750
eTLV_IND_OMA_DM_NOT
qaCbkSwiOmaDmEventReportInd.h, 1750
eTLV_LTE_OPERATIONAL_MODE
qaNasGetRFBandInfo.h, 2183
eTLV_REFRESH_LENGTH
qaCbkCatEventReportInd.h, 1749
eTLV_RF_BAND_INFO
qaNasGetRFBandInfo.h, 2183
eTLV_RF_BANDWIDTH_INFO
qaNasGetRFBandInfo.h, 2183
eTLV_RF_DEDICATED_BAND_INFO
qaNasGetRFBandInfo.h, 2183
eTLV_RF_EXT_FORMAT_BAND_INFO
qaNasGetRFBandInfo.h, 2183
eTLV_SETUP_EVENT_LIST_LENGTH
qaCbkCatEventReportInd.h, 1749
eTMD
common.h, 1588
eUIM
common.h, 1588
eVOICE
common.h, 1588
eWDS
common.h, 1588
eWDS_ERR_PROFILE_REG_3GPP2_ERR_INVALID_IDENT_FOR_PROFILE
qmerrno.h, 2192
eWDS_ERR_PROFILE_REG_3GPP_ACCESS_ERR
qmerrno.h, 2192
eWDS_ERR_PROFILE_REG_3GPP_CONTEXT_NOT_DEFINED
qmerrno.h, 2192
eWDS_ERR_PROFILE_REG_3GPP_ERR_OUT_OF_PROFILES
qmerrno.h, 2192
eWDS_ERR_PROFILE_REG_3GPP_INVAL_PROFILE_FAMILY
qmerrno.h, 2192
eWDS_ERR_PROFILE_REG_3GPP_READ_ONLY_FLAG_SET
qmerrno.h, 2192
eWDS_ERR_PROFILE_REG_3GPP_VALID_FLAG_NOT_SET
qmerrno.h, 2192
eWDS_ERR_PROFILE_REG_END
qmerrno.h, 2192
eWDS_ERR_PROFILE_REG_INVAL_PROFILE_FAMILY
qmerrno.h, 2192
eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL
qmerrno.h, 2192
eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL_HNDL
qmerrno.h, 2192
eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL_IDENT
qmerrno.h, 2192
eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL_OP
qmerrno.h, 2192
eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL_PROFILE_NUM
qmerrno.h, 2192
eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL_PROFILE_TYPE
qmerrno.h, 2192
eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL_SUBS_ID
qmerrno.h, 2192
eWDS_ERR_PROFILE_REG_RESULT_ERR_LEN_INVALID
qmerrno.h, 2192
eWDS_ERR_PROFILE_REG_RESULT_ERR_LIB_NOT_INITED
qmerrno.h, 2192
eWDS_ERR_PROFILE_REG_RESULT_FAIL
qmerrno.h, 2192
eWDS_ERR_PROFILE_REG_RESULT_LIST_END
qmerrno.h, 2192
ECIOThresListLen
ECIOThresh, 259
nas_ECIOThresh, 481
ECIOThresh, 259
ECIOThresListLen, 259
pECIOThresList, 259
ECTCallState
ECTNum, 260
voice_ECTNum, 1467
ECTNum, 259
ECTCallState, 260
number, 260
presentationInd, 260

eDevState
qaGobiApiCbk.h, 1767
eDevice
sGetDeviceSeriesResult, 964
eGetDeviceSeries
qaGobiApiFms.h, 1900
eGobiDeviceSeries
qaGobiApiFms.h, 1897
eGobiImageCarrier
qaGobiApiFms.h, 1897
eGobiImageGPS
qaGobiApiFms.h, 1898
eGobiImageRegion
qaGobiApiFms.h, 1898
eGobiImageTech
qaGobiApiFms.h, 1898
eLOG_LEVEL
common.h, 1588
EMTlv
NASQmiCbkNasSystemSelPrefInd, 625
eQCWWANError
qmerrno.h, 2187
eQMI_SVC
common.h, 1588
eQMISARRFState
qaGobiApiSar.h, 2007
eQaQMIService
qaGobiApiCbk.h, 1804
ERI_DATA_MAX_SIZE
dms.h, 1599
ERIFileparams, 262
pFile, 262
pFileSize, 262
qaGobiApiDms.h, 1858
eSMSEventType
qaGobiApiCbk.h, 1767
ESNString
unpack_dms_GetDeviceSerialNumbers_t, 1142
eSYS_SRV_DOMAIN
qaGobiApiNas.h, 1948
ETWSPLMNInfo
eTWSPLMNInfoTlv, 264
eTWSPLMNInfoTlv, 263
ETWSPLMNInfo, 264
TlvPresent, 264
ETWSPLMNTlv
unpack_sms_SetNewSMSCallback_ind_t, 1316
ETWSTlv
unpack_sms_SetNewSMSCallback_ind_t, 1317
eTimeout
common.h, 1589
EVENT_MASK_CARD
qaGobiApiCbk.h, 1764
eValid
LibPackTFTIDParams, 385
TFTIDParams, 1061
EarMute
GetAudioProfileResp, 283
GetM2MAudioProfileResp, 300
GetM2MAVMuteResp, 302
SetAudioProfileReq, 943
SetM2MAVMuteReq, 954
earfcn
infoInterFreq, 353
LTEInfoIntrafreq, 429
ltePCI, 436
nas_infoInterFreq, 499
nas_LTEInfoIntrafreq, 507
nas_ltePCI, 514
nas_umtsLTENbrCell, 584
umtsLTENbrCell, 1123
earfcn0
lteEARFCN, 423
nas_lteEARFCN, 501
earfcn1
lteEARFCN, 423
nas_lteEARFCN, 501
earlyWakeupTime
dms_PSMEarlyWakeupTimeTlv, 243
PSMEarlyWakeupTimeTlv, 853
ecio
CDMASSInfo, 183
cdmaSSInfo, 183
ecioListElement, 258
HDRSSInfo, 328
hdrSSInfo, 329
nas_ecioListElement, 480
nas_rxInfo, 562
nas_UMTSInfo, 582
rxInfo, 921
TDSCDMASigInfoExt, 1056
tdscdmaSigInfoExt, 1055
UMTSInfo, 1121
ecioDelta
nas_SLQSSignalStrengthsIndReq, 569
SLQSSignalStrengthsIndReq, 984
ecioInfo
nas_SLQSSignalStrengthsInformation, 570
SLQSSignalStrengthsInformation, 985
ecioList
slqsSignalStrengthInfo, 982
unpack_nas_SLQSGetSignalStrength_t, 1245
ecioListElement, 258
ecio, 258
radioIf, 259
ecioListLen
slqsSignalStrengthInfo, 982
unpack_nas_SLQSGetSignalStrength_t, 1245
ecioThresholdList
nas_SLQSSignalStrengthsIndReq, 569
SLQSSignalStrengthsIndReq, 984
ecioThresholdListLen
nas_SLQSSignalStrengthsIndReq, 569
SLQSSignalStrengthsIndReq, 984
egprsSupp
GSMSysInfo, 320

nas_GSMSysInfo, 490
egprsSuppValid
GSMSysInfo, 320
nas_GSMSysInfo, 490
ehrpdMTUSize
ehrpdMTUSizeTlv, 260
swidms_ehrpdMTUSizeTlv, 1027
ehrpdMTUSizeTlv, 260
ehrpdMTUSize, 260
TlvPresent, 260
elevation
loc_satelliteInfo, 404
satelliteInfo, 928
EmerMode
nas_EmerModeTlv, 482
NASEmergencyModeTlv, 594
emmConnState
LTEInfo, 427
nas_LTEInfo, 504
emmState
LTEInfo, 427
nas_LTEInfo, 504
emmSubState
LTEInfo, 427
nas_LTEInfo, 504
Enable
SetM2MAudioLPBKReq, 952
enable
pack_pds_SetPDSState_t, 730
pack_qos_SLQSSetQosEventCallback_t, 741
EnableState
unpack_dms_PSMCfgChange_ind_t, 1157
enableState
dms_PSMEnableStateTlv, 244
PSMEnableStateTlv, 853
EnableStateInd
dms_PSMEnableStateIndTlv, 243
enabled
pack_rms_SetSMSWake_t, 741
unpack_rms_GetSMSWake_t, 1312
unpack_wds_GetMobileIPProfile_t, 1398
EnabledStatus
unpack_pds_SetPdsState_Ind_t, 1286
EncryptProt
nas_protocolSubtypeElement, 545
protocolSubtypeElement, 850
EncryptedPIN1
pack_uim_ChangePin_t, 758
pack_uim_SetPinProtection_t, 760
pack_uim_UnblockPin_t, 767
encryptedPIN1, 261
pin1Len, 261
pin1Val, 261
EndPointType
qos_BindDataPortPeripheralEndPointID_t, 895
EndProactiveSession
CatEndProactiveSessionTlv, 169
EngineState
GPSStateInfo, 314
unpack_pds_SLQSGetGPSStateInfo_t, 1290
engineState
QmiCbkLocEngineStateInd, 867
unpack_loc_EngineState_Ind_t, 1197
entries
t_Sv, 1053
eqmiCbkSetStatus
sms.h, 2209
eriData
eriDataparams, 262
eriDataLen
eriDataparams, 262
eriDataparams, 261
eriData, 262
eriDataLen, 262
eriFile
unpack_dms_SLQSGetERIFile_t, 1169
error
unpack_wds_GetLastMobileIPError_t, 1396
errorClass
SMSAsyncRawSend_s, 1002
unpack_sms_SLQSWmsAsyncRawSendCallBack-_ind_t, 1325
errorRate
errorRateListElement, 263
nas_errorRateListElement, 483
errorRateInfo
nas_SLQSSignalStrengthsInformation, 570
SLQSSignalStrengthsInformation, 986
errorRateList
slqsSignalStrengthInfo, 982
unpack_nas_SLQSGetSignalStrength_t, 1245
errorRateListElement, 262
errorRate, 263
radioIf, 263
errorRateListLen
slqsSignalStrengthInfo, 982
unpack_nas_SLQSGetSignalStrength_t, 1245
errorState
slotInf, 969
slotInfo, 971
uim_slotInfo, 1096
esn
unpack_dms_GetSerialNumbers_t, 1153
esnSize
serialNumbersInfo, 934
unpack_dms_GetDeviceSerialNumbers_t, 1142
EspSpi
unpack_qos_swiQosFilter_t, 1304
EtwsMessageInfo
sMSEtwsMessageTlv, 1006
event
unpack_qos_SLQSSetQosPriEventCallback_ind_-t, 1300
unpack_qos_SLQSSetQosStatusCallback_ind_t, 1302
event_Index

QmiCbkCatEventStatusReportInd, 860
EventID
CatCommonEventTlv, 168
EventLength
CatCommonEventTlv, 168
eventMask
CATEventDataType, 169
pack_uim_SLQSUIMEventRegister_t, 761
UIMEventRegisterReqResp, 1102
unpack_uim_SLQSUIMEventRegister_t, 1341
eventRegister
LOCEventRegisterReqResp, 412
pack_loc_EventRegister_t, 679
eventType
unpack_swioma_SLQSOMADMAlertCallback_ind_t, 1331
evrcCapability
prefVoiceSO, 837
voice_prefVoiceSO, 1476
executingImage
FMSImageIDEntries, 273
ImageIDEntries, 336
exponent
pktErrRate, 828
unpack_qos_pktErrRate_t, 1293
extBit
calledPartySubAdd, 156
voice_calledPartySubAdd, 1448
extDispInfo
extDispRecInfo, 264
voice_extDispRecInfo, 1467
extDispInfoLen
extDispRecInfo, 264
voice_extDispRecInfo, 1467
extDispRecInfo, 264
dispType, 264
extDispInfo, 264
extDispInfoLen, 264
ExtErrorCode
PackCreateProfileOut, 813
extPowerState
LOCExtPowerStateReqResp, 412
pack_loc_SetExtPowerState_t, 679
extendedErrorCode
unpack_wds_SLQSDeleteProfile_t, 1405

FIRST_INSTANCE
qaGobiApiCbk.h, 1765
FLOAT
SwiDataTypes.h, 2228
FMSImageElement, 271
buildId, 271
buildIdLength, 271
imageId, 271
imageType, 271
FMSImageIDEntries, 272
executingImage, 273
imageIDElement, 273
imageIDSize, 273
imageType, 273
maxImages, 273
FMSImageIdElement, 271
buildID, 272
buildIDLength, 272
failureCount, 272
imageID, 272
storageIndex, 272
FMSImageList, 273
imageIDEntries, 274
listSize, 274
FMSPrefImageList, 274
listEntries, 274
listSize, 274
FORBIDDEN_INDEX
qaNasPerformNetworkScan.h, 2184
FOTAUpdate
_SLQSOMADMSettingsReqParams, 100
_SLQSOMADMSettingsReqParams3, 101
pack_swioma_SLQSOMADMSetSettings_t, 756
unpack_swioma_SLQSOMADMGetSettings_t, 1335
FOTAdownload
_SLQSOMADMSettingsReqParams, 100
_SLQSOMADMSettingsReqParams3, 101
pack_swioma_SLQSOMADMSetSettings_t, 756
unpack_swioma_SLQSOMADMGetSettings_t, 1335
FSNumber
FactorySequenceNumber, 265
facility
pack_dms_UIMGetControlKeyStatus_t, 670
pack_dms_UIMSetControlKeyProtection_t, 671
pack_dms_UIMUnblockControlKey_t, 673
facilityCk
pack_dms_UIMSetControlKeyProtection_t, 671
pack_dms_UIMUnblockControlKey_t, 673
facilityState
pack_dms_UIMSetControlKeyProtection_t, 671
unpack_dms_UIMGetControlKeyStatus_t, 1181
FactorySequenceNumber, 264
FSNumber, 265
failureCount
FMSImageIdElement, 272
ImageIdElement, 335
failureReason
ssdatasession_params, 1021
failureReasonv4
ssdatasession_params, 1022
failureReasonv6
ssdatasession_params, 1022
family
pack_wds_GetDefaultProfileNum_t, 788
pack_wds_SetDefaultProfileNum_t, 794
feature
depersonalizationInformation, 234
personalizationStatus, 821
uim_depersonalizationInformation, 1082

uim_personalizationStatus, 1088
fileAttributes, 265
fileID, 268
fileSize, 268
fileType, 268
rawLen, 268
rawValue, 268
recordCount, 268
recordSize, 268
secActivate, 268
secActivateMask, 268
secDeactivate, 268
secDeactivateMask, 268
secIncrease, 268
secIncreaseMask, 268
secRead, 268
secReadMask, 268
secWrite, 268
secWriteMask, 268
fileID
fileAttributes, 268
fileInfo, 269
uim_fileAttributes, 1086
uim_fileInfo, 1087
fileIndex
pack_uim_ReadTransparent_t, 759
pack_uim_SLQSUIMGetFileAttributes_t, 763
UIMGetFileAttributesReq, 1104
UIMReadTransparentReq, 1108
fileInfo, 268
fileID, 269
path, 269
pathLen, 269
fileSize
fileAttributes, 268
uim_fileAttributes, 1086
fileType
fileAttributes, 268
uim_fileAttributes, 1086
fill_pack_ctx
common.h, 1589
fill_sdu_hdr
common.h, 1589
filterId
LibPackTFTIDParams, 386
TFTIDParams, 1061
Firmware Management Service (FMS), 50
FirmwareID
fwinfo_s, 275
FirmwareUpdatStat, 269
pImgType, 270
pLogString, 270
pLogStringLen, 271
pRefData, 271
pRefString, 271
pRefStringLen, 271
ResCode, 271
fix_rate
pack_swiloc_SwiLocSetAutoStart_t, 754
SwiLocGetAutoStartResp, 1031
SwiLocSetAutoStartReq, 1033
unpack_swiloc_SwiLocGetAutoStart_t, 1330
fix_rate_reported
SwiLocGetAutoStartResp, 1031
unpack_swiloc_SwiLocGetAutoStart_t, 1330
fix_type
pack_swiloc_SwiLocSetAutoStart_t, 754
SwiLocGetAutoStartResp, 1031
SwiLocSetAutoStartReq, 1033
unpack_swiloc_SwiLocGetAutoStart_t, 1330
fix_type_reported
SwiLocGetAutoStartResp, 1031
unpack_swiloc_SwiLocGetAutoStart_t, 1330
fixAccuracy
pack_pds_StartPDSTrackingSessionExt_t, 738
fixCount
pack_pds_StartPDSTrackingSessionExt_t, 738
fixInterval
pack_pds_StartPDSTrackingSessionExt_t, 738
fixTimeout
pack_pds_StartPDSTrackingSessionExt_t, 738
flags
sensorData, 931
sensorData_t, 932
flowLabel
LibPackTFTIDParams, 386
TFTIDParams, 1061
fms.h, 1649
GetValidFwPriCombinations, 1650
pack_fms_GetImagesPreference, 1650
pack_fms_GetStoredImages, 1651
pack_fms_SetImagesPreference, 1651
unpack_fms_GetImagesPreference, 1651
unpack_fms_GetStoredImages, 1651
unpack_fms_SetImagesPreference, 1651
Forbidden
nas_QmiNas3GppNetworkInfo, 547
SlqsNas3GppNetworkInfo, 975
forceFlag
pack_pds_SLQSPDSInjectAbsoluteTimeReference-_t, 733
ForceRev0
unpack_nas_GetCDMANetworkParameters_t, 1219
ForceXTRADownload
qaGobiApiPds.h, 1985
format
SMSTransferRouteMTMessage, 1016
sMSTransferRouteMTMessageInfo, 1016
ForwardMac
nas_protocolSubtypeElement, 545
protocolSubtypeElement, 850
fqdnAddr
PCSCFFQDNAddress, 815
wds_PCSCFFQDNAddress, 1560
fqdnLen

PCSCFFQDNAddress, 815
wds_PCSCFFQDNAddress, 1560
freeSlots
sms_maxStorageSizeResp, 993
smsMaxStorageSizeResp, 1009
freq
nas_PhyCaAggPcellInfo, 536
nas_PhyCaAggScellIndType, 537
nas_PhyCaAggScellInfo, 540
NASPhyCaAggPcellInfo, 616
NASPhyCaAggScellIndType, 618
NASPhyCaAggScellInfo, 619
PhyCaAggPcellInfo, 822
PhyCaAggScellIndType, 824
PhyCaAggScellInfo, 827
freqsLen
LTEInfoInterfreq, 427
LTEInfoNeighboringGSM, 430
LTEInfoNeighboringWCDMA, 431
nas_LTEInfoInterfreq, 505
nas_LTEInfoNeighboringGSM, 508
nas_LTEInfoNeighboringWCDMA, 509
fromServiceId
BroadcastConfig, 152
sms_BroadcastConfig, 988
fumoResultCode
omaDmFotaTlvExt, 654
function
pack_swiloc_SwiLocSetAutoStart_t, 754
SwiLocGetAutoStartResp, 1031
SwiLocSetAutoStartReq, 1033
unpack_swiloc_SwiLocGetAutoStart_t, 1330
function_reported
SwiLocGetAutoStartResp, 1031
unpack_swiloc_SwiLocGetAutoStart_t, 1330
FwAutoCheck
unpack_swioma_SLQSOMADMGetSettings_t, 1335
FwAvailability
unpack_swioma_SLQSOMADMStartSession_t, 1336
fwdloadsize
omaDmFotaTlv, 651
unpack_omaDmFotaTlv_t, 1278
fwinfo_s, 274
Carrier, 275
FirmwareID, 275
GPSCapability, 275
Region, 275
Technology, 275
fwloadComplete
omaDmFotaTlv, 652
unpack_omaDmFotaTlv_t, 1278
fwvers
CurrentImgList, 213
unpack_dms_SLQSSwiGetFirmwareCurr_t, 1174

g
qmifwinfo_s, 886
gDlBitRate
LibPackQosClassID, 384
QosClassID, 896
GERANInfo, 275
arfcn, 276
bsic, 276
cellID, 276
insNmrCellInfo, 276
lac, 277
nmrInst, 277
plmn, 277
rxLev, 277
timingAdvance, 277
GPRSGrantedQoS
unpack_wds_SLQSGetRuntimeSettings_t, 1415
GPRSQoS, 309
delayClass, 310
meanThroughputClass, 310
peakThroughputClass, 310
precedenceClass, 310
reliabilityClass, 310
GPRSRequestedQoS, 310
delayClass, 311
meanThroughputClass, 311
peakThroughputClass, 311
precedenceClass, 311
reliabilityClass, 311
GPSCapability
fwinfo_s, 275
GPSLPM
pack_dms_SetCustFeature_t, 661
unpack_dms_GetCustFeature_t, 1137
GPSSel
pack_dms_SetCustFeature_t, 661
unpack_dms_GetCustFeature_t, 1137
GPSStateInfo, 311
Altitude, 314
EngineState, 314
glo_almanac_sv_msk, 314
glo_ephemeris_sv_msk, 314
glo_health_sv_msk, 314
glo_visible_sv_msk, 314
gps_almanac_sv_msk, 314
gps_ephemeris_sv_msk, 314
gps_health_sv_msk, 314
gps_visible_sv_msk, 314
HorizontalUncertainty, 314
Iono_valid, 314
Latitude, 314
Longitude, 314
sbas_almanac_sv_msk, 314
sbas_ephemeris_sv_msk, 314
sbas_health_sv_msk, 314
sbas_visible_sv_msk, 315
Time_uncert_ms, 315
TimeStmp_gps_week, 315
TimeStmp_tow_ms, 315
ValidMask, 315

VerticalUncertainty, 315
xtra_start_gps_minutes, 315
xtra_start_gps_week, 315
xtra_valid_duration_hours, 315
GSMRSSIThresh, 317
GSMRSSIThreshListLen, 317
pGSMRSSIThreshList, 317
GSMRSSIThreshListLen
GSMRSSIThresh, 317
nas_GSMRSSIThresh, 487
GSMSSInfo
unpack_nas_SLQSNasGetSigInfo_t, 1261
GSMSrvStatusInfo, 317
isPrefDataPath, 318
srvStatus, 318
trueSrvStatus, 318
GSMSysInfo, 318
cellId, 320
cellIdValid, 320
dtmSupp, 320
dtmSuppValid, 320
egprsSupp, 320
egprsSuppValid, 320
lac, 320
lacValid, 321
MCC, 321
MNC, 321
networkIdValid, 321
regRejectInfoValid, 321
rejCause, 321
rejectSrvDomain, 321
sysInfoGSM, 321
gUlBitRate
LibPackQosClassID, 384
QosClassID, 896
GWAOPTlv
NASQmiCbkNasSystemSelPrefInd, 625
GWAcqOrderPref
nas_GWAcqOrderPrefTlv, 491
NASGWAcqOrderPrefTlv, 604
GWAddressV4
unpack_wds_SLQSGetRuntimeSettings_t, 1416
gcDumpStrLen
CrashInfo, 204
gcdumpString
crashInformation, 206
gcdumpStrlen
crashInformation, 206
Generator
GetAudioProfileReq, 282
GetAudioVolTLBConfigReq, 284
GetM2MAudioProfileResp, 300
GetM2MAudioVolumeReq, 301
SetAudioProfileReq, 943
SetAudioVolTLBConfigReq, 944
SetM2MAudioVolumeReq, 954
geoSysIdx
AddCDMASysInfo, 125
AddSysInfo, 126
nas_AddCDMASysInfo, 456
nas_AddSysInfo, 457
geranArfcn
geranInstInfo, 277
nas_geranInstInfo, 485
geranBsicBcc
geranInstInfo, 277
nas_geranInstInfo, 485
geranBsicNcc
geranInstInfo, 277
nas_geranInstInfo, 485
geranInst
nas_UMTSInfo, 582
UMTSInfo, 1121
GeranInstInfo
nas_UMTSInfo, 582
UMTSInfo, 1121
geranInstInfo, 277
geranArfcn, 277
geranBsicBcc, 277
geranBsicNcc, 277
geranRssi, 277
geranRssi
geranInstInfo, 277
nas_geranInstInfo, 485
get_version
common.h, 1589
GetACCOLC
qaGobiApiNas.h, 1949
GetANAAAAuthenticationStatus
qaGobiApiNas.h, 1949
GetActivationState
qaGobiApiDms.h, 1862
getAllCallInfo
arrCallInfo, 141
voice_arrCallInfo, 1441
getAllCallInformation, 278
ALS, 278
Callinfo, 278
isEmpty, 278
GetAllCallRmtPtyName
arrRemotePartyName, 143
voice_arrRemotePartyName, 1443
getAllCallRmtPtyName, 278
callID, 279
RemotePartyName, 279
getAllCallRmtPtyNum, 279
callID, 279
RemotePartyNum, 279
GetAudioPathConfigReq, 279
Item, 280
Profile, 280
GetAudioPathConfigResp, 280
pCodecSTGain, 281
pDTMFTXGain, 282
pECMode, 282
pMICGainSelect, 282

pNSEnable, 282
pRXAGCList, 282
pRXAVCAGCSwitch, 282
pRXAVCList, 282
pRXPCMIIRFltr, 282
pTXAGCList, 282
pTXAVCSwitch, 282
pTXGain, 282
pTXPCMIIRFltr, 282
GetAudioProfileReq, 282
Generator, 282
GetAudioProfileResp, 282
EarMute, 283
MicMute, 283
Profile, 283
Volume, 283
GetAudioVolTLBConfigReq, 284
Generator, 284
Item, 284
Profile, 284
Volume, 284
GetAudioVolTLBConfigResp, 284
ResCode, 285
GetAutoconnect
qaGobiApiWds.h, 2146
GetByteTotals
qaGobiApiWds.h, 2146
GetCDMANetworkParameters
qaGobiApiNas.h, 1950
getCallFWExtInfo, 285
CallFWExtInfo, 285
numInstances, 285
getCallFWInfo, 285
CallFWInfo, 286
numInstances, 286
GetConnectionRate
qaGobiApiWds.h, 2147
GetCustomFeatureV2
unpack_dms_GetCustFeaturesV2_t, 1137
getCustomFeatureV2, 286
pCustSettingInfo, 286
pCustSettingList, 286
pGetCustomInput, 286
getCustomInput, 287
cust_id, 287
list_type, 287
getDUNCallInfoReq, 287
Mask, 288
pReportChannelRate, 288
pReportConnStatus, 288
pReportDataBearerTech, 288
pReportDormStatus, 288
pTransferStatInd, 288
getDUNCallInfoResp, 289
pCallEndReason, 291
pChannelRate, 291
pConnectionStatus, 291
pDataBearerTech, 291
pDormancyStatus, 291
pLastCallDataBearerTech, 291
pLastCallRXOKBytesCnt, 291
pLastCallTXOKBytesCnt, 291
pMdmCallDurationActive, 291
pRXOKBytesCount, 291
pTXOKBytesCount, 291
GetDataBearerTechnology
qaGobiApiWds.h, 2148
GetDefaultProfile
qaGobiApiWds.h, 2148
GetDefaultProfileLTE
qaGobiApiWds.h, 2150
GetDefaultProfileNum
qaGobiApiWds.h, 2152
GetDeviceCapabilities
qaGobiApiDms.h, 1862
GetDormancyState
qaGobiApiWds.h, 2152
getDyingGaspCfg, 291
pDestSMSContent, 292
pDestSMSNum, 292
getDyingGaspStatistics, 292
pSMSAttemptedFlag, 292
pTimeStamp, 293
GetErrRateResp, 293
pCDMAFrameErrRate, 293
pGSMBER, 293
pHDRPackErrRate, 293
pWCDMABER, 293
GetFirmwareRevision
qaGobiApiDms.h, 1863
GetFirmwareRevisions
qaGobiApiDms.h, 1864
GetHRPDStatsResp, 294
pDRCParams, 294
pPilotSetData, 294
pUATI, 294
GetHardwareRevision
qaGobiApiDms.h, 1864
GetHomeNetwork
qaGobiApiNas.h, 1951
GetHomeNetwork3GPP2
qaGobiApiNas.h, 1952
GetIMSI
qaGobiApiDms.h, 1865
GetIMSSMSConfigParams, 294
pPhoneCtxtURI, 295
pPhoneCtxtURILen, 295
pSMSFormat, 295
pSMSOverIPNwInd, 295
pSettingResp, 295
GetIMSUserConfigParams, 295
pIMSDomain, 296
pIMSDomainLen, 296
pSettingResp, 296
GetIMSVoIPConfigResp, 296
pAmrMode, 298

pAmrOctetAligned, 298
pAmrWBMode, 298
pAmrWBOctetAligned, 298
pAmrWbEnable, 298
pMinSessionExpiryTimer, 298
pRTPRTCPInactTimer, 298
pRingBackTimer, 298
pRingingTimer, 298
pScrAmrEnable, 298
pScrAmrWbEnable, 298
pSessionExpiryTimer, 298
pSettingResp, 298
GetIPAddressLTE
qaGobiApiWds.h, 2153
GetImageStore
qaGobiApiFms.h, 1901
GetImagesPreference
qaGobiApiFms.h, 1900
getIndicationRegResp
qaGobiApiSms.h, 2011
GetInstIDResp, 298
pIPFamily, 298
pInstanceID, 298
GetLastMobileIPError
qaGobiApiWds.h, 2153
GetM2MAVMuteReq, 301
Profile, 301
GetM2MAVMuteResp, 302
CwtMute, 302
EarMute, 302
MicMute, 302
GetM2MAudioProfileReq, 299
pGenerator, 299
GetM2MAudioProfileResp, 299
CwtMute, 300
EarMute, 300
Generator, 300
MicMute, 300
Profile, 300
Volume, 300
GetM2MAudioVolumeReq, 300
Generator, 301
Profile, 301
GetM2MAudioVolumeResp, 301
Level, 301
GetM2MSpkrGainReq, 302
Profile, 303
GetM2MSpkrGainResp, 303
Value, 303
GetManufacturer
qaGobiApiDms.h, 1865
GetMobileIP
qaGobiApiWds.h, 2154
GetMobileIPProfile
qaGobiApiWds.h, 2154
GetModelID
qaGobiApiDms.h, 1866
getMsgWaitingInfo, 303
msgWaitInfo, 304
numInstances, 304
GetNetworkPreference
qaGobiApiNas.h, 1954
GetNetworkTime
qaGobiApiDms.h, 1866
GetNetworkTimeResp, 304
p3GPP2TimeInfo, 304
p3GPPTimeInfo, 304
GetOfflineReason
qaGobiApiDms.h, 1867
GetPDSDefaults
qaGobiApiPds.h, 1985
GetPDSState
qaGobiApiPds.h, 1986
GetPRLVersion
qaGobiApiDms.h, 1868
GetPacketStatistics
qaGobiApiWds.h, 2156
GetPacketStatus
qaGobiApiWds.h, 2156
GetPortAutomaticTracking
qaGobiApiPds.h, 1986
GetPower
qaGobiApiDms.h, 1868
GetProfileSettingIn
qaGobiApiWds.h, 2142
GetProfileSettingOut
qaGobiApiWds.h, 2143
GetQmapIsSupported
qaGobiApiDcs.h, 1844
GetRFInfo
qaGobiApiNas.h, 1955
GetRegMgrConfigParams, 304
pIMSTestMode, 305
pPCSCFPort, 305
pPriCSCFPortName, 305
pPriCSCFPortNameLen, 305
pSettingResp, 305
GetSIPConfigResp, 305
pSIPLocalPort, 306
pSettingResp, 306
pSigCompEnabled, 306
pSubscribeTimer, 306
pTimerSIPReg, 306
pTimerT1, 306
pTimerT2, 306
pTimerTf, 306
GetSMSCAddress
qaGobiApiSms.h, 2014
GetSMSWake
qaGobiApiRms.h, 2005
GetSerialNumbers
qaGobiApiDms.h, 1868
GetServiceAutomaticTracking
qaGobiApiPds.h, 1987
GetServingNetwork
qaGobiApiNas.h, 1955

GetServingNetworkCapabilities
qaGobiApiNas.h, 1956
GetSessionDuration
qaGobiApiWds.h, 2157
GetSessionIDResp, 305
pSessionIDv4, 305
pSessionIDv6, 305
GetSessionState
qaGobiApiWds.h, 2157
GetSignalStrengths
qaGobiApiNas.h, 1957
GetStoredImages
qaGobiApiFms.h, 1901
getTransLayerInfoResp
qaGobiApiSms.h, 2012
getTransNWRegInfoResp
qaGobiApiSms.h, 2012
GetValidFwPriCombinations
fms.h, 1650
GetVoiceNumber
qaGobiApiDms.h, 1869
GetXTRAAutomaticDownload
qaGobiApiPds.h, 1987
GetXTRANetwork
qaGobiApiPds.h, 1988
GetXTRAValidity
qaGobiApiPds.h, 1988
glo_almanac_sv_msk
GPSStateInfo, 314
unpack_pds_SLQSGetGPSStateInfo_t, 1290
glo_ephemeris_sv_msk
GPSStateInfo, 314
unpack_pds_SLQSGetGPSStateInfo_t, 1290
glo_health_sv_msk
GPSStateInfo, 314
unpack_pds_SLQSGetGPSStateInfo_t, 1290
glo_visible_sv_msk
GPSStateInfo, 314
unpack_pds_SLQSGetGPSStateInfo_t, 1290
globalCellId
LTEInfoIntrafreq, 429
nas_LTEInfoIntrafreq, 507
glog
common.h, 1591
gloglvl
common.h, 1591
GnssData, 307
mask, 308
gnssSvId
loc_satelliteInfo, 404
satelliteInfo, 928
gnssSvInfoNotification, 308
bAltitudeAssumed, 309
pSatelliteInfo, 309
results, 309
gnssSvUsedList
loc_svUsedforFix, 407
svUsedforFix_s, 1025
gnssSvUsedList_len
loc_svUsedforFix, 407
svUsedforFix_s, 1025
Gpp2TimeZone
qaQmiServingSystemParam, 859
unpack_nas_SLQSGetServingSystem_t, 1242
GppNetworkDSTAdjustment
qaQmiServingSystemParam, 859
unpack_nas_SLQSGetServingSystem_t, 1242
GppTimeZone
qaQmiServingSystemParam, 859
unpack_nas_SLQSGetServingSystem_t, 1242
gps_almanac_sv_msk
GPSStateInfo, 314
unpack_pds_SLQSGetGPSStateInfo_t, 1290
gps_ephemeris_sv_msk
GPSStateInfo, 314
unpack_pds_SLQSGetGPSStateInfo_t, 1290
gps_health_sv_msk
GPSStateInfo, 314
unpack_pds_SLQSGetGPSStateInfo_t, 1290
gps_visible_sv_msk
GPSStateInfo, 314
unpack_pds_SLQSGetGPSStateInfo_t, 1290
GpsEnable
custFeaturesInfo, 220
pack_dms_SetCustFeature_t, 661
unpack_dms_GetCustFeature_t, 1137
gpsTime
qaGobiApiCbk.h, 1767
gpsTime_s, 315
gpsTimeOfWeekMs, 315
gpsWeek, 315
gpsTimeOfWeekMs
gpsTime_s, 315
loc_gpsTime, 396
t_gpsTime, 1052
gpsWeek
gpsTime_s, 315
loc_gpsTime, 396
t_gpsTime, 1052
grntDownlinkBitrate
LibPackUMTSQoS, 388
UMTSMinQoS, 1125
UMTSQoS, 1128
wds_UMTSMinQoS, 1566
grntUplinkBitrate
LibPackUMTSQoS, 388
UMTSMinQoS, 1126
UMTSQoS, 1128
wds_UMTSMinQoS, 1566
gsmAmrStat
curAMRConfig, 211
voice_curAMRConfig, 1464
GsmCellInfo
lteGsmCellInfo, 424
nas_lteGsmCellInfo, 502
gsmCellInfo, 315

arfcn, 316
band1900, 316
bsicId, 316
cellIdValid, 316
rssi, 316
srxlev, 316
gsmUmtsDl
NasSwiIndReg, 631
pack_nas_SLQSNasSwiIndicationRegister_t, 709
gsmUmtsUl
NasSwiIndReg, 631
pack_nas_SLQSNasSwiIndicationRegister_t, 709
guaranteedRate
dataRate, 229
unpack_qos_dataRate_t, 1292
gwAddressV6
IPV6GWAddressInfo, 358
wds_IPV6GWAddressInfo, 1559
gwV6PrefixLen
IPV6GWAddressInfo, 358
wds_IPV6GWAddressInfo, 1559
gyroAcceptReady
qaGobiApiCbk.h, 1767
gyroAcceptReady_s, 321
batchPerSec, 321
injectEnable, 321
samplesPerBatch, 322
gyroData
pack_loc_SLQSLOCInjectSensorData_t, 687
gyroTemp
pack_loc_SLQSLOCInjectSensorData_t, 687
gyroTempAcceptReady
qaGobiApiCbk.h, 1768
gyroTempAcceptReady_s, 322
batchPerSec, 322
injectEnable, 322
samplesPerBatch, 322
gyroTimeSrc
pack_loc_SLQSLOCInjectSensorData_t, 688

HASPI
unpack_wds_GetMobileIPProfile_t, 1398
HAState
unpack_wds_GetMobileIPProfile_t, 1398
HDOP
loc_precisionDilution, 402
precisionDilution_s, 834
HDRECIOThresh, 322
HDRECIOThreshListLen, 323
pHDRECIOThreshList, 323
HDRECIOThreshListLen
HDRECIOThresh, 323
nas_HDRECIOThresh, 492
HDRIOThresh, 323
HDRIOThreshListLen, 323
pHDRIOThreshList, 323
HDRIOThreshListLen
HDRIOThresh, 323
nas_HDRIOThresh, 492
HDRPersonalityInd, 323
pCurrentPersonality, 324
pPersonalityListLength, 324
pProtocolSubtypeElement, 324
HDRPersonalityResp, 324
pCurrentPersonality, 324
pPersonalityListLength, 324
pProtocolSubtypeElement, 324
HDRProtSubtypResp, 324
pAppSubType, 325
pCurrentPrsnlty, 325
pPersonalityListLength, 325
pProtoSubTypElmnt, 325
HDRRSSIThresh, 325
HDRRSSIThreshListLen, 326
pHDRRSSIThreshList, 326
HDRRSSIThreshListLen
HDRRSSIThresh, 326
nas_HDRRSSIThresh, 493
HDRSINRThresListLen
HDRSINRThresh, 326
nas_HDRSINRThresh, 494
HDRSINRThresh, 326
HDRSINRThresListLen, 326
pHDRSINRThresList, 326
HDRSINRThreshListLen
HDRSINRThreshold, 327
nas_HDRSINRThreshold, 495
HDRSINRThreshold, 326
HDRSINRThreshListLen, 327
pHDRSINRThreshList, 327
HDRSSInfo, 327
ecio, 328
io, 328
rssi, 328
sinr, 328
unpack_nas_SLQSNasGetSigInfo_t, 1261
HDRSysInfo, 329
hdrActiveProt, 331
hdrActiveProtValid, 331
hdrPersonality, 331
hdrPersonalityValid, 331
is856SysId, 331
is856SysIdValid, 331
isSysPrlMatch, 331
isSysPrlMatchValid, 331
sysInfoHDR, 331
HTTPStatus
_SwiAvmsEventInd, 106
HWVersion
DeviceConfigDetail, 236
nas_DeviceConfigDetail, 479
HardwareControlledMode
unpack_dms_GetPower_t, 1151
has_LpmFlag
unpack_dms_SLQSDmsSwiGetPCInfo_t, 1163
has_PersistentLpm
unpack_dms_SLQSDmsSwiGetPCInfo_t, 1163

has_PositionDataNMEA
unpack_pds_SetEventReport_Ind_t, 1285
has_PowerOffMode
unpack_dms_SLQSDmsSwiGetPCInfo_t, 1163
has_SessionStatus
unpack_pds_SetEventReport_Ind_t, 1285
has_Wdisable
unpack_dms_SLQSDmsSwiGetPCInfo_t, 1163
has_accelTemp
pack_loc_SLQSLOCInjectSensorData_t, 688
has_acceleroTimeSrc
pack_loc_SLQSLOCInjectSensorData_t, 688
has_accleroData
pack_loc_SLQSLOCInjectSensorData_t, 688
has_altitudeSrcInfo
pack_loc_SLQSLOCInjectPosition_t, 685
has_altitudeWrtEllipsoid
pack_loc_SLQSLOCInjectPosition_t, 685
has_altitudeWrtMeanSeaLevel
pack_loc_SLQSLOCInjectPosition_t, 685
has_confidence
pack_loc_SLQSLOCSetCradleMountConfig_t, 689
has_dLatitude
unpack_pds_SetEventReport_Ind_t, 1285
has_dLongitude
unpack_pds_SetEventReport_Ind_t, 1285
has_gyroData
pack_loc_SLQSLOCInjectSensorData_t, 688
has_gyroTemp
pack_loc_SLQSLOCInjectSensorData_t, 688
has_gyroTimeSrc
pack_loc_SLQSLOCInjectSensorData_t, 688
has_horConfidence
pack_loc_SLQSLOCInjectPosition_t, 685
has_horReliability
pack_loc_SLQSLOCInjectPosition_t, 685
has_horUncCircular
pack_loc_SLQSLOCInjectPosition_t, 685
has_latitude
pack_loc_SLQSLOCInjectPosition_t, 685
has_longitude
pack_loc_SLQSLOCInjectPosition_t, 685
has_opaqueId
pack_loc_SLQSLOCInjectSensorData_t, 688
has_posSrc
unpack_pds_SetEventReport_Ind_t, 1285
has_positionSrc
pack_loc_SLQSLOCInjectPosition_t, 685
has_rawHorConfidence
pack_loc_SLQSLOCInjectPosition_t, 685
has_rawHorUncCircular
pack_loc_SLQSLOCInjectPosition_t, 685
has_serverAddrTypeMask
pack_loc_SLQSLOCGetServer_t, 681
has_timestampAge
pack_loc_SLQSLOCInjectPosition_t, 685
has_timestampUtc
pack_loc_SLQSLOCInjectPosition_t, 685
has_vertConfidence
pack_loc_SLQSLOCInjectPosition_t, 685
has_vertRelicability
pack_loc_SLQSLOCInjectPosition_t, 685
has_vertUnc
pack_loc_SLQSLOCInjectPosition_t, 686
hdrActiveProt
HDRSysInfo, 331
nas_HDRSysInfo, 497
hdrActiveProtValid
HDRSysInfo, 331
nas_HDRSysInfo, 497
hdrHybrid
detailSvcInfo, 235
nas_detailSvcInfo, 478
HdrPersonality
unpack_nas_SLQSGetServingSystem_t, 1242
hdrPersonality
HDRSysInfo, 331
nas_HDRSysInfo, 497
NASServingSystemInfo, 627
qaQmiServingSystemParam, 859
ServingSystemInfo, 936
hdrPersonalityValid
HDRSysInfo, 331
nas_HDRSysInfo, 497
hdrSSInfo, 328
ecio, 329
io, 329
rssi, 329
sinr, 329
hdrSrvStatus
detailSvcInfo, 235
nas_detailSvcInfo, 478
healthStatus
loc_satelliteInfo, 404
satelliteInfo, 928
helper_get_error_code
common.h, 1589
helper_get_error_reason
common.h, 1590
helper_get_req_str
common.h, 1590
helper_get_resp_ctx
common.h, 1590
helper_get_xid
common.h, 1590
helper_set_log_func
common.h, 1590
helper_set_log_lvl
common.h, 1590
homeOrigVoiceSO
prefVoiceSO, 837
voice_prefVoiceSO, 1476
homePageVoiceSO
prefVoiceSO, 837
voice_prefVoiceSO, 1476
homeSIDNID, 331

numInstances, 332
SidNid, 332
horConfidence
pack_loc_SLQSLOCInjectPosition_t, 686
horReliability
pack_loc_SLQSLOCInjectPosition_t, 686
horUncCircular
pack_loc_SLQSLOCInjectPosition_t, 686
HorizontalUncertainty
GPSStateInfo, 314
unpack_pds_SLQSGetGPSStateInfo_t, 1290
hotSwap
hotSwapStatus, 332
uim_hotSwapStatus, 1087
hotSwapLength
hotSwapStatus, 332
uim_hotSwapStatus, 1087
hotSwapStatus, 332
hotSwap, 332
hotSwapLength, 332
hour
nas_timeInfo, 579
nas_UniversalTime, 585
timeInfo, 1063
UniversalTime, 1131
hrpdMTUSize
hrpdMTUSizeTlv, 333
swidms_hrpdMTUSizeTlv, 1027
hrpdMTUSizeTlv, 332
hrpdMTUSize, 333
TlvPresent, 333
hsCallStatus
nas_WCDMASysInfo, 591
WCDMASysInfo, 1544
hsCallStatusValid
nas_WCDMASysInfo, 591
WCDMASysInfo, 1544
hsInd
nas_WCDMASysInfo, 591
WCDMASysInfo, 1544
hsIndValid
nas_WCDMASysInfo, 591
WCDMASysInfo, 1544
hwType
wds_DHCPv4HWConfig, 1553
WdsDHCPv4HWConfig, 1572
wdsDhcpv4HwConfig, 1572
hwVer
unpack_dms_GetHardwareRevision_t, 1147

iFaceTab
PCMparams, 814
iFaceTabLen
PCMparams, 814
iGetByteTotals
qaGobiApiWds.h, 2158
iGetConnectionRate
qaGobiApiWds.h, 2158
iGetPacketStatistics
qaGobiApiWds.h, 2158
iLTEbandValue
nas_PhyCaAggPcellInfo, 536
nas_PhyCaAggScellInfo, 540
NASPhyCaAggPcellInfo, 616
NASPhyCaAggScellInfo, 619
PhyCaAggPcellInfo, 822
PhyCaAggScellInfo, 827
IMCNflag
unpack_wds_SLQSGetRuntimeSettings_t, 1416
IMEIString
unpack_dms_GetDeviceSerialNumbers_t, 1142
IMG_ID_LEN
qaGobiApiFms.h, 1896
IMGDETAILS_LEN
qaGobiApiFms.h, 1896
IMS Service (IMS), 59
IMSAIndRegisterInfo, 337
pPdpStatusConfig, 337
pRatHandoverStatusConfig, 337
pRegStatusConfig, 338
pServiceStatusConfig, 338
IMSARegistrationStatus, 339
pImsRegErrCode, 340
pImsRegStatus, 340
pNewImsRegStatus, 340
IMSAServiceStatus, 340
pSmsServiceRat, 342
pSmsServiceStatus, 342
pUtServiceRat, 342
pUtServiceStatus, 342
pVoipServiceRat, 342
pVoipServiceStatus, 342
pVsServiceRat, 342
pVsServiceStatus, 342
pVtServiceRat, 342
pVtServiceStatus, 343
IMSASupportedFieldsResp, 343
pIndFieldsList, 343
pReqFieldsList, 343
pRespFieldsList, 343
IMSASupportedMsgInfo, 343
pSupportedMsgList, 344
IMSI_M_S1_LENGTH
qaGobiApiNas.h, 1935
IMSI_M_S2_LENGTH
qaGobiApiNas.h, 1935
IMSInfo
sMSOnIMSTlv, 1013
IMSTlv
unpack_sms_SetNewSMSCallback_ind_t, 1317
INDEX_ZERO
qaNasPerformNetworkScan.h, 2184
INT32
SwiDataTypes.h, 2228
INT8
SwiDataTypes.h, 2228
INVALID_INSTACNE

qaGobiApiCbk.h, 1765
IOThresListLen
IOThresh, 354
nas_IOThresh, 499
IOThresh, 353
IOThresListLen, 354
pIOThresList, 354
IPAddress
DataStatusDetail, 231
nas_DataStatusDetail, 476
IPAddressV6
IPV6AddressInfo, 356
ipv6AddressInfo, 357
wds_IPV6AddressInfo, 1558
IPFamSupport
pack_dms_SetCustFeature_t, 661
unpack_dms_GetCustFeature_t, 1137
IPFamilyPreference
pack_wds_SLQSSetIPFamilyPreference_t, 806
unpack_wds_SLQSGetRuntimeSettings_t, 1416
IPSECSPI
LibPackTFTIDParams, 386
TFTIDParams, 1061
IPV4
qaGobiApiCbk.h, 1765
IPV4V6
qaGobiApiCbk.h, 1765
IPV6
qaGobiApiCbk.h, 1765
IPV6AddrInfo
unpack_wds_SLQSGetRuntimeSettings_t, 1416
IPV6AddressInfo, 356
IPAddressV6, 356
IPV6PrefixLen, 356
IPV6GWAddrInfo
unpack_wds_SLQSGetRuntimeSettings_t, 1416
IPV6GWAddressInfo, 357
gwAddressV6, 358
gwV6PrefixLen, 358
IPV6PrefixLen
IPV6AddressInfo, 356
ipv6AddressInfo, 357
wds_IPV6AddressInfo, 1558
IPv4
unpack_wds_SLQSGetRuntimeSettings_t, 1416
IPv4Addr, 354
addr, 354
IPv4Config, 355
loc_IPv4Config, 398
subnetMask, 354
wds_IPv4AdTlv, 1557
IPv4AddrTlv
unpack_wds_DHCPv4ClientLease_ind_t, 1390
IPv4Config, 354
IPv4Addr, 355
IPv4Port, 355
IPv4DstAddr
unpack_qos_swiQosFilter_t, 1304
IPv4Info, 355
address, 355
port, 355
TlvPresent, 355
IPv4Port
IPv4Config, 355
loc_IPv4Config, 398
IPv4SrcAddr
unpack_qos_swiQosFilter_t, 1304
IPv4Tos
unpack_qos_swiQosFilter_t, 1304
IPv6Addr, 355
addr, 356
IPv6Config, 357
loc_IPv6Config, 399
prefixLen, 356
IPv6Config, 357
IPv6Addr, 357
IPv6Port, 357
IPv6DstAddr
unpack_qos_swiQosFilter_t, 1304
IPv6Info, 358
address, 358
port, 358
TlvPresent, 358
IPv6Label
unpack_qos_swiQosFilter_t, 1305
IPv6Port
IPv6Config, 357
loc_IPv6Config, 399
IPv6SrcAddr
unpack_qos_swiQosFilter_t, 1305
IPv6TrafCls, 358
mask, 359
unpack_qos_swiQosFilter_t, 1305
val, 359
iSLQSMISetIPFamilyPreference
qaGobiApiWds.h, 2158
iSLQSSetDUNCallInfoCallback
qaGobiApiCbk.h, 1805
iSLQSSetSignalStrengthsCallback
qaGobiApiCbk.h, 1805
iSLQSSetWdsFirstInstEventCallback
qaGobiApiCbk.h, 1805
iSLQSSetWdsSecondInstEventCallback
qaGobiApiCbk.h, 1805
iSLQSSetWdsThirdInstEventCallback
qaGobiApiCbk.h, 1805
iSLQSSetWdsXferStatsFirstInstCallback
qaGobiApiCbk.h, 1805
iSLQSSetWdsXferStatsSecondInstCallback
qaGobiApiCbk.h, 1806
iSetCATEventCallback
qaGobiApiCbk.h, 1805
iSetSignalStrengthCallback
qaGobiApiCbk.h, 1805
Id
unpack_qos_swiQosFilter_t, 1304

id
BdsSV, 150
CSGID, 209
loc_BdsSV, 392
loc_SV, 406
nas_CSGID, 473
pack_dms_UIMChangePIN_t, 670
pack_dms_UIMSetPINProtection_t, 672
pack_dms_UIMUnblockPIN_t, 673
pack_dms_UIMVerifyPIN_t, 674
QosFlowInfoState, 899
SV, 1024
swiQosModifyReq, 1044
unpack_qos_QosFlowInfoState_t, 1296
unpack_qos_SLQSSetQosStatusCallback_ind_t, 1302
id_length
custSettingInfo, 223
DMScustSettingInfo, 248
IdleState
nas_protocolSubtypeElement, 545
protocolSubtypeElement, 850
IfaceID
qos_BindDataPortPeripheralEndPointID_t, 895
image_info_t, 333
buildID, 333
buildIDLen, 333
imageType, 333
uniqueID, 333
ImageElement, 334
buildId, 334
buildIdLength, 334
imageId, 334
imageType, 334
imageID
FMSImageIdElement, 272
ImageIdElement, 335
imageIDElement
FMSImageIDEntries, 273
ImageIDEntries, 336
ImageIDEntries, 335
executingImage, 336
imageIDElement, 336
imageIDSize, 336
imageType, 336
maxImages, 336
imageIDEntries
FMSImageList, 274
ImageList, 336
imageIDSize
FMSImageIDEntries, 273
ImageIDEntries, 336
imageId
FMSImageElement, 271
ImageElement, 334
ImageIdElement, 334
buildID, 335
buildIDLength, 335
failureCount, 335
imageID, 335
storageIndex, 335
ImageList, 336
imageIDEntries, 336
listSize, 337
imageList
unpack_fms_GetStoredImages_t, 1187
ImageListSize
unpack_fms_GetImagesPreference_t, 1186
imageListSize
pack_fms_SetImagesPreference_t, 676
imageType
CurrImageInfo, 215
FMSImageElement, 271
FMSImageIDEntries, 273
image_info_t, 333
ImageElement, 334
ImageIDEntries, 336
ImageTypes
unpack_fms_SetImagesPreference_t, 1187
ImageTypesSize
unpack_fms_SetImagesPreference_t, 1187
imagelistSize
unpack_fms_GetStoredImages_t, 1187
imei_no
unpack_dms_GetSerialNumbers_t, 1153
imeiSize
serialNumbersInfo, 934
unpack_dms_GetDeviceSerialNumbers_t, 1142
imeiSvnSize
serialNumbersInfo, 934
unpack_dms_GetDeviceSerialNumbers_t, 1142
ImeiSvnString
unpack_dms_GetDeviceSerialNumbers_t, 1142
imeisv_svn
unpack_dms_GetSerialNumbers_t, 1153
imgType
unpack_dms_SLQSSwiGetFwUpdateStatus_t, 1175
imsCfgIndRegisterInfo, 345
pRegMgrConfigEvents, 346
pSIPConfigEvents, 346
pSMSConfigEvents, 346
pUserConfigEvents, 346
pVoIPConfigEvents, 346
imsRegMgrConfigInfo, 346
pCSCFPortName, 347
pIMSTestMode, 347
pPriCSCFPort, 347
imsRegState
CommInfo, 200
nas_CommInfo, 472
imsSIPConfigInfo, 347
pSIPLocalPort, 348
pSigCompEnabled, 348
pSubscribeTimer, 348
pTimerSIPReg, 348

pTimerT1, 348
pTimerT2, 348
pTimerTf, 348
imsSMSConfigInfo, 348
pPhoneCtxtURI, 348
pSMSFormat, 348
pSMSOverIPNwInd, 348
imsUserConfigInfo, 349
pIMSDomain, 349
imsVoIPConfigInfo, 349
pAmrMode, 351
pAmrOctetAligned, 351
pAmrWBMode, 351
pAmrWBOctetAligned, 351
pAmrWbEnable, 351
pMinSessionExpiryTimer, 351
pRTPRTCPInactTimer, 351
pRingBackTimer, 351
pRingingTimer, 351
pScrAmrEnable, 351
pScrAmrWbEnable, 351
pSessionExpiryTimer, 351
imsaPdpStatusInfo, 338
connetionState, 338
pFailErrorCode, 338
imsaRatStatusInfo, 338
pErrorCodeStr, 339
pRATStatus, 339
pSrcRAT, 339
pTgtRAT, 339
imsaRegStatusInfo, 340
pImsRegStatus, 340
pRegStatusErrorCode, 340
pbIMSRegistered, 340
imsaSvcStatusInfo, 344
pSMSSvcRAT, 344
pSMSSvcStatus, 344
pUTSvcRAT, 344
pUTSvcStatus, 344
pVOIPSvcRAT, 344
pVOIPSvcStatus, 345
pVTSvcRAT, 345
pVTSvcStatus, 345
imsi
unpack_dms_GetIMSI_t, 1148
imsi_11_12
CDMASysInfoExt, 188
nas_CDMASysInfoExt, 467
imsiM1112
minBasedIMSI, 449
nas_minBasedIMSI, 523
imsiMS1
minBasedIMSI, 449
nas_minBasedIMSI, 523
imsiMS2
minBasedIMSI, 449
nas_minBasedIMSI, 523
imsiT1112
nas_trueIMSI, 580
trueIMSI, 1070
imsiTS1
nas_trueIMSI, 580
trueIMSI, 1070
imsiTS2
nas_trueIMSI, 580
trueIMSI, 1070
imsiTaddrNum
nas_trueIMSI, 580
trueIMSI, 1070
InUse
nas_QmiNas3GppNetworkInfo, 547
SlqsNas3GppNetworkInfo, 975
includes_pcs_digit
nas_QmisNasPcsDigit, 549
SlqsNasPcsDigit, 976
IndFieldsList, 351
indicationFields, 352
indicationFieldsLen, 352
index
pack_wds_GetMobileIPProfile_t, 790
pack_wds_SetDefaultProfileNum_t, 794
pack_wds_SetMobileIPProfile_t, 797
swiQosFilter, 1039
swiQosFlow, 1042
swiQosReq, 1045
unpack_qos_swiQosFilter_t, 1304
unpack_qos_swiQosFlow_t, 1308
unpack_wds_GetDefaultProfileNum_t, 1395
index1xPri
cardStatus, 166
uim_cardStatus, 1080
index1xSec
cardStatus, 166
uim_cardStatus, 1080
indexGwPri
cardStatus, 166
uim_cardStatus, 1080
indexGwSec
cardStatus, 166
uim_cardStatus, 1080
indicationFields
IndFieldsList, 352
indicationFieldsLen
IndFieldsList, 352
Info
unpack_nas_SLQSNasSwiOTAMessageCallback-_ind_t, 1266
unpack_nas_SLQSSetSysSelectionPrefCallBack-_ind_t, 1267
infoInterFreq, 352
cell_resel_priority, 353
cellInterFreqParams, 353
cells_len, 353
earfcn, 353
threshXHigh, 353
threshXLow, 353

InfoInterfreq
LTEInfoInterfreq, 427
nas_LTEInfoInterfreq, 505
InitiateDomainAttach
qaGobiApiNas.h, 1958
InitiateNetworkRegistration
qaGobiApiNas.h, 1958
injectEnable
accelAcceptReady_s, 122
accelTempAcceptReady_s, 123
gyroAcceptReady_s, 321
gyroTempAcceptReady_s, 322
loc_accelAcceptReady, 390
loc_accelTempAcceptReady, 391
loc_gyroAcceptReady, 397
loc_gyroTempAcceptReady, 398
injectSensorDataStatus
QmiCbkLocInjectSensorDataInd, 871
unpack_loc_InjectSensorDataCallback_Ind_t, 1203
injectTimeSyncStatus
QmiCbkLocInjectTimeInd, 872
unpack_loc_InjectTimeSyncDataCallback_Ind_t, 1204
insNmrCellInfo
GERANInfo, 276
nas_GERANInfo, 484
instanceId
ssdatasession_params, 1022
instancesSize
unpack_nas_GetRFInfo_t, 1225
interval
pack_pds_SetPDSDefaults_t, 730
pack_pds_SetXTRAAutomaticDownload_t, 732
pack_wds_SLQSSetWdsEventCallback_t, 807
TransferStatsDataType, 1068
Io
slqsSignalStrengthInfo, 982
unpack_nas_SLQSGetSignalStrength_t, 1245
io
HDRSSInfo, 328
hdrSSInfo, 329
nas_SLQSSignalStrengthsInformation, 570
SLQSSignalStrengthsInformation, 986
ioDelta
nas_SLQSSignalStrengthsIndReq, 570
SLQSSignalStrengthsIndReq, 984
Iono_valid
GPSStateInfo, 314
unpack_pds_SLQSGetGPSStateInfo_t, 1290
ip
WdsIpAddressInfoReq, 1577
ipAddress
pack_wds_SetDefaultProfile_t, 794
ipFamily
_packetSrvStatus, 74
unpack_wds_SLQSSetPacketSrvStatusCallback_t, 1419
ipVersion
LibPackTFTIDParams, 386
TFTIDParams, 1061
ipaddr
unpack_wds_GetDefaultProfile_t, 1394
ipaddrv6
unpack_wds_GetDefaultProfile_t, 1394
ipfamily
ssdatasession_params, 1022
ipv4Address
unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t, 1425
ipv4GWAddress
unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t, 1425
ipv6Address
unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t, 1425
ipv6AddressInfo, 356
IPAddressV6, 357
IPV6PrefixLen, 357
ipv6GWAddress
unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t, 1425
is856SysId
HDRSysInfo, 331
nas_HDRSysInfo, 497
is856SysIdValid
HDRSysInfo, 331
nas_HDRSysInfo, 497
is_DataRate_Available
unpack_qos_swiQosFlow_t, 1308
is_EspSpi_Available
unpack_qos_swiQosFilter_t, 1305
is_IPv4DstAddr_Available
unpack_qos_swiQosFilter_t, 1305
is_IPv4SrcAddr_Available
unpack_qos_swiQosFilter_t, 1305
is_IPv4Tos_Available
unpack_qos_swiQosFilter_t, 1305
is_IPv6DstAddr_Available
unpack_qos_swiQosFilter_t, 1305
is_IPv6Label_Available
unpack_qos_swiQosFilter_t, 1305
is_IPv6SrcAddr_Available
unpack_qos_swiQosFilter_t, 1305
is_IPv6TrafCls_Available
unpack_qos_swiQosFilter_t, 1305
is_Id_Available
unpack_qos_swiQosFilter_t, 1305
is_Jitter_Available
unpack_qos_swiQosFlow_t, 1309
is_Latency_Available
unpack_qos_swiQosFlow_t, 1309
is_LteBandCapability_Available
unpack_dms_SLQSGetBandCapability_t, 1169
is_LteQci_Available
unpack_qos_swiQosFlow_t, 1309

is_MaxAllowedPktSz_Available
unpack_qos_swiQosFlow_t, 1309
is_MinPolicedPktSz_Available
unpack_qos_swiQosFlow_t, 1309
is_NxtHdrProto_Available
unpack_qos_swiQosFilter_t, 1305
is_PktErrRate_Available
unpack_qos_swiQosFlow_t, 1309
is_Precedence_Available
unpack_qos_swiQosFilter_t, 1305
is_ProfileId3GPP2_Available
unpack_qos_swiQosFlow_t, 1309
is_RxQFlowGranted_Available
unpack_qos_QosFlowInfo_t, 1295
is_TCPDstPort_Available
unpack_qos_swiQosFilter_t, 1305
is_TCPSrcPort_Available
unpack_qos_swiQosFilter_t, 1305
is_TdsBandCapability_Available
unpack_dms_SLQSGetBandCapability_t, 1169
is_TokenBucket_Available
unpack_qos_swiQosFlow_t, 1309
is_TrafficClass_Available
unpack_qos_swiQosFlow_t, 1309
is_TranDstPort_Available
unpack_qos_swiQosFilter_t, 1305
is_TranSrcPort_Available
unpack_qos_swiQosFilter_t, 1305
is_TxQFlowGranted_Available
unpack_qos_QosFlowInfo_t, 1295
is_UDPDstPort_Available
unpack_qos_swiQosFilter_t, 1305
is_UDPSrcPort_Available
unpack_qos_swiQosFilter_t, 1305
is_val_3GPP2Pri_Available
unpack_qos_swiQosFlow_t, 1309
is_val_3GPPImCn_Available
unpack_qos_swiQosFlow_t, 1309
is_val_3GPPResResidualBER_Available
unpack_qos_swiQosFlow_t, 1309
is_val_3GPPSigInd_Available
unpack_qos_swiQosFlow_t, 1309
is_val_3GPPTraHdlPri_Available
unpack_qos_swiQosFlow_t, 1309
isEmpty
getAllCallInformation, 278
voice_getAllCallInformation, 1468
isInTraffic
nas_txInfo, 581
txInfo, 1072
isModByCC
SUPSInfo, 1023
voice_SUPSInfo, 1481
isNewFlow
QosFlowInfoState, 899
unpack_qos_QosFlowInfoState_t, 1296
isPrefDataPath
GSMSrvStatusInfo, 318
nas_GSMSrvStatusInfo, 488
nas_SrvStatusInfo, 572
SrvStatusInfo, 1019
isRadioTuned
nas_rxInfo, 562
nas_RxSigInfo, 563
rxInfo, 921
RxSigInfo, 924
isSysForbidden
detailSvcInfo, 235
nas_detailSvcInfo, 478
nas_sysInfoCommon, 574
sysInfoCommon, 1048
isSysForbiddenValid
nas_sysInfoCommon, 574
sysInfoCommon, 1048
isSysPrlMatch
CDMASysInfo, 187
HDRSysInfo, 331
nas_CDMASysInfo, 466
nas_HDRSysInfo, 497
isSysPrlMatchValid
CDMASysInfo, 187
HDRSysInfo, 331
nas_CDMASysInfo, 466
nas_HDRSysInfo, 497
IsVoiceEnabled
pack_dms_SetCustFeature_t, 661
unpack_dms_GetCustFeature_t, 1137
Item
GetAudioPathConfigReq, 280
GetAudioVolTLBConfigReq, 284
SetAudioVolTLBConfigReq, 944

Jitter
unpack_qos_swiQosFlow_t, 1309

KeyExchange
nas_protocolSubtypeElement, 545
protocolSubtypeElement, 850

LITE_VOICE_SUPS_SRV_CLASS_DATA
voice.h, 2267
LITE_VOICE_SUPS_SRV_CLASS_DATACIRCUITASYNC
voice.h, 2267
LITE_VOICE_SUPS_SRV_CLASS_DATACIRCUITSYNC
voice.h, 2267
LITE_VOICE_SUPS_SRV_CLASS_FAX
voice.h, 2267
LITE_VOICE_SUPS_SRV_CLASS_NONE
voice.h, 2267
LITE_VOICE_SUPS_SRV_CLASS_PACKETACCESS
voice.h, 2267
LITE_VOICE_SUPS_SRV_CLASS_PADACCESS
voice.h, 2267
LITE_VOICE_SUPS_SRV_CLASS_SMS
voice.h, 2267

LITE_VOICE_SUPS_SRV_CLASS_VOICE
voice.h, 2267
LITEQMI_QMI_CBK_PARAM_NOCHANGE
sms.h, 2209
LITEQMI_QMI_CBK_PARAM_RESET
sms.h, 2209
LITEQMI_QMI_CBK_PARAM_SET
sms.h, 2209
LBPTlv
NASQmiCbkNasSystemSelPrefInd, 625
LEN
qaGobiApiDcs.h, 1844
LMCERTlv
unpack_wds_SLQSDUNCallInfoCallBack_ind_t, 1406
LOCEVENTMASKGNSSSVINFO
loc.h, 1656
LOCEVENTMASKNMEA
loc.h, 1657
LOCEVENTMASKWIFIREQ
loc.h, 1658
LOCEventRegisterReqResp, 410
eventRegister, 412
LOCExtPowerStateReqResp, 412
extPowerState, 412
LOCStartReq, 420
pApplicationInfo, 421
pConfigAltitudeAssumed, 421
pHorizontalAccuracyLvl, 421
pIntermediateReportState, 421
pMinIntervalTime, 421
pRecurrenceType, 421
SessionId, 421
LOCStopReq, 422
sessionId, 422
LPCSTR
SwiDataTypes.h, 2228
LTEAttachProfile
unpack_wds_SLQSGet3GPPConfigItem_t, 1407
LTEAttachProfileList
unpack_wds_SLQSGet3GPPConfigItem_t, 1407
LTEAttachProfileListLen
_slqs3GPPConfigItem, 87
pack_wds_SLQSSet3GPPConfigItem_t, 805
unpack_wds_SLQSGet3GPPConfigItem_t, 1407
LTEBandPref
nas_LTEBandPrefTlv, 500
NASLTEBandPreferenceTlv, 609
LTECphyCaInfo
unpack_nas_SlqsGetLTECphyCAInfo_t, 1235
LTEInfo, 425
band, 426
bandwidth, 426
emmConnState, 427
emmState, 427
emmSubState, 427
RXChan, 427
TXChan, 427
LTEInfoInterfreq, 427
freqsLen, 427
InfoInterfreq, 427
ueInIdle, 427
LTEInfoIntrafreq, 427
CellParams, 429
cellReselPriority, 429
cellsLen, 429
earfcn, 429
globalCellId, 429
plmn, 429
sIntraSearch, 429
sNonIntraSearch, 429
servingCellId, 429
tac, 429
threshServingLow, 429
ueInIdle, 429
LTEInfoNeighboringGSM, 429
freqsLen, 430
LteGsmCellInfo, 430
ueInIdle, 430
LTEInfoNeighboringWCDMA, 430
freqsLen, 431
LTEWCDMACellInfo, 431
ueInIdle, 431
LTEOperationMode, 435
pLTEOperationMode, 435
TlvPresent, 435
LTERSRPThresh, 436
LTERSRPThreshListLen, 437
pLTERSRPThreshList, 437
LTERSRPThreshListLen
LTERSRPThresh, 437
nas_LTERSRPThresh, 514
LTERSRQThresh, 437
LTERSRQThreshListLen, 437
pLTERSRQThreshList, 437
LTERSRQThreshListLen
LTERSRQThresh, 437
nas_LTERSRQThresh, 515
LTERSSIThresh, 437
LTERSSIThreshListLen, 438
pLTERSSIThreshList, 438
LTERSSIThreshListLen
LTERSSIThresh, 438
nas_LTERSSIThresh, 516
LTESNRThresListLen
LTESNRThresh, 441
nas_LTESNRThresh, 518
LTESNRThresh, 441
LTESNRThresListLen, 441
pLTESNRThresList, 441
LTESNRThreshListLen
LTESNRThreshold, 442
nas_LTESNRThreshold, 519
LTESNRThreshold, 441
LTESNRThreshListLen, 442
pLTESNRThreshList, 442

LTESSInfo, 442
rsrp, 442
rsrq, 442
rssi, 442
snr, 443
unpack_nas_SLQSNasGetSigInfo_t, 1261
LTESigRptCfg, 438
avgPeriod, 439
rptRate, 439
LTESigRptConfig, 439
avgPeriod, 440
rptRate, 440
LTESysInfo, 443
cellId, 445
cellIdValid, 445
lac, 445
lacValid, 445
MCC, 445
MNC, 446
networkIdValid, 446
regRejectInfoValid, 446
rejCause, 446
rejectSrvDomain, 446
sysInfoLTE, 446
tac, 446
tacValid, 446
LTEWCDMACellInfo
LTEInfoNeighboringWCDMA, 431
nas_LTEInfoNeighboringWCDMA, 509
Lac
qaQmiServingSystemParam, 860
unpack_nas_SLQSGetServingSystem_t, 1242
lac
GERANInfo, 277
GSMSysInfo, 320
LTESysInfo, 445
nas_GERANInfo, 484
nas_GSMSysInfo, 490
nas_LTESysInfo, 521
nas_UMTSInfo, 582
nas_WCDMASysInfo, 591
UMTSInfo, 1121
WCDMASysInfo, 1544
lac1
nas_OperatorPLMNData, 534
OperatorPLMNData, 656
lac2
nas_OperatorPLMNData, 534
OperatorPLMNData, 656
lacValid
GSMSysInfo, 321
LTESysInfo, 445
nas_GSMSysInfo, 490
nas_LTESysInfo, 521
nas_WCDMASysInfo, 591
WCDMASysInfo, 1544
language
CDMABroadcastConfig, 172
sms_CDMABroadcastConfig, 989
lastCallDataBearerTech
unpack_wds_SLQSGetDUNCallInfo_t, 1413
lastCallDataBearerTechnology
unpack_wds_SLQSGetDataBearerTechnology_t, 1410
lastCallRXOKBytesCnt
unpack_wds_SLQSGetDUNCallInfo_t, 1413
lastCallTXOKBytesCnt
unpack_wds_SLQSGetDUNCallInfo_t, 1413
LastErrCode
DataStatusDetail, 231
nas_DataStatusDetail, 476
Latency
unpack_qos_swiQosFlow_t, 1309
Latitude
GPSStateInfo, 314
unpack_pds_SLQSGetGPSStateInfo_t, 1290
latitude
pack_loc_SLQSLOCInjectPosition_t, 686
leapSeconds
nas_qaQmi3Gpp2TimeZone, 546
qaQmi3Gpp2TimeZone, 855
leaseState
wds_DHCPLeaseStateTlv, 1551
len
BdsSVInfo, 151
loc_BdsSVInfo, 392
loc_SVInfo, 406
SVInfo, 1025
t_Sv, 1053
unpack_nas_GetSignalStrengths_t, 1228
length
readTransparentInfo, 902
SMSCAddress, 1003
sMSCAddressInfo, 1003
SMSEtwsMessage, 1004
sMSEtwsMessageInfo, 1005
SMSTransferRouteMTMessage, 1016
sMSTransferRouteMTMessageInfo, 1016
uim_readTransparentInfo, 1089
Level
GetM2MAudioVolumeResp, 301
SetM2MAudioVolumeReq, 954
LibPackGPRSRequestedQoS, 359
delayClass, 360
meanThroughputClass, 360
peakThroughputClass, 360
precedenceClass, 360
reliabilityClass, 360
LibPackQosClassID, 383
gDlBitRate, 384
gUlBitRate, 384
maxDlBitRate, 384
maxUlBitRate, 384
QCI, 384
LibPackTFTIDParams, 384
destPortRangeEnd, 385

destPortRangeStart, 385
eValid, 385
filterId, 386
flowLabel, 386
IPSECSPI, 386
ipVersion, 386
nextHeader, 386
pSourceIP, 386
sourceIPMask, 386
srcPortRangeEnd, 386
srcPortRangeStart, 386
tosMask, 386
LibPackUMTSQoS, 386
deliveryErrSDU, 388
grntDownlinkBitrate, 388
grntUplinkBitrate, 388
maxDownlinkBitrate, 388
maxSDUSize, 388
maxUplinkBitrate, 388
qosDeliveryOrder, 388
resBerRatio, 388
sduErrorRatio, 388
trafficClass, 388
trafficPriority, 388
transferDelay, 388
LibPackUMTSReqQoSSigInd, 389
SigInd, 389
UMTSReqQoS, 389
LibPackprofile_3GPP, 372
pAPNClass, 377
pAPNDisabledFlag, 377
pAPNName, 377
pAPNnameSize, 377
pAddrAllocPref, 376
pAuthenticationPref, 377
pGPRSMinimumQoS, 377
pGPRSRequestedQos, 377
pIPv4AddrPref, 377
pIPv6AddPref, 377
pImCnFlag, 377
pPDNInactivTimeout, 377
pPDPtype, 377
pPassword, 377
pPasswordSize, 377
pPcscfAddrUsingDhcp, 377
pPcscfAddrUsingPCO, 377
pPdpAccessConFlag, 377
pPdpContext, 377
pPdpDataCompType, 377
pPdpHdrCompType, 377
pPriDNSIPv4AddPref, 377
pPriDNSIPv6addpref, 377
pPrimaryID, 377
pProfilename, 377
pProfilenameSize, 377
pQosClassID, 377
pSecDNSIPv4AddPref, 377
pSecDNSIPv6addpref, 377
pSecondaryFlag, 378
pSupportEmergencyCalls, 378
pTFTID1Params, 378
pTFTID2Params, 378
pUMTSMinQoS, 378
pUMTSMinQosSigInd, 378
pUMTSReqQoS, 378
pUMTSReqQoSSigInd, 378
pUsername, 378
pUsernameSize, 378
LibPackprofile_3GPP2, 378
pAPNClass3GPP2, 382
pAPNEnabled3GPP2, 382
pAllowLinger, 382
pApnString, 382
pApnStringSize, 382
pAppPriority, 382
pAppType, 382
pAuthPassword, 382
pAuthPassword_tSize, 382
pAuthProtocol, 382
pAuthRetryCount, 382
pAuthTimeout, 382
pDataMode, 382
pDataRate, 382
pIpcpAckTimeout, 382
pIpcpCreqRetryCount, 383
pIsPcscfAddressNedded, 383
pLcpAckTimeout, 383
pLcpCreqRetryCount, 383
pNegoDnsSrvrPref, 383
pPDNInactivTimeout3GPP2, 383
pPdnType, 383
pPppSessCloseTimer1x, 383
pPppSessCloseTimerDO, 383
pPriV6DnsAddress, 383
pPrimaryV4DnsAddress, 383
pRATType, 383
pSecV6DnsAddress, 383
pSecondaryV4DnsAddress, 383
pUserId, 383
pUserIdSize, 383
LibpackProfile3GPP, 360
pAPNClass, 365
pAPNDisabledFlag, 365
pAPNName, 365
pAPNnameSize, 365
pAddrAllocPref, 365
pAuthenticationPref, 365
pGPRSMinimumQoS, 365
pGPRSRequestedQos, 365
pIPv4AddrPref, 366
pIPv6AddPref, 366
pImCnFlag, 366
pPDNInactivTimeout, 366
pPDPtype, 366
pPassword, 366
pPasswordSize, 366

pPcscfAddrUsingDhcp, 366
pPcscfAddrUsingPCO, 366
pPdpAccessConFlag, 366
pPdpContext, 366
pPdpDataCompType, 366
pPdpHdrCompType, 366
pPriDNSIPv4AddPref, 366
pPriDNSIPv6addpref, 366
pPrimaryID, 366
pProfilename, 366
pProfilenameSize, 366
pQosClassID, 366
pSecDNSIPv4AddPref, 366
pSecDNSIPv6addpref, 366
pSecondaryFlag, 366
pSupportEmergencyCalls, 366
pTFTID1Params, 366
pTFTID2Params, 366
pUMTSMinQoS, 366
pUMTSMinQosSigInd, 366
pUMTSReqQoS, 366
pUMTSReqQoSSigInd, 367
pUsername, 367
pUsernameSize, 367
LibpackProfile3GPP2, 367
pAPNClass3GPP2, 371
pAPNEnabled3GPP2, 371
pAllowLinger, 371
pApnString, 371
pApnStringSize, 371
pAppPriority, 371
pAppType, 371
pAuthPassword, 371
pAuthPasswordSize, 371
pAuthProtocol, 371
pAuthRetryCount, 371
pAuthTimeout, 371
pDataMode, 371
pDataRate, 371
pIpcpAckTimeout, 371
pIpcpCreqRetryCount, 371
pIsPcscfAddressNedded, 371
pLcpAckTimeout, 371
pLcpCreqRetryCount, 371
pNegoDnsSrvrPref, 372
pPDNInactivTimeout3GPP2, 372
pPdnType, 372
pPppSessCloseTimer1x, 372
pPppSessCloseTimerDO, 372
pPriV6DnsAddress, 372
pPrimaryV4DnsAddress, 372
pRATType, 372
pSecV6DnsAddress, 372
pSecondaryV4DnsAddress, 372
pUserId, 372
pUserIdSize, 372
lineCtrlInfo, 389
polarityIncluded, 390
pwrDenialTime, 390
revPolarity, 390
toggleMode, 390
lineValue
pack_voice_SLQSVoiceALSSelectLine_t, 770
voiceALSSelectLineInfo, 1484
linkage
altitudeSrcInfo, 130
altSrcInfo_t, 131
list_type
custSettingList, 223
DMScustSettingList, 249
DMSgetCustomInput, 250
getCustomInput, 287
pack_dms_GetCustFeaturesV2_t, 658
listEntries
FMSPrefImageList, 274
PrefImageList, 835
listSize
FMSImageList, 274
FMSPrefImageList, 274
ImageList, 337
PrefImageList, 835
liteQmiDataBearerMasks
wds.h, 2299
liteServiceClassInformation
voice.h, 2267
liteqmi_GetVersion
common.h, 1590
liteqmi_helper_decode7bitAsciiEncString
common.h, 1590
liteqmi_log
common.h, 1591
loc.h
eQMI_LOC_SESS_STATUS_FAILURE, 1658
eQMI_LOC_SESS_STATUS_IN_PROGRESS, 1658
eQMI_LOC_SESS_STATUS_SUCCESS, 1658
eQMI_LOC_SESS_STATUS_TIMEOUT, 1658
loc.h, 1652
LOCEVENTMASKNMEA, 1657
LOCEVENTMASKWIFIREQ, 1658
MAX_TEMP_DATA_LEN, 1658
pack_loc_DeleteAssistData, 1658
pack_loc_EventRegister, 1659
pack_loc_SLQSLOCGetBestAvailPos, 1660
pack_loc_SLQSLOCGetServer, 1660
pack_loc_SLQSLOCInjectPosition, 1661
pack_loc_SLQSLOCInjectSensorData, 1661
pack_loc_SLQSLOCInjectUTCTime, 1661
pack_loc_SLQSLOCSetCradleMountConfig, 1662
pack_loc_SLQSLOCSetServer, 1662
pack_loc_SetExtPowerState, 1659
pack_loc_SetOperationMode, 1659
pack_loc_Start, 1663
pack_loc_Stop, 1663
unpack_loc_BestAvailPos_Ind, 1663
unpack_loc_CradleMountCallback_Ind, 1664

unpack_loc_DeleteAssistData, 1664
unpack_loc_DeleteAssistData_Ind, 1665
unpack_loc_EngineState_Ind, 1665
unpack_loc_EventNMEA_Ind, 1665
unpack_loc_EventRegister, 1666
unpack_loc_EventTimeSyncCallback_Ind, 1666
unpack_loc_GetServer_Ind, 1666
unpack_loc_GnssSvInfo_Ind, 1667
unpack_loc_InjectPositionCallback_Ind, 1667
unpack_loc_InjectSensorDataCallback_Ind, 1667
unpack_loc_InjectTimeSyncDataCallback_Ind, 1668
unpack_loc_InjectUTCTimeCallback_Ind, 1668
unpack_loc_PositionRpt_Ind, 1668
unpack_loc_SLQSLOCGetBestAvailPos, 1671
unpack_loc_SLQSLOCGetServer, 1671
unpack_loc_SLQSLOCGetServer_t, 1658
unpack_loc_SLQSLOCInjectPosition, 1671
unpack_loc_SLQSLOCInjectPosition_t, 1658
unpack_loc_SLQSLOCInjectSensorData, 1672
unpack_loc_SLQSLOCInjectSensorData_t, 1658
unpack_loc_SLQSLOCInjectUTCTime, 1672
unpack_loc_SLQSLOCInjectUTCTime_t, 1658
unpack_loc_SLQSLOCSetCradleMountConfig, 1672
unpack_loc_SLQSLOCSetCradleMountConfig_t, 1658
unpack_loc_SLQSLOCSetServer, 1673
unpack_loc_SensorStreamingCallback_Ind, 1669
unpack_loc_SetExtPowerConfig_Ind, 1669
unpack_loc_SetExtPowerState, 1669
unpack_loc_SetOperationMode, 1670
unpack_loc_SetOperationMode_Ind, 1670
unpack_loc_SetServer_Ind, 1670
unpack_loc_Start, 1673
unpack_loc_Stop, 1673
loc_BdsSV, 391
id, 392
mask, 392
loc_BdsSVInfo, 392
len, 392
pSV, 392
loc_CellDb, 392
mask, 393
loc_ClkInfo, 393
mask, 394
loc_GnssData, 394
mask, 395
loc_IPv4Config, 398
IPv4Addr, 398
IPv4Port, 398
loc_IPv4Info, 398
address, 399
port, 399
TlvPresent, 399
loc_IPv6Config, 399
IPv6Addr, 399
IPv6Port, 399
loc_IPv6Info, 399
address, 400
port, 400
TlvPresent, 400
loc_LocApplicationInfo, 400
appNameLength, 401
appProviderLength, 401
appVersionLength, 401
appVersionValid, 401
pAppName, 401
pAppProvider, 401
pAppVersion, 401
loc_SV, 405
id, 406
mask, 406
system, 406
loc_SVInfo, 406
len, 406
pSV, 406
loc_URLAddrInfo, 407
urlAddr, 408
loc_accelAcceptReady, 390
batchPerSec, 390
injectEnable, 390
samplesPerBatch, 391
loc_accelTempAcceptReady, 391
batchPerSec, 391
injectEnable, 391
samplesPerBatch, 391
loc_gpsTime, 396
gpsTimeOfWeekMs, 396
gpsWeek, 396
loc_gyroAcceptReady, 396
batchPerSec, 397
injectEnable, 397
samplesPerBatch, 397
loc_gyroTempAcceptReady, 397
batchPerSec, 398
injectEnable, 398
samplesPerBatch, 398
loc_precisionDilution, 401
HDOP, 402
PDOP, 402
VDOP, 402
loc_satelliteInfo, 402
azimuth, 404
elevation, 404
gnssSvId, 404
healthStatus, 404
snr, 404
svInfoMask, 404
svListLen, 404
svStatus, 404
system, 404
validMask, 404
loc_sensorDataUsage, 404
aidingIndicatorMask, 405
usageMask, 405

loc_svUsedforFix, 406
gnssSvUsedList, 407
gnssSvUsedList_len, 407
loc_urlAddr, 407
address, 407
TlvPresent, 407
LocApplicationInfo, 408
appNameLength, 409
appProviderLength, 409
appVersionLength, 409
appVersionValid, 409
pAppName, 409
pAppProvider, 409
pAppVersion, 409
LocDelAssDataReq, 409
pBdsSVInfo, 410
pCellDb, 410
pClkInfo, 410
pGnssData, 410
pSVInfo, 410
LocGetServerReq, 412
pServerAddrTypeMask, 413
serverType, 413
LocInjectPositionReq, 413
pAltitudeSrcInfo, 416
pAltitudeWrtEllipsoid, 416
pAltitudeWrtMeanSeaLevel, 416
pHorConfidence, 416
pHorReliability, 417
pHorUncCircular, 417
pLatitude, 417
pLongitude, 417
pPositionSrc, 417
pRawHorConfidence, 417
pRawHorUncCircular, 417
pTimestampAge, 417
pTimestampUtc, 417
pVertConfidence, 417
pVertReliability, 417
pVertUnc, 417
LocInjectSensorDataReq, 417
pAcceleroData, 418
pAcceleroTempData, 418
pAcceleroTimeSrc, 418
pGyroData, 418
pGyroTempData, 418
pGyroTimeSrc, 418
pOpaqueIdentifier, 418
LocSetCradleMountReq, 418
pConfidence, 419
state, 419
LocSetServerReq, 419
pIPv4Config, 420
pIPv6Config, 420
pURLAddr, 420
serverType, 420
localTimeOffset
nas_qaQmi3Gpp2TimeZone, 546
qaQmi3Gpp2TimeZone, 855
Location Service(LOC), 61
logString
unpack_dms_SLQSSwiGetFwUpdateStatus_t, 1175
logger
common.h, 1588
longName
nas_PLMNNetworkNameData, 543
nasPLMNNameResp, 622
PLMNNetworkNameData, 831
unpack_nas_SLQSGetPLMNName_t, 1238
longNameCI
nasPLMNNameResp, 622
unpack_nas_SLQSGetPLMNName_t, 1238
longNameEn
nasPLMNNameResp, 622
unpack_nas_SLQSGetPLMNName_t, 1238
longNameLen
nas_PLMNNetworkNameData, 543
nasPLMNNameResp, 622
PLMNNetworkNameData, 831
unpack_nas_SLQSGetPLMNName_t, 1238
longNameSB
nasPLMNNameResp, 622
unpack_nas_SLQSGetPLMNName_t, 1238
longNameSpareBits
nas_PLMNNetworkNameData, 543
PLMNNetworkNameData, 831
Longitude
GPSStateInfo, 314
unpack_pds_SLQSGetGPSStateInfo_t, 1290
longitude
pack_loc_SLQSLOCInjectPosition_t, 686
loopbackMode
pack_wds_SLQSSSetLoopback_t, 808
loopbackMultiplier
pack_wds_SLQSSSetLoopback_t, 808
LpmFlag
unpack_dms_SLQSDmsSwiGetPCInfo_t, 1163
LteBandCapability
unpack_dms_SLQSGetBandCapability_t, 1169
LteCQIParm, 422
CQIValueCW0, 423
CQIValueCW1, 423
ValidityCW0, 423
ValidityCW1, 423
lteEARFCN, 423
earfcn0, 423
earfcn1, 423
status, 423
lteEmmDl
NasSwiIndReg, 631
pack_nas_SLQSNasSwiIndicationRegister_t, 709
lteEmmUl
NasSwiIndReg, 631
pack_nas_SLQSNasSwiIndicationRegister_t, 709
lteEsmDl

NasSwiIndReg, 631
pack_nas_SLQSNasSwiIndicationRegister_t, 709
lteEsmUl
NasSwiIndReg, 631
pack_nas_SLQSNasSwiIndicationRegister_t, 709
LteGsmCellInfo
LTEInfoNeighboringGSM, 430
nas_LTEInfoNeighboringGSM, 508
lteGsmCellInfo, 423
cellReselPriority, 424
cells_len, 424
GsmCellInfo, 424
nccPermitted, 424
threshGsmHigh, 424
threshGsmLow, 425
lteM1BandPref
LteM1BandPrefTlv, 432
nas_LteM1BandPrefTlv, 510
LteM1BandPrefTlv, 431
lteM1BandPref, 432
TlvPresent, 433
LteNasReleaseInfo
qaGobiApiCbk.h, 1768
LteNasReleaseInfo_s, 433
nas_major, 433
nas_minor, 433
nas_release, 433
lteNb1BandPref
LteNb1BandPrefTlv, 435
nas_LteNb1BandPrefTlv, 512
LteNb1BandPrefTlv, 433
lteNb1BandPref, 435
TlvPresent, 435
ltePCI, 435
earfcn, 436
pci, 436
status, 436
LteQci
unpack_qos_swiQosFlow_t, 1309
lteRsrpDelta
nas_SLQSSignalStrengthsIndReq, 570
SLQSSignalStrengthsIndReq, 984
lteRsrpinfo
nas_SLQSSignalStrengthsInformation, 570
SLQSSignalStrengthsInformation, 986
lteRsrpinformation, 436
rsrplevel, 436
lteSSInfo, 443
rsrp, 443
rsrq, 443
rssi, 443
snr, 443
LteSccRxInfoResp, 438
pSccRxInfo, 438
lteSnrDelta
nas_SLQSSignalStrengthsIndReq, 570
SLQSSignalStrengthsIndReq, 984
lteSnrinfo
nas_SLQSSignalStrengthsInformation, 571
SLQSSignalStrengthsInformation, 986
lteSnrinformation, 440
snrlevel, 440
lteWcdmaCellInfo, 446
cellReselPriority, 447
cellsLen, 447
threshXhigh, 447
threshXlow, 447
uarfcn, 447
WCDMACellInfo, 447
ltersrp
slqsSignalStrengthInfo, 982
unpack_nas_SLQSGetSignalStrength_t, 1245
ltesnr
slqsSignalStrengthInfo, 982
unpack_nas_SLQSGetSignalStrength_t, 1245

m_FwBuildId
CarrierImage_t, 167
SWI_STRUCT_CarrierImage, 1026
m_FwImageId
CarrierImage_t, 167
SWI_STRUCT_CarrierImage, 1026
m_PriBuildId
CarrierImage_t, 167
SWI_STRUCT_CarrierImage, 1026
m_PriImageId
CarrierImage_t, 167
SWI_STRUCT_CarrierImage, 1027
m_nCarrierId
CarrierImage_t, 167
SWI_STRUCT_CarrierImage, 1026
m_nFolderId
CarrierImage_t, 167
SWI_STRUCT_CarrierImage, 1026
m_nStorage
CarrierImage_t, 167
SWI_STRUCT_CarrierImage, 1026
MACIndex
nas_NetworkStatEVDO, 530
NetworkStatEVDO, 642
MAX_BUILD_ID_LEN
dms.h, 1599
MAX_CALL_NO_LEN
qaGobiApiVoice.h, 2121
MAX_CONTENT_LENGTH
qaGobiApiUim.h, 2108
MAX_CUST_ID_LEN
qaGobiApiDms.h, 1855
MAX_FSN_LENGTH
qaGobiApiDms.h, 1855
MAX_ICCID_LENGTH
qaGobiApiUim.h, 2108
uim.h, 2246
MAX_MSE_TWS_MSG
sms.h, 2209
MAX_NMEA_STR_LEN
qaGobiApiCbk.h, 1765

MAX_NO_OF_CALLS
qaGobiApiCbk.h, 1765
qaGobiApiVoice.h, 2121
MAX_NO_OF_FILES
qaGobiApiCbk.h, 1765
MAX_NO_OF_SLOTS
qaGobiApiCbk.h, 1765
qaGobiApiUim.h, 2108
uim.h, 2246
MAX_NO_OF_UUSINFO
qaGobiApiCbk.h, 1765
MAX_PATH_LENGTH
qaGobiApiCbk.h, 1765
qaGobiApiUim.h, 2108
MAX_PILOT_SETS
qaGobiApiNas.h, 1935
MAX_PUK_LENGTH
qaGobiApiUim.h, 2108
MAX_SENSOR_DATA_LEN
loc.h, 1658
MAX_SLOTS_STATUS
qaGobiApiUim.h, 2108
uim.h, 2246
MAX_SMS_LIST_SIZE
sms.h, 2209
MAX_SMS_ROUTES
qaGobiApiSms.h, 2011
MAX_TEMP_DATA_LEN
loc.h, 1658
qaGobiApiLoc.h, 1923
MAXUSSDLENGTH
qaGobiApiCbk.h, 1765
qaGobiApiVoice.h, 2121
MAXVOICEUSSDLENGTH
voice.h, 2267
MCC
SlqsNas3GppNetworkRAT, 94
CDMASysInfo, 187
CDMASysInfoExt, 188
currentPLMN, 214
GSMSysInfo, 321
LTESysInfo, 445
nas_CDMASysInfo, 466
nas_CDMASysInfoExt, 467
nas_currentPLMN, 474
nas_GSMSysInfo, 490
nas_LTESysInfo, 521
nas_QmiNas3GppNetworkInfo, 547
nas_QmiNas3GppNetworkRAT, 548
nas_QmisNasPcsDigit, 549
nas_WCDMASysInfo, 591
SlqsNas3GppNetworkInfo, 975
SlqsNasPcsDigit, 976
unpack_nas_GetServingNetwork_t, 1227
WCDMASysInfo, 1544
MDMCallDuration
ConnectionStatus, 201
connectionStatus, 201
MDMConnStatus
ConnectionStatus, 201
connectionStatus, 202
wds_ConnStatusTlv, 1546
MEID_MAX_SIZE
dms.h, 1599
MEIDString
unpack_dms_GetDeviceSerialNumbers_t, 1142
MIN
unpack_dms_GetVoiceNumber_t, 1156
MINREQBKLEN
common.h, 1587
MMTlv
unpack_sms_SetNewSMSCallback_ind_t, 1317
MNC
SlqsNas3GppNetworkRAT, 94
CDMASysInfo, 187
currentPLMN, 214
GSMSysInfo, 321
LTESysInfo, 446
nas_CDMASysInfo, 466
nas_currentPLMN, 474
nas_GSMSysInfo, 490
nas_LTESysInfo, 521
nas_QmiNas3GppNetworkInfo, 547
nas_QmiNas3GppNetworkRAT, 548
nas_QmisNasPcsDigit, 549
nas_WCDMASysInfo, 591
SlqsNas3GppNetworkInfo, 975
SlqsNasPcsDigit, 976
unpack_nas_GetServingNetwork_t, 1227
WCDMASysInfo, 1544
MNRInfo, 450
mcc, 450
mnc, 450
rat, 450
MPTlv
NASQmiCbkNasSystemSelPrefInd, 625
MSGID_AND_LEN
common.h, 1587
MSGID_DONT_CARE
common.h, 1587
MTMessageInfo
newMTMessageTlv, 643
MTUSize
MTUSizeReq, 453
pack_swidms_SLQSSwiDmsSetMTU_t, 752
MTUSize3gpp
mtuSize3gppTlv, 452
swidms_mtuSize3gppTlv, 1028
MTUSizeReq, 453
MTUSize, 453
manString
pack_dms_SLQSSwiSetHostDevInfo_t, 668
unpack_dms_SLQSSwiGetHostDevInfo_t, 1176
manufacturer
unpack_dms_GetManufacturer_t, 1148
Mask

getDUNCallInfoReq, 288
pack_wds_SLQSGetDUNCallInfo_t, 801
mask
BdsSV, 150
CellDb, 188
ClkInfo, 196
GnssData, 308
IPv6TrafCls, 359
loc_BdsSV, 392
loc_CellDb, 393
loc_ClkInfo, 394
loc_GnssData, 395
loc_SV, 406
SV, 1024
Tos, 1067
unpack_qos_IPv6TrafCls_t, 1293
unpack_qos_Tos_t, 1311
max
_SLQSAVMSSettingsPeriodsInfo, 93
max_channel_rx_rate
unpack_wds_SLQSGetCurrentChannelRate_t, 1409
WDSSWICurrentChannelRates, 1584
max_channel_tx_rate
unpack_wds_SLQSGetCurrentChannelRate_t, 1409
WDSSWICurrentChannelRates, 1584
max_dist
pack_swiloc_SwiLocSetAutoStart_t, 754
SwiLocGetAutoStartResp, 1031
SwiLocSetAutoStartReq, 1033
unpack_swiloc_SwiLocGetAutoStart_t, 1330
max_dist_reported
SwiLocGetAutoStartResp, 1031
unpack_swiloc_SwiLocGetAutoStart_t, 1330
max_time
pack_swiloc_SwiLocSetAutoStart_t, 754
SwiLocGetAutoStartResp, 1031
SwiLocSetAutoStartReq, 1033
unpack_swiloc_SwiLocGetAutoStart_t, 1330
max_time_reported
SwiLocGetAutoStartResp, 1031
unpack_swiloc_SwiLocGetAutoStart_t, 1330
MaxAllowedPktSz
unpack_qos_swiQosFlow_t, 1309
MaxChanRxRate
ChannelRate, 191
dunchannelRate, 258
MaxChanTxRate
ChannelRate, 191
dunchannelRate, 258
maxChannelRXRate
unpack_wds_GetConnectionRate_t, 1391
maxChannelTXRate
unpack_wds_GetConnectionRate_t, 1391
maxDlBitRate
LibPackQosClassID, 384
QosClassID, 896
maxDownlinkBitrate
LibPackUMTSQoS, 388
UMTSMinQoS, 1126
UMTSQoS, 1128
wds_UMTSMinQoS, 1566
maxImages
FMSImageIDEntries, 273
ImageIDEntries, 336
maxMitigationLevel
mitigationDevList, 449
MaxRXChannelRate
unpack_dms_GetDeviceCap_t, 1138
maxRxChannelRate
unpack_dms_GetDeviceCapabilities_t, 1140
maxSDUSize
LibPackUMTSQoS, 388
UMTSMinQoS, 1126
UMTSQoS, 1128
wds_UMTSMinQoS, 1566
maxStorageSize
sms_maxStorageSizeResp, 993
smsMaxStorageSizeResp, 1009
MaxTXChannelRate
unpack_dms_GetDeviceCap_t, 1138
maxTxChannelRate
unpack_dms_GetDeviceCapabilities_t, 1140
maxUlBitRate
LibPackQosClassID, 384
QosClassID, 896
maxUplinkBitrate
LibPackUMTSQoS, 388
UMTSMinQoS, 1126
UMTSQoS, 1128
wds_UMTSMinQoS, 1566
mcTimeStamp
cdmaMsgDecodingParams, 176
cdmaMsgDecodingParamsExt, 179
mcc
CSGID, 209
MNRInfo, 450
nas_CSGID, 473
nas_MNRInfo, 524
nas_netSelectionPref, 526
nas_OperatorPLMNData, 534
nasPLMNNameReq, 620
netSelectionPref, 636
OperatorPLMNData, 656
pack_nas_SLQSGetPLMNName_t, 698
PlmnID, 829
unpack_nas_GetHomeNetwork_t, 1223
mccM
minBasedIMSI, 449
nas_minBasedIMSI, 523
mccT
nas_trueIMSI, 580
trueIMSI, 1070
mdmCallDurationActive
unpack_wds_SLQSGetDUNCallInfo_t, 1413

MdmConnStatus
DUNCallInfoInd, 257
meanThroughputClass
GPRSQoS, 310
GPRSRequestedQoS, 311
LibPackGPRSRequestedQoS, 360
wds_GPRSQoS, 1557
meid
unpack_dms_GetSerialNumbers_t, 1153
meidLength
_SLQSSwiGetSerialNoExtParams, 104
meidSize
serialNumbersInfo, 934
unpack_dms_GetDeviceSerialNumbers_t, 1142
meidString
unpack_dms_SLQSSwiGetSerialNoExt_t, 1178
message
unpack_sms_SLQSGetSMS_t, 1319
message_type
NASOTAMessageTlv, 616
messageClass
sms_routeEntry, 996
smsRouteEntry, 1014
messageFailureCode
slqssendsmsparams_s, 979
unpack_sms_SendSMS_t, 1315
messageFormat
pack_sms_SaveSMS_t, 743
pack_sms_SendSMS_t, 743
slqssendasyncsmsparams_s, 978
slqssendsmsparams_s, 979
sms_sendAsyncsmsParams, 998
unpack_sms_SLQSGetSMS_t, 1319
messageID
slqssendsmsparams_s, 979
SMSAsyncRawSend_s, 1002
unpack_sms_SendSMS_t, 1316
unpack_sms_SLQSWmsAsyncRawSendCallBack_ind_t, 1325
messageId
cdmaMsgEncodingParams, 182
messageIndex
pack_sms_SLQSGetSMS_t, 746
pack_sms_SLQSModifySMSStatus_t, 748
qmiSmsMessageList, 888
SMSMTMessage, 1011
sMSMTMessageInfo, 1012
messageLength
cdmaMsgDecodingParams, 176
cdmaMsgDecodingParamsExt, 179
messageList
unpack_sms_SLQSGetSMSList_t, 1320
messageListSize
unpack_sms_SLQSGetSMSList_t, 1320
messageMode
SMSMemoryInfo, 1010
SMSMessageMode, 1010
sMSMessageModeInfo, 1010
unpack_sms_SLQSWmsMemoryFullCallBack_ind_t, 1326
MessageModeInfo
messageModeTlv, 447
messageModeTlv, 447
MessageModeInfo, 447
TlvPresent, 447
messageSize
pack_sms_SaveSMS_t, 743
pack_sms_SendSMS_t, 743
slqssendasyncsmsparams_s, 978
slqssendsmsparams_s, 979
sms_sendAsyncsmsParams, 998
unpack_sms_SLQSGetSMS_t, 1319
wcdmaMsgEncodingParams, 1540
messageTag
pack_sms_SLQSModifySMSStatus_t, 748
qmiSmsMessageList, 888
unpack_sms_SLQSGetSMS_t, 1319
messageType
sms_routeEntry, 996
smsRouteEntry, 1014
messageWaitingInfoContent, 447
activeInd, 448
msgCount, 448
msgType, 448
MicMute
GetAudioProfileResp, 283
GetM2MAudioProfileResp, 300
GetM2MAVMuteResp, 302
SetAudioProfileReq, 943
SetM2MAVMuteReq, 954
min
_SLQSAVMSSettingsPeriodsInfo, 93
minBasedIMSI, 448
imsiM1112, 449
imsiMS1, 449
imsiMS2, 449
mccM, 449
MinPolicedPktSz
unpack_qos_swiQosFlow_t, 1309
minSize
unpack_dms_GetVoiceNumber_t, 1156
minute
nas_timeInfo, 579
nas_UniversalTime, 585
timeInfo, 1063
UniversalTime, 1131
mipMode
unpack_wds_GetMobileIP_t, 1396
mipStatus
unpack_wds_SLQSSetWdsEventCallback_ind_t, 1420
mipstatAvail
unpack_wds_SLQSSetWdsEventCallback_ind_t, 1420
mitigationDevID
TmdDeRegNotMitigationLvlReq, 1063

TmdGetMitigationLvlReq, 1064
TmdMitigationLvlIndReq, 1066
TmdRegNotMitigationLvlReq, 1066
mitigationDevIDLen
TmdDeRegNotMitigationLvlReq, 1063
TmdGetMitigationLvlReq, 1064
TmdMitigationLvlIndReq, 1066
TmdRegNotMitigationLvlReq, 1066
mitigationDevId
mitigationDevList, 450
mitigationDevIdLen
mitigationDevList, 450
MitigationDevInfo
QmiCbkTmdMitiLvlRptInd, 884
mitigationDevList, 449
maxMitigationLevel, 449
mitigationDevId, 450
mitigationDevIdLen, 450
mnc
CSGID, 209
MNRInfo, 450
nas_CSGID, 473
nas_MNRInfo, 524
nas_netSelectionPref, 526
nas_OperatorPLMNData, 534
nasPLMNNameReq, 620
netSelectionPref, 636
OperatorPLMNData, 656
pack_nas_SLQSGetPLMNName_t, 698
PlmnID, 829
unpack_nas_GetHomeNetwork_t, 1223
mncPcsDigits
CSGID, 209
nas_CSGID, 473
mobileCountryCode
SMSEtwsPlmn, 1006
sMSEtwsPlmnInfo, 1007
mobileIP
pack_wds_SLQSSetWdsEventCallback_t, 807
mobileNetworkCode
SMSEtwsPlmn, 1006
sMSEtwsPlmnInfo, 1007
mode
callInfo, 163
pack_dms_SetEventReport_t, 662
pack_dms_SetPower_t, 664
pack_loc_SetOperationMode_t, 680
pack_sms_SLQSGetSmsBroadcastConfig_t, 746
pack_sms_SLQSSetSmsBroadcastActivation_t, 749
pack_sms_SLQSSetSmsBroadcastConfig_t, 750
pack_wds_SetMobileIP_t, 795
QmiCbkLocOpModeInd, 874
uim_refreshevent, 1091
UIMRefreshEvent, 1111
voice_callInfo, 1455
ModePref
nas_ModePrefTlv, 524
NASModePreferenceTlv, 610
modelString
pack_dms_SLQSSwiSetHostDevInfo_t, 668
unpack_dms_SLQSSwiGetHostDevInfo_t, 1176
modelid
unpack_dms_GetModelID_t, 1149
modelid_str
slqsfwinfo_s, 974
unpack_dms_GetFirmwareInfo_t, 1144
modemMode
CommInfo, 200
nas_CommInfo, 472
modemTempNotification
qaGobiApiCbk.h, 1769
ModemTempState
_modemTempNotification, 72
ModemTemperature
_modemTempNotification, 72
modemindex
pack_fms_SetImagesPreference_t, 676
ModifyProfileIn, 450
curProfile, 451
pProfileID, 451
pProfileType, 451
ModifyProfileOut, 451
pExtErrorCode, 451
month
nas_timeInfo, 579
nas_UniversalTime, 585
timeInfo, 1063
UniversalTime, 1131
msgCount
messageWaitingInfoContent, 448
sms_messageWaitingInfoContent, 993
msgDelFailureCause
SMSAsyncRawSend_s, 1002
unpack_sms_SLQSWmsAsyncRawSendCallBack_ind_t, 1325
msgDelFailureType
SMSAsyncRawSend_s, 1002
unpack_sms_SLQSWmsAsyncRawSendCallBack_ind_t, 1325
msgProtocol
sms_msgProtocolResp, 994
smsMsgprotocolResp, 1011
msgType
messageWaitingInfoContent, 448
sms_messageWaitingInfoContent, 993
msgWaitInfo
getMsgWaitingInfo, 304
msgWaitingInfo, 452
sms_getMsgWaitingInfo, 990
unpack_sms_SLQSWmsMessageWaitingCallBack_ind_t, 1327
msgWaitingInfo, 451
msgWaitInfo, 452
numInstances, 452
msgid

pack_qmi_t, 739
unpack_qmi_t, 1291
msgtype
common.h, 1589
Mtu
unpack_wds_SLQSGetRuntimeSettings_t, 1416
mtuSize3gppTlv, 452
MTUSize3gpp, 452
TlvPresent, 452
MultDisc
nas_protocolSubtypeElement, 545
protocolSubtypeElement, 850
multiplier
pktErrRate, 828
unpack_qos_pktErrRate_t, 1293
MuxID
qos_BindDataPortMuxID_t, 894

NAI
unpack_wds_GetMobileIPProfile_t, 1398
NAM_NAME_LENGTH
qaGobiApiNas.h, 1935
NAS_NAM_NAME_LENGTH
nas.h, 1683
NAS_PLMN_LENGTH
nas.h, 1683
NAS_SRV
qaGobiApiCbk.h, 1765
NASBandPreferenceTlv, 592
band_pref, 592
TlvPresent, 592
NASEmergencyModeTlv, 594
EmerMode, 594
TlvPresent, 594
NASGWAcqOrderPrefTlv, 604
GWAcqOrderPref, 604
TlvPresent, 604
NASLTEBandPreferenceTlv, 608
LTEBandPref, 609
TlvPresent, 609
NASLteNasReleaseInfoTlv, 609
nas_major, 609
nas_minor, 609
nas_release, 609
TlvPresent, 610
NASModePreferenceTlv, 610
ModePref, 610
TlvPresent, 610
NASNetSelPreferenceTlv, 610
NetSelPref, 610
TlvPresent, 610
NASOTAMessageTlv, 615
data_buf, 616
data_len, 616
message_type, 616
TlvPresent, 616
NASPRLPreferenceTlv, 623
PRLPref, 623
TlvPresent, 623
NASPhyCaAggPcellInfo, 616
dl_bw_value, 616
freq, 616
iLTEbandValue, 616
pci, 616
TlvPresent, 617
NASPhyCaAggScellDlBw, 617
dl_bw_value, 617
TlvPresent, 617
NASPhyCaAggScellIndType, 618
freq, 618
pci, 618
scell_state, 618
TlvPresent, 618
NASPhyCaAggScellIndex, 617
scell_idx, 617
TlvPresent, 618
NASPhyCaAggScellInfo, 618
dl_bw_value, 619
freq, 619
iLTEbandValue, 619
pci, 619
scell_state, 619
TlvPresent, 619
NASQmiCbkNasSwiOTAMessageInd, 623
nasRelInfoTlv, 623
otaMsgTlv, 624
timeTlv, 624
NASQmiCbkNasSystemSelPrefInd, 624
BPTlv, 625
EMTlv, 625
GWAOPTlv, 625
LBPTlv, 625
MPTlv, 625
NSPTlv, 625
PRLPTlv, 625
RPTlv, 625
SDPTlv, 625
NASRoamPreferenceTlv, 625
RoamPref, 625
TlvPresent, 625
NASServDomainPrefTlv, 625
SrvDomainPref, 626
TlvPresent, 626
NASServingSystemInfo, 626
csAttachState, 627
hdrPersonality, 627
psAttachState, 627
radioInterfaceList, 627
radioInterfaceNo, 627
registrationState, 627
selectedNetwork, 627
NASTimeInfoTlv, 635
time, 635
TlvPresent, 635
NMEAData
unpack_loc_EventNMEA_Ind_t, 1198
NR5gBandPrefTlv, 645

bits_129_192, 646
bits_193_256, 646
bits_1_64, 646
bits_65_128, 646
TlvPresent, 646
NSPTlv
NASQmiCbkNasSystemSelPrefInd, 625
NSSAudioCtrl, 646
downLink, 646
upLink, 646
NUM_OF_SET
qaGobiApiCbk.h, 1765
qaGobiApiSms.h, 2011
nUsbNetNum
pack_swidms_SLQSSwiDmsSetUsbNetNum_t, 752
NWProfile, 647
pProfSz, 647
pProfValues, 647
tech, 647
NWQoSStatus
unpack_qos_SLQSQosGetNetworkStatus_t, 1297
NWRegStat
_transNWRegInfoNotification, 121
unpack_sms_SLQSNWRegInfoCallback_ind_t, 1322
naiSize
unpack_wds_GetMobileIPProfile_t, 1398
namID
airTimer, 127
nasGet3GPP2SubscriptionInfoReq, 594
pack_nas_SLQSNasGet3GPP2Subscription_t, 704
prefVoiceSO, 837
roamTimer, 916
voice_airTimer, 1435
voice_prefVoiceSO, 1476
voice_roamTimer, 1480
namName, 453
namName, 453
namNameLen, 453
namName, 453
nas_namName, 525
namNameLen
namName, 453
nas_namName, 525
Name
unpack_nas_GetServingNetwork_t, 1227
name
unpack_nas_GetHomeNetwork_t, 1223
unpack_wds_GetDefaultProfile_t, 1394
nameLen
remotePartyName, 906
voice_remotePartyName, 1478
namePI
remotePartyName, 906
voice_remotePartyName, 1478
nameSize
unpack_nas_GetHomeNetwork3GPP2_t, 1221
unpack_nas_GetServingNetwork_t, 1227
nameString
pack_dms_SLQSSwiSetOSInfo_t, 669
unpack_dms_SLQSSwiGetOSInfo_t, 1177
namelength
omaDmFotaTlv, 652
omaDmFotaTlvExt, 654
unpack_omaDmFotaTlv_t, 1278
namesize
unpack_wds_GetDefaultProfile_t, 1394
nas.h
eLITEQMI_NAS_LTE_CPHY_CA_BW_NRB_100, 1683
eLITEQMI_NAS_LTE_CPHY_CA_BW_NRB_15, 1683
eLITEQMI_NAS_LTE_CPHY_CA_BW_NRB_25, 1683
eLITEQMI_NAS_LTE_CPHY_CA_BW_NRB_50, 1683
eLITEQMI_NAS_LTE_CPHY_CA_BW_NRB_6, 1683
eLITEQMI_NAS_LTE_CPHY_CA_BW_NRB_75, 1683
eLITEQMI_NAS_LTE_CPHY_SCELL_STATE_CONFIGURED_ACTIVATED, 1683
eLITEQMI_NAS_LTE_CPHY_SCELL_STATE_CONFIGURED_DEACTIVATED, 1683
eLITEQMI_NAS_LTE_CPHY_SCELL_STATE_DECONFIGURED, 1683
eNAS_LTE_CPHY_CA_BW_NRB_LITE_100, 1683
eNAS_LTE_CPHY_CA_BW_NRB_LITE_15, 1683
eNAS_LTE_CPHY_CA_BW_NRB_LITE_25, 1683
eNAS_LTE_CPHY_CA_BW_NRB_LITE_50, 1683
eNAS_LTE_CPHY_CA_BW_NRB_LITE_6, 1683
eNAS_LTE_CPHY_CA_BW_NRB_LITE_75, 1683
eNAS_LTE_CPHY_SCELL_STATE_CONFIGURED_ACTIVATED_LITE, 1684
eNAS_LTE_CPHY_SCELL_STATE_CONFIGURED_DEACTIVATED_LITE, 1684
eNAS_LTE_CPHY_SCELL_STATE_DECONFIGURED_LITE, 1684
nas.h, 1674
NAS_PLMN_LENGTH, 1683
pack_nas_GetACCOLC, 1684
pack_nas_GetANAAAAuthenticationStatus, 1684
pack_nas_GetCDMANetworkParameters, 1684
pack_nas_GetHomeNetwork, 1685
pack_nas_GetHomeNetwork3GPP2, 1685
pack_nas_GetNetworkPreference, 1685
pack_nas_GetRFInfo, 1685
pack_nas_GetServingNetwork, 1686
pack_nas_GetServingNetworkCapabilities, 1686
pack_nas_GetSignalStrengths, 1686
pack_nas_InitiateDomainAttach, 1687
pack_nas_PerformNetworkScan, 1687
pack_nas_SLQSConfigSigInfo, 1689

pack_nas_SLQSGetErrorRate, 1690
pack_nas_SLQSGetNetworkTime, 1690
pack_nas_SLQSGetOperatorNameData, 1690
pack_nas_SLQSGetPLMNName, 1691
pack_nas_SLQSGetServingSystem, 1691
pack_nas_SLQSGetSignalStrength, 1691
pack_nas_SLQSGetSysInfo, 1692
pack_nas_SLQSGetSysSelectionPref, 1692
pack_nas_SLQSGetSysSelectionPrefExt, 1693
pack_nas_SLQSInitiateNetworkRegistration, 1693
pack_nas_SLQSNASGeteDRXParams, 1694
pack_nas_SLQSNASSeteDRXParams, 1696
pack_nas_SLQSNASSwiGetChannelLock, 1697
pack_nas_SLQSNASSwiSetChannelLock, 1698
pack_nas_SLQSNasConfigSigInfo2, 1693
pack_nas_SLQSNasGet3GPP2Subscription, 1694
pack_nas_SLQSNasGetCellLocationInfo, 1694
pack_nas_SLQSNasGetHDRColorCode, 1695
pack_nas_SLQSNasGetRFInfo, 1695
pack_nas_SLQSNasGetSigInfo, 1695
pack_nas_SLQSNasGetTxRxInfo, 1696
pack_nas_SLQSNasIndicationRegisterExt, 1696
pack_nas_SLQSNasSwiIndicationRegister, 1697
pack_nas_SLQSNasSwiModemStatus, 1698
pack_nas_SLQSSetBandPreference, 1698
pack_nas_SLQSSetSignalStrengthsCallback, 1699
pack_nas_SLQSSetSysSelectionPref, 1699
pack_nas_SLQSSetSysSelectionPrefExt, 1699
pack_nas_SLQSSwiGetHDRPersonality, 1700
pack_nas_SLQSSwiGetHDRProtSubtype, 1700
pack_nas_SLQSSwiGetHRPDStats, 1700
pack_nas_SLQSSwiGetLteCQI, 1701
pack_nas_SLQSSwiGetLteSccRxInfo, 1701
pack_nas_SLQSSwiNetworkDebug, 1701
pack_nas_SLQSSwiPSDetach, 1702
pack_nas_SetACCOLC, 1688
pack_nas_SetCDMANetworkParameters, 1688
pack_nas_SetLURejectCallback, 1688
pack_nas_SetNetworkPreference, 1689
pack_nas_SetRFInfoCallback, 1689
pack_nas_SlqsGetLTECphyCAInfo, 1690
unpack_nas_GetACCOLC, 1702
unpack_nas_GetANAAAAuthenticationStatus, 1702
unpack_nas_GetCDMANetworkParameters, 1703
unpack_nas_GetHomeNetwork, 1703
unpack_nas_GetHomeNetwork3GPP2, 1704
unpack_nas_GetNetworkPreference, 1704
unpack_nas_GetRFInfo, 1704
unpack_nas_GetServingNetwork, 1705
unpack_nas_GetServingNetworkCapabilities, 1705
unpack_nas_GetSignalStrengths, 1705
unpack_nas_InitiateDomainAttach, 1706
unpack_nas_PerformNetworkScan, 1706
unpack_nas_SLQSConfigSigInfo, 1710
unpack_nas_SLQSGetErrorRate, 1710
unpack_nas_SLQSGetNetworkTime, 1711
unpack_nas_SLQSGetOperatorNameData, 1711
unpack_nas_SLQSGetPLMNName, 1712
unpack_nas_SLQSGetServingSystem, 1712
unpack_nas_SLQSGetSignalStrength, 1712
unpack_nas_SLQSGetSysInfo, 1713
unpack_nas_SLQSGetSysSelectionPref, 1713
unpack_nas_SLQSGetSysSelectionPrefExt, 1713
unpack_nas_SLQSInitiateNetworkRegistration, 1714
unpack_nas_SLQSNASGeteDRXParams, 1715
unpack_nas_SLQSNASSeteDRXParams, 1718
unpack_nas_SLQSNASSwiGetChannelLock, 1718
unpack_nas_SLQSNASSwiSetChannelLock, 1720
unpack_nas_SLQSNasConfigSigInfo2, 1714
unpack_nas_SLQSNasGet3GPP2Subscription, 1714
unpack_nas_SLQSNasGetCellLocationInfo, 1715
unpack_nas_SLQSNasGetHDRColorCode, 1716
unpack_nas_SLQSNasGetRFInfo, 1716
unpack_nas_SLQSNasGetSigInfo, 1716
unpack_nas_SLQSNasGetTxRxInfo, 1717
unpack_nas_SLQSNasIndicationRegisterExt, 1717
unpack_nas_SLQSNasNetworkTimeCallBack_ind, 1717
unpack_nas_SLQSNasSigInfoCallback_ind, 1718
unpack_nas_SLQSNasSwiIndicationRegister, 1719
unpack_nas_SLQSNasSwiModemStatus, 1719
unpack_nas_SLQSNasSwiOTAMessageCallback-_ind, 1719
unpack_nas_SLQSNasSysInfoCallback_ind, 1720
unpack_nas_SLQSNasTimerCallback_ind, 1720
unpack_nas_SLQSSetBandPreference, 1721
unpack_nas_SLQSSetSignalStrengthsCallback, 1721
unpack_nas_SLQSSetSysSelectionPref, 1721
unpack_nas_SLQSSetSysSelectionPrefCallBack-_ind, 1722
unpack_nas_SLQSSetSysSelectionPrefExt, 1722
unpack_nas_SLQSSwiGetHDRPersonality, 1722
unpack_nas_SLQSSwiGetHDRProtSubtype, 1723
unpack_nas_SLQSSwiGetHRPDStats, 1723
unpack_nas_SLQSSwiGetLteCQI, 1723
unpack_nas_SLQSSwiGetLteSccRxInfo, 1724
unpack_nas_SLQSSwiHDRPersonalityCallback_-Ind, 1724
unpack_nas_SLQSSwiNetworkDebug, 1724
unpack_nas_SLQSSwiPSDetach, 1725
unpack_nas_SLQSSwiRandIndicatorCallback_Ind, 1725
unpack_nas_SetACCOLC, 1706
unpack_nas_SetCDMANetworkParameters, 1707
unpack_nas_SetDataCapabilitiesCallback_ind, 1707
unpack_nas_SetEventReportInd, 1707
unpack_nas_SetLURejectCallback, 1708

unpack_nas_SetNasLTECphyCaIndCallback_ind, 1708
unpack_nas_SetNetworkPreference, 1708
unpack_nas_SetRFInfoCallback, 1709
unpack_nas_SetRoamingIndicatorCallback_ind, 1709
unpack_nas_SetServingSystemCallback_ind, 1709
unpack_nas_SlqsGetLTECphyCAInfo, 1710
unpack_valid_nas_GetCDMANetworkParameters, 1725
unpack_valid_nas_SLQSGetServingSystem, 1726
unpack_valid_nas_SLQSGetSignalStrength, 1727
unpack_valid_nas_SLQSNasGetSigInfo, 1727
nas_AcqOrderPrefTlv, 454
acqOrdeLen, 455
pAcqOrder, 455
TlvPresent, 455
nas_ActPilotPNElement, 455
ActSetPilotPN, 455
ActSetPilotPNStrength, 455
nas_AddCDMASysInfo, 456
geoSysIdx, 456
regPrd, 456
nas_AddSysInfo, 456
cellBroadcastCap, 457
geoSysIdx, 457
nas_BandPrefTlv, 457
BandPref, 459
TlvPresent, 459
nas_CDMAChannel, 460
priChA, 461
priChB, 461
secChA, 461
secChB, 461
nas_CDMAECIOThresh, 461
CDMAECIOThreshListLen, 461
pCDMAECIOThreshList, 461
nas_CDMAInfo, 462
baseId, 462
baseLat, 462
baseLong, 462
nid, 462
refpn, 463
sid, 463
nas_CDMARSSIThresh, 463
CDMARSSIThreshListLen, 463
pCDMARSSIThreshList, 463
nas_CDMASysInfo, 463
baseId, 466
baseLat, 466
baseLong, 466
bsInfoValid, 466
bsPRev, 466
bsPRevValid, 466
ccsSupported, 466
ccsSupportedValid, 466
cdmaSysIdValid, 466
isSysPrlMatch, 466
isSysPrlMatchValid, 466
MCC, 466
MNC, 466
networkID, 466
networkIdValid, 466
pRevInUse, 467
pRevInUseValid, 467
packetZone, 467
packetZoneValid, 467
sysInfoCDMA, 467
systemID, 467
nas_CDMASysInfoExt, 467
imsi_11_12, 467
MCC, 467
nas_CSGID, 472
id, 473
mcc, 473
mnc, 473
mncPcsDigits, 473
rat, 473
nas_CallBarringSysInfo, 459
csBarStatus, 459
psBarStatus, 459
nas_CiotAcqOrderPrefTlv, 469
ciotAcqOrderLen, 470
pCiotAcqOrder, 470
TlvPresent, 470
nas_CiotLteOpModePrefTlv, 470
ciotLteOpModePref, 470
TlvPresent, 470
nas_CommInfo, 470
imsRegState, 472
modemMode, 472
psState, 472
systemMode, 472
temperature, 472
nas_DRCParams, 479
DRCCover, 480
DRCValue, 480
nas_DataStatusDetail, 475
IPAddress, 476
LastErrCode, 476
nas_DeviceConfigDetail, 478
Chipset, 479
HWVersion, 479
QLIC, 479
Technology, 479
nas_ECIOThresh, 481
ECIOThresListLen, 481
pECIOThresList, 481
nas_EmerModeTlv, 481
EmerMode, 482
TlvPresent, 482
nas_GERANInfo, 483
arfcn, 484
bsic, 484
cellID, 484

insNmrCellInfo, 484
lac, 484
nmrInst, 484
plmn, 484
rxLev, 484
timingAdvance, 484
nas_GSMRSSIThresh, 486
GSMRSSIThreshListLen, 487
pGSMRSSIThreshList, 487
nas_GSMSrvStatusInfo, 487
isPrefDataPath, 488
srvStatus, 488
trueSrvStatus, 488
nas_GSMSysInfo, 488
cellId, 490
cellIdValid, 490
dtmSupp, 490
dtmSuppValid, 490
egprsSupp, 490
egprsSuppValid, 490
lac, 490
lacValid, 490
MCC, 490
MNC, 490
networkIdValid, 490
regRejectInfoValid, 490
rejCause, 490
rejectSrvDomain, 491
sysInfoGSM, 491
nas_GWAcqOrderPrefTlv, 491
GWAcqOrderPref, 491
TlvPresent, 491
nas_HDRECIOThresh, 491
HDRECIOThreshListLen, 492
pHDRECIOThreshList, 492
nas_HDRIOThresh, 492
HDRIOThreshListLen, 492
pHDRIOThreshList, 492
nas_HDRPersonality_Ind_Data, 492
pCurrentPersonality, 493
pPersonalityListLength, 493
pProtocolSubtypeElement, 493
nas_HDRRSSIThresh, 493
HDRRSSIThreshListLen, 493
pHDRRSSIThreshList, 493
nas_HDRSINRThresh, 494
HDRSINRThresListLen, 494
pHDRSINRThresList, 494
nas_HDRSINRThreshold, 494
HDRSINRThreshListLen, 495
pHDRSINRThreshList, 495
nas_HDRSysInfo, 495
hdrActiveProt, 497
hdrActiveProtValid, 497
hdrPersonality, 497
hdrPersonalityValid, 497
is856SysId, 497
is856SysIdValid, 497
isSysPrlMatch, 497
isSysPrlMatchValid, 497
sysInfoHDR, 497
nas_IOThresh, 499
IOThresListLen, 499
pIOThresList, 499
nas_LTEBandPrefTlv, 499
LTEBandPref, 500
TlvPresent, 501
nas_LTEInfo, 502
band, 504
bandwidth, 504
emmConnState, 504
emmState, 504
emmSubState, 504
RXChan, 504
TXChan, 504
nas_LTEInfoInterfreq, 505
freqsLen, 505
InfoInterfreq, 505
ueInIdle, 505
nas_LTEInfoIntrafreq, 505
CellParams, 507
cellReselPriority, 507
cellsLen, 507
earfcn, 507
globalCellId, 507
plmn, 507
sIntraSearch, 507
sNonIntraSearch, 507
servingCellId, 507
tac, 507
threshServingLow, 507
ueInIdle, 507
nas_LTEInfoNeighboringGSM, 507
freqsLen, 508
LteGsmCellInfo, 508
ueInIdle, 508
nas_LTEInfoNeighboringWCDMA, 508
freqsLen, 509
ueInIdle, 509
nas_LTEOperationMode, 513
pLTEOperationMode, 513
TlvPresent, 513
nas_LTERSRPThresh, 514
LTERSRPThreshListLen, 514
pLTERSRPThreshList, 515
nas_LTERSRQThresh, 515
LTERSRQThreshListLen, 515
pLTERSRQThreshList, 515
nas_LTERSSIThresh, 515
LTERSSIThreshListLen, 516
pLTERSSIThreshList, 516
nas_LTESNRThresh, 518
LTESNRThresListLen, 518
pLTESNRThresList, 518
nas_LTESNRThreshold, 518
LTESNRThreshListLen, 519

pLTESNRThreshList, 519
nas_LTESigRptCfg, 516
avgPeriod, 516
rptRate, 516
nas_LTESigRptConfig, 517
avgPeriod, 517
rptRate, 517
nas_LTESysInfo, 519
cellId, 521
cellIdValid, 521
lac, 521
lacValid, 521
MCC, 521
MNC, 521
networkIdValid, 521
regRejectInfoValid, 521
rejCause, 521
rejectSrvDomain, 521
sysInfoLTE, 521
tac, 521
tacValid, 521
nas_LteM1BandPrefTlv, 509
lteM1BandPref, 510
TlvPresent, 511
nas_LteNb1BandPrefTlv, 511
lteNb1BandPref, 512
TlvPresent, 513
nas_MNRInfo, 523
mcc, 524
mnc, 524
rat, 524
nas_ModePrefTlv, 524
ModePref, 524
TlvPresent, 524
nas_NR5gBandPrefTlv, 532
bits_129_192, 533
bits_193_256, 533
bits_1_64, 533
bits_65_128, 533
TlvPresent, 533
nas_NetSelPrefTlv, 526
NetSelPref, 526
TlvPresent, 526
nas_NetworkStat1x, 526
ActSetCnt, 528
NeighborSetCnt, 528
pActPilotPNElements, 528
pNeighborSetPilotPN, 528
RX_EC_IO, 528
RX_PWR, 528
SO, 528
State, 528
TX_PWR, 528
nas_NetworkStatEVDO, 529
MACIndex, 530
PER, 530
pSectorID, 530
PilotEnergy, 530
RX_PWR, 530
SNR, 530
SectorIDLen, 530
State, 530
nas_OperatorPLMNData, 533
lac1, 534
lac2, 534
mcc, 534
mnc, 534
PLMNRecID, 534
nas_PLMNNetworkName, 541
numInstance, 542
PLMNNetName, 542
nas_PLMNNetworkNameData, 542
codingScheme, 543
countryInitials, 543
longName, 543
longNameLen, 543
longNameSpareBits, 543
shortName, 543
shortNameLen, 543
shortNameSpareBits, 543
nas_PRLPrefTlv, 543
PRLPref, 544
TlvPresent, 544
nas_PhyCaAggPcellInfo, 535
dl_bw_value, 536
freq, 536
iLTEbandValue, 536
pci, 536
TlvPresent, 536
nas_PhyCaAggScellDlBw, 536
dl_bw_value, 536
TlvPresent, 536
nas_PhyCaAggScellIndType, 537
freq, 537
pci, 537
scell_state, 537
TlvPresent, 537
nas_PhyCaAggScellIndex, 536
scell_idx, 537
TlvPresent, 537
nas_PhyCaAggScellInfo, 538
dl_bw_value, 540
freq, 540
iLTEbandValue, 540
pci, 540
scell_state, 540
TlvPresent, 540
nas_PilotSetData, 540
NumPilots, 540
pPilotSetInfo, 540
nas_PilotSetParams, 541
PilotPN, 541
PilotStrength, 541
PilotType, 541
nas_QmiNas3GppNetworkInfo, 546
Desription, 547

Forbidden, 547
InUse, 547
MCC, 547
MNC, 547
Preferred, 547
Roaming, 547
nas_QmiNas3GppNetworkRAT, 548
MCC, 548
MNC, 548
RAT, 548
nas_QmisNasPcsDigit, 548
includes_pcs_digit, 549
MCC, 549
MNC, 549
nas_RFBandInfoElements, 551
activeBandClass, 551
activeChannel, 551
radioInterface, 551
nas_RFInfoTlv, 556
activeBandClass, 557
activeChannel, 557
radioInterface, 557
radioInterfaceSize, 557
TlvPresent, 557
nas_RSRPThresh, 558
pRSRPThresList, 559
RSRPThresListLen, 559
nas_RSRQThresh, 559
pRSRQThresList, 560
RSRQThresListLen, 560
nas_RSSIThresh, 560
pRSSIThresList, 561
RSSIThresListLen, 561
nas_RankIndicatorTlv, 549
count0, 549
count1, 549
TlvPresent, 549
nas_RatDisabledMaskTlv, 549
ratDisabledMask, 550
TlvPresent, 550
nas_RejectReasonTlv, 550
rejectCause, 550
serviceDomain, 551
TlvPresent, 551
nas_RfBandInfoExtFormat, 551
pInstancesSize, 552
pRfBandInfoExtFormatParam, 552
TlvPresent, 552
nas_RfBandInfoExtFormatElements, 552
activeBand, 552
activeChannel, 552
radioInterface, 552
nas_RfBandInfoList, 553
pInstanceSize, 553
pRFBandInfoParam, 553
nas_RfBandwidthInfo, 553
pInstancesSize, 554
pRfBandwidthInfoParam, 554
TlvPresent, 554
nas_RfBandwidthInfoElements, 554
bandwidth, 554
radioInterface, 554
nas_RfDedicatedBandInfo, 555
pInstancesSize, 555
pRfDedicatedBandInfoParam, 555
TlvPresent, 555
nas_RfDedicatedBandInfoElements, 555
dedicatedBand, 556
radioInterface, 556
nas_RoamPrefTlv, 558
RoamPref, 558
TlvPresent, 558
nas_RxSigInfo, 562
isRadioTuned, 563
rsrp, 563
rxChainIndex, 563
rxPower, 563
nas_SLQSSignalStrengthsIndReq, 568
ecioDelta, 569
ecioThresholdList, 569
ecioThresholdListLen, 569
ioDelta, 570
lteRsrpDelta, 570
lteSnrDelta, 570
rsrqDelta, 570
rxSignalStrengthDelta, 570
sinrDelta, 570
sinrThresholdList, 570
sinrThresholdListLen, 570
nas_SLQSSignalStrengthsInformation, 570
ecioInfo, 570
errorRateInfo, 570
io, 570
lteRsrpinfo, 570
lteSnrinfo, 571
rsrqInfo, 571
rxSignalStrengthInfo, 571
sinr, 571
nas_SLQSSignalStrengthsTlv, 571
sSLQSSignalStrengthsInfo, 571
TlvPresent, 571
nas_SccRxInfo, 564
numInstances, 565
rsrq, 565
sigInfo, 565
snr, 565
TlvPresent, 565
nas_SignalStrengthTlv, 568
radioInterface, 568
signalStrength, 568
TlvPresent, 568
nas_SrvDomainPrefTlv, 571
SrvDomainPref, 572
TlvPresent, 572
nas_SrvStatusInfo, 572
isPrefDataPath, 572

srvStatus, 573
nas_TDSCDMAECIOThresh, 575
nas_TDSCDMARSCPThresh, 575
nas_TDSCDMARSSIThresh, 576
nas_TDSCDMASINRCONFThresh, 576
nas_TDSCDMASINRThresh, 577
nas_UMTSInfo, 581
cellID, 582
ecio, 582
geranInst, 582
GeranInstInfo, 582
lac, 582
plmn, 582
psc, 582
rscp, 582
UMTSInstInfo, 582
uarfcn, 582
umtsInst, 582
nas_UMTSinstInfo, 582
umtsEcio, 583
umtsPsc, 583
umtsRscp, 583
umtsUarfcn, 583
nas_UniversalTime, 584
day, 585
dayOfWeek, 585
hour, 585
minute, 585
month, 585
second, 585
year, 585
nas_WCDMAECIOThresh, 586
nas_WCDMAInfoLTENeighborCell, 587
umtsLTENbrCellLen, 587
wcdmaRRCState, 587
nas_WCDMARSSIThresh, 587
nas_WCDMASysInfo, 588
cellId, 591
cellIdValid, 591
hsCallStatus, 591
hsCallStatusValid, 591
hsInd, 591
hsIndValid, 591
lac, 591
lacValid, 591
MCC, 591
MNC, 591
networkIdValid, 591
psc, 591
pscValid, 591
regRejectInfoValid, 591
rejCause, 591
rejectSrvDomain, 591
sysInfoWCDMA, 591
nas_acqOrderPref, 454
acqOrdeLen, 454
pAcqOrder, 454
nas_callBarStatus, 459
csBarStatus, 460
psBarStatus, 460
nas_cellParams, 467
pci, 468
rsrp, 468
rsrq, 468
rssi, 468
srxlev, 468
nas_ciotAcqOrderPref, 468
ciotAcqOrderLen, 469
pCiotAcqOrder, 469
nas_currentPLMN, 473
MCC, 474
MNC, 474
netDescr, 474
netDescrLength, 474
nas_dataSrvCapabilities, 474
dataCapabilities, 475
dataCapabilitiesLen, 475
nas_detailSvcInfo, 477
hdrHybrid, 478
hdrSrvStatus, 478
isSysForbidden, 478
srvCapability, 478
srvStatus, 478
nas_dirNum, 479
dirNum, 479
dirNumLen, 479
nas_ecioListElement, 480
ecio, 480
radioIf, 481
nas_errorRateListElement, 482
errorRate, 483
radioIf, 483
nas_geranInstInfo, 485
geranArfcn, 485
geranBsicBcc, 485
geranBsicNcc, 485
geranRssi, 485
nas_gsmCellInfo, 485
arfcn, 486
band1900, 486
bsicId, 486
cellIdValid, 486
rssi, 486
srxlev, 486
nas_homeSIDNID, 497
numInstances, 497
SidNid, 497
nas_infoInterFreq, 498
cell_resel_priority, 498
cellInterFreqParams, 498
cells_len, 499
earfcn, 499
threshXHigh, 499
threshXLow, 499
nas_lteEARFCN, 501
earfcn0, 501

earfcn1, 501
status, 501
nas_lteGsmCellInfo, 501
cellReselPriority, 502
cells_len, 502
GsmCellInfo, 502
nccPermitted, 502
threshGsmHigh, 502
threshGsmLow, 502
nas_ltePCI, 513
earfcn, 514
pci, 514
status, 514
nas_lteRsrpinformation, 514
rsrplevel, 514
nas_lteSnrinformation, 517
snrlevel, 518
nas_lteWcdmaCellInfo, 521
cellReselPriority, 522
cellsLen, 522
threshXhigh, 522
threshXlow, 522
uarfcn, 522
WCDMACellInfo, 522
nas_major
LteNasReleaseInfo_s, 433
NASLteNasReleaseInfoTlv, 609
nas_minBasedIMSI, 522
imsiM1112, 523
imsiMS1, 523
imsiMS2, 523
mccM, 523
nas_minor
LteNasReleaseInfo_s, 433
NASLteNasReleaseInfoTlv, 609
nas_namName, 525
namName, 525
namNameLen, 525
nas_netSelectionPref, 525
mcc, 526
mnc, 526
netReg, 526
nas_nmrCellInfo, 530
nmrArfcn, 531
nmrBsic, 531
nmrCellID, 531
nmrLac, 531
nmrPlmn, 531
nmrRxLev, 531
nas_nr5gBandPref, 531
bits_129_192, 532
bits_193_256, 532
bits_1_64, 532
bits_65_128, 532
nas_operatorNameString, 533
PLMNName, 533
nas_operatorPLMNList, 534
numInstance, 535
PLMNData, 535
nas_protocolSubtypeElement, 544
AccessMac, 545
AuthProt, 545
ControlMac, 545
EncryptProt, 545
ForwardMac, 545
IdleState, 545
KeyExchange, 545
MultDisc, 545
PhysicalLayer, 545
ReverseMac, 545
SecProt, 545
VirtStream, 545
nas_qaQmi3Gpp2TimeZone, 546
daylightSavings, 546
leapSeconds, 546
localTimeOffset, 546
nas_release
LteNasReleaseInfo_s, 433
NASLteNasReleaseInfoTlv, 609
nas_roamIndList, 557
numInstances, 557
radioInterface, 558
roamIndicator, 558
nas_rsrqInformation, 559
radioIf, 559
rsrq, 559
nas_rxInfo, 561
ecio, 562
isRadioTuned, 562
phase, 562
rscp, 562
rsrp, 562
rxPower, 562
nas_rxSignalStrengthListElement, 563
radioIf, 564
rxSignalStrength, 564
nas_servSystem, 566
csAttachState, 567
numRadioInterfaces, 567
psAttachState, 567
radioInterface, 567
regState, 567
selNetwork, 567
nas_serviceProviderName, 565
displayCondition, 565
spn, 565
spnLength, 565
nas_sidNid, 567
nid, 567
sid, 567
nas_sysInfoCommon, 573
isSysForbidden, 574
isSysForbiddenValid, 574
roamStatus, 574
roamStatusValid, 574
srvCapability, 574

srvCapabilityValid, 575
srvDomain, 575
srvDomainValid, 575
nas_timeInfo, 577
day, 579
dayLtSavingAdj, 579
dayOfWeek, 579
hour, 579
minute, 579
month, 579
radioInterface, 579
second, 579
timeZone, 579
TlvPresent, 579
year, 579
nas_trueIMSI, 579
imsiT1112, 580
imsiTS1, 580
imsiTS2, 580
imsiTaddrNum, 580
mccT, 580
nas_txInfo, 580
isInTraffic, 581
txPower, 581
nas_umtsLTENbrCell, 583
cellIsTDD, 584
earfcn, 584
pci, 584
rsrp, 584
rsrq, 584
srxlev, 584
nas_wcdmaCellInfo, 585
cpich_ecno, 586
cpich_rscp, 586
psc, 586
srxlev, 586
nas_wcdmaUARFCN, 591
status, 592
uarfcn, 592
nasCellLocationInfoResp, 592
pCDMAInfo, 593
pGERANInfo, 593
pLTEInfoInterfreq, 593
pLTEInfoIntrafreq, 593
pLTEInfoNeighboringGSM, 593
pLTEInfoNeighboringWCDMA, 593
pUMTSCellID, 593
pUMTSInfo, 593
pWCDMAInfoLTENeighborCell, 594
nasGet3GPP2SubscriptionInfoReq, 594
namID, 594
nasGet3GPP2SubscriptionInfoResp, 594
pCDMAChannel, 595
pDirNum, 595
pHomeSIDNID, 595
pMinBasedIMSI, 595
pNAMNameInfo, 595
pTrueIMSI, 595
nasGetHDRColorCodeResp, 596
pColorCode, 596
nasGetLTECphyCa, 597
sPhyCaAggPcellInfo, 597
sPhyCaAggScellDlBw, 597
sPhyCaAggScellIndType, 597
sPhyCaAggScellIndex, 597
sPhyCaAggScellInfo, 597
NasGetLTECphyCaInfo, 597
PhyCaAggPcellInfo, 598
PhyCaAggScellDlBw, 598
PhyCaAggScellIndType, 598
PhyCaAggScellIndex, 598
PhyCaAggScellInfo, 598
nasGetLTECphyCaResp, 598
pPhyCaAggPcellInfo, 598
pPhyCaAggScellDlBw, 598
pPhyCaAggScellIndType, 598
pPhyCaAggScellIndex, 598
pPhyCaAggScellInfo, 598
NasGetRFInfoResp, 598
pLTEOperationMode, 599
pRfBandInfoExtFormat, 599
pRfBandwidthInfo, 599
pRfDedicatedBandInfo, 599
rfbandInfoList, 599
nasGetSigInfoResp, 599
pCDMASSInfo, 600
pGSMSSInfo, 600
pHDRSSInfo, 600
pLTESSInfo, 600
pTDSCDMASigInfoExt, 600
pTDSCDMASigInfoRscp, 600
pWCDMASSInfo, 600
nasGetSysInfoResp, 600
pAddCDMASysInfo, 602
pAddGSMSysInfo, 602
pAddHDRSysInfo, 602
pAddLTESysInfo, 602
pAddWCDMASysInfo, 602
pCDMASrvStatusInfo, 602
pCDMASysInfo, 602
pGSMCallBarringSysInfo, 602
pGSMCipherDomainSysInfo, 602
pGSMSrvStatusInfo, 602
pGSMSysInfo, 602
pHDRSrvStatusInfo, 603
pHDRSysInfo, 603
pLTESrvStatusInfo, 603
pLTESysInfo, 603
pLTEVoiceSupportSysInfo, 603
pWCDMACallBarringSysInfo, 603
pWCDMACipherDomainSysInfo, 603
pWCDMASrvStatusInfo, 603
pWCDMASysInfo, 603
nasGetTxRxInfoReq, 603
radio_if, 603
nasGetTxRxInfoResp, 603

pRXChain0Info, 604
pRXChain1Info, 604
pTXInfo, 604
nasGeteDRXParamsResp, 595
pCycleLen, 596
pEdrxEnable, 596
pPagingTimeWindow, 596
nasIndicationRegisterReq, 604
pDDTMInd, 607
pDualStandByPrefInd, 607
pErrorRateInd, 607
pHDRNewUATIAssInd, 607
pHDRSessionCloseInd, 607
pLTECphyCa, 607
pManagedRoamingInd, 607
pNetworkRejectInd, 607
pNetworkTimeInd, 607
pServingSystemInd, 607
pSignalStrengthInd, 607
pSubscriptionInfoInd, 607
pSuppressSysInfoInd, 607
pSysInfoInd, 607
pSystemSelectionInd, 607
nasInitNetworkReg, 608
pChangeDuration, 608
pMNRInfo, 608
pMncPcsDigitStatus, 608
regAction, 608
nasNetworkReject, 610
pCsgId, 613
pPlmnId, 613
radioIf, 613
rejectCause, 613
serviceDomain, 613
nasNetworkTime, 613
pDayltSavAdj, 614
pRadioInterface, 614
pTimeZone, 614
universalTime, 614
nasOperatorNameResp, 614
pNITZInformation, 615
pOperatorNameString, 615
pOperatorPLMNList, 615
pPLMNNetworkName, 615
pSrvcProviderName, 615
nasPLMNNameReq, 619
mcc, 620
mnc, 620
pMncPcsStatus, 620
nasPLMNNameResp, 620
longName, 622
longNameCI, 622
longNameEn, 622
longNameLen, 622
longNameSB, 622
shortName, 622
shortNameCI, 622
shortNameEn, 622
shortNameLen, 622
shortNameSB, 622
spn, 622
spnEncoding, 622
spnLength, 623
nasRelInfoTlv
NASQmiCbkNasSwiOTAMessageInd, 623
nasSeteDRXParamsReq, 627
pCycleLen, 628
pEdrxEnable, 628
pPagingTimeWindow, 628
nasSigInfo, 628
pCDMASigInfo, 629
pGSMSigInfo, 629
pHDRSigInfo, 629
pLTESigInfo, 629
pRscp, 629
pTDSCDMASigInfoExt, 629
pWCDMASigInfo, 629
nasSwiGetChannelLockResp, 629
pLteEARFCN, 630
pLtePCI, 630
pWcdmaUARFCN, 630
NasSwiIndReg, 630
gsmUmtsDl, 631
gsmUmtsUl, 631
lteEmmDl, 631
lteEmmUl, 631
lteEsmDl, 631
lteEsmUl, 631
pRankIndicatorInd, 631
pTimer, 631
nasSwiSetChannelLockReq, 631
pLteEARFCN, 631
pLtePCI, 631
pWcdmaUARFCN, 632
nasSysInfo, 632
pAddCDMASysInfo, 634
pAddGSMSysInfo, 634
pAddHDRSysInfo, 634
pAddLTESysInfo, 634
pAddWCDMASysInfo, 634
pCDMASrvStatusInfo, 634
pCDMASysInfo, 634
pGSMCallBarringSysInfo, 634
pGSMCipherDomainSysInfo, 634
pGSMSrvStatusInfo, 634
pGSMSysInfo, 634
pHDRSrvStatusInfo, 634
pHDRSysInfo, 634
pLTESrvStatusInfo, 634
pLTESysInfo, 634
pLTEVoiceSupportSysInfo, 634
pSysInfoNoChange, 634
pWCDMACallBarringSysInfo, 634
pWCDMACipherDomainSysInfo, 634
pWCDMASrvStatusInfo, 634
pWCDMASysInfo, 635

nasTimers, 635
t3396_apn, 636
t3396_plmn_id, 636
t3396_val, 636
nccPermitted
lteGsmCellInfo, 424
nas_lteGsmCellInfo, 502
NeighborSetCnt
nas_NetworkStat1x, 528
NetworkStat1x, 640
netDescr
currentPLMN, 214
nas_currentPLMN, 474
netDescrLength
currentPLMN, 214
nas_currentPLMN, 474
netInfoLen
unpack_wds_SLQSSetWdsEventCallback_ind_t, 1421
netReg
nas_netSelectionPref, 526
netSelectionPref, 636
NetSelPref
nas_NetSelPrefTlv, 526
NASNetSelPreferenceTlv, 610
netSelectionPref, 636
mcc, 636
mnc, 636
netReg, 636
NetStats, 636
rx_bytes, 637
rx_errors, 637
rx_overflows, 637
rx_packets, 637
tx_bytes, 637
tx_errors, 637
tx_overflows, 637
tx_packets, 637
Network Access Service (NAS), 44
NetworkDebugResp, 638
pDataStatusDetail, 638
pDeviceConfigDetail, 638
pNetworkStat1x, 638
pNetworkStatEVDO, 638
pObjectVer, 638
NetworkID
qaQmiServingSystemParam, 860
unpack_nas_SLQSGetServingSystem_t, 1242
networkID
CDMASysInfo, 187
nas_CDMASysInfo, 466
networkIdValid
CDMASysInfo, 187
GSMSysInfo, 321
LTESysInfo, 446
nas_CDMASysInfo, 466
nas_GSMSysInfo, 490
nas_LTESysInfo, 521
nas_WCDMASysInfo, 591
WCDMASysInfo, 1544
networkInfo
voice_USSDNotificationNetworkInfo, 1482
networkInfoLen
unpack_wds_SLQSGetCurrDataSystemStat_t, 1408
NetworkStat1x, 638
ActSetCnt, 640
NeighborSetCnt, 640
pActPilotPNElements, 640
pNeighborSetPilotPN, 640
RX_EC_IO, 640
RX_PWR, 640
SO, 640
State, 640
TX_PWR, 640
NetworkStatEVDO, 641
MACIndex, 642
PER, 642
pSectorID, 642
PilotEnergy, 642
RX_PWR, 642
SNR, 642
SectorIDLen, 642
State, 642
NetworkType
CurrNetworkInfo, 216
currNetworkInfo, 218
wds_currNetworkInfo, 1548
NewMMTlv
unpack_sms_SetNewSMSCallback_ind_t, 1317
newMTMessageTlv, 642
MTMessageInfo, 643
TlvPresent, 643
newPINLen
uim_unblockUIMPIN, 1097
unblockUIMPIN, 1130
newPINVal
uim_unblockUIMPIN, 1097
unblockUIMPIN, 1130
newPasswd
pack_voice_SLQSVoiceSetCallBarringPassword_t, 782
voiceSetCallBarringPwdInfo, 1521
newPasswdAgain
pack_voice_SLQSVoiceSetCallBarringPassword_t, 782
voiceSetCallBarringPwdInfo, 1521
newPin
pack_dms_UIMUnblockPIN_t, 673
newPwd
newPwdData, 643
voice_newPwdData, 1471
newPwdAgain
newPwdData, 643
voice_newPwdData, 1471
newPwdData, 643

newPwd, 643
newPwdAgain, 643
newValue
pack_dms_UIMChangePIN_t, 670
nextHeader
LibPackTFTIDParams, 386
TFTIDParams, 1061
nid
CDMAInfo, 174
nas_CDMAInfo, 462
nas_sidNid, 567
sidNid, 965
unpack_nas_GetHomeNetwork_t, 1223
NmeaPort
DcsUsbPortNames, 232
nmrArfcn
nas_nmrCellInfo, 531
nmrCellInfo, 644
nmrBsic
nas_nmrCellInfo, 531
nmrCellInfo, 644
nmrCellID
nas_nmrCellInfo, 531
nmrCellInfo, 644
nmrCellInfo, 643
nmrArfcn, 644
nmrBsic, 644
nmrCellID, 644
nmrLac, 644
nmrPlmn, 644
nmrRxLev, 644
nmrInst
GERANInfo, 277
nas_GERANInfo, 484
nmrLac
nas_nmrCellInfo, 531
nmrCellInfo, 644
nmrPlmn
nas_nmrCellInfo, 531
nmrCellInfo, 644
nmrRxLev
nas_nmrCellInfo, 531
nmrCellInfo, 644
noReplyTimer
callFWExtInfo, 160
callFWInfo, 161
voice_callFWExtInfo, 1452
voice_callFWInfo, 1453
Non-service specific APIs (SWI), 55
notifType
unpack_voice_SUPSNotificationCallback_ind_t, 1386
voiceSUPSNotification, 1534
Notification
_SwiAvmsEventInd, 106
notification
omaDmNotificationsTlv, 655
unpack_omaDmNotificationsTlv_t, 1279
notification_Type
unpack_voice_USSDNotificationCallback_ind_t, 1386
notificationType
SMSEtwsMessage, 1004
sMSEtwsMessageInfo, 1005
notused
unpack_dms_SetCrashAction_t, 1158
nr5gBandPref, 645
bits_129_192, 645
bits_193_256, 645
bits_1_64, 645
bits_65_128, 645
num_instances
_qaQmi3GPP2BroadcastCfgInfo, 75
_qaQmi3GPPBroadcastCfgInfo, 75
custSettingList, 224
DMScustSettingList, 249
sms_qaQmi3GPP2BroadcastCfgInfo, 995
sms_qaQmi3GPPBroadcastCfgInfo, 995
numApp
slotInf, 969
slotInfo, 971
uim_slotInfo, 1096
numCrashes
CrashInfo, 204
crashInformation, 206
numEntries
CurrentImgList, 213
unpack_dms_SLQSSwiGetFirmwareCurr_t, 1174
numFeatures
personalizationStatus, 821
uim_personalizationStatus, 1088
numFiles
registerRefresh, 904
uim_registerRefresh, 1092
NumFlows
unpack_qos_SLQSSetQosEventCallback_ind_t, 1300
numInstance
nas_operatorPLMNList, 535
nas_PLMNNetworkName, 542
operatorPLMNList, 657
PLMNNetworkName, 830
numInstances
arrAlertingPattern, 138
arrAlertingType, 139
arrAlphaID, 139
arrCalledPartyNum, 140
arrCallEndReason, 141
arrCallInfo, 141
arrConnectPartyNum, 142
arrDiagInfo, 142
arrRedirPartyNum, 143
arrRemotePartyName, 143
arrRemotePartyNum, 144
arrSvcOption, 144
arrUUSInfo, 145

DomainNameList, 254
getCallFWExtInfo, 285
getCallFWInfo, 286
getMsgWaitingInfo, 304
homeSIDNID, 332
msgWaitingInfo, 452
nas_homeSIDNID, 497
nas_roamIndList, 557
nas_SccRxInfo, 565
PCSCFFQDNAddressList, 815
PCSCFIPv4ServerAddressList, 816
roamIndList, 915
SccRxInfo, 929
sms_getMsgWaitingInfo, 990
unpack_sms_SLQSWmsMessageWaitingCall-Back_ind_t, 1327
voice_arrAlertingPattern, 1438
voice_arrAlertingType, 1439
voice_arrAlphaID, 1440
voice_arrCalledPartyNum, 1440
voice_arrCallEndReason, 1441
voice_arrCallInfo, 1441
voice_arrConnectPartyNum, 1442
voice_arrDiagInfo, 1442
voice_arrRedirPartyNum, 1443
voice_arrRemotePartyName, 1443
voice_arrRemotePartyNum, 1444
voice_arrSvcOption, 1445
voice_arrUUSInfo, 1445
voice_getCallFWExtInfo, 1470
voice_getCallFWInfo, 1470
wds_DomainNameList, 1556
wds_PCSCFFQDNAddressList, 1560
wds_PCSCFIPv4ServerAddressList, 1561

numLen
calledPartyInfo, 155
callFWExtInfo, 160
callFWInfo, 161
callingPartyInfo, 164
peerNumberInfo, 820
redirNumInfo, 903
remotePartyNum, 907
voice_calledPartyInfo, 1447
voice_callFWExtInfo, 1452
voice_callFWInfo, 1453
voice_callingPartyInfo, 1456
voice_peerNumberInfo, 1474
voice_redirNumInfo, 1477
voice_remotePartyNum, 1479

numOfFiles
uim_refreshevent, 1091
UIMRefreshEvent, 1111

numOfRoutes
sms_setRoutesReq, 1000
smsSetRoutesReq, 1015

numOpt
DHCPOptionList, 238
wds_DHCPLeaseOptTlv, 1550
wds_DHCPv4OptionList, 1554
WdsDHCPv4OptionList, 1574
wdsDhcpv4OptionList, 1575

numPI
peerNumberInfo, 820
voice_peerNumberInfo, 1474

NumPilots
nas_PilotSetData, 540
PilotSetData, 827

numPlan
calledPartyInfo, 155
callFWExtInfo, 160
callingPartyInfo, 164
connectNumInfo, 203
peerNumberInfo, 820
redirNumInfo, 903
voice_calledPartyInfo, 1447
voice_callFWExtInfo, 1452
voice_callingPartyInfo, 1456
voice_connectNumInfo, 1462
voice_peerNumberInfo, 1474
voice_redirNumInfo, 1477

numPresInd
connectNumInfo, 203
voice_connectNumInfo, 1462

numQosFlow
sQosStat, 1018
unpack_qos_SLQSQosSwiReadDataStats_t, 1299

numRadioInterfaces
nas_servSystem, 567
servSystem, 938

NumRxFilters
unpack_qos_QosFlowInfo_t, 1295

numSI
peerNumberInfo, 820
voice_peerNumberInfo, 1474

numSlot
cardStatus, 166
uim_cardStatus, 1080

NumSupUSBComps
unpack_dms_GetUSBComp_t, 1155

NumTxFilters
unpack_qos_QosFlowInfo_t, 1295

numType
calledPartyInfo, 155
callFWExtInfo, 160
callingPartyInfo, 164
connectNumInfo, 203
peerNumberInfo, 821
redirNumInfo, 904
voice_calledPartyInfo, 1447
voice_callFWExtInfo, 1452
voice_callingPartyInfo, 1456
voice_connectNumInfo, 1462
voice_peerNumberInfo, 1474
voice_redirNumInfo, 1477

number
calledPartyInfo, 155

callFWExtInfo, 160
callFWInfo, 161
callingPartyInfo, 164
ECTNum, 260
peerNumberInfo, 820
redirNumInfo, 903
voice_calledPartyInfo, 1447
voice_callFWExtInfo, 1452
voice_callFWInfo, 1453
voice_callingPartyInfo, 1456
voice_ECTNum, 1467
voice_peerNumberInfo, 1474
voice_redirNumInfo, 1477
numberPlan
callFwdTypeAndPlan, 158
voice_callFwdTypeAndPlan, 1450
numberType
callFwdTypeAndPlan, 158
voice_callFwdTypeAndPlan, 1450
NxtHdrProto
unpack_qos_swiQosFilter_t, 1305

OKtoRefresh
pack_uim_SLQSUIMRefreshOK_t, 765
UIMRefreshOKReq, 1113
OMADMCancelSession
qaGobiApiOmadm.h, 1981
OMADMEnabled
unpack_swioma_SLQSOMADMGetSettings_t, 1335
OMADMGetPendingNIA
qaGobiApiOmadm.h, 1981
OMADMGetSessionInfo
qaGobiApiOmadm.h, 1982
OMADMStartSession
qaGobiApiOmadm.h, 1983
OTASPStatus
unpack_voice_OTASPStatusCallback_ind_t, 1351
voiceOTASPStatusInfo, 1517
oddEvenInd
calledPartySubAdd, 156
voice_calledPartySubAdd, 1448
OfflineReason
unpack_dms_GetPower_t, 1151
offset
readTransparentInfo, 902
uim_readTransparentInfo, 1089
oldPINLen
changeUIMPIN, 190
uim_changeUIMPIN, 1081
oldPINVal
changeUIMPIN, 190
uim_changeUIMPIN, 1081
oldPasswd
pack_voice_SLQSVoiceSetCallBarringPassword_t, 782
voiceSetCallBarringPwdInfo, 1521
oldValue
pack_dms_UIMChangePIN_t, 670
omaDmConfig
sessionInfo, 939
sessionInfoExt, 939
omaDmConfigTlv, 647
alertmsg, 648
alertmsglength, 648
state, 648
userInputReq, 648
userInputTimeout, 648
omaDmConfigTlvExt, 648
alertmsg, 650
alertmsglength, 650
state, 650
userInputReq, 650
userInputTimeout, 650
omaDmFota
sessionInfo, 939
sessionInfoExt, 939
omaDmFotaTlv, 650
description, 651
descriptionlength, 651
fwdloadsize, 651
fwloadComplete, 652
namelength, 652
package_name, 652
sessionType, 652
severity, 652
state, 652
updateCompleteStatus, 652
userInputReq, 652
userInputTimeout, 652
version, 652
versionlength, 652
omaDmFotaTlvExt, 652
description, 654
descriptionlength, 654
fumoResultCode, 654
namelength, 654
package_name, 654
packageSize, 654
receivedBytes, 654
reserved, 654
state, 654
userInputTimeout, 654
version, 654
versionlength, 654
omaDmNotifications
sessionInfo, 939
omaDmNotificationsTlv, 654
notification, 655
sessionStatus, 655
opMode
dmsSwiGetPCInfo, 252
unpack_dms_SLQSDmsSwiGetPCInfo_t, 1163
opaqueId
pack_loc_SLQSLOCInjectSensorData_t, 688
Open Mobile Alliance Service (OMA), 51
operatingMode

dms_OperatingModeTlv, 240
OperatingModeTlv
unpack_dms_SetEventReport_ind_t, 1159
operation
depersonalizationInformation, 234
pack_pds_SetPDSDefaults_t, 730
uim_depersonalizationInformation, 1082
OperationMode
unpack_dms_GetPower_t, 1151
operatorNameString, 655
PLMNName, 655
OperatorPLMNData, 656
lac1, 656
lac2, 656
mcc, 656
mnc, 656
PLMNRecID, 656
operatorPLMNList, 656
numInstance, 657
PLMNData, 657
optCode
DHCPOption, 237
wds_DHCPOpt, 1552
wds_DHCPv4Option, 1553
WdsDHCPv4Option, 1573
wdsDhcpv4Option, 1573
optList
wds_DHCPLeaseOptTlv, 1550
optListData
wds_DHCPLeaseOptTlv, 1550
optVal
wds_DHCPv4Option, 1553
WdsDHCPv4Option, 1573
wdsDhcpv4Option, 1574
optValLen
DHCPOption, 237
wds_DHCPOpt, 1552
wds_DHCPv4Option, 1554
WdsDHCPv4Option, 1573
wdsDhcpv4Option, 1574
OriginateUSSD
qaGobiApiVoice.h, 2123
otaMsgTlv
NASQmiCbkNasSwiOTAMessageInd, 624

p1Status
unpack_dms_UIMGetPINStatus_t, 1183
p1UnblockRetriesLeft
unpack_dms_UIMGetPINStatus_t, 1183
p1VerifyRetriesLeft
unpack_dms_UIMGetPINStatus_t, 1183
p2Status
unpack_dms_UIMGetPINStatus_t, 1183
p2UnblockRetriesLeft
unpack_dms_UIMGetPINStatus_t, 1183
p2VerifyRetriesLeft
unpack_dms_UIMGetPINStatus_t, 1183
p3GPP2Pri
swiQosFlow, 1042
p3GPP2TimeInfo
GetNetworkTimeResp, 304
unpack_nas_SLQSGetNetworkTime_t, 1235
p3GPPImCn
swiQosFlow, 1042
p3GPPResResidualBER
swiQosFlow, 1043
p3GPPSigInd
swiQosFlow, 1043
p3GPPTimeInfo
GetNetworkTimeResp, 304
unpack_nas_SLQSGetNetworkTime_t, 1235
p3GPPTraHdlPri
swiQosFlow, 1043
p3GppNetworkInfoInstances
unpack_nas_PerformNetworkScan_t, 1230
p3GppNetworkInstanceSize
unpack_nas_PerformNetworkScan_t, 1230
p3gppRelease
_slqs3GPPConfigItem, 87
pack_wds_SLQSSet3GPPConfigItem_t, 805
pAAASPI
pack_wds_SetMobileIPProfile_t, 798
PACK_WDS_IPV4
wds.h, 2299
PACK_WDS_IPV6
wds.h, 2299
pAMRStatus
pack_voice_SLQSVoiceGetConfig_t, 778
voiceGetConfigReq, 1509
pAPN
_SLQSAVMSSettingsAPNInfo, 93
pAPNClass
LibpackProfile3GPP, 365
LibPackprofile_3GPP, 377
Profile3GPP, 842
pAPNClass3GPP2
LibpackProfile3GPP2, 371
LibPackprofile_3GPP2, 382
Profile3GPP2, 847
pAPNDisabledFlag
LibpackProfile3GPP, 365
LibPackprofile_3GPP, 377
Profile3GPP, 842
pAPNEnabled3GPP2
LibpackProfile3GPP2, 371
LibPackprofile_3GPP2, 382
Profile3GPP2, 847
pAPNInfo
_SLQSAVMSSetSettingsReqPara, 89
_SLQSAVMSSetSettingsReqPara_v2, 90
_SLQSAVMSSettings, 91
_SLQSAVMSSettings_v2, 92
pAPNName
LibpackProfile3GPP, 365
LibPackprofile_3GPP, 377
Profile3GPP, 842
qmiWdsRunTimeSettings, 893

swiPDPRuntimeSettingsResp, 1037
pAPNnameSize
LibpackProfile3GPP, 365
LibPackprofile_3GPP, 377
Profile3GPP, 842
PASSWORD_LENGTH
qaGobiApiVoice.h, 2122
pAVRXAVCHeadroom
RXAVCList, 920
pAVRXAVCSens
RXAVCList, 920
pAccelAcceptReady
QmiCbkLocSensorStreamingInd, 880
unpack_loc_SensorStreamingCallback_Ind_t, 1212
pAccelSamplesAccepted
QmiCbkLocInjectSensorDataInd, 871
unpack_loc_InjectSensorDataCallback_Ind_t, 1203
pAccelTempAcceptReady
QmiCbkLocSensorStreamingInd, 880
unpack_loc_SensorStreamingCallback_Ind_t, 1212
pAccelTempSamplesAccepted
QmiCbkLocInjectSensorDataInd, 871
unpack_loc_InjectSensorDataCallback_Ind_t, 1203
pAcceleroData
LocInjectSensorDataReq, 418
pAcceleroTempData
LocInjectSensorDataReq, 418
pAcceleroTimeSrc
LocInjectSensorDataReq, 418
pAccuracy
unpack_pds_GetPDSDefaults_t, 1280
pAcqOrder
acqOrderPref, 124
AcqOrderPrefTlv, 124
nas_acqOrderPref, 454
nas_AcqOrderPrefTlv, 455
pAcqOrderPref
_sysSelectPrefExtInfo, 108
_sysSelectPrefParams, 119
pack_nas_SLQSSetSysSelectionPref_t, 717
pack_nas_SLQSSetSysSelectionPrefExt_t, 726
unpack_nas_SLQSGetSysSelectionPrefExt_t, 1255
pActPilotPNElements
nas_NetworkStat1x, 528
NetworkStat1x, 640
pActiveTimer
dmsPsmCfgParamChange, 251
pack_dms_SLQSSetPowerSaveModeConfig_t, 666
PowerSaveModeConfigReq, 833
PowerSaveModeConfigResp, 834
unpack_dms_SLQSGetPowerSaveModeConfig_t, 1170
pAddCDMASysInfo
nasGetSysInfoResp, 602
nasSysInfo, 634
unpack_nas_SLQSGetSysInfo_t, 1248
unpack_nas_SLQSSysInfoCallback_ind_t, 1274
pAddGSMSysInfo
nasGetSysInfoResp, 602
nasSysInfo, 634
unpack_nas_SLQSGetSysInfo_t, 1248
unpack_nas_SLQSSysInfoCallback_ind_t, 1274
pAddHDRSysInfo
nasGetSysInfoResp, 602
nasSysInfo, 634
unpack_nas_SLQSGetSysInfo_t, 1248
unpack_nas_SLQSSysInfoCallback_ind_t, 1274
pAddLTESysInfo
nasGetSysInfoResp, 602
nasSysInfo, 634
unpack_nas_SLQSGetSysInfo_t, 1248
unpack_nas_SLQSSysInfoCallback_ind_t, 1274
pAddWCDMASysInfo
nasGetSysInfoResp, 602
nasSysInfo, 634
unpack_nas_SLQSGetSysInfo_t, 1248
unpack_nas_SLQSSysInfoCallback_ind_t, 1274
pAddrAllocPref
LibpackProfile3GPP, 365
LibPackprofile_3GPP, 376
Profile3GPP, 842
pAddress
pack_wds_SetMobileIPProfile_t, 798
pAirTimer
pack_voice_SLQSVoiceGetConfig_t, 778
voiceGetConfigReq, 1509
pAirTimerCnt
unpack_voice_SLQSVoiceGetConfig_t, 1376
voiceGetConfigResp, 1511
pAirTimerConfig
pack_voice_SLQSVoiceSetConfig_t, 784
voiceSetConfigReq, 1523
pAirTimerStatus
unpack_voice_SLQSVoiceSetConfig_t, 1379
voiceSetConfigResp, 1525
pAlertPriority
cdmaMsgDecodingParams, 176
cdmaMsgDecodingParamsExt, 180
pAlertType
unpack_voice_SLQSVoiceGetCallInfo_t, 1365
voiceCallInfoResp, 1488
pAlertingPattern
unpack_voice_SLQSVoiceGetCallInfo_t, 1365
voiceCallInfoResp, 1488
pAllowLinger
LibpackProfile3GPP2, 371
LibPackprofile_3GPP2, 382
Profile3GPP2, 847
pAlphaID
SMSAsyncRawSend_s, 1002

unpack_sms_SLQSWmsAsyncRawSendCallBack-_ind_t, 1326
pAlphaIDInfo
unpack_voice_SLQSOriginateUSSD_t, 1354
unpack_voice_SLQSVoiceDialCall_t, 1356
unpack_voice_SLQSVoiceGetCallBarring_t, 1361
unpack_voice_SLQSVoiceGetCallForwarding-Status_t, 1362
unpack_voice_SLQSVoiceGetCallInfo_t, 1365
unpack_voice_SLQSVoiceGetCallWaiting_t, 1367
unpack_voice_SLQSVoiceGetCLIP_t, 1368
unpack_voice_SLQSVoiceGetCLIR_t, 1369
unpack_voice_SLQSVoiceGetCNAP_t, 1371
unpack_voice_SLQSVoiceGetCOLP_t, 1372
unpack_voice_SLQSVoiceGetCOLR_t, 1374
unpack_voice_SLQSVoiceSetCallBarringPassword-_t, 1378
unpack_voice_SLQSVoiceSetSUPSService_t, 1381
unpack_voice_SLQSVoiceSUPSCallback_ind_t, 1384
USSResp, 1433
voiceCallInfoResp, 1488
voiceCallResponseParams, 1491
voiceGetCallBarringResp, 1498
voiceGetCallFWResp, 1500
voiceGetCallWaitInfo, 1501
voiceGetCLIPResp, 1503
voiceGetCLIRResp, 1504
voiceGetCNAPResp, 1505
voiceGetCOLPResp, 1506
voiceGetCOLRResp, 1508
voiceSetCallBarringPwdResp, 1522
voiceSetSUPSServiceResp, 1529
voiceSUPSInfo, 1532
pAlphaIdentifier
USSDNoWaitIndicationInfo, 1431
pAltitudeAssumed
QmiCbkLocPositionReportInd, 879
unpack_loc_PositionRpt_Ind_t, 1211
pAltitudeSrcInfo
LocInjectPositionReq, 416
pAltitudeWrtEllipsoid
LocInjectPositionReq, 416
pack_pds_SLQSPDSInjectPositionData_t, 735
PDSPositionData, 818
QmiCbkLocBestAvailPosInd, 865
QmiCbkLocPositionReportInd, 879
unpack_loc_BestAvailPos_Ind_t, 1193
unpack_loc_PositionRpt_Ind_t, 1211
pAltitudeWrtMeanSeaLevel
LocInjectPositionReq, 416
QmiCbkLocBestAvailPosInd, 865
QmiCbkLocPositionReportInd, 879
unpack_loc_BestAvailPos_Ind_t, 1193
unpack_loc_PositionRpt_Ind_t, 1211
pAltitudeWrtSealevel
pack_pds_SLQSPDSInjectPositionData_t, 735
PDSPositionData, 818
pAmrMode
GetIMSVoIPConfigResp, 298
imsVoIPConfigInfo, 351
SetIMSVoIPConfigReq, 950
pAmrOctetAligned
GetIMSVoIPConfigResp, 298
imsVoIPConfigInfo, 351
SetIMSVoIPConfigReq, 950
pAmrWBMode
GetIMSVoIPConfigResp, 298
imsVoIPConfigInfo, 351
SetIMSVoIPConfigReq, 950
pAmrWBOctetAligned
GetIMSVoIPConfigResp, 298
imsVoIPConfigInfo, 351
SetIMSVoIPConfigReq, 950
pAmrWbEnable
GetIMSVoIPConfigResp, 298
imsVoIPConfigInfo, 351
SetIMSVoIPConfigReq, 950
pApnString
LibpackProfile3GPP2, 371
LibPackprofile_3GPP2, 382
Profile3GPP2, 847
pApnStringSize
LibpackProfile3GPP2, 371
LibPackprofile_3GPP2, 382
Profile3GPP2, 847
pApnname
pack_wds_SetDefaultProfile_t, 794
pAppName
loc_LocApplicationInfo, 401
LocApplicationInfo, 409
pAppPriority
LibpackProfile3GPP2, 371
LibPackprofile_3GPP2, 382
Profile3GPP2, 847
pAppProvider
loc_LocApplicationInfo, 401
LocApplicationInfo, 409
pAppSubType
HDRProtSubtypResp, 325
unpack_nas_SLQSSwiGetHDRProtSubtype_t, 1268
pAppType
LibpackProfile3GPP2, 371
LibPackprofile_3GPP2, 382
Profile3GPP2, 847
pAppVersion
loc_LocApplicationInfo, 401
LocApplicationInfo, 409
pApplication
pack_nas_SetCDMANetworkParameters_t, 694
pApplicationInfo
LOCStartReq, 421
pack_loc_Start_t, 691
pArrAlertingPattern

unpack_voice_allCallStatusCallback_ind_t, 1349
unpack_voice_SLQSVoiceGetAllCallInfo_t, 1359
voiceGetAllCallInfo, 1496
voiceSetAllCallStatusCbkInfo, 1520
pArrAlertingType
unpack_voice_allCallStatusCallback_ind_t, 1349
unpack_voice_SLQSVoiceGetAllCallInfo_t, 1359
voiceGetAllCallInfo, 1496
voiceSetAllCallStatusCbkInfo, 1520
pArrAlphaID
unpack_voice_allCallStatusCallback_ind_t, 1349
unpack_voice_SLQSVoiceGetAllCallInfo_t, 1359
voiceGetAllCallInfo, 1496
voiceSetAllCallStatusCbkInfo, 1520
pArrCallEndReason
unpack_voice_allCallStatusCallback_ind_t, 1349
unpack_voice_SLQSVoiceGetAllCallInfo_t, 1359
voiceGetAllCallInfo, 1496
voiceSetAllCallStatusCbkInfo, 1520
pArrCallInfo
unpack_voice_SLQSVoiceGetAllCallInfo_t, 1359
voiceGetAllCallInfo, 1496
pArrCalledPartyNum
unpack_voice_allCallStatusCallback_ind_t, 1349
unpack_voice_SLQSVoiceGetAllCallInfo_t, 1359
voiceGetAllCallInfo, 1496
voiceSetAllCallStatusCbkInfo, 1520
pArrConnectPartyNum
unpack_voice_allCallStatusCallback_ind_t, 1349
unpack_voice_SLQSVoiceGetAllCallInfo_t, 1359
voiceGetAllCallInfo, 1496
voiceSetAllCallStatusCbkInfo, 1520
pArrDiagInfo
unpack_voice_allCallStatusCallback_ind_t, 1349
unpack_voice_SLQSVoiceGetAllCallInfo_t, 1359
voiceGetAllCallInfo, 1496
voiceSetAllCallStatusCbkInfo, 1520
pArrRedirPartyNum
unpack_voice_allCallStatusCallback_ind_t, 1349
unpack_voice_SLQSVoiceGetAllCallInfo_t, 1359
voiceGetAllCallInfo, 1496
voiceSetAllCallStatusCbkInfo, 1520
pArrRemotePartyName
unpack_voice_allCallStatusCallback_ind_t, 1349
unpack_voice_SLQSVoiceGetAllCallInfo_t, 1359
voiceGetAllCallInfo, 1496
voiceSetAllCallStatusCbkInfo, 1520
pArrRemotePartyNum
unpack_voice_allCallStatusCallback_ind_t, 1349
unpack_voice_SLQSVoiceGetAllCallInfo_t, 1359
voiceGetAllCallInfo, 1496
voiceSetAllCallStatusCbkInfo, 1520
pArrSvcOption
unpack_voice_allCallStatusCallback_ind_t, 1349
unpack_voice_SLQSVoiceGetAllCallInfo_t, 1359
voiceGetAllCallInfo, 1496
voiceSetAllCallStatusCbkInfo, 1520
pArrUUSInfo
unpack_voice_SLQSVoiceGetAllCallInfo_t, 1359
voiceGetAllCallInfo, 1496
pAuth
pack_wds_SLQSStartDataSession_t, 809
pAuthPassword
LibpackProfile3GPP2, 371
LibPackprofile_3GPP2, 382
Profile3GPP2, 847
pAuthPassword_tSize
LibPackprofile_3GPP2, 382
pAuthPasswordSize
LibpackProfile3GPP2, 371
Profile3GPP2, 848
pAuthProtocol
LibpackProfile3GPP2, 371
LibPackprofile_3GPP2, 382
Profile3GPP2, 848
pAuthRetryCount
LibpackProfile3GPP2, 371
LibPackprofile_3GPP2, 382
Profile3GPP2, 848
pAuthTimeout
LibpackProfile3GPP2, 371
LibPackprofile_3GPP2, 382
Profile3GPP2, 848
pAuthenticateResult
UIMAuthenticateResp, 1100
unpack_uim_SLQSUIMAuthenticate_t, 1340
pAuthentication
qmiWdsRunTimeSettings, 893
ssdatasession_params, 1022
pAuthenticationPref
LibpackProfile3GPP, 365
LibPackprofile_3GPP, 377
Profile3GPP, 842
pAutoAnsStatus
unpack_voice_SLQSVoiceSetConfig_t, 1379
voiceSetConfigResp, 1525
pAutoAnswer
pack_voice_SLQSVoiceGetConfig_t, 778
pack_voice_SLQSVoiceSetConfig_t, 784
voiceGetConfigReq, 1509
voiceSetConfigReq, 1524
pAutoAnswerStat
unpack_voice_SLQSVoiceGetConfig_t, 1376
voiceGetConfigResp, 1511
pAutoConnect
_SLQSAVMSSetSettingsReqPara, 89
_SLQSAVMSSetSettingsReqPara_v2, 90
_SLQSAVMSSettings, 91
_SLQSAVMSSettings_v2, 92
pAutoReboot
_SLQSAVMSSetSettingsReqPara, 89
_SLQSAVMSSetSettingsReqPara_v2, 90
_SLQSAVMSSettings, 91
_SLQSAVMSSettings_v2, 92
pAutoSelection
UIMGetConfigurationResp, 1104

unpack_uim_SLQSUIMGetConfiguration_t, 1342
pAutosdm
_SLQSOMADMSettings, 99
_SLQSOMADMSettingsReqParams, 100
_SLQSOMADMSettingsReqParams3, 101
pack_swioma_SLQSOMADMSetSettings_t, 756
pBandPref
_sysSelectPrefInfo, 113
_sysSelectPrefParams, 119
pack_nas_SLQSSetSysSelectionPref_t, 717
pack_nas_SLQSSetSysSelectionPrefExt_t, 726
unpack_nas_SLQSGetSysSelectionPref_t, 1253
unpack_nas_SLQSGetSysSelectionPrefExt_t, 1255
pBdsSVInfo
LocDelAssDataReq, 410
pack_loc_Delete_Assist_Data_t, 676
pBearerID
QosFlowInfo, 898
pBearerId
swiPDPRuntimeSettingsResp, 1037
pBearerTech
DataBearerTechExt, 227
pBroadcast
pack_nas_SetCDMANetworkParameters_t, 694
pBroadcastConfig
pack_sms_SLQSSetSmsBroadcastConfig_t, 750
unpack_sms_SLQSGetSmsBroadcastConfig_t, 1320
pBurstDTMFLengths
pack_voice_SLQSVoiceBurstDTMF_t, 772
voiceBurstDTMFInfo, 1486
pCCResType
unpack_voice_SLQSVoiceGetCallBarring_t, 1361
unpack_voice_SLQSVoiceGetCallForwarding-Status_t, 1362
unpack_voice_SLQSVoiceGetCallWaiting_t, 1367
unpack_voice_SLQSVoiceGetCLIP_t, 1368
unpack_voice_SLQSVoiceGetCLIR_t, 1369
unpack_voice_SLQSVoiceGetCNAP_t, 1371
unpack_voice_SLQSVoiceGetCOLP_t, 1372
unpack_voice_SLQSVoiceGetCOLR_t, 1374
unpack_voice_SLQSVoiceSetCallBarringPassword-_t, 1378
voiceGetCallBarringResp, 1498
voiceGetCallFWResp, 1500
voiceGetCallWaitInfo, 1502
voiceGetCLIPResp, 1503
voiceGetCLIRResp, 1504
voiceGetCNAPResp, 1505
voiceGetCOLPResp, 1507
voiceGetCOLRResp, 1508
voiceSetCallBarringPwdResp, 1522
pCCResultType
unpack_voice_SLQSVoiceDialCall_t, 1356
unpack_voice_SLQSVoiceSetSUPSService_t, 1381
voiceCallResponseParams, 1491
voiceSetSUPSServiceResp, 1529
pCCSUPSType
unpack_voice_SLQSVoiceDialCall_t, 1356
unpack_voice_SLQSVoiceGetCallBarring_t, 1361
unpack_voice_SLQSVoiceGetCallForwarding-Status_t, 1362
unpack_voice_SLQSVoiceGetCallWaiting_t, 1367
unpack_voice_SLQSVoiceGetCLIP_t, 1368
unpack_voice_SLQSVoiceGetCLIR_t, 1370
unpack_voice_SLQSVoiceGetCNAP_t, 1371
unpack_voice_SLQSVoiceGetCOLP_t, 1372
unpack_voice_SLQSVoiceGetCOLR_t, 1374
unpack_voice_SLQSVoiceSetCallBarringPassword-_t, 1378
unpack_voice_SLQSVoiceSetSUPSService_t, 1381
voiceCallResponseParams, 1491
voiceGetCallBarringResp, 1498
voiceGetCallFWResp, 1500
voiceGetCallWaitInfo, 1502
voiceGetCLIPResp, 1503
voiceGetCLIRResp, 1504
voiceGetCNAPResp, 1505
voiceGetCOLPResp, 1507
voiceGetCOLRResp, 1508
voiceSetCallBarringPwdResp, 1522
voiceSetSUPSServiceResp, 1529
pCCSuppsType
unpack_voice_SLQSOriginateUSSD_t, 1354
USSResp, 1433
pCDMABroadcastConfig
pack_sms_SLQSSetSmsBroadcastConfig_t, 750
unpack_sms_SLQSGetSmsBroadcastConfig_t, 1320
pCDMAChannel
nasGet3GPP2SubscriptionInfoResp, 595
unpack_nas_SLQSNasGet3GPP2Subscription_t, 1256
pCDMAECIODelta
pack_nas_SLQSNasConfigSigInfo2_t, 702
setSignalStrengthInfo, 961
pCDMAECIOThresh
pack_nas_SLQSNasConfigSigInfo2_t, 702
setSignalStrengthInfo, 961
pCDMAECIOThreshList
CDMAECIOThresh, 173
nas_CDMAECIOThresh, 461
pCDMAFrameErrRate
GetErrRateResp, 293
unpack_nas_SLQSGetErrorRate_t, 1234
pCDMAInfo
nasCellLocationInfoResp, 593
unpack_nas_SLQSNasGetCellLocationInfo_t, 1258
pCDMARSSIDelta
pack_nas_SLQSNasConfigSigInfo2_t, 702
setSignalStrengthInfo, 961
pCDMARSSIThresh

pack_nas_SLQSNasConfigSigInfo2_t, 702
setSignalStrengthInfo, 961
pCDMARSSIThreshList
CDMARSSIThresh, 182
nas_CDMARSSIThresh, 463
pCDMASSInfo
nasGetSigInfoResp, 600
pCDMASigInfo
nasSigInfo, 629
unpack_nas_SLQSNasSigInfoCallback_ind_t, 1264
pCDMASrvStatusInfo
nasGetSysInfoResp, 602
nasSysInfo, 634
unpack_nas_SLQSGetSysInfo_t, 1248
unpack_nas_SLQSSysInfoCallback_ind_t, 1275
pCDMASysInfo
nasGetSysInfoResp, 602
nasSysInfo, 634
unpack_nas_SLQSGetSysInfo_t, 1248
unpack_nas_SLQSSysInfoCallback_ind_t, 1275
pCLIPResp
unpack_voice_SLQSVoiceGetCLIP_t, 1368
voiceGetCLIPResp, 1503
pCLIPstatus
unpack_voice_SLQSVoiceSUPSCallback_ind_t, 1384
voiceSUPSInfo, 1532
pCLIRCause
unpack_voice_VoiceInfoRecCallback_ind_t, 1388
voiceInfoRec, 1514
pCLIRResp
unpack_voice_SLQSVoiceGetCLIR_t, 1370
voiceGetCLIRResp, 1504
pCLIRType
pack_voice_SLQSVoiceDialCall_t, 774
voiceCallRequestParams, 1490
pCLIRstatus
unpack_voice_SLQSVoiceSUPSCallback_ind_t, 1384
voiceSUPSInfo, 1532
PCMparams, 814
iFaceTab, 814
iFaceTabLen, 814
pCNAPResp
unpack_voice_SLQSVoiceGetCNAP_t, 1371
voiceGetCNAPResp, 1505
pCNAPstatus
unpack_voice_SLQSVoiceSUPSCallback_ind_t, 1384
voiceSUPSInfo, 1532
pCOLPResp
unpack_voice_SLQSVoiceGetCOLP_t, 1372
voiceGetCOLPResp, 1507
pCOLPstatus
unpack_voice_SLQSVoiceSUPSCallback_ind_t, 1384
voiceSUPSInfo, 1532
pCOLRResp
unpack_voice_SLQSVoiceGetCOLR_t, 1374
voiceGetCOLRResp, 1508
pCOLRstatus
unpack_voice_SLQSVoiceSUPSCallback_ind_t, 1384
voiceSUPSInfo, 1532
PCSCFAddrPCO
unpack_wds_SLQSGetRuntimeSettings_t, 1416
PCSCFFQDNAddrList
unpack_wds_SLQSGetRuntimeSettings_t, 1416
PCSCFFQDNAddress, 815
fqdnAddr, 815
fqdnLen, 815
PCSCFFQDNAddressList, 815
numInstances, 815
pcsfFQDNAddress, 815
PCSCFIPv4ServerAddressList, 816
numInstances, 816
pscsfIPv4Addr, 816
pCSCFPortName
imsRegMgrConfigInfo, 347
SetRegMgrConfigReq, 957
pCSCFPortNameLen
SetRegMgrConfigReq, 957
pCSGID
_sysSelectPrefParams, 119
pack_nas_SLQSSetSysSelectionPref_t, 717
pack_nas_SLQSSetSysSelectionPrefExt_t, 726
pCUGIndex
unpack_voice_SUPSNotificationCallback_ind_t, 1386
voiceSUPSNotification, 1534
pCUGInfo
pack_voice_SLQSVoiceDialCall_t, 774
voiceCallRequestParams, 1490
pCallBarPasswd
unpack_voice_SLQSVoiceSUPSCallback_ind_t, 1384
voiceSUPSInfo, 1532
pCallBarringPasswd
pack_voice_SLQSVoiceSetSUPSService_t, 786
voiceSetSUPSServiceReq, 1528
pCallEndReason
getDUNCallInfoResp, 291
pCallFWNum
unpack_voice_SLQSVoiceSUPSCallback_ind_t, 1384
voiceSUPSInfo, 1532
pCallFWTimerVal
unpack_voice_SLQSVoiceSUPSCallback_ind_t, 1384
voiceSUPSInfo, 1532
pCallForwardingNumber
pack_voice_SLQSVoiceSetSUPSService_t, 786
voiceSetSUPSServiceReq, 1528
pCallFwdInfo

unpack_voice_SLQSVoiceSUPSCallback_ind_t, 1384
voiceSUPSInfo, 1532
pCallFwdTypeAndPlan
pack_voice_SLQSVoiceSetSUPSService_t, 786
voiceSetSUPSServiceReq, 1528
pCallID
burstDTMFInfo, 152
pack_voice_SLQSVoiceManageCalls_t, 780
pack_voice_SLQSVoiceSendFlash_t, 781
pack_voice_SLQSVoiceStartContDTMF_t, 787
unpack_voice_SLQSVoiceBurstDTMF_t, 1355
unpack_voice_SLQSVoiceDialCall_t, 1356
unpack_voice_SLQSVoiceGetCallBarring_t, 1361
unpack_voice_SLQSVoiceGetCallForwarding-Status_t, 1362
unpack_voice_SLQSVoiceGetCallWaiting_t, 1367
unpack_voice_SLQSVoiceGetCLIP_t, 1368
unpack_voice_SLQSVoiceGetCLIR_t, 1369
unpack_voice_SLQSVoiceGetCNAP_t, 1371
unpack_voice_SLQSVoiceGetCOLP_t, 1372
unpack_voice_SLQSVoiceGetCOLR_t, 1374
unpack_voice_SLQSVoiceSendFlash_t, 1377
unpack_voice_SLQSVoiceSetCallBarringPassword-_t, 1378
unpack_voice_SLQSVoiceSetSUPSService_t, 1381
unpack_voice_SLQSVoiceStartContDTMF_t, 1381
unpack_voice_SLQSVoiceSUPSCallback_ind_t, 1384
voice_burstDTMFInfo, 1446
voiceCallResponseParams, 1491
voiceContDTMFinfo, 1492
voiceFlashInfo, 1493
voiceGetCallBarringResp, 1498
voiceGetCallFWResp, 1500
voiceGetCallWaitInfo, 1502
voiceGetCLIPResp, 1503
voiceGetCLIRResp, 1504
voiceGetCNAPResp, 1505
voiceGetCOLPResp, 1506
voiceGetCOLRResp, 1508
voiceManageCallsReq, 1515
voiceSetCallBarringPwdResp, 1522
voiceSetSUPSServiceResp, 1529
voiceSUPSInfo, 1532
pCallId
pack_voice_SLQSVoiceAnswerCall_t, 771
pack_voice_SLQSVoiceEndCall_t, 774
unpack_voice_SLQSOriginateUSSD_t, 1354
unpack_voice_SLQSVoiceAnswerCall_t, 1355
unpack_voice_SLQSVoiceEndCall_t, 1357
USSResp, 1433
voiceAnswerCall, 1485
pCallInfo
unpack_voice_SLQSVoiceGetCallInfo_t, 1365
voiceCallInfoResp, 1488
pCallPartySubAdd
pack_voice_SLQSVoiceDialCall_t, 774
voiceCallRequestParams, 1490
pCallType
pack_voice_SLQSVoiceDialCall_t, 774
voiceCallRequestParams, 1490
pCallWaitInd
unpack_voice_VoiceInfoRecCallback_ind_t, 1388
voiceInfoRec, 1514
pCallbackAddr
cdmaMsgEncodingParams, 182
pCallbkAddr
cdmaMsgDecodingParams, 176
cdmaMsgDecodingParamsExt, 180
pCallbkAddrLength
cdmaMsgDecodingParams, 176
cdmaMsgDecodingParamsExt, 180
pCalledPartyInfo
unpack_voice_VoiceInfoRecCallback_ind_t, 1388
voiceInfoRec, 1514
pCallerIDInfo
unpack_voice_VoiceInfoRecCallback_ind_t, 1388
voiceInfoRec, 1514
pCallerNameInfo
unpack_voice_VoiceInfoRecCallback_ind_t, 1388
voiceInfoRec, 1514
pCallingPartyInfo
unpack_voice_VoiceInfoRecCallback_ind_t, 1388
voiceInfoRec, 1514
pCardResult
UIMAuthenticateResp, 1100
UIMGetFileAttributesResp, 1105
UIMReadTransparentResp, 1109
unpack_uim_ReadTransparent_t, 1338
unpack_uim_SLQSUIMAuthenticate_t, 1340
unpack_uim_SLQSUIMGetFileAttributes_t, 1343
pCardStatus
UIMGetCardStatusResp, 1102
unpack_uim_GetCardStatus_t, 1337
unpack_uim_SLQSUIMSetStatusChangeCall-Back_ind_t, 1345
pCcResultType
unpack_voice_SLQSOriginateUSSD_t, 1354
USSResp, 1433
pCellDataMask
pack_pds_ResetPDSData_t, 728
pCellDb
LocDelAssDataReq, 410
pack_loc_Delete_Assist_Data_t, 676
pChangeDuration
nasInitNetworkReg, 608
pack_nas_SLQSInitiateNetworkRegistration_t, 698
pChannelRate
getDUNCallInfoResp, 291
pChgDuration
_sysSelectPrefParams, 119
pack_nas_SLQSSetSysSelectionPref_t, 717
pack_nas_SLQSSetSysSelectionPrefExt_t, 726
pCiotAcqOrder

ciotAcqOrderPref, 192
CiotAcqOrderPrefTlv, 193
nas_ciotAcqOrderPref, 469
nas_CiotAcqOrderPrefTlv, 470
pCiotAcqOrderPref
_sysSelectPrefExtInfo, 108
pack_nas_SLQSSetSysSelectionPrefExt_t, 726
sysSelectPrefParamsExt, 1052
unpack_nas_SLQSGetSysSelectionPrefExt_t, 1255
pCiotLteOpMode
pack_nas_SLQSSetSysSelectionPrefExt_t, 726
sysSelectPrefParamsExt, 1052
pCiotLteOpModePref
_sysSelectPrefExtInfo, 108
pack_nas_SLQSSetSysSelectionPrefExt_t, 726
sysSelectPrefParamsExt, 1052
unpack_nas_SLQSGetSysSelectionPrefExt_t, 1255
pClkInfo
LocDelAssDataReq, 410
pack_loc_Delete_Assist_Data_t, 676
pCodecSTGain
GetAudioPathConfigResp, 281
SetAudioPathConfigReq, 941
pColorCode
nasGetHDRColorCodeResp, 596
unpack_nas_SLQSNasGetHDRColorCode_t, 1259
pConfidence
LocSetCradleMountReq, 419
pConfigAltitudeAssumed
LOCStartReq, 421
pack_loc_Start_t, 691
pConfigurationMask
pack_uim_SLQSUIMGetConfiguration_t, 762
UIMGetConfigurationReq, 1103
pConnectNumInfo
unpack_voice_SLQSVoiceGetCallInfo_t, 1365
unpack_voice_VoiceInfoRecCallback_ind_t, 1388
voiceCallInfoResp, 1488
voiceInfoRec, 1514
pConnectionRetryTimers
_SLQSAVMSSetSettingsReqPara, 89
_SLQSAVMSSetSettingsReqPara_v2, 91
_SLQSAVMSSettings, 91
_SLQSAVMSSettings_v2, 92
pConnectionStatus
getDUNCallInfoResp, 291
pContextId
swiPDPRuntimeSettingsResp, 1037
pCrashInfo
CrashInfoParams, 205
pCrashString
CrashInfo, 204
pCreateProfileOut
unpack_wds_SLQSCreateProfile_t, 1404
pCsgId
nasNetworkReject, 613
pCurAMRConfig
unpack_voice_SLQSVoiceGetConfig_t, 1376
voiceGetConfigResp, 1511
pCurDataBearerTechnology
dataBearers, 224
pCurPrefVoiceSO
unpack_voice_SLQSVoiceGetConfig_t, 1376
voiceGetConfigResp, 1511
pCurProfile
pack_wds_SLQSCreateProfile_t, 799
pCurVoiceDomainPref
unpack_voice_SLQSVoiceGetConfig_t, 1376
voiceGetConfigResp, 1511
pCurVoicePrivacyPref
unpack_voice_SLQSVoiceGetConfig_t, 1376
voiceGetConfigResp, 1511
pCurrChannelRateInd
pack_wds_SLQSWdsSetEventReport_t, 811
wdsSetEventReportReq, 1583
pCurrDataBearerTechInd
pack_wds_SLQSWdsSetEventReport_t, 811
wdsSetEventReportReq, 1583
pCurrImgInfo
CurrentImgList, 213
unpack_dms_SLQSSwiGetFirmwareCurr_t, 1174
pCurrNetworkInfo
CurrDataSysStat, 212
pCurrPrefDataSysInd
pack_wds_SLQSWdsSetEventReport_t, 811
wdsSetEventReportReq, 1583
pCurrTTYMode
unpack_voice_SLQSVoiceGetConfig_t, 1376
voiceGetConfigResp, 1511
pCurrentChannelRXRate
WdsConnectionRateElmnts, 1570
pCurrentChannelTXRate
WdsConnectionRateElmnts, 1570
pCurrentPersonality
HDRPersonalityInd, 324
HDRPersonalityResp, 324
nas_HDRPersonality_Ind_Data, 493
unpack_nas_SLQSSwiGetHDRPersonality_t, 1268
pCurrentPrsnlty
HDRProtSubtypResp, 325
unpack_nas_SLQSSwiGetHDRProtSubtype_t, 1268
pCurrentmitigationLvl
TmdGetMitigationLvlResp, 1065
pCustSettingInfo
DMSgetCustomFeatureV2, 249
getCustomFeatureV2, 286
pCustSettingList
DMSgetCustomFeatureV2, 249
getCustomFeatureV2, 286
pCustomSCP
pack_nas_SetCDMANetworkParameters_t, 694
pCwtMute
SetM2MAudioProfileReq, 953

SetM2MAVMuteReq, 954
pCycleLen
nasGeteDRXParamsResp, 596
nasSeteDRXParamsReq, 628
pack_nas_SLQSNASSeteDRXParams_t, 708
unpack_nas_SLQSNASGeteDRXParams_t, 1259
pDDTMInd
nasIndicationRegisterReq, 607
pack_nas_SLQSNasIndicationRegisterExt_t, 706
pDHCPRelayEnabled
custFeaturesInfo, 220
custFeaturesSetting, 222
PDOP
loc_precisionDilution, 402
precisionDilution_s, 834
PDPType
unpack_wds_SLQSGetRuntimeSettings_t, 1416
pDRCParams
GetHRPDStatsResp, 294
unpack_nas_SLQSSwiGetHRPDStats_t, 1269
PDS_SRV
qaGobiApiCbk.h, 1765
PDSInjectTimeReference
qaGobiApiPds.h, 1989
PDSPosMethodStateReq, 818
pWifiState, 819
pXtraDataState, 819
pXtraTimeState, 819
PDSPositionData, 816
pAltitudeWrtEllipsoid, 818
pAltitudeWrtSealevel, 818
pHorizontalConfidence, 818
pHorizontalUncCircular, 818
pLatitude, 818
pLongitude, 818
pPositionSource, 818
pTimeStamp, 818
pTimeType, 818
pVerticalConfidence, 818
pVerticalUnc, 818
pDTMFTXGain
GetAudioPathConfigResp, 282
SetAudioPathConfigReq, 941
pDataBearer
QosEventInfo, 897
slqsWdsEventInfo, 987
unpack_wds_GetDataBearerTechnology_t, 1392
pDataBearerTech
getDUNCallInfoResp, 291
pDataBearerTechInd
pack_wds_SLQSWdsSetEventReport_t, 811
wdsSetEventReportReq, 1583
pDataCallStatusChangeInd
pack_wds_SLQSWdsSetEventReport_t, 811
wdsSetEventReportReq, 1583
pDataMode
LibpackProfile3GPP2, 371
LibPackprofile_3GPP2, 382
Profile3GPP2, 848
pDataRate
LibpackProfile3GPP2, 371
LibPackprofile_3GPP2, 382
Profile3GPP2, 848
swiQosFlow, 1043
pDataSrc
unpack_voice_SLQSVoiceSUPSCallback_ind_t, 1384
voiceSUPSInfo, 1532
pDataStatusDetail
NetworkDebugResp, 638
unpack_nas_SLQSSwiNetworkDebug_t, 1272
pDataSystemStatusChangeInd
pack_wds_SLQSWdsSetEventReport_t, 811
wdsSetEventReportReq, 1583
pDate
_SLQSOMADMSessionInfo, 97
pDateLength
_SLQSOMADMSessionInfo, 97
pDayltSavAdj
nasNetworkTime, 614
unpack_nas_SLQSNasNetworkTimeCallBack_ind_t, 1263
pDefaultPDNEnabled
_slqs3GPPConfigItem, 87
pack_wds_SLQSSet3GPPConfigItem_t, 805
pDeferTime
pack_swioma_SLQSOMADMSendSelection_t, 755
pDesription
QmiNas3GppNetworkInfo, 887
pDestAddr
cdmaMsgEncodingParams, 182
wcdmaMsgEncodingParams, 1540
pDestSMSContent
getDyingGaspCfg, 292
pack_dms_SLQSSwiSetDyingGaspCfg_t, 667
packgetDyingGaspCfg, 813
setDyingGaspCfg, 946
pDestSMSNum
getDyingGaspCfg, 292
pack_dms_SLQSSwiSetDyingGaspCfg_t, 667
packgetDyingGaspCfg, 813
setDyingGaspCfg, 946
pDetachAction
pack_nas_SLQSSwiPSDetach_t, 727
PSDetachReq, 851
pDevCrashStatus
CrashInfoParams, 205
pDeviceConfigDetail
NetworkDebugResp, 638
unpack_nas_SLQSSwiNetworkDebug_t, 1272
pDiagInfo
unpack_voice_SLQSVoiceGetCallInfo_t, 1365
voiceCallInfoResp, 1488
pDigitBuff
burstDTMFInfo, 152

voice_burstDTMFInfo, 1446
pDirNum
nasGet3GPP2SubscriptionInfoResp, 595
unpack_nas_SLQSNasGet3GPP2Subscription_t, 1257
pDisableIMSI
custFeaturesInfo, 220
pDispInfo
unpack_voice_VoiceInfoRecCallback_ind_t, 1388
voiceInfoRec, 1514
pDisplayMode
cdmaMsgDecodingParams, 176
cdmaMsgDecodingParamsExt, 180
pDomainList
qmiWdsRunTimeSettings, 893
pDormancyStatus
getDUNCallInfoResp, 291
slqsWdsEventInfo, 987
pDormancyStatusInd
pack_wds_SLQSWdsSetEventReport_t, 812
wdsSetEventReportReq, 1583
pDualStandByPrefInd
nasIndicationRegisterReq, 607
pack_nas_SLQSNasIndicationRegisterExt_t, 706
pDuration
unpack_pds_GetXTRAValidity_t, 1283
pDurationDueToOOS
PowerSaveModeConfigResp, 834
unpack_dms_SLQSGetPowerSaveModeConfig_t, 1170
pDurationThreshold
PowerSaveModeConfigResp, 834
unpack_dms_SLQSGetPowerSaveModeConfig_t, 1170
pECIOThresList
ECIOThresh, 259
nas_ECIOThresh, 481
pECIOThresh
pack_nas_SLQSConfigSigInfo_t, 697
sigInfo, 966
pECMode
GetAudioPathConfigResp, 282
SetAudioPathConfigReq, 942
pECTNum
unpack_voice_SUPSNotificationCallback_ind_t, 1386
voiceSUPSNotification, 1534
PER
nas_NetworkStatEVDO, 530
NetworkStatEVDO, 642
pESNString
serialNumbersInfo, 934
pEVDOPageMonPerChangeInd
pack_wds_SLQSWdsSetEventReport_t, 812
wdsSetEventReportReq, 1583
pEarMute
SetM2MAudioProfileReq, 953
pEarlyWakeupTime
PowerSaveModeConfigResp, 834
unpack_dms_SLQSGetPowerSaveModeConfig_t, 1170
pEdrxEnable
nasGeteDRXParamsResp, 596
nasSeteDRXParamsReq, 628
pack_nas_SLQSNASSeteDRXParams_t, 708
unpack_nas_SLQSNASGeteDRXParams_t, 1259
pEhrpdMTUSize
SwiDmsGetMTUResp, 1029
unpack_swidms_SLQSSwiDmsGetMTU_t, 1327
pEmerMode
_sysSelectPrefInfo, 113
_sysSelectPrefParams, 119
pack_nas_SLQSSetSysSelectionPref_t, 717
pack_nas_SLQSSetSysSelectionPrefExt_t, 726
unpack_nas_SLQSGetSysSelectionPref_t, 1253
unpack_nas_SLQSGetSysSelectionPrefExt_t, 1255
pEmergencyCategory
pack_voice_SLQSVoiceDialCall_t, 774
voiceCallRequestParams, 1490
pEnableNotification
pack_wds_DHCPv4ClientLeaseChange_t, 788
WdsClientLeaseChange, 1568
pEnableState
dmsPsmCfgParamChange, 251
pEnabled
pack_wds_SetMobileIPProfile_t, 798
pEnabledStatus
unpack_pds_GetPDSState_t, 1281
pEncodingAlphabet
cdmaMsgEncodingParams, 182
pEncryptData
pack_uim_ReadTransparent_t, 759
UIMReadTransparentReq, 1108
pEncryptedData
UIMReadTransparentResp, 1109
unpack_uim_ReadTransparent_t, 1338
pEncryptedPIN1
pack_uim_VerifyPin_t, 768
UIMPinResp, 1106
UIMVerifyPinReq, 1120
unpack_uim_ChangePin_t, 1336
unpack_uim_SetPinProtection_t, 1339
unpack_uim_UnblockPin_t, 1345
unpack_uim_VerifyPin_t, 1346
pError
USSDNoWaitIndicationInfo, 1431
pErrorCodeStr
imsaRatStatusInfo, 339
pErrorMask
CATEventDataType, 169
pErrorRateInd
nasIndicationRegisterReq, 607
pack_nas_SLQSNasIndicationRegisterExt_t, 707
pEspSpi
swiQosFilter, 1039

pEtwsMessageInfo
SMSEventInfo_s, 1008
pEtwsPlmnInfo
SMSEventInfo_s, 1008
pExtDispInfo
unpack_voice_VoiceInfoRecCallback_ind_t, 1388
voiceInfoRec, 1514
pExtDispRecInfo
unpack_voice_VoiceInfoRecCallback_ind_t, 1388
voiceInfoRec, 1514
pExtErrCode
_GetProfileSettingOut, 69
UnPackGetProfileSettingOut, 1426
pExtErrorCode
CreateProfileOut, 208
ModifyProfileOut, 451
unpack_wds_SLQSModifyProfile_t, 1417
pFOTAUpdate
_SLQSOMADMSettings, 99
pFOTAdownload
_SLQSOMADMSettings, 99
pFailCause
unpack_voice_SLQSVoiceGetCallBarring_t, 1361
unpack_voice_SLQSVoiceGetCallForwarding-Status_t, 1362
unpack_voice_SLQSVoiceGetCallWaiting_t, 1367
unpack_voice_SLQSVoiceGetCLIP_t, 1368
unpack_voice_SLQSVoiceGetCLIR_t, 1370
unpack_voice_SLQSVoiceGetCNAP_t, 1371
unpack_voice_SLQSVoiceGetCOLP_t, 1372
unpack_voice_SLQSVoiceGetCOLR_t, 1374
unpack_voice_SLQSVoiceManageCalls_t, 1376
unpack_voice_SLQSVoiceSetCallBarringPassword-_t, 1378
unpack_voice_SLQSVoiceSetSUPSService_t, 1381
unpack_voice_SLQSVoiceSUPSCallback_ind_t, 1384
voiceGetCallBarringResp, 1498
voiceGetCallFWResp, 1500
voiceGetCallWaitInfo, 1502
voiceGetCLIPResp, 1503
voiceGetCLIRResp, 1504
voiceGetCNAPResp, 1505
voiceGetCOLPResp, 1507
voiceGetCOLRResp, 1508
voiceManageCallsResp, 1516
voiceSetCallBarringPwdResp, 1522
voiceSetSUPSServiceResp, 1529
voiceSUPSInfo, 1532
pFailErrorCode
imsaPdpStatusInfo, 338
pFailureCause
USSDNoWaitIndicationInfo, 1431
pFailureReason
unpack_wds_SLQSStartDataSession_t, 1423
pFile
ERIFileparams, 262
pFileAttributes
UIMGetFileAttributesResp, 1105
unpack_uim_SLQSUIMGetFileAttributes_t, 1343
pFileSize
ERIFileparams, 262
pFixId
QmiCbkLocPositionReportInd, 879
unpack_loc_PositionRpt_Ind_t, 1211
pFlag
RXPCMIIRFltr, 923
TXPCMIIRFltr, 1073
pFlashPayLd
pack_voice_SLQSVoiceSendFlash_t, 781
voiceFlashInfo, 1493
pFlashType
pack_voice_SLQSVoiceSendFlash_t, 781
voiceFlashInfo, 1493
pFollowOnDC
slqssendasyncsmsparams_s, 978
sms_sendAsyncsmsParams, 998
pForbidden
QmiNas3GppNetworkInfo, 887
pForceOnDC
slqssendasyncsmsparams_s, 978
sms_sendAsyncsmsParams, 998
pForceRev0
pack_nas_SetCDMANetworkParameters_t, 694
pFwAutoCheck
_SLQSOMADMSettings, 99
_SLQSOMADMSettingsReqParams3, 101
pack_swioma_SLQSOMADMSetSettings_t, 756
pFwAutoSDM
_SLQSAVMSSetSettingsReqPara, 89
_SLQSAVMSSetSettingsReqPara_v2, 91
_SLQSAVMSSettings, 91
_SLQSAVMSSettings_v2, 92
pFwPromptUpdate
_SLQSAVMSSetSettingsReqPara, 89
_SLQSAVMSSetSettingsReqPara_v2, 91
_SLQSAVMSSettings, 91
_SLQSAVMSSettings_v2, 92
pFwPromptdownload
_SLQSAVMSSetSettingsReqPara, 89
_SLQSAVMSSetSettingsReqPara_v2, 91
_SLQSAVMSSettings, 91
_SLQSAVMSSettings_v2, 92
pGCDumpString
CrashInfo, 204
pGERANInfo
nasCellLocationInfoResp, 593
unpack_nas_SLQSNasGetCellLocationInfo_t, 1258
pGPRSGrantedQoS
qmiWdsRunTimeSettings, 893
pGPRSMinimumQoS
LibpackProfile3GPP, 365
LibPackprofile_3GPP, 377
Profile3GPP, 842

pGPRSRequestedQos
LibpackProfile3GPP, 365
LibPackprofile_3GPP, 377
Profile3GPP, 842
pGPSDataMask
pack_pds_ResetPDSData_t, 728
pGPSEnable
custFeaturesSetting, 222
pGPSLPM
custFeaturesInfo, 220
custFeaturesSetting, 222
pGPSSel
custFeaturesInfo, 220
custFeaturesSetting, 222
pGPSWeek
unpack_pds_GetXTRAValidity_t, 1283
pGPSWeekOffset
unpack_pds_GetXTRAValidity_t, 1283
pGSMBER
GetErrRateResp, 293
unpack_nas_SLQSGetErrorRate_t, 1234
pGSMCallBarringSysInfo
nasGetSysInfoResp, 602
nasSysInfo, 634
unpack_nas_SLQSGetSysInfo_t, 1248
unpack_nas_SLQSSysInfoCallback_ind_t, 1275
pGSMCipherDomainSysInfo
nasGetSysInfoResp, 602
nasSysInfo, 634
unpack_nas_SLQSGetSysInfo_t, 1248
unpack_nas_SLQSSysInfoCallback_ind_t, 1275
pGSMRSSIDelta
pack_nas_SLQSNasConfigSigInfo2_t, 702
setSignalStrengthInfo, 961
pGSMRSSIThresh
pack_nas_SLQSNasConfigSigInfo2_t, 702
setSignalStrengthInfo, 961
pGSMRSSIThreshList
GSMRSSIThresh, 317
nas_GSMRSSIThresh, 487
pGSMSSInfo
nasGetSigInfoResp, 600
pGSMSigInfo
nasSigInfo, 629
unpack_nas_SLQSNasSigInfoCallback_ind_t, 1264
pGSMSrvStatusInfo
nasGetSysInfoResp, 602
nasSysInfo, 634
unpack_nas_SLQSGetSysInfo_t, 1248
unpack_nas_SLQSSysInfoCallback_ind_t, 1275
pGSMSysInfo
nasGetSysInfoResp, 602
nasSysInfo, 634
unpack_nas_SLQSGetSysInfo_t, 1248
unpack_nas_SLQSSysInfoCallback_ind_t, 1275
pGWAcqOrderPref
_sysSelectPrefInfo, 113
_sysSelectPrefParams, 119
pack_nas_SLQSSetSysSelectionPref_t, 717
pack_nas_SLQSSetSysSelectionPrefExt_t, 726
unpack_nas_SLQSGetSysSelectionPref_t, 1253
unpack_nas_SLQSGetSysSelectionPrefExt_t, 1255
pGWAddressV4
qmiWdsRunTimeSettings, 893
pGenerator
GetM2MAudioProfileReq, 299
SetM2MAudioProfileReq, 953
pGetCallFWExtInfo
unpack_voice_SLQSVoiceGetCallForwarding-Status_t, 1362
voiceGetCallFWResp, 1500
pGetCallFWInfo
unpack_voice_SLQSVoiceGetCallForwarding-Status_t, 1362
voiceGetCallFWResp, 1500
pGetCustomInput
DMSgetCustomFeatureV2, 249
getCustomFeatureV2, 286
pGetDyingGaspCfg
unpack_dms_SLQSSwiGetDyingGaspCfg_t, 1172
pGetDyingGaspStatistics
unpack_dms_SLQSSwiGetDyingGaspStatistics_t, 1173
pGetIndicationRegInfo
unpack_sms_SLQSGetIndicationRegister_t, 1318
pGetMsgWaitingInfoResp
unpack_sms_SLQSGetMessageWaiting_t, 1318
pGetTransLayerInfo
unpack_sms_SLQSGetTransLayerInfo_t, 1321
pGetTransNWRegInfo
unpack_sms_SLQSGetTransNWRegInfo_t, 1321
pGnssData
LocDelAssDataReq, 410
pack_loc_Delete_Assist_Data_t, 677
pGpsTime
QmiCbkLocBestAvailPosInd, 865
QmiCbkLocPositionReportInd, 879
unpack_loc_BestAvailPos_Ind_t, 1193
unpack_loc_PositionRpt_Ind_t, 1211
pGyroAcceptReady
QmiCbkLocSensorStreamingInd, 880
unpack_loc_SensorStreamingCallback_Ind_t, 1213
pGyroData
LocInjectSensorDataReq, 418
pGyroSamplesAccepted
QmiCbkLocInjectSensorDataInd, 871
unpack_loc_InjectSensorDataCallback_Ind_t, 1203
pGyroTempAcceptReady
QmiCbkLocSensorStreamingInd, 881
unpack_loc_SensorStreamingCallback_Ind_t, 1213
pGyroTempData

LocInjectSensorDataReq, 418
pGyroTempSamplesAccepted
QmiCbkLocInjectSensorDataInd, 871
unpack_loc_InjectSensorDataCallback_Ind_t, 1203
pGyroTimeSrc
LocInjectSensorDataReq, 418
pHA2002bis
pack_wds_SetMobileIPParameters_t, 796
pHAAuthenticator
pack_wds_SetMobileIPParameters_t, 796
pHASPI
pack_wds_SetMobileIPProfile_t, 798
pHDRECIODelta
pack_nas_SLQSNasConfigSigInfo2_t, 702
setSignalStrengthInfo, 961
pHDRECIOThresh
pack_nas_SLQSNasConfigSigInfo2_t, 702
setSignalStrengthInfo, 961
pHDRECIOThreshList
HDRECIOThresh, 323
nas_HDRECIOThresh, 492
pHDRIODelta
pack_nas_SLQSNasConfigSigInfo2_t, 702
setSignalStrengthInfo, 961
pHDRIOThresh
pack_nas_SLQSNasConfigSigInfo2_t, 702
setSignalStrengthInfo, 961
pHDRIOThreshList
HDRIOThresh, 323
nas_HDRIOThresh, 492
pHDRNewUATIAssInd
nasIndicationRegisterReq, 607
pack_nas_SLQSNasIndicationRegisterExt_t, 707
pHDRPackErrRate
GetErrRateResp, 293
unpack_nas_SLQSGetErrorRate_t, 1234
pHDRPersInd
unpack_nas_SLQSSwiHDRPersonalityCallback_Ind_t, 1271
pHDRRSSIDelta
pack_nas_SLQSNasConfigSigInfo2_t, 702
setSignalStrengthInfo, 961
pHDRRSSIThresh
pack_nas_SLQSNasConfigSigInfo2_t, 702
setSignalStrengthInfo, 961
pHDRRSSIThreshList
HDRRSSIThresh, 326
nas_HDRRSSIThresh, 493
pHDRSINRDelta
pack_nas_SLQSNasConfigSigInfo2_t, 702
setSignalStrengthInfo, 961
pHDRSINRThresList
HDRSINRThresh, 326
nas_HDRSINRThresh, 494
pHDRSINRThresh
pack_nas_SLQSConfigSigInfo_t, 697
pack_nas_SLQSNasConfigSigInfo2_t, 702
setSignalStrengthInfo, 961
sigInfo, 966
pHDRSINRThreshList
HDRSINRThreshold, 327
nas_HDRSINRThreshold, 495
pHDRSSInfo
nasGetSigInfoResp, 600
pHDRSessionCloseInd
nasIndicationRegisterReq, 607
pack_nas_SLQSNasIndicationRegisterExt_t, 707
pHDRSigInfo
nasSigInfo, 629
unpack_nas_SLQSNasSigInfoCallback_ind_t, 1264
pHDRSrvStatusInfo
nasGetSysInfoResp, 603
nasSysInfo, 634
unpack_nas_SLQSGetSysInfo_t, 1248
unpack_nas_SLQSSysInfoCallback_ind_t, 1275
pHDRSysInfo
nasGetSysInfoResp, 603
nasSysInfo, 634
unpack_nas_SLQSGetSysInfo_t, 1248
unpack_nas_SLQSSysInfoCallback_ind_t, 1275
pHaltSubscription
UIMGetConfigurationResp, 1104
unpack_uim_SLQSUIMGetConfiguration_t, 1342
pHeading
QmiCbkLocBestAvailPosInd, 865
QmiCbkLocPositionReportInd, 879
unpack_loc_BestAvailPos_Ind_t, 1193
unpack_loc_PositionRpt_Ind_t, 1211
pHeadingUnc
QmiCbkLocBestAvailPosInd, 865
QmiCbkLocPositionReportInd, 879
unpack_loc_BestAvailPos_Ind_t, 1193
unpack_loc_PositionRpt_Ind_t, 1211
pHomeSIDNID
nasGet3GPP2SubscriptionInfoResp, 595
unpack_nas_SLQSNasGet3GPP2Subscription_t, 1257
pHorCirConf
QmiCbkLocBestAvailPosInd, 865
unpack_loc_BestAvailPos_Ind_t, 1193
pHorConfidence
LocInjectPositionReq, 416
QmiCbkLocPositionReportInd, 879
unpack_loc_PositionRpt_Ind_t, 1211
pHorEllpConf
QmiCbkLocBestAvailPosInd, 865
unpack_loc_BestAvailPos_Ind_t, 1193
pHorReliability
LocInjectPositionReq, 417
QmiCbkLocBestAvailPosInd, 865
QmiCbkLocPositionReportInd, 879
unpack_loc_BestAvailPos_Ind_t, 1193
unpack_loc_PositionRpt_Ind_t, 1211
pHorUncCircular

LocInjectPositionReq, 417
QmiCbkLocBestAvailPosInd, 865
QmiCbkLocPositionReportInd, 879
unpack_loc_BestAvailPos_Ind_t, 1193
unpack_loc_PositionRpt_Ind_t, 1211
pHorUncEllipseOrientAzimuth
QmiCbkLocBestAvailPosInd, 865
QmiCbkLocPositionReportInd, 879
unpack_loc_BestAvailPos_Ind_t, 1194
unpack_loc_PositionRpt_Ind_t, 1211
pHorUncEllipseSemiMajor
QmiCbkLocBestAvailPosInd, 865
QmiCbkLocPositionReportInd, 879
unpack_loc_BestAvailPos_Ind_t, 1194
unpack_loc_PositionRpt_Ind_t, 1211
pHorUncEllipseSemiMinor
QmiCbkLocBestAvailPosInd, 865
QmiCbkLocPositionReportInd, 879
unpack_loc_BestAvailPos_Ind_t, 1194
unpack_loc_PositionRpt_Ind_t, 1211
pHorizontalAccuracyLvl
LOCStartReq, 421
pack_loc_Start_t, 691
pHorizontalConfidence
pack_pds_SLQSPDSInjectPositionData_t, 735
PDSPositionData, 818
pHorizontalUncCircular
pack_pds_SLQSPDSInjectPositionData_t, 735
PDSPositionData, 818
pHotSwapStatus
UIMGetCardStatusResp, 1102
unpack_uim_GetCardStatus_t, 1337
pHrpdMTUSize
SwiDmsGetMTUResp, 1029
unpack_swidms_SLQSSwiDmsGetMTU_t, 1327
pHwConfig
pack_wds_SLQSSSetDHCPv4ClientConfig_t, 808
unpack_wds_SLQSSGetDHCPv4ClientConfig_t, 1421
WdsDHCPv4Config, 1571
PI
calledPartyInfo, 156
callerIDInfo, 157
callFWExtInfo, 160
callingPartyInfo, 164
redirNumInfo, 904
voice_calledPartyInfo, 1448
voice_callerIDInfo, 1449
voice_callFWExtInfo, 1452
voice_callingPartyInfo, 1456
voice_redirNumInfo, 1477
PIFACEId
SetM2MAudioAVCFGReq, 951
pIMCNflag
qmiWdsRunTimeSettings, 893
pIMEIString
serialNumbersInfo, 934
pIMSDomain
GetIMSUserConfigParams, 296
imsUserConfigInfo, 349
SetIMSUserConfigReq, 947
pIMSDomainLen
GetIMSUserConfigParams, 296
SetIMSUserConfigReq, 947
pIMSTestMode
GetRegMgrConfigParams, 305
imsRegMgrConfigInfo, 347
SetRegMgrConfigReq, 957
pIOThresList
IOThresh, 354
nas_IOThresh, 499
pIOThresh
pack_nas_SLQSConfigSigInfo_t, 697
sigInfo, 966
pIPAddressV4
QmiWdsIpAddressInfo, 890
qmiWdsRunTimeSettings, 893
pIPAddressV6
QmiWdsIpAddressInfo, 890
pIPFamSupport
custFeaturesInfo, 220
pIPFamily
GetInstIDResp, 298
pIPFamilyPreference
qmiWdsRunTimeSettings, 893
pIPV6AddrInfo
qmiWdsRunTimeSettings, 893
pIPV6GWAddrInfo
qmiWdsRunTimeSettings, 893
pIPv4Addr
WdsDHCPv4ClientLeaseInd, 1570
pIPv4AddrInfo
QmiCbkLocGetServerInd, 869
unpack_loc_GetServer_Ind_t, 1200
pIPv4AddrPref
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 377
Profile3GPP, 842
pIPv4Address
swiPDPRuntimeSettingsResp, 1037
pIPv4Config
LocSetServerReq, 420
pack_loc_SLQSLOCSetServer_t, 690
pIPv4DstAddr
swiQosFilter, 1039
pIPv4GWAddress
swiPDPRuntimeSettingsResp, 1037
pIPv4SrcAddr
swiQosFilter, 1039
pIPv6AddPref
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 377
Profile3GPP, 842
pIPv6AddrInfo
QmiCbkLocGetServerInd, 869
unpack_loc_GetServer_Ind_t, 1200

pIPv6Address
swiPDPRuntimeSettingsResp, 1037
pIPv6Config
LocSetServerReq, 420
pack_loc_SLQSLOCSetServer_t, 690
pIPv6DstAddr
swiQosFilter, 1039
pIPv6GWAddress
swiPDPRuntimeSettingsResp, 1037
pIPv6Label
swiQosFilter, 1039
pIPv6SrcAddr
swiQosFilter, 1039
pIPv6TrafCls
swiQosFilter, 1039
pIPv6prefixlen
QmiWdsIpAddressInfo, 890
pId
swiQosFilter, 1039
pIds
swiQosIds, 1044
pIgnoreHotSwapSwitch
pack_uim_SLQSUIMPowerUp_t, 764
UIMPowerUpReq, 1107
pImCnFlag
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 377
Profile3GPP, 842
pImageList
pack_fms_SetImagesPreference_t, 676
unpack_fms_GetImagesPreference_t, 1186
pImeiSvnString
serialNumbersInfo, 934
pImgType
FirmwareUpdatStat, 270
pImsRegErrCode
IMSARegistrationStatus, 340
pImsRegStatus
IMSARegistrationStatus, 340
imsaRegStatusInfo, 340
pInUse
QmiNas3GppNetworkInfo, 887
pIndFieldsList
IMSASupportedFieldsResp, 343
pIndicationToken
pack_uim_ChangePin_t, 758
pack_uim_ReadTransparent_t, 759
pack_uim_SetPinProtection_t, 760
pack_uim_SLQSUIMAuthenticate_t, 761
pack_uim_SLQSUIMGetFileAttributes_t, 763
pack_uim_UnblockPin_t, 767
pack_uim_VerifyPin_t, 768
UIMAuthenticateReq, 1099
UIMAuthenticateResp, 1100
UIMChangePinReq, 1100
UIMGetFileAttributesReq, 1104
UIMGetFileAttributesResp, 1105
UIMPinResp, 1106
UIMReadTransparentReq, 1108
UIMReadTransparentResp, 1109
UIMSetPinProtectionReq, 1115
UIMUnblockPinReq, 1119
UIMVerifyPinReq, 1120
unpack_uim_ChangePin_t, 1336
unpack_uim_ReadTransparent_t, 1338
unpack_uim_SetPinProtection_t, 1339
unpack_uim_SLQSUIMAuthenticate_t, 1340
unpack_uim_SLQSUIMGetFileAttributes_t, 1343
unpack_uim_UnblockPin_t, 1345
unpack_uim_VerifyPin_t, 1346
pInfo
pack_voice_AnswerUSSD_t, 769
pack_voice_OriginateUSSD_t, 769
pInstanceID
GetInstIDResp, 298
pInstanceSize
nas_RfBandInfoList, 553
QmiNasPerformNetworkScanResp, 888
RfBandInfoList, 911
pInstances
QmiNasPerformNetworkScanResp, 888
pInstancesSize
nas_RfBandInfoExtFormat, 552
nas_RfBandwidthInfo, 554
nas_RfDedicatedBandInfo, 555
QmiNasGetRFBandInfoResp, 887
RfBandInfoExtFormat, 910
RfBandwidthInfo, 912
RfDedicatedBandInfo, 913
pIntermediateReportState
LOCStartReq, 421
pack_loc_Start_t, 691
pInterval
unpack_pds_GetPDSDefaults_t, 1280
unpack_pds_GetXTRAAutomaticDownload_t, 1282
pIpcpAckTimeout
LibpackProfile3GPP2, 371
LibPackprofile_3GPP2, 382
Profile3GPP2, 848
pIpcpCreqRetryCount
LibpackProfile3GPP2, 371
LibPackprofile_3GPP2, 383
Profile3GPP2, 848
pIsPcscfAddressNedded
LibpackProfile3GPP2, 371
LibPackprofile_3GPP2, 383
Profile3GPP2, 848
pIsUDHPresent
cdmaMsgDecodingParamsExt, 180
wcdmaLongMsgDecodingParams, 1537
pIsVoiceEnabled
custFeaturesInfo, 220
custFeaturesSetting, 222
pJitter
swiQosFlow, 1043

pKeyReferenceID
pack_uim_ChangePin_t, 758
pack_uim_SetPinProtection_t, 760
pack_uim_UnblockPin_t, 767
pack_uim_VerifyPin_t, 768
UIMChangePinReq, 1100
UIMSetPinProtectionReq, 1115
UIMUnblockPinReq, 1119
UIMVerifyPinReq, 1120
PLMN_LENGTH
qaGobiApiNas.h, 1936
PLMNData
nas_operatorPLMNList, 535
operatorPLMNList, 657
PLMNName
nas_operatorNameString, 533
operatorNameString, 655
PLMNNetName
nas_PLMNNetworkName, 542
PLMNNetworkName, 830
PLMNNetworkName, 829
numInstance, 830
PLMNNetName, 830
PLMNNetworkNameData, 830
codingScheme, 831
countryInitials, 831
longName, 831
longNameLen, 831
longNameSpareBits, 831
shortName, 831
shortNameLen, 831
shortNameSpareBits, 832
PLMNRecID
nas_OperatorPLMNData, 534
OperatorPLMNData, 656
pLTEAttachProfile
_slqs3GPPConfigItem, 87
pack_wds_SLQSSet3GPPConfigItem_t, 805
pLTEAttachProfileList
_slqs3GPPConfigItem, 87
pack_wds_SLQSSet3GPPConfigItem_t, 805
pLTEBandPref
_sysSelectPrefInfo, 113
_sysSelectPrefParams, 119
pack_nas_SLQSSetSysSelectionPref_t, 717
pack_nas_SLQSSetSysSelectionPrefExt_t, 726
unpack_nas_SLQSGetSysSelectionPref_t, 1253
unpack_nas_SLQSGetSysSelectionPrefExt_t, 1255
pLTECphyCa
nasIndicationRegisterReq, 607
pack_nas_SLQSNasIndicationRegisterExt_t, 707
pLTEInfo
swiModemStatusResp, 1034
unpack_nas_SLQSNasSwiModemStatus_t, 1265
pLTEInfoInterfreq
nasCellLocationInfoResp, 593
unpack_nas_SLQSNasGetCellLocationInfo_t, 1258
pLTEInfoIntrafreq
nasCellLocationInfoResp, 593
unpack_nas_SLQSNasGetCellLocationInfo_t, 1258
pLTEInfoNeighboringGSM
nasCellLocationInfoResp, 593
unpack_nas_SLQSNasGetCellLocationInfo_t, 1258
pLTEInfoNeighboringWCDMA
nasCellLocationInfoResp, 593
unpack_nas_SLQSNasGetCellLocationInfo_t, 1258
pLTEOperationMode
LTEOperationMode, 435
nas_LTEOperationMode, 513
NasGetRFInfoResp, 599
QmiNasGetRFBandInfoResp, 887
unpack_nas_SLQSNasGetRFInfo_t, 1260
pLTERSRPDelta
pack_nas_SLQSNasConfigSigInfo2_t, 702
setSignalStrengthInfo, 961
pLTERSRPThresh
pack_nas_SLQSNasConfigSigInfo2_t, 703
setSignalStrengthInfo, 961
pLTERSRPThreshList
LTERSRPThresh, 437
nas_LTERSRPThresh, 515
pLTERSRQDelta
pack_nas_SLQSNasConfigSigInfo2_t, 703
setSignalStrengthInfo, 961
pLTERSRQThresh
pack_nas_SLQSNasConfigSigInfo2_t, 703
setSignalStrengthInfo, 961
pLTERSRQThreshList
LTERSRQThresh, 437
nas_LTERSRQThresh, 515
pLTERSSIDelta
pack_nas_SLQSNasConfigSigInfo2_t, 703
setSignalStrengthInfo, 962
pLTERSSIThresh
pack_nas_SLQSNasConfigSigInfo2_t, 703
setSignalStrengthInfo, 962
pLTERSSIThreshList
LTERSSIThresh, 438
nas_LTERSSIThresh, 516
pLTESNRDelta
pack_nas_SLQSNasConfigSigInfo2_t, 703
setSignalStrengthInfo, 962
pLTESNRThresList
LTESNRThresh, 441
nas_LTESNRThresh, 518
pLTESNRThresh
pack_nas_SLQSConfigSigInfo_t, 697
pack_nas_SLQSNasConfigSigInfo2_t, 703
setSignalStrengthInfo, 962
sigInfo, 966

pLTESNRThreshList
LTESNRThreshold, 442
nas_LTESNRThreshold, 519
pLTESSInfo
nasGetSigInfoResp, 600
pLTESigInfo
nasSigInfo, 629
unpack_nas_SLQSNasSigInfoCallback_ind_t, 1264
pLTESigRptCfg
pack_nas_SLQSConfigSigInfo_t, 697
sigInfo, 966
pLTESigRptConfig
pack_nas_SLQSNasConfigSigInfo2_t, 703
setSignalStrengthInfo, 962
pLTESrvStatusInfo
nasGetSysInfoResp, 603
nasSysInfo, 634
unpack_nas_SLQSGetSysInfo_t, 1248
unpack_nas_SLQSSysInfoCallback_ind_t, 1275
pLTESysInfo
nasGetSysInfoResp, 603
nasSysInfo, 634
unpack_nas_SLQSGetSysInfo_t, 1248
unpack_nas_SLQSSysInfoCallback_ind_t, 1275
pLTEVoiceSupportSysInfo
nasGetSysInfoResp, 603
nasSysInfo, 634
unpack_nas_SLQSGetSysInfo_t, 1248
unpack_nas_SLQSSysInfoCallback_ind_t, 1275
pLanguage
cdmaMsgDecodingParams, 176
cdmaMsgDecodingParamsExt, 180
pLastBearerTech
DataBearerTechExt, 227
pLastCallDataBearerTech
getDUNCallInfoResp, 291
pLastCallDataBearerTechnology
dataBearers, 224
pLastCallRXOKBytesCnt
getDUNCallInfoResp, 291
pLastCallTXOKBytesCnt
getDUNCallInfoResp, 291
pLatency
swiQosFlow, 1043
pLatitude
LocInjectPositionReq, 417
pack_pds_SLQSPDSInjectPositionData_t, 735
PDSPositionData, 818
QmiCbkLocBestAvailPosInd, 865
QmiCbkLocPositionReportInd, 879
unpack_loc_BestAvailPos_Ind_t, 1194
unpack_loc_PositionRpt_Ind_t, 1211
pLcpAckTimeout
LibpackProfile3GPP2, 371
LibPackprofile_3GPP2, 383
Profile3GPP2, 848
pLcpCreqRetryCount
LibpackProfile3GPP2, 371
LibPackprofile_3GPP2, 383
Profile3GPP2, 848
pLeapSeconds
QmiCbkLocPositionReportInd, 879
unpack_loc_PositionRpt_Ind_t, 1211
pLeaseState
WdsDHCPv4ClientLeaseInd, 1570
pLineCtrlInfo
unpack_voice_VoiceInfoRecCallback_ind_t, 1388
voiceInfoRec, 1514
pLinktimer
pack_sms_SendSMS_t, 743
slqssendasyncsmsparams_s, 978
slqssendsmsparams_s, 979
sms_sendAsyncsmsParams, 998
pLogString
FirmwareUpdatStat, 270
pLogStringLen
FirmwareUpdatStat, 271
pLongitude
LocInjectPositionReq, 417
pack_pds_SLQSPDSInjectPositionData_t, 735
PDSPositionData, 818
QmiCbkLocBestAvailPosInd, 865
QmiCbkLocPositionReportInd, 879
unpack_loc_BestAvailPos_Ind_t, 1194
unpack_loc_PositionRpt_Ind_t, 1211
pLoopbackMode
WDSSetLoopbackData, 1584
pLoopbackMultiplier
WDSSetLoopbackData, 1584
pLpmFlag
dmsSwiGetPCInfo, 253
pLteBandCapability
BandCapabilityResp, 150
pLteEARFCN
nasSwiGetChannelLockResp, 630
nasSwiSetChannelLockReq, 631
pack_nas_SLQSNASSwiSetChannelLock_t, 710
unpack_nas_SLQSNASSwiGetChannelLock_t, 1265
pLteM1BandPref
_sysSelectPrefExtInfo, 108
pack_nas_SLQSSetSysSelectionPrefExt_t, 726
sysSelectPrefParamsExt, 1052
unpack_nas_SLQSGetSysSelectionPrefExt_t, 1255
pLteNasRelInfo
SwiOTAMsg_s, 1034
pLteNb1BandPref
_sysSelectPrefExtInfo, 108
pack_nas_SLQSSetSysSelectionPrefExt_t, 726
sysSelectPrefParamsExt, 1052
unpack_nas_SLQSGetSysSelectionPrefExt_t, 1255
pLtePCI
nasSwiGetChannelLockResp, 630

nasSwiSetChannelLockReq, 631
pack_nas_SLQSNASSwiSetChannelLock_t, 710
unpack_nas_SLQSNASSwiGetChannelLock_t, 1265
pLteQci
swiQosFlow, 1043
pMCC
QmiNas3GppNetworkInfo, 887
unpack_nas_GetHomeNetwork3GPP2_t, 1221
pMEIDString
serialNumbersInfo, 934
pMICGainSelect
GetAudioPathConfigResp, 282
pMIPStatusInd
pack_wds_SLQSWdsSetEventReport_t, 812
wdsSetEventReportReq, 1583
pMNAAA
pack_wds_SetMobileIPProfile_t, 798
pMNC
QmiNas3GppNetworkInfo, 887
unpack_nas_GetHomeNetwork3GPP2_t, 1222
pMNCIncPCSDigStat
_sysSelectPrefParams, 119
pack_nas_SLQSSetSysSelectionPref_t, 717
pack_nas_SLQSSetSysSelectionPrefExt_t, 726
pMNHA
pack_wds_SetMobileIPProfile_t, 798
pMNRInfo
nasInitNetworkReg, 608
pack_nas_SLQSInitiateNetworkRegistration_t, 698
pMTMessageInfo
SMSEventInfo_s, 1008
pMTUSize3gpp
SwiDmsGetMTUResp, 1029
unpack_swidms_SLQSSwiDmsGetMTU_t, 1327
pMagneticDeviation
QmiCbkLocBestAvailPosInd, 865
QmiCbkLocPositionReportInd, 879
unpack_loc_BestAvailPos_Ind_t, 1194
unpack_loc_PositionRpt_Ind_t, 1211
pManString
_SLQSSwiGetHostDevInfoParams, 103
_SLQSSwiSetHostDevInfoParams, 105
pManagedRoamingInd
nasIndicationRegisterReq, 607
pack_nas_SLQSNasIndicationRegisterExt_t, 707
pMaxAllowedPktSz
swiQosFlow, 1043
pMaxChannelRXRate
WdsConnectionRateElmnts, 1570
pMaxChannelTXRate
WdsConnectionRateElmnts, 1570
pMaxStorageSizeReq
pack_sms_SLQSSmsGetMaxStorageSize_t, 751
pMaxStorageSizeResp
unpack_sms_SLQSSmsGetMaxStorageSize_t, 1322
pMdmCallDurationActive
getDUNCallInfoResp, 291
pMeidString
_SLQSSwiGetSerialNoExtParams, 104
pMessage
cdmaMsgDecodingParams, 177
cdmaMsgDecodingParamsExt, 180
cdmaMsgEncodingParams, 182
pack_sms_SaveSMS_t, 743
pack_sms_SendSMS_t, 744
slqssendasyncsmsparams_s, 978
slqssendsmsparams_s, 979
sms_sendAsyncsmsParams, 998
wcdmaLongMsgDecodingParams, 1538
wcdmaMsgDecodingParams, 1539
pMessageID
cdmaMsgDecodingParams, 177
cdmaMsgDecodingParamsExt, 180
pMessageIndex
pack_sms_SLQSDeleteSMS_t, 745
unpack_sms_SaveSMS_t, 1315
pMessageMode
pack_sms_SLQSDeleteSMS_t, 745
pack_sms_SLQSGetSMS_t, 746
pack_sms_SLQSGetSMSList_t, 747
pack_sms_SLQSModifySMSStatus_t, 748
sms_maxStorageSizeReq, 992
smsMaxStorageSizeReq, 1008
pMessageModeInfo
SMSEventInfo_s, 1008
pMessageProtocol
unpack_sms_SLQSSmsGetMessageProtocol_t, 1323
pMessageSize
cdmaMsgEncodingParams, 182
pMessageTag
pack_sms_SLQSDeleteSMS_t, 745
pMicMute
SetM2MAudioProfileReq, 953
pMinBasedIMSI
nasGet3GPP2SubscriptionInfoResp, 595
unpack_nas_SLQSNasGet3GPP2Subscription_t, 1257
pMinIntervalTime
LOCStartReq, 421
pack_loc_Start_t, 691
pMinPolicedPktSz
swiQosFlow, 1043
pMinSessionExpiryTimer
GetIMSVoIPConfigResp, 298
imsVoIPConfigInfo, 351
SetIMSVoIPConfigReq, 950
pMitigationDevList
TmdGetMitigationDevListResp, 1064
pMitigationDevListLen
TmdGetMitigationDevListResp, 1064
pMncPcsDigitStatus
nasInitNetworkReg, 608
pack_nas_SLQSInitiateNetworkRegistration_t, 698

pMncPcsStatus
nasPLMNNameReq, 620
pack_nas_SLQSGetPLMNName_t, 698
pMode
pack_wds_SetMobileIPParameters_t, 796
pModePref
_sysSelectPrefInfo, 113
_sysSelectPrefParams, 119
pack_nas_SLQSSetSysSelectionPref_t, 717
pack_nas_SLQSSetSysSelectionPrefExt_t, 726
unpack_nas_SLQSGetSysSelectionPref_t, 1253
unpack_nas_SLQSGetSysSelectionPrefExt_t, 1255
pModelString
_SLQSSwiGetHostDevInfoParams, 103
_SLQSSwiSetHostDevInfoParams, 105
pMtu
qmiWdsRunTimeSettings, 893
pMuxID
pack_qos_BindDataPort_t, 740
pNAI
pack_wds_SetMobileIPProfile_t, 798
pNAMNameInfo
nasGet3GPP2SubscriptionInfoResp, 595
unpack_nas_SLQSNasGet3GPP2Subscription_t, 1257
pNID
unpack_nas_GetHomeNetwork3GPP2_t, 1222
pNITZInformation
nasOperatorNameResp, 615
unpack_nas_SLQSGetOperatorNameData_t, 1236
pNMEAData
QmiCbkLocEventNMEAInd, 867
pNSEnable
GetAudioPathConfigResp, 282
SetAudioPathConfigReq, 942
pNSSAudioCtrl
unpack_voice_VoiceInfoRecCallback_ind_t, 1388
voiceInfoRec, 1514
pNSSRelease
unpack_voice_VoiceInfoRecCallback_ind_t, 1389
voiceInfoRec, 1514
pNamID
pack_voice_SLQSVoiceGetConfig_t, 778
voiceGetConfigReq, 1509
pName
pack_wds_SetDefaultProfile_t, 794
unpack_nas_GetHomeNetwork3GPP2_t, 1222
pNameString
_SLQSSwiGetOSInfoParams, 103
_SLQSSwiSetOSInfoParams, 106
pNegoDnsSrvrPref
LibpackProfile3GPP2, 372
LibPackprofile_3GPP2, 383
Profile3GPP2, 848
pNeighborSetPilotPN
nas_NetworkStat1x, 528
NetworkStat1x, 640
pNetSelPref
_sysSelectPrefInfo, 113
_sysSelectPrefParams, 119
pack_nas_SLQSSetSysSelectionPref_t, 717
pack_nas_SLQSSetSysSelectionPrefExt_t, 726
unpack_nas_SLQSGetSysSelectionPref_t, 1253
unpack_nas_SLQSGetSysSelectionPrefExt_t, 1255
pNetworkInfo
_slqsNetworkScanInfo, 95
pNetworkInfoInstances
_slqsNetworkScanInfo, 95
pNetworkInfoLen
CurrDataSysStat, 212
pNetworkMode
pack_pds_SLQSGetAGPSConfig_t, 733
pack_pds_SLQSSetAGPSConfig_t, 736
pNetworkRejectInd
nasIndicationRegisterReq, 607
pack_nas_SLQSNasIndicationRegisterExt_t, 707
pNetworkStat1x
NetworkDebugResp, 638
unpack_nas_SLQSSwiNetworkDebug_t, 1272
pNetworkStatEVDO
NetworkDebugResp, 638
unpack_nas_SLQSSwiNetworkDebug_t, 1272
pNetworkTimeInd
nasIndicationRegisterReq, 607
pack_nas_SLQSNasIndicationRegisterExt_t, 707
pNewImsRegStatus
IMSARegistrationStatus, 340
pNewPwdData
unpack_voice_SLQSVoiceSUPSCallback_ind_t, 1384
voiceSUPSInfo, 1532
pNotifStore
_SLQSAVMSSetSettingsReqPara, 89
_SLQSAVMSSetSettingsReqPara_v2, 91
pNotificationStore
_SLQSAVMSSettings, 91
_SLQSAVMSSettings_v2, 92
pNr5gBandPref
_sysSelectPrefExtInfo, 108
pack_nas_SLQSSetSysSelectionPrefExt_t, 726
sysSelectPrefParamsExt, 1052
unpack_nas_SLQSGetSysSelectionPrefExt_t, 1255
pNumSupUSBComps
USBCompParams, 1430
pNumberOfPhySlot
UIMGetSlotsStatusResp, 1105
unpack_uim_SLQSUIMGetSlotsStatus_t, 1343
pNw2DescDisp
unpack_nas_GetHomeNetwork3GPP2_t, 1222
pNw2DescEnc
unpack_nas_GetHomeNetwork3GPP2_t, 1222
pNw2DescLen
unpack_nas_GetHomeNetwork3GPP2_t, 1222

pNw2MCC
unpack_nas_GetHomeNetwork3GPP2_t, 1222
pNw2MNC
unpack_nas_GetHomeNetwork3GPP2_t, 1222
pNw2Name
unpack_nas_GetHomeNetwork3GPP2_t, 1222
pNxtHdrProto
swiQosFilter, 1039
pOMADMEnabled
_SLQSAVMSSettings, 91
_SLQSAVMSSettings_v2, 92
_SLQSOMADMSettings, 99
PORTNAM_LEN
qaGobiApiDcs.h, 1844
pOTASPStatus
unpack_voice_SLQSVoiceGetAllCallInfo_t, 1359
unpack_voice_SLQSVoiceGetCallInfo_t, 1365
voiceCallInfoResp, 1488
voiceGetAllCallInfo, 1496
pObjectVer
NetworkDebugResp, 638
unpack_nas_SLQSSwiNetworkDebug_t, 1272
pOffLength
unpack_voice_DTMFEventCallback_ind_t, 1350
voiceDTMFEventInfo, 1493
pOnLength
unpack_voice_DTMFEventCallback_ind_t, 1350
voiceDTMFEventInfo, 1493
pOpaqueIdentifier
LocInjectSensorDataReq, 418
QmiCbkLocInjectSensorDataInd, 871
unpack_loc_InjectSensorDataCallback_Ind_t, 1203
pOperation
unpack_pds_GetPDSDefaults_t, 1280
pOperatorNameString
nasOperatorNameResp, 615
unpack_nas_SLQSGetOperatorNameData_t, 1236
pOperatorPLMNList
nasOperatorNameResp, 615
unpack_nas_SLQSGetOperatorNameData_t, 1236
pOptList
wds_DHCPv4OptionList, 1554
WdsDHCPv4ClientLeaseInd, 1570
WdsDHCPv4OptionList, 1574
wdsDhcpv4OptionList, 1575
pOptVal
DHCPOption, 237
wds_DHCPOpt, 1552
pOptions
DHCPOptionList, 238
pPCMParams
SetM2MAudioAVCFGReq, 951
pPCSCFAddrPCO
qmiWdsRunTimeSettings, 893
pPCSCFFQDNAddrList
qmiWdsRunTimeSettings, 893
pPCSCFPort
GetRegMgrConfigParams, 305
pPCSDigitInfo
_slqsNetworkScanInfo, 95
pPCSDigitInstances
_slqsNetworkScanInfo, 95
pPCSInstance
unpack_nas_PerformNetworkScan_t, 1230
pPCSInstanceSize
unpack_nas_PerformNetworkScan_t, 1230
pPDNInactivTimeout
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 377
Profile3GPP, 842
pPDNInactivTimeout3GPP2
LibpackProfile3GPP2, 372
LibPackprofile_3GPP2, 383
Profile3GPP2, 848
pPDPType
qmiWdsRunTimeSettings, 893
pPDPtype
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 377
Profile3GPP, 843
pPDUMessage
wcdmaMsgEncodingParams, 1540
pPLMNNetworkName
nasOperatorNameResp, 615
unpack_nas_SLQSGetOperatorNameData_t, 1236
pPRLPref
_sysSelectPrefInfo, 113
_sysSelectPrefParams, 119
pack_nas_SLQSSetSysSelectionPref_t, 717
pack_nas_SLQSSetSysSelectionPrefExt_t, 726
unpack_nas_SLQSGetSysSelectionPref_t, 1253
unpack_nas_SLQSGetSysSelectionPrefExt_t, 1255
pPRLPreference
dmsCurrentPRLInfo, 247
pPRLVersion
dmsCurrentPRLInfo, 247
pPWD
_SLQSAVMSSettingsAPNInfo, 93
pPacketsCountRX
QosEventInfo, 897
slqsWdsEventInfo, 987
pPacketsCountTX
QosEventInfo, 897
slqsWdsEventInfo, 987
pPagingTimeWindow
nasGeteDRXParamsResp, 596
nasSeteDRXParamsReq, 628
pack_nas_SLQSNASSeteDRXParams_t, 708
unpack_nas_SLQSNASGeteDRXParams_t, 1259
pPartNum
cdmaMsgDecodingParamsExt, 180
wcdmaLongMsgDecodingParams, 1538
pPass
pack_wds_SLQSStartDataSession_t, 809

pPassword
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 377
pack_wds_SetDefaultProfile_t, 794
Profile3GPP, 842
ssdatasession_params, 1022
pPasswordSize
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 377
Profile3GPP, 842
pPcscfAddrUsingDhcp
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 377
Profile3GPP, 842
pPcscfAddrUsingPCO
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 377
Profile3GPP, 842
pPdnType
LibpackProfile3GPP2, 372
LibPackprofile_3GPP2, 383
Profile3GPP2, 848
pPdpAccessConFlag
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 377
Profile3GPP, 842
pPdpContext
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 377
Profile3GPP, 842
pPdpDataCompType
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 377
Profile3GPP, 842
pPdpHdrCompType
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 377
Profile3GPP, 842
pPdpStatusConfig
IMSAIndRegisterInfo, 337
pPeriodicUpdateTimer
dmsPsmCfgParamChange, 251
pack_dms_SLQSSetPowerSaveModeConfig_t, 666
PowerSaveModeConfigReq, 833
PowerSaveModeConfigResp, 834
unpack_dms_SLQSGetPowerSaveModeConfig_t, 1170
pPeripheralEndPointID
pack_qos_BindDataPort_t, 740
pPeroidInfo
_SLQSAVMSSetSettingsReqPara, 89
_SLQSAVMSSetSettingsReqPara_v2, 91
pPeroidsInfo
_SLQSAVMSSettings, 91
_SLQSAVMSSettings_v2, 92
pPersistentLpm
dmsSwiGetPCInfo, 253
pPersonalityListLength
HDRPersonalityInd, 324
HDRPersonalityResp, 324
HDRProtSubtypResp, 325
nas_HDRPersonality_Ind_Data, 493
unpack_nas_SLQSSwiGetHDRPersonality_t, 1268
unpack_nas_SLQSSwiGetHDRProtSubtype_t, 1268
pPersonalizationStatus
UIMGetConfigurationResp, 1104
unpack_uim_SLQSUIMGetConfiguration_t, 1342
pPhoneCtxtURI
GetIMSSMSConfigParams, 295
imsSMSConfigInfo, 348
SetIMSSMSConfigReq, 946
pPhoneCtxtURILen
GetIMSSMSConfigParams, 295
SetIMSSMSConfigReq, 946
pPhyCaAggPcellInfo
nasGetLTECphyCaResp, 598
pPhyCaAggScellDlBw
nasGetLTECphyCaResp, 598
pPhyCaAggScellIndType
nasGetLTECphyCaResp, 598
pPhyCaAggScellIndex
nasGetLTECphyCaResp, 598
pPhyCaAggScellInfo
nasGetLTECphyCaResp, 598
pPilotSetData
GetHRPDStatsResp, 294
unpack_nas_SLQSSwiGetHRPDStats_t, 1269
pPilotSetInfo
nas_PilotSetData, 540
PilotSetData, 827
pPkgDescLength
_SLQSOMADMSessionInfo, 97
pPkgDescription
_SLQSOMADMSessionInfo, 97
pPkgName
_SLQSOMADMSessionInfo, 97
pPkgNameLength
_SLQSOMADMSessionInfo, 98
pPktErrRate
swiQosFlow, 1043
pPlasmaIDString
_SLQSSwiGetHostDevInfoParams, 103
_SLQSSwiSetHostDevInfoParams, 105
pPlmnId
nasNetworkReject, 613
pPollingTimer
_SLQSAVMSSetSettingsReqPara, 89
_SLQSAVMSSetSettingsReqPara_v2, 91
_SLQSAVMSSettings, 91
_SLQSAVMSSettings_v2, 92
pPositionSource
pack_pds_SLQSPDSInjectPositionData_t, 735
PDSPositionData, 818
pPositionSrc

LocInjectPositionReq, 417
pPowerOffMode
dmsSwiGetPCInfo, 253
pPppSessCloseTimer1x
LibpackProfile3GPP2, 372
LibPackprofile_3GPP2, 383
Profile3GPP2, 848
pPppSessCloseTimerDO
LibpackProfile3GPP2, 372
LibPackprofile_3GPP2, 383
Profile3GPP2, 848
pPrDNSIPv4Address
swiPDPRuntimeSettingsResp, 1037
pPrDNSIPv6Address
swiPDPRuntimeSettingsResp, 1037
pPrPCSCFIPv4Address
swiPDPRuntimeSettingsResp, 1037
pPrPCSCFIPv6Address
swiPDPRuntimeSettingsResp, 1037
pPrecedence
swiQosFilter, 1040
pPrecisionDilution
QmiCbkLocBestAvailPosInd, 865
QmiCbkLocPositionReportInd, 879
unpack_loc_BestAvailPos_Ind_t, 1194
unpack_loc_PositionRpt_Ind_t, 1211
pPrefNetwork
CurrDataSysStat, 212
pPrefVoiceDomain
pack_voice_SLQSVoiceSetConfig_t, 784
voiceSetConfigReq, 1524
pPrefVoicePrivacy
pack_voice_SLQSVoiceGetConfig_t, 778
voiceGetConfigReq, 1509
pPrefVoiceSO
pack_voice_SLQSVoiceGetConfig_t, 778
pack_voice_SLQSVoiceSetConfig_t, 784
voiceGetConfigReq, 1509
voiceSetConfigReq, 1524
pPrefVoiceSOStatus
unpack_voice_SLQSVoiceSetConfig_t, 1379
voiceSetConfigResp, 1525
pPreference
unpack_pds_GetXTRANetwork_t, 1283
pPreferred
QmiNas3GppNetworkInfo, 887
pPriCSCFPort
imsRegMgrConfigInfo, 347
SetRegMgrConfigReq, 957
pPriCSCFPortName
GetRegMgrConfigParams, 305
pPriCSCFPortNameLen
GetRegMgrConfigParams, 305
pPriDNSIPv4AddPref
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 377
Profile3GPP, 843
pPriDNSIPv6addpref
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 377
Profile3GPP, 843
pPriV6DnsAddress
LibpackProfile3GPP2, 372
LibPackprofile_3GPP2, 383
Profile3GPP2, 848
pPrimaryDNSV4
qmiWdsRunTimeSettings, 893
pPrimaryDNSV6
qmiWdsRunTimeSettings, 893
pPrimaryHA
pack_wds_SetMobileIPProfile_t, 798
pPrimaryID
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 377
Profile3GPP, 843
pPrimaryV4DnsAddress
LibpackProfile3GPP2, 372
LibPackprofile_3GPP2, 383
Profile3GPP2, 848
pPriority
cdmaMsgDecodingParams, 177
cdmaMsgDecodingParamsExt, 180
cdmaMsgEncodingParams, 182
pPrivacy
cdmaMsgDecodingParams, 177
cdmaMsgDecodingParamsExt, 180
pProfSz
NWProfile, 647
pProfValues
NWProfile, 647
pProfileID
CreateProfileIn, 207
ModifyProfileIn, 451
qmiWdsRunTimeSettings, 894
unpack_wds_SLQSCreateProfile_t, 1404
pProfileId
pack_wds_SLQSCreateProfile_t, 799
pack_wds_SLQSModifyProfile_t, 804
pack_wds_SLQSSGetDHCPv4ClientConfig_t, 807
pack_wds_SLQSSSetDHCPv4ClientConfig_t, 808
WdsDHCPv4ClientLeaseInd, 1571
WdsDHCPv4Config, 1571
pProfileId3GPP
ssdatasession_params, 1022
pProfileId3GPP2
ssdatasession_params, 1022
swiQosFlow, 1043
pProfileIndex
CreateProfileOut, 208
pProfileList
_slqs3GPPConfigItem, 87
pack_wds_SLQSSet3GPPConfigItem_t, 805
pProfileName
qmiWdsRunTimeSettings, 894
pProfileSettings
unpack_wds_SLQSGetProfileSettings_t, 1413

pProfileType
CreateProfileIn, 207
CreateProfileOut, 208
ModifyProfileIn, 451
pack_wds_SLQSCreateProfile_t, 799
pack_wds_SLQSModifyProfile_t, 804
pProfilename
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 377
Profile3GPP, 843
pProfilenameSize
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 377
Profile3GPP, 843
pProtoSubTypElmnt
HDRProtSubtypResp, 325
unpack_nas_SLQSSwiGetHDRProtSubtype_t, 1268
pProtocol
pack_nas_SetCDMANetworkParameters_t, 694
pProtocolSubtypeElement
HDRPersonalityInd, 324
HDRPersonalityResp, 324
nas_HDRPersonality_Ind_Data, 493
unpack_nas_SLQSSwiGetHDRPersonality_t, 1268
pPsmEnableState
pack_dms_SLQSSetPowerSaveModeConfig_t, 666
PowerSaveModeConfigReq, 833
PowerSaveModeConfigResp, 834
unpack_dms_SLQSGetPowerSaveModeConfig_t, 1170
pQFlowState
QosFlowInfo, 898
pQmiInterfaceInfo
_packetSrvStatus, 74
slqsSessionStateInfo, 980
slqsWdsEventInfo, 987
pQosClassID
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 377
Profile3GPP, 843
pRAT
_sysSelectPrefParams, 120
pack_nas_SLQSSetSysSelectionPref_t, 717
pack_nas_SLQSSetSysSelectionPrefExt_t, 726
pRATINstance
unpack_nas_PerformNetworkScan_t, 1230
pRATInfo
_slqsNetworkScanInfo, 95
pRATInstanceSize
unpack_nas_PerformNetworkScan_t, 1230
pRATInstances
_slqsNetworkScanInfo, 95
pRATStatus
imsaRatStatusInfo, 339
pRATType
LibpackProfile3GPP2, 372
LibPackprofile_3GPP2, 383
Profile3GPP2, 848
PREFERRED_INDEX
qaNasPerformNetworkScan.h, 2184
pRFBandInfoElements
QmiNasGetRFBandInfoResp, 887
pRFBandInfoParam
nas_RfBandInfoList, 553
RfBandInfoList, 911
PRI_UPDATE_FAIL
qaGobiApiFms.h, 1896
PRIString
unpack_dms_GetFirmwareRevision_t, 1145
unpack_dms_GetFirmwareRevisions_t, 1146
PRLInd
qaQmiServingSystemParam, 860
unpack_nas_SLQSGetServingSystem_t, 1243
PRLPTlv
NASQmiCbkNasSystemSelPrefInd, 625
PRLPref
nas_PRLPrefTlv, 544
NASPRLPreferenceTlv, 623
pRMAutoConnect
custFeaturesInfo, 220
pRSRPThresList
nas_RSRPThresh, 559
RSRPThresh, 917
pRSRPThresh
pack_nas_SLQSConfigSigInfo_t, 697
sigInfo, 966
pRSRQThresList
nas_RSRQThresh, 560
RSRQThresh, 918
pRSRQThresh
pack_nas_SLQSConfigSigInfo_t, 697
sigInfo, 966
pRSSIThresList
nas_RSSIThresh, 561
RSSIThresh, 919
pRSSIThresh
pack_nas_SLQSConfigSigInfo_t, 697
sigInfo, 966
pRTPRTCPInactTimer
GetIMSVoIPConfigResp, 298
imsVoIPConfigInfo, 351
SetIMSVoIPConfigReq, 950
pRXAGCList
GetAudioPathConfigResp, 282
SetAudioPathConfigReq, 942
pRXAIG
RXAGCList, 920
pRXAVCAGCSwitch
GetAudioPathConfigResp, 282
SetAudioPathConfigReq, 942
pRXAVCList
GetAudioPathConfigResp, 282
SetAudioPathConfigReq, 942
pRXChain0Info

nasGetTxRxInfoResp, 604
unpack_nas_SLQSNasGetTxRxInfo_t, 1262
pRXChain1Info
nasGetTxRxInfoResp, 604
unpack_nas_SLQSNasGetTxRxInfo_t, 1262
pRXComprSlope
RXAGCList, 920
pRXComprThres
RXAGCList, 920
pRXDroppedCount
unpack_wds_GetPacketStatistics_t, 1400
WdsPktStatisticsElmnts, 1578
pRXExpSlope
RXAGCList, 920
pRXExpThres
RXAGCList, 920
pRXOKBytesCount
getDUNCallInfoResp, 291
pRXOKBytesLastCall
unpack_wds_GetPacketStatistics_t, 1400
WdsPktStatisticsElmnts, 1578
pRXOkBytesCount
unpack_wds_GetPacketStatistics_t, 1400
WdsPktStatisticsElmnts, 1578
pRXPCMIIRFltr
GetAudioPathConfigResp, 282
SetAudioPathConfigReq, 942
pRXPacketErrors
unpack_wds_GetPacketStatistics_t, 1400
WdsPktStatisticsElmnts, 1578
pRXPacketOverflows
unpack_wds_GetPacketStatistics_t, 1400
WdsPktStatisticsElmnts, 1578
pRXPacketSuccesses
unpack_wds_GetPacketStatistics_t, 1400
WdsPktStatisticsElmnts, 1578
pRXStaticGain
RXAGCList, 920
pRXTotalBytes
unpack_wds_GetByteTotals_t, 1391
WdsByteTotalsElmnts, 1568
pRadioInterface
nasNetworkTime, 614
unpack_nas_SLQSNasNetworkTimeCallBack_ind_t, 1263
pRandomizationWindow
PowerSaveModeConfigResp, 834
unpack_dms_SLQSGetPowerSaveModeConfig_t, 1171
pRankIndicatorInd
NasSwiIndReg, 631
pack_nas_SLQSNasSwiIndicationRegister_t, 709
pRatDisabledMask
_sysSelectPrefExtInfo, 108
unpack_nas_SLQSGetSysSelectionPrefExt_t, 1256
pRatHandoverStatusConfig
IMSAIndRegisterInfo, 337
pRawHorConfidence
LocInjectPositionReq, 417
pRawHorUncCircular
LocInjectPositionReq, 417
pReRegPeriod
pack_wds_SetMobileIPParameters_t, 796
pReRegTraffic
pack_wds_SetMobileIPParameters_t, 796
pReadAcknowledgementReq
cdmaMsgDecodingParams, 177
cdmaMsgDecodingParamsExt, 180
pReadResult
UIMReadTransparentResp, 1109
unpack_uim_ReadTransparent_t, 1338
pReason
unpack_voice_SLQSVoiceSUPSCallback_ind_t, 1384
voiceSUPSInfo, 1532
pReasonMask
unpack_dms_GetOfflineReason_t, 1150
pRecurrenceType
LOCStartReq, 421
pack_loc_Start_t, 691
pRedirNumInfo
unpack_voice_VoiceInfoRecCallback_ind_t, 1389
voiceInfoRec, 1514
pRefData
FirmwareUpdatStat, 271
pRefString
FirmwareUpdatStat, 271
pRefStringLen
FirmwareUpdatStat, 271
pReferenceNum
cdmaMsgDecodingParamsExt, 180
wcdmaLongMsgDecodingParams, 1538
pRefreshEvent
UIMRefreshGetLastEventResp, 1112
unpack_uim_SLQSUIMRefreshGetLastEvent_t, 1344
pRegCallStatInfoEvt
_getIndicationRegResp, 68
_setIndicationRegReq, 85
sms_getIndicationReg, 990
sms_setIndicationReg, 999
pRegDTMFEvents
pack_voice_SLQSVoiceIndicationRegister_t, 779
voiceIndicationRegisterInfo, 1512
pRegInd
_getTransLayerInfoResp, 70
sms_getTransLayerInfo, 991
pRegMgrConfigEvents
imsCfgIndRegisterInfo, 346
pRegStatus
_getTransNWRegInfoResp, 71
sms_getTransNWRegInfo, 992
pRegStatusConfig
IMSAIndRegisterInfo, 338
pRegStatusErrorCode

imsaRegStatusInfo, 340
pRegTransLayerInfoEvt
_getIndicationRegResp, 68
_setIndicationRegReq, 85
sms_getIndicationReg, 990
sms_setIndicationReg, 999
pRegTransNWRegInfoEvt
_getIndicationRegResp, 68
_setIndicationRegReq, 85
sms_getIndicationReg, 990
sms_setIndicationReg, 999
pRegVoicePrivacyEvents
pack_voice_SLQSVoiceIndicationRegister_t, 779
voiceIndicationRegisterInfo, 1512
pRejectReason
pack_swioma_SLQSOMADMSendSelection_t, 755
pRelValidity
cdmaMsgEncodingParams, 182
pRelativeValidity
cdmaMsgDecodingParams, 177
cdmaMsgDecodingParamsExt, 180
pRemainingRetries
UIMDepersonalizationResp, 1101
UIMPinResp, 1106
unpack_uim_ChangePin_t, 1337
unpack_uim_SetPinProtection_t, 1339
unpack_uim_SLQSUIMDepersonalization_t, 1341
unpack_uim_UnblockPin_t, 1345
unpack_uim_VerifyPin_t, 1346
pRemotePartyName
unpack_voice_SLQSVoiceGetCallInfo_t, 1365
voiceCallInfoResp, 1488
pRemotePartyNum
unpack_voice_SLQSVoiceGetCallInfo_t, 1365
voiceCallInfoResp, 1488
pReportChannelRate
getDUNCallInfoReq, 288
pack_wds_SLQSGetDUNCallInfo_t, 801
pReportConnStatus
getDUNCallInfoReq, 288
pack_wds_SLQSGetDUNCallInfo_t, 801
pReportDataBearerTech
getDUNCallInfoReq, 288
pack_wds_SLQSGetDUNCallInfo_t, 801
pReportDormStatus
getDUNCallInfoReq, 288
pack_wds_SLQSGetDUNCallInfo_t, 801
pReqFieldsList
IMSASupportedFieldsResp, 343
pReqMitigationLvl
TmdGetMitigationLvlResp, 1065
pReqSettings
pack_wds_SLQSGetRuntimeSettings_t, 803
pRequestOptionList
pack_wds_SLQSSSetDHCPv4ClientConfig_t, 808
unpack_wds_SLQSSGetDHCPv4ClientConfig_t, 1421
WdsDHCPv4Config, 1571
pRequestedTag
pack_sms_SLQSGetSMSList_t, 747
pRespData
USSDRespFNetwork, 1432
pRespFieldsList
IMSASupportedFieldsResp, 343
pRetryCount
_SLQSOMADMSessionInfo, 98
pRetryInterval
pack_wds_SetMobileIPParameters_t, 796
pRetryLimit
pack_wds_SetMobileIPParameters_t, 796
pRetryMessage
slqssendasyncsmsparams_s, 978
sms_sendAsyncsmsParams, 998
pRetryMessageId
slqssendasyncsmsparams_s, 978
sms_sendAsyncsmsParams, 998
pRevInUse
CDMASysInfo, 187
nas_CDMASysInfo, 467
pRevInUseValid
CDMASysInfo, 187
nas_CDMASysInfo, 467
pRevTunneling
pack_wds_SetMobileIPProfile_t, 798
pRfBandInfoExtFormat
NasGetRFInfoResp, 599
QmiNasGetRFBandInfoResp, 887
unpack_nas_SLQSNasGetRFInfo_t, 1260
pRfBandInfoExtFormatParam
nas_RfBandInfoExtFormat, 552
RfBandInfoExtFormat, 910
pRfBandwidthInfo
NasGetRFInfoResp, 599
QmiNasGetRFBandInfoResp, 887
unpack_nas_SLQSNasGetRFInfo_t, 1260
pRfBandwidthInfoParam
nas_RfBandwidthInfo, 554
RfBandwidthInfo, 912
pRfDedicatedBandInfo
NasGetRFInfoResp, 599
QmiNasGetRFBandInfoResp, 887
unpack_nas_SLQSNasGetRFInfo_t, 1260
pRfDedicatedBandInfoParam
nas_RfDedicatedBandInfo, 555
RfDedicatedBandInfo, 913
pRingBackTimer
GetIMSVoIPConfigResp, 298
imsVoIPConfigInfo, 351
SetIMSVoIPConfigReq, 950
pRingingTimer
GetIMSVoIPConfigResp, 298
imsVoIPConfigInfo, 351
SetIMSVoIPConfigReq, 950
pRoamPref
_sysSelectPrefInfo, 113

_sysSelectPrefParams, 120
pack_nas_SLQSSetSysSelectionPref_t, 717
pack_nas_SLQSSetSysSelectionPrefExt_t, 727
unpack_nas_SLQSGetSysSelectionPref_t, 1253
unpack_nas_SLQSGetSysSelectionPrefExt_t, 1256
pRoamTimer
pack_voice_SLQSVoiceGetConfig_t, 778
voiceGetConfigReq, 1509
pRoamTimerCnt
unpack_voice_SLQSVoiceGetConfig_t, 1376
voiceGetConfigResp, 1511
pRoamTimerConfig
pack_voice_SLQSVoiceSetConfig_t, 784
voiceSetConfigReq, 1524
pRoamTimerStatus
unpack_voice_SLQSVoiceSetConfig_t, 1380
voiceSetConfigResp, 1525
pRoaming
pack_nas_SetCDMANetworkParameters_t, 694
QmiNas3GppNetworkInfo, 887
pRscp
nasSigInfo, 629
unpack_nas_SLQSNasSigInfoCallback_ind_t, 1264
pRxFilter
swiQosModifyReq, 1044
swiQosReq, 1045
pRxFlow
swiQosGranted, 1043
swiQosModifyReq, 1044
swiQosReq, 1045
pRxQFilter
QosFlowInfo, 898
pRxQFlowGranted
QosFlowInfo, 898
PSDetachReq, 851
pDetachAction, 851
PSDomain
unpack_nas_GetServingNetwork_t, 1227
pSID
unpack_nas_GetHomeNetwork3GPP2_t, 1222
pSIODataPort
pack_qos_BindDataPort_t, 740
pSIPConfigEvents
imsCfgIndRegisterInfo, 346
pSIPLocalPort
GetSIPConfigResp, 306
imsSIPConfigInfo, 348
SetSIPConfigReq, 963
PSMActiveTimerTlv, 851
activeTimer, 851
TlvPresent, 851
PSMCfgChangeInfo
pack_dms_SetIndicationRegister_t, 663
PSMDurationDueToOOSTlv, 852
durationDueToOOS, 852
TlvPresent, 852
PSMDurationThresholdTlv, 852
durationThreshold, 852
TlvPresent, 852
PSMEarlyWakeupTimeTlv, 853
earlyWakeupTime, 853
TlvPresent, 853
PSMEnableStateTlv, 853
enableState, 853
TlvPresent, 853
PSMPeriodicUpdateTimerTlv, 854
periodicUpdateTimer, 854
TlvPresent, 854
PSMRandomizationWindowTlv, 854
randomizationWindow, 854
TlvPresent, 854
pSMSAttemptedFlag
getDyingGaspStatistics, 292
packgetDyingGaspStatistics, 814
pSMSCAddress
pack_sms_SetSMSCAddress_t, 744
unpack_sms_GetSMSCAddress_t, 1315
pSMSCAddressInfo
SMSEventInfo_s, 1008
pSMSCType
pack_sms_SetSMSCAddress_t, 744
unpack_sms_GetSMSCAddress_t, 1315
pSMSConfigEvents
imsCfgIndRegisterInfo, 346
pSMSFormat
GetIMSSMSConfigParams, 295
imsSMSConfigInfo, 348
SetIMSSMSConfigReq, 946
pSMSOnIMSInfo
SMSEventInfo_s, 1008
pSMSOverIPNwInd
GetIMSSMSConfigParams, 295
imsSMSConfigInfo, 348
SetIMSSMSConfigReq, 946
pSMSSupport
custFeaturesInfo, 220
pSMSSvcRAT
imsaSvcStatusInfo, 344
pSMSSvcStatus
imsaSvcStatusInfo, 344
PSMStatus
pack_dms_SetIndicationRegister_t, 663
pSPC
pack_nas_SetCDMANetworkParameters_t, 694
pack_wds_SetMobileIPParameters_t, 796
pSV
BdsSVInfo, 151
loc_BdsSVInfo, 392
loc_SVInfo, 406
SVInfo, 1025
pSVInfo
LocDelAssDataReq, 410
pack_loc_Delete_Assist_Data_t, 677
pSWVerString

_SLQSSwiGetHostDevInfoParams, 103
_SLQSSwiSetHostDevInfoParams, 105
pSarRFState
unpack_sar_SLQSGetRfSarState_t, 1314
pSatelliteInfo
gnssSvInfoNotification, 309
unpack_loc_GnssSvInfo_Ind_t, 1201
pScAddr
wcdmaLongMsgDecodingParams, 1538
wcdmaMsgDecodingParams, 1539
pScAddrLength
wcdmaLongMsgDecodingParams, 1538
wcdmaMsgDecodingParams, 1539
pScanResult
_slqsNetworkScanInfo, 95
unpack_nas_PerformNetworkScan_t, 1230
pSccRxInfo
LteSccRxInfoResp, 438
unpack_nas_SLQSSwiGetLteSccRxInfo_t, 1270
pScrAmrEnable
GetIMSVoIPConfigResp, 298
imsVoIPConfigInfo, 351
SetIMSVoIPConfigReq, 950
pScrAmrWbEnable
GetIMSVoIPConfigResp, 298
imsVoIPConfigInfo, 351
SetIMSVoIPConfigReq, 950
pSeDNSIPv4Address
swiPDPRuntimeSettingsResp, 1037
pSeDNSIPv6Address
swiPDPRuntimeSettingsResp, 1037
pSePCSCFIPv4Address
swiPDPRuntimeSettingsResp, 1037
pSePCSCFIPv6Address
swiPDPRuntimeSettingsResp, 1037
pSecDNSIPv4AddPref
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 377
Profile3GPP, 843
pSecDNSIPv6addpref
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 377
Profile3GPP, 843
pSecV6DnsAddress
LibpackProfile3GPP2, 372
LibPackprofile_3GPP2, 383
Profile3GPP2, 848
pSecondaryDNSV4
qmiWdsRunTimeSettings, 894
pSecondaryDNSV6
qmiWdsRunTimeSettings, 894
pSecondaryFlag
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 378
Profile3GPP, 843
pSecondaryHA
pack_wds_SetMobileIPProfile_t, 798
pSecondaryV4DnsAddress
LibpackProfile3GPP2, 372
LibPackprofile_3GPP2, 383
Profile3GPP2, 848
pSectorID
nas_NetworkStatEVDO, 530
NetworkStatEVDO, 642
pSendSmsParams
pack_sms_SLQSSendAsyncSMS_t, 748
pSenderAddr
cdmaMsgDecodingParams, 177
cdmaMsgDecodingParamsExt, 180
wcdmaLongMsgDecodingParams, 1538
wcdmaMsgDecodingParams, 1539
pSenderAddrLength
cdmaMsgDecodingParams, 177
cdmaMsgDecodingParamsExt, 180
wcdmaLongMsgDecodingParams, 1538
wcdmaMsgDecodingParams, 1539
pSensorDataUsage
QmiCbkLocBestAvailPosInd, 865
QmiCbkLocPositionReportInd, 879
unpack_loc_BestAvailPos_Ind_t, 1194
unpack_loc_PositionRpt_Ind_t, 1211
pServerAddrList
qmiWdsRunTimeSettings, 894
pServerAddrTypeMask
LocGetServerReq, 413
pServerAddress
pack_pds_SLQSSetAGPSConfig_t, 736
unpack_pds_SLQSGetAGPSConfig_t, 1287
pServerPort
pack_pds_SLQSSetAGPSConfig_t, 736
unpack_pds_SLQSGetAGPSConfig_t, 1287
pServerURL
pack_pds_SLQSSetAGPSConfig_t, 736
unpack_pds_SLQSGetAGPSConfig_t, 1287
pServerURLLength
pack_pds_SLQSSetAGPSConfig_t, 736
unpack_pds_SLQSGetAGPSConfig_t, 1287
pServiceClass
pack_voice_SLQSVoiceSetSUPSService_t, 786
voiceSetSUPSServiceReq, 1528
pServiceOption
slqssendasyncsmsparams_s, 978
sms_sendAsyncsmsParams, 998
pServiceStatusConfig
IMSAIndRegisterInfo, 338
pServingSystemInd
nasIndicationRegisterReq, 607
pack_nas_SLQSNasIndicationRegisterExt_t, 707
pSessionExpiryTimer
GetIMSVoIPConfigResp, 298
imsVoIPConfigInfo, 351
SetIMSVoIPConfigReq, 950
pSessionIDv4
GetSessionIDResp, 305
pSessionIDv6
GetSessionIDResp, 305

pSessionState
_SLQSOMADMSessionInfo, 98
pSessionType
_SLQSOMADMSessionInfo, 98
pSetIndicationRegReq
pack_sms_SLQSSetIndicationRegister_t, 749
pSetRoutesReq
pack_sms_SLQSSmsSetRoutes_t, 751
pSettingResp
GetIMSSMSConfigParams, 295
GetIMSUserConfigParams, 296
GetIMSVoIPConfigResp, 298
GetRegMgrConfigParams, 305
GetSIPConfigResp, 306
SetIMSSMSConfigResp, 947
SetIMSUserConfigResp, 948
SetIMSVoIPConfigResp, 951
SetRegMgrConfigResp, 957
SetSIPConfigResp, 964
pSeverity
_SLQSOMADMSessionInfo, 98
pSigCompEnabled
GetSIPConfigResp, 306
imsSIPConfigInfo, 348
SetSIPConfigReq, 963
pSigIndReq
pack_nas_SLQSSetSignalStrengthsCallback_t, 712
pSignalInfo
unpack_voice_VoiceInfoRecCallback_ind_t, 1389
voiceInfoRec, 1515
pSignalStrengthInd
nasIndicationRegisterReq, 607
pack_nas_SLQSNasIndicationRegisterExt_t, 707
pSmsOnIms
slqssendasyncsmsparams_s, 978
slqssendsmsparams_s, 979
sms_sendAsyncsmsParams, 998
pSmsServiceRat
IMSAServiceStatus, 342
pSmsServiceStatus
IMSAServiceStatus, 342
pSmsStorage
unpack_sms_SLQSSwiGetSMSStorage_t, 1323
pSource
_SLQSOMADMSessionInfo, 98
pSourceIP
LibPackTFTIDParams, 386
TFTIDParams, 1061
pSourceLength
_SLQSOMADMSessionInfo, 98
pSpeedHorizontal
QmiCbkLocBestAvailPosInd, 865
QmiCbkLocPositionReportInd, 879
unpack_loc_BestAvailPos_Ind_t, 1194
unpack_loc_PositionRpt_Ind_t, 1211
pSpeedUnc
QmiCbkLocBestAvailPosInd, 865
QmiCbkLocPositionReportInd, 879
unpack_loc_BestAvailPos_Ind_t, 1194
unpack_loc_PositionRpt_Ind_t, 1211
pSpeedVertical
QmiCbkLocBestAvailPosInd, 865
QmiCbkLocPositionReportInd, 879
unpack_loc_BestAvailPos_Ind_t, 1194
unpack_loc_PositionRpt_Ind_t, 1211
pSpeedVerticalUnc
QmiCbkLocBestAvailPosInd, 865
unpack_loc_BestAvailPos_Ind_t, 1194
pSrcRAT
imsaRatStatusInfo, 339
pSrvDomainPref
_sysSelectPrefInfo, 113
_sysSelectPrefParams, 120
pack_nas_SLQSSetSysSelectionPref_t, 717
pack_nas_SLQSSetSysSelectionPrefExt_t, 727
unpack_nas_SLQSGetSysSelectionPref_t, 1253
unpack_nas_SLQSGetSysSelectionPrefExt_t, 1256
pSrvOpt
unpack_voice_SLQSVoiceGetCallInfo_t, 1365
voiceCallInfoResp, 1489
pSrvRegRestriction
_sysSelectPrefParams, 120
pack_nas_SLQSSetSysSelectionPref_t, 717
pack_nas_SLQSSetSysSelectionPrefExt_t, 727
pSrvcProviderName
nasOperatorNameResp, 615
unpack_nas_SLQSGetOperatorNameData_t, 1236
pStage0Val
RXPCMIIRFltr, 923
TXPCMIIRFltr, 1073
pStage1Val
RXPCMIIRFltr, 923
TXPCMIIRFltr, 1073
pStage2Val
RXPCMIIRFltr, 923
TXPCMIIRFltr, 1073
pStage3Val
RXPCMIIRFltr, 923
TXPCMIIRFltr, 1073
pStage4Val
RXPCMIIRFltr, 923
TXPCMIIRFltr, 1073
pStageCnt
RXPCMIIRFltr, 923
TXPCMIIRFltr, 1073
pStatMask
pack_wds_GetPacketStatistics_t, 790
WdsPktStatisticsReq, 1579
pStatus
_SLQSOMADMSessionInfo, 98
pSubnetMaskV4
qmiWdsRunTimeSettings, 894
pSubscribeTimer
GetSIPConfigResp, 306

imsSIPConfigInfo, 348
SetSIPConfigReq, 963
pSubscriptionInfoInd
nasIndicationRegisterReq, 607
pack_nas_SLQSNasIndicationRegisterExt_t, 707
pSupUSBComps
USBCompParams, 1430
pSupportEmergencyCalls
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 378
Profile3GPP, 843
pSupportedMsgList
IMSASupportedMsgInfo, 344
pSuppressSysInfoInd
nasIndicationRegisterReq, 607
pack_nas_SLQSNasIndicationRegisterExt_t, 707
pSuppsNotifEvents
pack_voice_SLQSVoiceIndicationRegister_t, 779
voiceIndicationRegisterInfo, 1512
pSvUsedforFix
QmiCbkLocBestAvailPosInd, 865
QmiCbkLocPositionReportInd, 879
unpack_loc_BestAvailPos_Ind_t, 1194
unpack_loc_PositionRpt_Ind_t, 1211
pSvcClass
pack_voice_SLQSVoiceGetCallBarring_t, 775
pack_voice_SLQSVoiceGetCallForwardingStatus-_t, 776
pack_voice_SLQSVoiceGetCallWaiting_t, 777
unpack_voice_SLQSVoiceGetCallBarring_t, 1361
unpack_voice_SLQSVoiceGetCallWaiting_t, 1367
unpack_voice_SLQSVoiceSUPSCallback_ind_t, 1384
voiceGetCallBarringReq, 1497
voiceGetCallBarringResp, 1498
voiceGetCallFWReq, 1499
voiceGetCallWaitInfo, 1502
voiceSUPSInfo, 1532
pSvcType
pack_voice_SLQSVoiceDialCall_t, 774
voiceCallRequestParams, 1490
pSwiGetResetInd
dmsIndicationRegisterReq, 250
pSysInfoInd
nasIndicationRegisterReq, 607
pack_nas_SLQSNasIndicationRegisterExt_t, 707
pSysInfoNoChange
nasSysInfo, 634
unpack_nas_SLQSSysInfoCallback_ind_t, 1275
pSysSelectPrefInfo
_sysSelectPrefExtInfo, 108
pSysSelectPrefParams
sysSelectPrefParamsExt, 1052
pSystemSelectionInd
nasIndicationRegisterReq, 607
pack_nas_SLQSNasIndicationRegisterExt_t, 707
pTCPDstPort
swiQosFilter, 1040
pTCPSrcPort
swiQosFilter, 1040
pTDSCDMAECIODelta
pack_nas_SLQSNasConfigSigInfo2_t, 703
setSignalStrengthInfo, 962
pTDSCDMAECIOThresh
pack_nas_SLQSNasConfigSigInfo2_t, 703
setSignalStrengthInfo, 962
pTDSCDMAECIOThreshList
nas_TDSCDMAECIOThresh, 575
TDSCDMAECIOThresh, 1053
pTDSCDMARSCPDelta
pack_nas_SLQSNasConfigSigInfo2_t, 703
setSignalStrengthInfo, 962
pTDSCDMARSCPThresh
pack_nas_SLQSNasConfigSigInfo2_t, 703
setSignalStrengthInfo, 962
pTDSCDMARSCPThreshList
nas_TDSCDMARSCPThresh, 576
TDSCDMARSCPThresh, 1054
pTDSCDMARSSIDelta
pack_nas_SLQSNasConfigSigInfo2_t, 703
setSignalStrengthInfo, 962
pTDSCDMARSSIThresh
pack_nas_SLQSNasConfigSigInfo2_t, 703
setSignalStrengthInfo, 962
pTDSCDMARSSIThreshList
nas_TDSCDMARSSIThresh, 576
TDSCDMARSSIThresh, 1054
pTDSCDMASINRCONFThresh
sigInfo, 966
pTDSCDMASINRDelta
pack_nas_SLQSNasConfigSigInfo2_t, 703
setSignalStrengthInfo, 962
pTDSCDMASINRThresh
pack_nas_SLQSNasConfigSigInfo2_t, 703
setSignalStrengthInfo, 962
pTDSCDMASINRThreshList
nas_TDSCDMASINRThresh, 577
TDSCDMASINRThresh, 1057
pTDSCDMASigInfoExt
nasGetSigInfoResp, 600
nasSigInfo, 629
unpack_nas_SLQSNasSigInfoCallback_ind_t, 1264
pTDSCDMASigInfoRscp
nasGetSigInfoResp, 600
pTFTID1Params
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 378
Profile3GPP, 843
pTFTID2Params
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 378
Profile3GPP, 843
pTTYConfigStatus
unpack_voice_SLQSVoiceSetConfig_t, 1380
voiceSetConfigResp, 1525

pTTYMode
pack_voice_SLQSVoiceGetConfig_t, 778
pack_voice_SLQSVoiceSetConfig_t, 784
voiceGetConfigReq, 1510
voiceSetConfigReq, 1524
pTXAGCList
GetAudioPathConfigResp, 282
SetAudioPathConfigReq, 942
pTXAIG
TXAGCList, 1071
pTXAVCSwitch
GetAudioPathConfigResp, 282
SetAudioPathConfigReq, 942
pTXComprSlope
TXAGCList, 1071
pTXComprThres
TXAGCList, 1071
pTXDroppedCount
unpack_wds_GetPacketStatistics_t, 1400
WdsPktStatisticsElmnts, 1579
pTXExpSlope
TXAGCList, 1071
pTXExpThres
TXAGCList, 1071
pTXGain
GetAudioPathConfigResp, 282
SetAudioPathConfigReq, 942
pTXInfo
nasGetTxRxInfoResp, 604
unpack_nas_SLQSNasGetTxRxInfo_t, 1262
pTXOKBytesCount
getDUNCallInfoResp, 291
pTXOKBytesLastCall
unpack_wds_GetPacketStatistics_t, 1400
WdsPktStatisticsElmnts, 1579
pTXOkBytesCount
unpack_wds_GetPacketStatistics_t, 1400
WdsPktStatisticsElmnts, 1579
pTXPCMIIRFltr
GetAudioPathConfigResp, 282
SetAudioPathConfigReq, 942
pTXPacketErrors
unpack_wds_GetPacketStatistics_t, 1400
WdsPktStatisticsElmnts, 1579
pTXPacketOverflows
unpack_wds_GetPacketStatistics_t, 1400
WdsPktStatisticsElmnts, 1579
pTXPacketSuccesses
unpack_wds_GetPacketStatistics_t, 1400
WdsPktStatisticsElmnts, 1579
pTXStaticGain
TXAGCList, 1071
pTXTotalBytes
unpack_wds_GetByteTotals_t, 1391
WdsByteTotalsElmnts, 1568
pTdsBandCapability
BandCapabilityResp, 150
pTdscdmaBandPref
_sysSelectPrefParams, 120
pack_nas_SLQSSetSysSelectionPref_t, 718
pack_nas_SLQSSetSysSelectionPrefExt_t, 727
pTech
pack_wds_SLQSStartDataSession_t, 809
pTechnology
qmiWdsRunTimeSettings, 894
ssdatasession_params, 1022
pTechnologyMask
QmiCbkLocBestAvailPosInd, 865
QmiCbkLocPositionReportInd, 879
unpack_loc_BestAvailPos_Ind_t, 1194
unpack_loc_PositionRpt_Ind_t, 1211
pTempReport
pack_dms_SwiSetEventReport_t, 669
pTextMsg
cdmaMsgDecodingParams, 177
cdmaMsgDecodingParamsExt, 180
cdmaMsgEncodingParams, 182
wcdmaLongMsgDecodingParams, 1538
wcdmaMsgDecodingParams, 1539
wcdmaMsgEncodingParams, 1540
pTextMsgLength
cdmaMsgDecodingParams, 177
cdmaMsgDecodingParamsExt, 180
wcdmaLongMsgDecodingParams, 1538
wcdmaMsgDecodingParams, 1539
pTgtRAT
imsaRatStatusInfo, 339
pTime
_SLQSOMADMSessionInfo, 98
SwiOTAMsg_s, 1034
pTimeLength
_SLQSOMADMSessionInfo, 98
pTimeSrc
QmiCbkLocBestAvailPosInd, 865
QmiCbkLocPositionReportInd, 879
unpack_loc_BestAvailPos_Ind_t, 1194
unpack_loc_PositionRpt_Ind_t, 1211
pTimeStamp
getDyingGaspStatistics, 293
pack_pds_SLQSPDSInjectPositionData_t, 735
packgetDyingGaspStatistics, 814
PDSPositionData, 818
pTimeType
pack_pds_SLQSPDSInjectPositionData_t, 735
PDSPositionData, 818
pTimeUnc
QmiCbkLocBestAvailPosInd, 865
QmiCbkLocPositionReportInd, 880
unpack_loc_BestAvailPos_Ind_t, 1194
unpack_loc_PositionRpt_Ind_t, 1211
pTimeZone
nasNetworkTime, 614
unpack_nas_SLQSNasNetworkTimeCallBack_ind_t, 1263
pTimeout
unpack_pds_GetPDSDefaults_t, 1280

pTimer
NasSwiIndReg, 631
pack_nas_SLQSNasSwiIndicationRegister_t, 709
pTimerSIPReg
GetSIPConfigResp, 306
imsSIPConfigInfo, 348
SetSIPConfigReq, 963
pTimerT1
GetSIPConfigResp, 306
imsSIPConfigInfo, 348
SetSIPConfigReq, 963
pTimerT2
GetSIPConfigResp, 306
imsSIPConfigInfo, 348
SetSIPConfigReq, 963
pTimerTf
GetSIPConfigResp, 306
imsSIPConfigInfo, 348
SetSIPConfigReq, 963
pTimerVal
pack_voice_SLQSVoiceSetSUPSService_t, 786
voiceSetSUPSServiceReq, 1528
pTimestampAge
LocInjectPositionReq, 417
pTimestampUtc
LocInjectPositionReq, 417
QmiCbkLocBestAvailPosInd, 865
QmiCbkLocPositionReportInd, 880
unpack_loc_BestAvailPos_Ind_t, 1194
unpack_loc_PositionRpt_Ind_t, 1211
pTokenBucket
swiQosFlow, 1043
pTos
swiQosFilter, 1040
pTotalBytesRX
QosEventInfo, 897
slqsWdsEventInfo, 988
pTotalBytesTX
QosEventInfo, 897
slqsWdsEventInfo, 988
pTotalNum
cdmaMsgDecodingParamsExt, 180
wcdmaLongMsgDecodingParams, 1538
pTrackingStatus
unpack_pds_GetPDSState_t, 1281
pTrafficClass
swiQosFlow, 1043
pTranDstPort
swiQosFilter, 1040
pTranSrcPort
swiQosFilter, 1040
pTransLayerInfo
_getTransLayerInfoResp, 70
_transLayerInfoNotification, 121
sms_getTransLayerInfo, 991
unpack_sms_SLQSTransLayerInfoCallback_ind_t, 1324
pTransferRouteMTMessageInfo
SMSEventInfo_s, 1008
pTransferStatInd
getDUNCallInfoReq, 288
pack_wds_SLQSGetDUNCallInfo_t, 801
pack_wds_SLQSWdsSetEventReport_t, 812
wdsSetEventReportReq, 1583
pTransferStatusReport
sms_setRoutesReq, 1000
smsSetRoutesReq, 1015
pTrueIMSI
nasGet3GPP2SubscriptionInfoResp, 595
unpack_nas_SLQSNasGet3GPP2Subscription_t, 1257
pTxFilter
swiQosModifyReq, 1044
swiQosReq, 1045
pTxFlow
swiQosGranted, 1043
swiQosModifyReq, 1045
swiQosReq, 1045
pTxQFilter
QosFlowInfo, 898
pTxQFlowGranted
QosFlowInfo, 898
pTypeCode
USSDRespFNetwork, 1432
pUATI
GetHRPDStatsResp, 294
unpack_nas_SLQSSwiGetHRPDStats_t, 1269
pUDPDstPort
swiQosFilter, 1040
pUDPSrcPort
swiQosFilter, 1040
pUMTSCellID
nasCellLocationInfoResp, 593
unpack_nas_SLQSNasGetCellLocationInfo_t, 1258
pUMTSGrantedQoS
qmiWdsRunTimeSettings, 894
pUMTSInfo
nasCellLocationInfoResp, 593
unpack_nas_SLQSNasGetCellLocationInfo_t, 1258
pUMTSMinQoS
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 378
Profile3GPP, 843
pUMTSMinQosSigInd
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 378
Profile3GPP, 843
pUMTSReqQoS
LibpackProfile3GPP, 366
LibPackprofile_3GPP, 378
Profile3GPP, 843
pUMTSReqQoSSigInd
LibpackProfile3GPP, 367
LibPackprofile_3GPP, 378

Profile3GPP, 843
pURL
QmiCbkLocGetServerInd, 869
unpack_loc_GetServer_Ind_t, 1200
pURLAddr
LocSetServerReq, 420
pack_loc_SLQSLOCSetServer_t, 690
pUSBComp
USBCompConfig, 1428
USBCompParams, 1430
pUSSDData
USSDNoWaitIndicationInfo, 1431
pUSSDInfo
unpack_voice_SLQSOriginateUSSD_t, 1354
USSResp, 1433
pUSSInfo
unpack_voice_SLQSVoiceSUPSCallback_ind_t, 1384
voiceSUPSInfo, 1532
pUTSvcRAT
imsaSvcStatusInfo, 344
pUTSvcStatus
imsaSvcStatusInfo, 344
pUUSInFo
pack_voice_SLQSVoiceDialCall_t, 774
voiceCallRequestParams, 1490
pUUSInfo
unpack_voice_SLQSVoiceGetCallInfo_t, 1365
voiceCallInfoResp, 1489
pUimSlotsStatus
UIMGetSlotsStatusResp, 1105
unpack_uim_SLQSUIMGetSlotsStatus_t, 1343
pUname
_SLQSAVMSSettingsAPNInfo, 93
pUpdateCompleteStatus
_SLQSOMADMSessionInfo, 98
pUsbMTUSize
SwiDmsGetMTUResp, 1029
unpack_swidms_SLQSSwiDmsGetMTU_t, 1327
pUser
pack_wds_SLQSStartDataSession_t, 809
pUserAcknowledgementReq
cdmaMsgDecodingParams, 177
cdmaMsgDecodingParamsExt, 180
pUserConfigEvents
imsCfgIndRegisterInfo, 346
pUserData
slqssendasyncsmsparams_s, 978
sms_sendAsyncsmsParams, 998
pUserId
LibpackProfile3GPP2, 372
LibPackprofile_3GPP2, 383
Profile3GPP2, 848
pUserIdSize
LibpackProfile3GPP2, 372
LibPackprofile_3GPP2, 383
Profile3GPP2, 848
pUsername
LibpackProfile3GPP, 367
LibPackprofile_3GPP, 378
pack_wds_SetDefaultProfile_t, 794
Profile3GPP, 843
qmiWdsRunTimeSettings, 894
ssdatasession_params, 1022
pUsernameSize
LibpackProfile3GPP, 367
LibPackprofile_3GPP, 378
Profile3GPP, 843
pUtServiceRat
IMSAServiceStatus, 342
pUtServiceStatus
IMSAServiceStatus, 342
pV4sessionId
WdsByteTotals, 1567
WdsConnectionRate, 1569
WdsPktStatisticsResp, 1580
pV6sessionId
WdsByteTotals, 1567
WdsConnectionRate, 1569
WdsPktStatisticsResp, 1580
pVOIPSvcRAT
imsaSvcStatusInfo, 344
pVOIPSvcStatus
imsaSvcStatusInfo, 345
pVTSvcRAT
imsaSvcStatusInfo, 345
pVTSvcStatus
imsaSvcStatusInfo, 345
pVerboseFailReasonType
unpack_wds_SLQSStartDataSession_t, 1423
pVerboseFailureReason
unpack_wds_SLQSStartDataSession_t, 1423
pVersionString
_SLQSSwiGetOSInfoParams, 103
_SLQSSwiSetOSInfoParams, 106
pVertConfidence
LocInjectPositionReq, 417
QmiCbkLocBestAvailPosInd, 865
QmiCbkLocPositionReportInd, 880
unpack_loc_BestAvailPos_Ind_t, 1194
unpack_loc_PositionRpt_Ind_t, 1212
pVertReliability
LocInjectPositionReq, 417
QmiCbkLocBestAvailPosInd, 865
QmiCbkLocPositionReportInd, 880
unpack_loc_BestAvailPos_Ind_t, 1194
unpack_loc_PositionRpt_Ind_t, 1212
pVertUnc
LocInjectPositionReq, 417
QmiCbkLocBestAvailPosInd, 866
QmiCbkLocPositionReportInd, 880
unpack_loc_BestAvailPos_Ind_t, 1194
unpack_loc_PositionRpt_Ind_t, 1212
pVerticalConfidence
pack_pds_SLQSPDSInjectPositionData_t, 735
PDSPositionData, 818

pVerticalUnc
pack_pds_SLQSPDSInjectPositionData_t, 735
PDSPositionData, 818
pVoIPConfigEvents
imsCfgIndRegisterInfo, 346
pVoiceDomainPref
pack_voice_SLQSVoiceGetConfig_t, 778
voiceGetConfigReq, 1510
pVoiceDomainPrefStatus
unpack_voice_SLQSVoiceSetConfig_t, 1380
voiceSetConfigResp, 1525
pVoicePrivacy
unpack_voice_SLQSVoiceGetAllCallInfo_t, 1359
unpack_voice_SLQSVoiceGetCallInfo_t, 1365
voiceCallInfoResp, 1489
voiceGetAllCallInfo, 1496
pVoipServiceRat
IMSAServiceStatus, 342
pVoipServiceStatus
IMSAServiceStatus, 342
pVoltReport
pack_dms_SwiSetEventReport_t, 669
pVolume
SetM2MAudioProfileReq, 953
pVsServiceRat
IMSAServiceStatus, 342
pVsServiceStatus
IMSAServiceStatus, 342
pVtServiceRat
IMSAServiceStatus, 342
pVtServiceStatus
IMSAServiceStatus, 343
pWCDMABER
GetErrRateResp, 293
unpack_nas_SLQSGetErrorRate_t, 1234
pWCDMACallBarringSysInfo
nasGetSysInfoResp, 603
nasSysInfo, 634
unpack_nas_SLQSGetSysInfo_t, 1248
unpack_nas_SLQSSysInfoCallback_ind_t, 1275
pWCDMACipherDomainSysInfo
nasGetSysInfoResp, 603
nasSysInfo, 634
unpack_nas_SLQSGetSysInfo_t, 1248
unpack_nas_SLQSSysInfoCallback_ind_t, 1275
pWCDMAECIODelta
pack_nas_SLQSNasConfigSigInfo2_t, 703
setSignalStrengthInfo, 962
pWCDMAECIOThresh
pack_nas_SLQSNasConfigSigInfo2_t, 703
setSignalStrengthInfo, 962
pWCDMAECIOThreshList
nas_WCDMAECIOThresh, 587
WCDMAECIOThresh, 1535
pWCDMAInfoLTENeighborCell
nasCellLocationInfoResp, 594
unpack_nas_SLQSNasGetCellLocationInfo_t, 1258
pWCDMARSSIDelta
pack_nas_SLQSNasConfigSigInfo2_t, 703
setSignalStrengthInfo, 962
pWCDMARSSIThresh
pack_nas_SLQSNasConfigSigInfo2_t, 703
setSignalStrengthInfo, 962
pWCDMARSSIThreshList
nas_WCDMARSSIThresh, 588
WCDMARSSIThresh, 1541
pWCDMASSInfo
nasGetSigInfoResp, 600
pWCDMASigInfo
nasSigInfo, 629
unpack_nas_SLQSNasSigInfoCallback_ind_t, 1264
pWCDMASrvStatusInfo
nasGetSysInfoResp, 603
nasSysInfo, 634
unpack_nas_SLQSGetSysInfo_t, 1249
unpack_nas_SLQSSysInfoCallback_ind_t, 1275
pWCDMASysInfo
nasGetSysInfoResp, 603
nasSysInfo, 635
unpack_nas_SLQSGetSysInfo_t, 1249
unpack_nas_SLQSSysInfoCallback_ind_t, 1275
pWcdmaUARFCN
nasSwiGetChannelLockResp, 630
nasSwiSetChannelLockReq, 632
pack_nas_SLQSNASSwiSetChannelLock_t, 710
unpack_nas_SLQSNASSwiGetChannelLock_t, 1265
pWdisable
dmsSwiGetPCInfo, 253
pWifiState
pack_pds_SLQSSetPositionMethodState_t, 737
PDSPosMethodStateReq, 819
pXid
QmiCbkLocBestAvailPosInd, 866
unpack_loc_BestAvailPos_Ind_t, 1194
pXtraDataState
pack_pds_SLQSSetPositionMethodState_t, 737
PDSPosMethodStateReq, 819
pXtraTimeState
pack_pds_SLQSSetPositionMethodState_t, 737
PDSPosMethodStateReq, 819
pack_dms_ActivateAutomatic
dms.h, 1600
pack_dms_ActivateAutomatic_t, 657
actCode, 657
pack_dms_GetActivationState
dms.h, 1600
pack_dms_GetBandCapability
dms.h, 1600
pack_dms_GetCrashAction
dms.h, 1601
pack_dms_GetCustFeature
dms.h, 1601
pack_dms_GetCustFeaturesV2

dms.h, 1601
pack_dms_GetCustFeaturesV2_t, 657
cust_id, 658
list_type, 658
Tlvresult, 658
pack_dms_GetDeviceCap
dms.h, 1602
pack_dms_GetDeviceCapabilities
dms.h, 1602
pack_dms_GetDeviceHardwareRev
dms.h, 1603
pack_dms_GetDeviceMfr
dms.h, 1603
pack_dms_GetDeviceSerialNumbers
dms.h, 1603
pack_dms_GetFSN
dms.h, 1605
pack_dms_GetFirmwareInfo
dms.h, 1604
pack_dms_GetFirmwareRevision
dms.h, 1604
pack_dms_GetFirmwareRevisions
dms.h, 1604
pack_dms_GetHardwareRevision
dms.h, 1605
pack_dms_GetIMSI
dms.h, 1605
pack_dms_GetManufacturer
dms.h, 1606
pack_dms_GetModelID
dms.h, 1606
pack_dms_GetNetworkTime
dms.h, 1606
pack_dms_GetOfflineReason
dms.h, 1607
pack_dms_GetPRLVersion
dms.h, 1607
pack_dms_GetPower
dms.h, 1607
pack_dms_GetSerialNumbers
dms.h, 1608
pack_dms_GetUSBComp
dms.h, 1608
pack_dms_GetVoiceNumber
dms.h, 1608
pack_dms_ResetToFactoryDefaults
dms.h, 1609
pack_dms_ResetToFactoryDefaults_t, 658
spc, 658
pack_dms_SLQSDmsSwiGetPCInfo
dms.h, 1613
pack_dms_SLQSDmsSwiGetResetInfo
dms.h, 1613
pack_dms_SLQSDmsSwiIndicationRegister
dms.h, 1613
pack_dms_SLQSDmsSwiIndicationRegister_t, 665
resetInfoInd, 666
pack_dms_SLQSGetBandCapability
dms.h, 1614
pack_dms_SLQSGetERIFile
dms.h, 1614
pack_dms_SLQSGetPowerSaveModeConfig
dms.h, 1614
pack_dms_SLQSSetPowerSaveModeConfig
dms.h, 1615
pack_dms_SLQSSetPowerSaveModeConfig_t, 666
pActiveTimer, 666
pPeriodicUpdateTimer, 666
pPsmEnableState, 666
pack_dms_SLQSSwiClearDyingGaspStatistics
dms.h, 1615
pack_dms_SLQSSwiGetCrashInfo
dms.h, 1615
pack_dms_SLQSSwiGetCrashInfo_t, 666
clear, 667
pack_dms_SLQSSwiGetDyingGaspCfg
dms.h, 1616
pack_dms_SLQSSwiGetDyingGaspStatistics
dms.h, 1616
pack_dms_SLQSSwiGetFirmwareCurr
dms.h, 1616
pack_dms_SLQSSwiGetFwUpdateStatus
dms.h, 1617
pack_dms_SLQSSwiGetHostDevInfo
dms.h, 1617
pack_dms_SLQSSwiGetOSInfo
dms.h, 1617
pack_dms_SLQSSwiGetSerialNoExt
dms.h, 1618
pack_dms_SLQSSwiSetDyingGaspCfg
dms.h, 1618
pack_dms_SLQSSwiSetDyingGaspCfg_t, 667
pDestSMSContent, 667
pDestSMSNum, 667
pack_dms_SLQSSwiSetHostDevInfo
dms.h, 1618
pack_dms_SLQSSwiSetHostDevInfo_t, 667
manString, 668
modelString, 668
plasmaIDString, 668
swVerString, 668
pack_dms_SLQSSwiSetOSInfo
dms.h, 1619
pack_dms_SLQSSwiSetOSInfo_t, 668
nameString, 669
versionString, 669
pack_dms_SLQSUIMGetState
dms.h, 1619
pack_dms_SetActivationStatusCallback
dms.h, 1609
pack_dms_SetActivationStatusCallback_t, 658
activationState, 659
pack_dms_SetCrashAction
dms.h, 1610
pack_dms_SetCrashAction_t, 659
crashAction, 659

pack_dms_SetCustFeature
dms.h, 1610
pack_dms_SetCustFeature_t, 659
DHCPRelayEnabled, 661
DisableIMSI, 661
GPSLPM, 661
GPSSel, 661
GpsEnable, 661
IPFamSupport, 661
IsVoiceEnabled, 661
RMAutoConnect, 661
SMSSupport, 661
pack_dms_SetCustFeaturesV2
dms.h, 1610
pack_dms_SetCustFeaturesV2_t, 661
cust_id, 662
cust_value, 662
Tlvresult, 662
value_length, 662
pack_dms_SetEventReport
dms.h, 1611
pack_dms_SetEventReport_t, 662
mode, 662
pack_dms_SetFirmwarePreference
dms.h, 1611
pack_dms_SetIndicationRegister
dms.h, 1611
pack_dms_SetIndicationRegister_t, 663
PSMCfgChangeInfo, 663
PSMStatus, 663
RptIMSCapability, 663
pack_dms_SetPower
dms.h, 1612
pack_dms_SetPower_t, 663
mode, 664
Tlvresult, 664
pack_dms_SetUSBComp
dms.h, 1612
pack_dms_SetUSBComp_t, 664
Tlvresult, 665
USBComp, 665
pack_dms_SwiSetEventReport
dms.h, 1620
pack_dms_SwiSetEventReport_t, 669
pTempReport, 669
pVoltReport, 669
pack_dms_UIMChangePIN
dms.h, 1620
pack_dms_UIMChangePIN_t, 669
id, 670
newValue, 670
oldValue, 670
pack_dms_UIMGetControlKeyStatus
dms.h, 1620
pack_dms_UIMGetControlKeyStatus_t, 670
facility, 670
pack_dms_UIMGetICCID
dms.h, 1621
pack_dms_UIMGetICCID_t, 670
Tlvresult, 671
pack_dms_UIMGetPINStatus
dms.h, 1621
pack_dms_UIMSetControlKeyProtection
dms.h, 1621
pack_dms_UIMSetControlKeyProtection_t, 671
facility, 671
facilityCk, 671
facilityState, 671
pack_dms_UIMSetPINProtection
dms.h, 1622
pack_dms_UIMSetPINProtection_t, 672
bEnable, 672
id, 672
value, 672
pack_dms_UIMUnblockControlKey
dms.h, 1622
pack_dms_UIMUnblockControlKey_t, 672
facility, 673
facilityCk, 673
pack_dms_UIMUnblockPIN
dms.h, 1623
pack_dms_UIMUnblockPIN_t, 673
id, 673
newPin, 673
pukValue, 673
pack_dms_UIMVerifyPIN
dms.h, 1623
pack_dms_UIMVerifyPIN_t, 674
id, 674
value, 674
pack_dms_ValidateSPC
dms.h, 1623
pack_fms_GetImagesPreference
fms.h, 1650
pack_fms_GetImagesPreference_t, 674
Tlvresult, 674
pack_fms_GetStoredImages
fms.h, 1651
pack_fms_GetStoredImages_t, 674
Tlvresult, 675
pack_fms_SetImagesPreference
fms.h, 1651
pack_fms_SetImagesPreference_t, 675
bForceDownload, 676
imageListSize, 676
modemindex, 676
pImageList, 676
Tlvresult, 676
pack_loc_Delete_Assist_Data_t, 676
pBdsSVInfo, 676
pCellDb, 676
pClkInfo, 676
pGnssData, 677
pSVInfo, 677
Tlvresult, 677
pack_loc_DeleteAssistData

loc.h, 1658
pack_loc_EventRegister
loc.h, 1659
pack_loc_EventRegister_t, 677
eventRegister, 679
Tlvresult, 679
pack_loc_SLQSLOCGetBestAvailPos
loc.h, 1660
pack_loc_SLQSLOCGetBestAvailPos_t, 680
Tlvresult, 680
xid, 680
pack_loc_SLQSLOCGetServer
loc.h, 1660
pack_loc_SLQSLOCGetServer_t, 681
has_serverAddrTypeMask, 681
serverAddrTypeMask, 681
serverType, 681
pack_loc_SLQSLOCInjectPosition
loc.h, 1661
pack_loc_SLQSLOCInjectPosition_t, 681
altitudeSrcInfo, 685
altitudeWrtEllipsoid, 685
altitudeWrtMeanSeaLevel, 685
has_altitudeSrcInfo, 685
has_altitudeWrtEllipsoid, 685
has_horConfidence, 685
has_horReliability, 685
has_horUncCircular, 685
has_latitude, 685
has_longitude, 685
has_positionSrc, 685
has_rawHorConfidence, 685
has_rawHorUncCircular, 685
has_timestampAge, 685
has_timestampUtc, 685
has_vertConfidence, 685
has_vertRelicability, 685
has_vertUnc, 686
horConfidence, 686
horReliability, 686
horUncCircular, 686
latitude, 686
longitude, 686
positionSrc, 686
rawHorConfidence, 686
rawHorUncCircular, 686
timestampAge, 686
timestampUtc, 686
vertConfidence, 686
vertReliability, 686
vertUnc, 686
pack_loc_SLQSLOCInjectSensorData
loc.h, 1661
pack_loc_SLQSLOCInjectSensorData_t, 686
accelTemp, 687
acceleroData, 687
acceleroTimeSrc, 687
gyroData, 687
gyroTemp, 687
gyroTimeSrc, 688
has_accelTemp, 688
has_acceleroTimeSrc, 688
has_accleroData, 688
has_gyroData, 688
has_gyroTemp, 688
has_gyroTimeSrc, 688
has_opaqueId, 688
opaqueId, 688
pack_loc_SLQSLOCInjectUTCTime
loc.h, 1661
pack_loc_SLQSLOCInjectUTCTime_t, 688
timeMsec, 688
timeUncMsec, 688
pack_loc_SLQSLOCSetCradleMountConfig
loc.h, 1662
pack_loc_SLQSLOCSetCradleMountConfig_t, 688
confidence, 689
has_confidence, 689
state, 689
pack_loc_SLQSLOCSetServer
loc.h, 1662
pack_loc_SLQSLOCSetServer_t, 689
pIPv4Config, 690
pIPv6Config, 690
pURLAddr, 690
serverType, 690
pack_loc_SetExtPowerState
loc.h, 1659
pack_loc_SetExtPowerState_t, 679
extPowerState, 679
Tlvresult, 679
pack_loc_SetOperationMode
loc.h, 1659
pack_loc_SetOperationMode_t, 679
mode, 680
Tlvresult, 680
pack_loc_Start
loc.h, 1663
pack_loc_Start_t, 690
pApplicationInfo, 691
pConfigAltitudeAssumed, 691
pHorizontalAccuracyLvl, 691
pIntermediateReportState, 691
pMinIntervalTime, 691
pRecurrenceType, 691
SessionId, 692
Tlvresult, 692
pack_loc_Stop
loc.h, 1663
pack_loc_Stop_t, 692
SessionId, 692
Tlvresult, 692
pack_nas_GetACCOLC
nas.h, 1684
pack_nas_GetANAAAAuthenticationStatus
nas.h, 1684

pack_nas_GetCDMANetworkParameters
nas.h, 1684
pack_nas_GetHomeNetwork
nas.h, 1685
pack_nas_GetHomeNetwork3GPP2
nas.h, 1685
pack_nas_GetNetworkPreference
nas.h, 1685
pack_nas_GetRFInfo
nas.h, 1685
pack_nas_GetServingNetwork
nas.h, 1686
pack_nas_GetServingNetworkCapabilities
nas.h, 1686
pack_nas_GetSignalStrengths
nas.h, 1686
pack_nas_InitiateDomainAttach
nas.h, 1687
pack_nas_InitiateDomainAttach_t, 692
action, 692
pack_nas_PerformNetworkScan
nas.h, 1687
pack_nas_SLQSConfigSigInfo
nas.h, 1689
pack_nas_SLQSConfigSigInfo_t, 695
pECIOThresh, 697
pIOThresh, 697
pLTESNRThresh, 697
pLTESigRptCfg, 697
pRSRPThresh, 697
pRSRQThresh, 697
pRSSIThresh, 697
pack_nas_SLQSGetErrorRate
nas.h, 1690
pack_nas_SLQSGetNetworkTime
nas.h, 1690
pack_nas_SLQSGetOperatorNameData
nas.h, 1690
pack_nas_SLQSGetPLMNName
nas.h, 1691
pack_nas_SLQSGetPLMNName_t, 697
mcc, 698
mnc, 698
pMncPcsStatus, 698
pack_nas_SLQSGetServingSystem
nas.h, 1691
pack_nas_SLQSGetSignalStrength
nas.h, 1691
pack_nas_SLQSGetSysInfo
nas.h, 1692
pack_nas_SLQSGetSysSelectionPref
nas.h, 1692
pack_nas_SLQSGetSysSelectionPrefExt
nas.h, 1693
pack_nas_SLQSInitiateNetworkRegistration
nas.h, 1693
pack_nas_SLQSInitiateNetworkRegistration_t, 698
pChangeDuration, 698
pMNRInfo, 698
pMncPcsDigitStatus, 698
regAction, 699
pack_nas_SLQSNASGeteDRXParams
nas.h, 1694
pack_nas_SLQSNASSeteDRXParams
nas.h, 1696
pack_nas_SLQSNASSeteDRXParams_t, 707
pCycleLen, 708
pEdrxEnable, 708
pack_nas_SLQSNASSwiGetChannelLock
nas.h, 1697
pack_nas_SLQSNASSwiSetChannelLock
nas.h, 1698
pack_nas_SLQSNASSwiSetChannelLock_t, 709
pack_nas_SLQSNasConfigSigInfo2
nas.h, 1693
pack_nas_SLQSNasConfigSigInfo2_t, 699
pHDRIODelta, 702
pHDRIOThresh, 702
pLTESigRptConfig, 703
pack_nas_SLQSNasGet3GPP2Subscription
nas.h, 1694
pack_nas_SLQSNasGet3GPP2Subscription_t, 703
namID, 704
pack_nas_SLQSNasGetCellLocationInfo
nas.h, 1694
pack_nas_SLQSNasGetHDRColorCode
nas.h, 1695
pack_nas_SLQSNasGetRFInfo
nas.h, 1695
pack_nas_SLQSNasGetSigInfo
nas.h, 1695
pack_nas_SLQSNasGetTxRxInfo
nas.h, 1696
pack_nas_SLQSNasGetTxRxInfo_t, 704
radio_if, 704
pack_nas_SLQSNasIndicationRegisterExt
nas.h, 1696
pack_nas_SLQSNasIndicationRegisterExt_t, 704
pDDTMInd, 706
pDualStandByPrefInd, 706
pErrorRateInd, 707
pHDRSessionCloseInd, 707
pLTECphyCa, 707
pManagedRoamingInd, 707
pNetworkRejectInd, 707
pNetworkTimeInd, 707
pServingSystemInd, 707
pSignalStrengthInd, 707
pSubscriptionInfoInd, 707
pSuppressSysInfoInd, 707
pSysInfoInd, 707
pSystemSelectionInd, 707
pack_nas_SLQSNasSwiIndicationRegister
nas.h, 1697
pack_nas_SLQSNasSwiIndicationRegister_t, 708
gsmUmtsDl, 709

gsmUmtsUl, 709
lteEmmDl, 709
lteEmmUl, 709
lteEsmDl, 709
lteEsmUl, 709
pRankIndicatorInd, 709
pTimer, 709
pack_nas_SLQSNasSwiModemStatus
nas.h, 1698
pack_nas_SLQSSetBandPreference
nas.h, 1698
pack_nas_SLQSSetBandPreference_t, 710
bandPref, 711
pack_nas_SLQSSetSignalStrengthsCallback
nas.h, 1699
pack_nas_SLQSSetSignalStrengthsCallback_t, 712
bEnable, 712
pSigIndReq, 712
pack_nas_SLQSSetSysSelectionPref
nas.h, 1699
pack_nas_SLQSSetSysSelectionPref_t, 712
pAcqOrderPref, 717
pBandPref, 717
pCSGID, 717
pChgDuration, 717
pEmerMode, 717
pGWAcqOrderPref, 717
pLTEBandPref, 717
pModePref, 717
pNetSelPref, 717
pPRLPref, 717
pRAT, 717
pRoamPref, 717
pSrvDomainPref, 717
pSrvRegRestriction, 717
pTdscdmaBandPref, 718
pack_nas_SLQSSetSysSelectionPrefExt
nas.h, 1699
pack_nas_SLQSSetSysSelectionPrefExt_t, 718
pAcqOrderPref, 726
pBandPref, 726
pCSGID, 726
pChgDuration, 726
pCiotAcqOrderPref, 726
pCiotLteOpMode, 726
pCiotLteOpModePref, 726
pEmerMode, 726
pGWAcqOrderPref, 726
pLTEBandPref, 726
pLteM1BandPref, 726
pLteNb1BandPref, 726
pModePref, 726
pNetSelPref, 726
pNr5gBandPref, 726
pPRLPref, 726
pRAT, 726
pRoamPref, 727
pSrvDomainPref, 727
pSrvRegRestriction, 727
pTdscdmaBandPref, 727
pack_nas_SLQSSwiGetHDRPersonality
nas.h, 1700
pack_nas_SLQSSwiGetHDRProtSubtype
nas.h, 1700
pack_nas_SLQSSwiGetHRPDStats
nas.h, 1700
pack_nas_SLQSSwiGetLteCQI
nas.h, 1701
pack_nas_SLQSSwiGetLteSccRxInfo
nas.h, 1701
pack_nas_SLQSSwiNetworkDebug
nas.h, 1701
pack_nas_SLQSSwiPSDetach
nas.h, 1702
pack_nas_SLQSSwiPSDetach_t, 727
pDetachAction, 727
pack_nas_SetACCOLC
nas.h, 1688
pack_nas_SetACCOLC_t, 693
accolc, 693
spc, 693
pack_nas_SetCDMANetworkParameters
nas.h, 1688
pack_nas_SetCDMANetworkParameters_t, 693
pApplication, 694
pBroadcast, 694
pCustomSCP, 694
pForceRev0, 694
pProtocol, 694
pRoaming, 694
pSPC, 694
pack_nas_SetLURejectCallback
nas.h, 1688
pack_nas_SetNetworkPreference
nas.h, 1689
pack_nas_SetNetworkPreference_t, 695
Duration, 695
TechnologyPref, 695
Tlvresult, 695
pack_nas_SetRFInfoCallback
nas.h, 1689
pack_nas_SlqsGetLTECphyCAInfo
nas.h, 1690
pack_pds_ForceXTRADownload
pds.h, 1730
pack_pds_GetPDSDefaults
pds.h, 1730
pack_pds_GetPDSState
pds.h, 1730
pack_pds_GetPortAutomaticTracking
pds.h, 1731
pack_pds_GetServiceAutomaticTracking
pds.h, 1731
pack_pds_GetXTRAAutomaticDownload
pds.h, 1731
pack_pds_GetXTRANetwork

pds.h, 1732
pack_pds_GetXTRAValidity
pds.h, 1732
pack_pds_PDSInjectTimeReference
pds.h, 1732
pack_pds_PDSInjectTimeReference_t, 727
systemDiscontinuities, 727
systemTime, 728
pack_pds_ResetPDSData
pds.h, 1733
pack_pds_ResetPDSData_t, 728
pCellDataMask, 728
pGPSDataMask, 728
pack_pds_SLQSGetAGPSConfig
pds.h, 1736
pack_pds_SLQSGetAGPSConfig_t, 732
pNetworkMode, 733
pack_pds_SLQSGetGPSStateInfo
pds.h, 1736
pack_pds_SLQSPDSDeterminePosition
pds.h, 1736
pack_pds_SLQSPDSInjectAbsoluteTimeReference
pds.h, 1737
pack_pds_SLQSPDSInjectAbsoluteTimeReference_t, 733
forceFlag, 733
timeBase, 733
timeMsec, 733
timeUncMsec, 734
pack_pds_SLQSPDSInjectPositionData
pds.h, 1737
pack_pds_SLQSPDSInjectPositionData_t, 734
pAltitudeWrtEllipsoid, 735
pAltitudeWrtSealevel, 735
pHorizontalConfidence, 735
pHorizontalUncCircular, 735
pLatitude, 735
pLongitude, 735
pPositionSource, 735
pTimeStamp, 735
pTimeType, 735
pVerticalConfidence, 735
pVerticalUnc, 735
pack_pds_SLQSSetAGPSConfig
pds.h, 1737
pack_pds_SLQSSetAGPSConfig_t, 736
pNetworkMode, 736
pServerAddress, 736
pServerPort, 736
pServerURL, 736
pack_pds_SLQSSetPositionMethodState
pds.h, 1738
pack_pds_SLQSSetPositionMethodState_t, 736
pWifiState, 737
pXtraDataState, 737
pXtraTimeState, 737
pack_pds_SetEventReportCallback
pds.h, 1733
pack_pds_SetEventReportCallback_t, 729
posDataNmea, 729
rptPosData, 729
pack_pds_SetPDSDefaults
pds.h, 1733
pack_pds_SetPDSDefaults_t, 729
accuracy, 730
interval, 730
operation, 730
timeout, 730
pack_pds_SetPDSState
pds.h, 1734
pack_pds_SetPDSState_t, 730
enable, 730
pack_pds_SetPortAutomaticTracking
pds.h, 1734
pack_pds_SetPortAutomaticTracking_t, 730
bAuto, 731
pack_pds_SetServiceAutomaticTracking
pds.h, 1734
pack_pds_SetServiceAutomaticTracking_t, 731
bAuto, 731
pack_pds_SetXTRAAutomaticDownload
pds.h, 1735
pack_pds_SetXTRAAutomaticDownload_t, 731
bEnabled, 732
interval, 732
pack_pds_SetXTRANetwork
pds.h, 1735
pack_pds_SetXTRANetwork_t, 732
preference, 732
pack_pds_StartPDSTrackingSessionExt
pds.h, 1738
pack_pds_StartPDSTrackingSessionExt_t, 737
fixAccuracy, 738
fixCount, 738
fixInterval, 738
fixTimeout, 738
sessionControl, 738
sessionOperation, 738
sessionServerOption, 738
sessionType, 738
pack_pds_StopPDSTrackingSession
pds.h, 1738
pack_qmi_t, 738
msgid, 739
svc, 739
timeout, 739
xid, 739
pack_qos_BindDataPort
qos.h, 2194
pack_qos_BindDataPort_t, 739
pMuxID, 740
pPeripheralEndPointID, 740
pSIODataPort, 740
pack_qos_SLQSQosGetNetworkStatus
qos.h, 2194
pack_qos_SLQSQosSwiReadApnExtraParams

qos.h, 2195
pack_qos_SLQSQosSwiReadApnExtraParams_t, 740
apnId, 740
pack_qos_SLQSQosSwiReadDataStats
qos.h, 2196
pack_qos_SLQSQosSwiReadDataStats_t, 740
apnId, 740
pack_qos_SLQSSetQosEventCallback
qos.h, 2196
pack_qos_SLQSSetQosEventCallback_t, 740
enable, 741
pack_rms_GetSMSWake
rms.h, 2202
pack_rms_SetSMSWake
rms.h, 2202
pack_rms_SetSMSWake_t, 741
enabled, 741
wake_mask, 741
pack_sar_SLQSGetRfSarState
sar.h, 2204
pack_sar_SLQSSetRfSarState
sar.h, 2204
pack_sar_SLQSSetRfSarState_t, 741
RfSarState, 742
pack_sms_GetSMSCAddress
sms.h, 2209
pack_sms_SLQSDeleteSMS
sms.h, 2211
pack_sms_SLQSDeleteSMS_t, 744
pMessageIndex, 745
pMessageMode, 745
pMessageTag, 745
storageType, 745
pack_sms_SLQSGetIndicationRegister
sms.h, 2211
pack_sms_SLQSGetMessageWaiting
sms.h, 2212
pack_sms_SLQSGetSMS
sms.h, 2212
pack_sms_SLQSGetSMS_t, 745
messageIndex, 746
pMessageMode, 746
storageType, 746
pack_sms_SLQSGetSMSList
sms.h, 2213
pack_sms_SLQSGetSMSList_t, 746
pMessageMode, 747
pRequestedTag, 747
storageType, 747
pack_sms_SLQSGetSmsBroadcastConfig
sms.h, 2212
pack_sms_SLQSGetSmsBroadcastConfig_t, 746
mode, 746
pack_sms_SLQSGetTransLayerInfo
sms.h, 2213
pack_sms_SLQSGetTransNWRegInfo
sms.h, 2214
pack_sms_SLQSModifySMSStatus
sms.h, 2214
pack_sms_SLQSModifySMSStatus_t, 747
messageIndex, 748
messageTag, 748
pMessageMode, 748
storageType, 748
pack_sms_SLQSSendAsyncSMS
sms.h, 2214
pack_sms_SLQSSendAsyncSMS_t, 748
pSendSmsParams, 748
pack_sms_SLQSSetIndicationRegister
sms.h, 2215
pack_sms_SLQSSetIndicationRegister_t, 748
pSetIndicationRegReq, 749
pack_sms_SLQSSetSmsBroadcastActivation
sms.h, 2215
pack_sms_SLQSSetSmsBroadcastActivation_t, 749
broadcastActivate, 749
mode, 749
pack_sms_SLQSSetSmsBroadcastConfig
sms.h, 2215
pack_sms_SLQSSetSmsBroadcastConfig_t, 749
mode, 750
pBroadcastConfig, 750
pCDMABroadcastConfig, 750
pack_sms_SLQSSetSmsStorage
sms.h, 2216
pack_sms_SLQSSetSmsStorage_t, 750
smsStorage, 750
pack_sms_SLQSSmsGetMaxStorageSize
sms.h, 2216
pack_sms_SLQSSmsGetMaxStorageSize_t, 751
pMaxStorageSizeReq, 751
pack_sms_SLQSSmsGetMessageProtocol
sms.h, 2216
pack_sms_SLQSSmsSetRoutes
sms.h, 2217
pack_sms_SLQSSmsSetRoutes_t, 751
pSetRoutesReq, 751
pack_sms_SLQSSwiGetSMSStorage
sms.h, 2217
pack_sms_SaveSMS
sms.h, 2210
pack_sms_SaveSMS_t, 742
messageFormat, 743
messageSize, 743
pMessage, 743
storageType, 743
pack_sms_SendSMS
sms.h, 2210
pack_sms_SendSMS_t, 743
messageFormat, 743
messageSize, 743
pLinktimer, 743
pMessage, 744
pack_sms_SetNewSMSCallback
sms.h, 2210
pack_sms_SetNewSMSCallback_t, 744

status, 744
pack_sms_SetSMSCAddress
sms.h, 2211
pack_sms_SetSMSCAddress_t, 744
pSMSCAddress, 744
pSMSCType, 744
pack_swidms_SLQSSwiDmsGetMTU
swidms.h, 2229
pack_swidms_SLQSSwiDmsGetUsbNetNum
swidms.h, 2230
pack_swidms_SLQSSwiDmsSetMTU
swidms.h, 2230
pack_swidms_SLQSSwiDmsSetMTU_t, 751
MTUSize, 752
pack_swidms_SLQSSwiDmsSetUsbNetNum
swidms.h, 2230
pack_swidms_SLQSSwiDmsSetUsbNetNum_t, 752
nUsbNetNum, 752
pack_swiloc_SwiLocGetAutoStart
swiloc.h, 2233
pack_swiloc_SwiLocSetAutoStart
swiloc.h, 2233
pack_swiloc_SwiLocSetAutoStart_t, 752
fix_rate, 754
fix_type, 754
function, 754
max_dist, 754
max_time, 754
set_fix_rate, 754
set_fix_type, 754
set_function, 754
set_max_dist, 754
set_max_time, 754
pack_swioma_SLQSOMADMAlertCallback
swioma.h, 2235
pack_swioma_SLQSOMADMCancelSession
swioma.h, 2236
pack_swioma_SLQSOMADMCancelSession_t, 754
sessionType, 754
pack_swioma_SLQSOMADMGetSessionInfo
swioma.h, 2236
pack_swioma_SLQSOMADMGetSessionInfo_t, 754
SessionType, 755
pack_swioma_SLQSOMADMGetSettings
swioma.h, 2237
pack_swioma_SLQSOMADMSendSelection
swioma.h, 2237
pack_swioma_SLQSOMADMSendSelection_t, 755
pDeferTime, 755
pRejectReason, 755
selection, 755
pack_swioma_SLQSOMADMSetSettings
swioma.h, 2238
pack_swioma_SLQSOMADMSetSettings_t, 755
FOTAdownload, 756
pAutosdm, 756
pFwAutoCheck, 756
pack_swioma_SLQSOMADMStartSession
swioma.h, 2239
pack_swioma_SLQSOMADMStartSession_t, 756
sessionType, 757
pack_uim_ChangePin
uim.h, 2246
pack_uim_ChangePin_t, 757
changePIN, 758
EncryptedPIN1, 758
pIndicationToken, 758
pKeyReferenceID, 758
sessionInfo, 758
Tlvresult, 758
pack_uim_GetCardStatus
uim.h, 2247
pack_uim_ReadTransparent
uim.h, 2247
pack_uim_ReadTransparent_t, 758
fileIndex, 759
pEncryptData, 759
pIndicationToken, 759
readTransparent, 759
sessionInfo, 759
Tlvresult, 759
pack_uim_SLQSUIMAuthenticate
uim.h, 2248
pack_uim_SLQSUIMAuthenticate_t, 760
authData, 761
pIndicationToken, 761
sessionInfo, 761
pack_uim_SLQSUIMDepersonalization
uim.h, 2248
pack_uim_SLQSUIMDepersonalization_t, 761
depersonilisationInfo, 761
pack_uim_SLQSUIMEventRegister
uim.h, 2248
pack_uim_SLQSUIMEventRegister_t, 761
eventMask, 761
pack_uim_SLQSUIMGetConfiguration
uim.h, 2249
pack_uim_SLQSUIMGetConfiguration_t, 762
pConfigurationMask, 762
pack_uim_SLQSUIMGetFileAttributes
uim.h, 2249
pack_uim_SLQSUIMGetFileAttributes_t, 762
fileIndex, 763
pIndicationToken, 763
sessionInfo, 763
pack_uim_SLQSUIMGetSlotsStatus
uim.h, 2250
pack_uim_SLQSUIMPowerDown
uim.h, 2250
pack_uim_SLQSUIMPowerDown_t, 763
slot, 763
pack_uim_SLQSUIMPowerUp
uim.h, 2250
pack_uim_SLQSUIMPowerUp_t, 763
pIgnoreHotSwapSwitch, 764
slot, 764

pack_uim_SLQSUIMRefreshComplete
uim.h, 2251
pack_uim_SLQSUIMRefreshComplete_t, 764
refreshComplete, 764
sessionInfo, 764
pack_uim_SLQSUIMRefreshGetLastEvent
uim.h, 2251
pack_uim_SLQSUIMRefreshGetLastEvent_t, 764
sessionInfo, 765
pack_uim_SLQSUIMRefreshOK
uim.h, 2251
pack_uim_SLQSUIMRefreshOK_t, 765
OKtoRefresh, 765
sessionInfo, 765
pack_uim_SLQSUIMRefreshRegister
uim.h, 2252
pack_uim_SLQSUIMRefreshRegister_t, 765
regRefresh, 766
sessionInfo, 766
pack_uim_SLQSUIMReset
uim.h, 2252
pack_uim_SLQSUIMSwitchSlot
uim.h, 2253
pack_uim_SLQSUIMSwitchSlot_t, 766
bLogicalSlot, 766
ulPhysicalSlot, 766
pack_uim_SetPinProtection
uim.h, 2247
pack_uim_SetPinProtection_t, 759
EncryptedPIN1, 760
pIndicationToken, 760
pKeyReferenceID, 760
pinProtection, 760
sessionInfo, 760
Tlvresult, 760
pack_uim_UnblockPin
uim.h, 2253
pack_uim_UnblockPin_t, 767
EncryptedPIN1, 767
pIndicationToken, 767
pKeyReferenceID, 767
pinProtection, 767
sessionInfo, 767
Tlvresult, 767
pack_uim_VerifyPin
uim.h, 2253
pack_uim_VerifyPin_t, 768
pEncryptedPIN1, 768
pIndicationToken, 768
pKeyReferenceID, 768
sessionInfo, 769
Tlvresult, 769
verifyPIN, 769
pack_voice_AnswerUSSD
voice.h, 2267
pack_voice_AnswerUSSD_t, 769
pInfo, 769
pack_voice_CancelUSSD
voice.h, 2268
pack_voice_OriginateUSSD
voice.h, 2268
pack_voice_OriginateUSSD_t, 769
pInfo, 769
pack_voice_SLQSOriginateUSSD
voice.h, 2268
pack_voice_SLQSOriginateUSSD_t, 769
ussDCS, 770
ussData, 770
ussLen, 770
pack_voice_SLQSVoiceALSSelectLine
voice.h, 2269
pack_voice_SLQSVoiceALSSelectLine_t, 770
lineValue, 770
pack_voice_SLQSVoiceALSSetLineSwitching
voice.h, 2269
pack_voice_SLQSVoiceALSSetLineSwitching_t, 771
switchOption, 771
pack_voice_SLQSVoiceAnswerCall
voice.h, 2270
pack_voice_SLQSVoiceAnswerCall_t, 771
pCallId, 771
pack_voice_SLQSVoiceBindSubscription
voice.h, 2270
pack_voice_SLQSVoiceBindSubscription_t, 771
subsType, 772
pack_voice_SLQSVoiceBurstDTMF
voice.h, 2270
pack_voice_SLQSVoiceBurstDTMF_t, 772
pack_voice_SLQSVoiceDialCall
voice.h, 2271
pack_voice_SLQSVoiceDialCall_t, 772
callNumber, 774
pCLIRType, 774
pCUGInfo, 774
pCallPartySubAdd, 774
pCallType, 774
pEmergencyCategory, 774
pSvcType, 774
pUUSInFo, 774
pack_voice_SLQSVoiceEndCall
voice.h, 2271
pack_voice_SLQSVoiceEndCall_t, 774
pCallId, 774
pack_voice_SLQSVoiceGetAllCallInfo
voice.h, 2271
pack_voice_SLQSVoiceGetCLIP
voice.h, 2273
pack_voice_SLQSVoiceGetCLIR
voice.h, 2274
pack_voice_SLQSVoiceGetCNAP
voice.h, 2274
pack_voice_SLQSVoiceGetCOLP
voice.h, 2274
pack_voice_SLQSVoiceGetCOLR
voice.h, 2275
pack_voice_SLQSVoiceGetCallBarring

voice.h, 2272
pack_voice_SLQSVoiceGetCallBarring_t, 774
pSvcClass, 775
reason, 775
pack_voice_SLQSVoiceGetCallForwardingStatus
voice.h, 2272
pack_voice_SLQSVoiceGetCallForwardingStatus_t, 775
pSvcClass, 776
Reason, 776
pack_voice_SLQSVoiceGetCallInfo
voice.h, 2273
pack_voice_SLQSVoiceGetCallInfo_t, 776
callID, 776
pack_voice_SLQSVoiceGetCallWaiting
voice.h, 2273
pack_voice_SLQSVoiceGetCallWaiting_t, 776
pSvcClass, 777
pack_voice_SLQSVoiceGetConfig
voice.h, 2275
pack_voice_SLQSVoiceGetConfig_t, 777
pAMRStatus, 778
pAirTimer, 778
pAutoAnswer, 778
pNamID, 778
pPrefVoicePrivacy, 778
pPrefVoiceSO, 778
pRoamTimer, 778
pTTYMode, 778
pVoiceDomainPref, 778
pack_voice_SLQSVoiceIndicationRegister
voice.h, 2275
pack_voice_SLQSVoiceIndicationRegister_t, 779
pRegDTMFEvents, 779
pRegVoicePrivacyEvents, 779
pSuppsNotifEvents, 779
pack_voice_SLQSVoiceManageCalls
voice.h, 2276
pack_voice_SLQSVoiceManageCalls_t, 779
pCallID, 780
SUPSType, 780
pack_voice_SLQSVoiceOrigUSSDNoWait
voice.h, 2276
pack_voice_SLQSVoiceOrigUSSDNoWait_t, 780
pack_voice_SLQSVoiceSendFlash
voice.h, 2276
pack_voice_SLQSVoiceSendFlash_t, 781
pCallID, 781
pFlashPayLd, 781
pFlashType, 781
pack_voice_SLQSVoiceSetCallBarringPassword
voice.h, 2277
pack_voice_SLQSVoiceSetCallBarringPassword_t, 781
newPasswd, 782
newPasswdAgain, 782
oldPasswd, 782
Reason, 782
pack_voice_SLQSVoiceSetConfig
voice.h, 2277
pack_voice_SLQSVoiceSetConfig_t, 782
pAirTimerConfig, 784
pAutoAnswer, 784
pPrefVoiceDomain, 784
pPrefVoiceSO, 784
pRoamTimerConfig, 784
pTTYMode, 784
pack_voice_SLQSVoiceSetPreferredPrivacy
voice.h, 2278
pack_voice_SLQSVoiceSetPreferredPrivacy_t, 784
privacyPref, 784
pack_voice_SLQSVoiceSetSUPSService
voice.h, 2278
pack_voice_SLQSVoiceSetSUPSService_t, 784
pCallBarringPasswd, 786
pCallForwardingNumber, 786
pServiceClass, 786
pTimerVal, 786
reason, 786
voiceSvc, 786
pack_voice_SLQSVoiceStartContDTMF
voice.h, 2278
pack_voice_SLQSVoiceStartContDTMF_t, 786
DTMFdigit, 787
pCallID, 787
pack_voice_SLQSVoiceStopContDTMF
voice.h, 2279
pack_voice_SLQSVoiceStopContDTMF_t, 787
callID, 787
pack_wds_DHCPv4ClientLeaseChange
wds.h, 2300
pack_wds_DHCPv4ClientLeaseChange_t, 787
pEnableNotification, 788
pack_wds_GetAutoconnect
wds.h, 2300
pack_wds_GetByteTotals
wds.h, 2300
pack_wds_GetConnectionRate
wds.h, 2301
pack_wds_GetDataBearerTechnology
wds.h, 2301
pack_wds_GetDefaultProfile
wds.h, 2302
pack_wds_GetDefaultProfile_t, 788
profiletype, 788
pack_wds_GetDefaultProfileNum
wds.h, 2302
pack_wds_GetDefaultProfileNum_t, 788
family, 788
type, 788
pack_wds_GetDormancyState
wds.h, 2302
pack_wds_GetDormancyState_t, 789
pack_wds_GetLastMobileIPError
wds.h, 2303
pack_wds_GetLastMobileIPError_t, 789
pack_wds_GetMobileIP
wds.h, 2303

pack_wds_GetMobileIP_t, 789
pack_wds_GetMobileIPProfile
wds.h, 2304
pack_wds_GetMobileIPProfile_t, 789
index, 790
pack_wds_GetPacketStatistics
wds.h, 2304
pack_wds_GetPacketStatistics_t, 790
pStatMask, 790
pack_wds_GetPacketStatus
wds.h, 2305
pack_wds_GetPacketStatus_t, 790
statmask, 791
pack_wds_GetSessionDuration
wds.h, 2305
pack_wds_GetSessionDuration_t, 791
pack_wds_GetSessionState
wds.h, 2305
pack_wds_RMSetTransferStatistics
wds.h, 2306
pack_wds_RMSetTransferStatistics_t, 791
RmTrasnferStaticsReq, 791
pack_wds_SLQSCreateProfile
wds.h, 2309
pack_wds_SLQSCreateProfile_t, 798
pCurProfile, 799
pProfileId, 799
pProfileType, 799
pack_wds_SLQSDeleteProfile
wds.h, 2310
pack_wds_SLQSDeleteProfile_t, 799
profileIndex, 799
profileType, 799
pack_wds_SLQSGet3GPPConfigItem
wds.h, 2310
pack_wds_SLQSGetCurrDataSystemStat
wds.h, 2311
pack_wds_SLQSGetCurrDataSystemStat_t, 799
pack_wds_SLQSGetCurrentChannelRate
wds.h, 2311
pack_wds_SLQSGetDUNCallInfo
wds.h, 2312
pack_wds_SLQSGetDUNCallInfo_t, 800
Mask, 801
pReportChannelRate, 801
pReportConnStatus, 801
pReportDataBearerTech, 801
pReportDormStatus, 801
pTransferStatInd, 801
pack_wds_SLQSGetDataBearerTechnology
wds.h, 2311
pack_wds_SLQSGetDataBearerTechnology_t, 800
pack_wds_SLQSGetProfileSettings
wds.h, 2312
pack_wds_SLQSGetProfileSettings_t, 801
ProfileId, 802
ProfileType, 802
pack_wds_SLQSGetRuntimeSettings
wds.h, 2313
pack_wds_SLQSGetRuntimeSettings_t, 802
pReqSettings, 803
pack_wds_SLQSModifyProfile
wds.h, 2313
pack_wds_SLQSModifyProfile_t, 803
curProfile, 804
pProfileId, 804
pProfileType, 804
pack_wds_SLQSResetPacketStatics
wds.h, 2314
pack_wds_SLQSSGetDHCPv4ClientConfig
wds.h, 2315
pack_wds_SLQSSGetDHCPv4ClientConfig_t, 807
pProfileId, 807
pack_wds_SLQSSGetLoopback
wds.h, 2316
pack_wds_SLQSSSetDHCPv4ClientConfig
wds.h, 2316
pack_wds_SLQSSSetDHCPv4ClientConfig_t, 807
pHwConfig, 808
pProfileId, 808
pack_wds_SLQSSSetLoopback
wds.h, 2316
pack_wds_SLQSSSetLoopback_t, 808
loopbackMode, 808
loopbackMultiplier, 808
pack_wds_SLQSSet3GPPConfigItem
wds.h, 2314
pack_wds_SLQSSet3GPPConfigItem_t, 804
p3gppRelease, 805
pProfileList, 805
pack_wds_SLQSSetIPFamilyPreference
wds.h, 2314
pack_wds_SLQSSetIPFamilyPreference_t, 806
IPFamilyPreference, 806
pack_wds_SLQSSetWdsEventCallback
wds.h, 2315
pack_wds_SLQSSetWdsEventCallback_t, 806
currentDataBearer, 807
dataBearer, 807
dataBearerTechExt, 807
dataSystemStatus, 807
dormancyStatus, 807
interval, 807
mobileIP, 807
transferStats, 807
pack_wds_SLQSStartDataSession
wds.h, 2317
pack_wds_SLQSStartDataSession_t, 808
pAuth, 809
pPass, 809
pTech, 809
pUser, 809
pprofileid3gpp, 809
pprofileid3gpp2, 809
pack_wds_SLQSStopDataSession
wds.h, 2317

pack_wds_SLQSStopDataSession_t, 810
psid, 810
pack_wds_SLQSWdsGoActive
wds.h, 2318
pack_wds_SLQSWdsGoDormant
wds.h, 2318
pack_wds_SLQSWdsSetEventReport
wds.h, 2318
pack_wds_SLQSWdsSetEventReport_t, 810
pCurrChannelRateInd, 811
pCurrDataBearerTechInd, 811
pCurrPrefDataSysInd, 811
pDataBearerTechInd, 811
pDataCallStatusChangeInd, 811
pDataSystemStatusChangeInd, 811
pDormancyStatusInd, 812
pMIPStatusInd, 812
pTransferStatInd, 812
pack_wds_SLQSWdsSwiPDPRuntimeSettings
wds.h, 2319
pack_wds_SLQSWdsSwiPDPRuntimeSettings_t, 812
contextId, 812
contextType, 812
pack_wds_SetAutoconnect
wds.h, 2306
pack_wds_SetAutoconnect_t, 792
acroamsetting, 792
acsetting, 792
pack_wds_SetDefaultProfile
wds.h, 2307
pack_wds_SetDefaultProfile_t, 792
authentication, 793
ipAddress, 794
pApnname, 794
pName, 794
pPassword, 794
pUsername, 794
pdpType, 794
primaryDNS, 794
profileType, 794
secondaryDNS, 794
pack_wds_SetDefaultProfileNum
wds.h, 2307
pack_wds_SetDefaultProfileNum_t, 794
family, 794
index, 794
type, 794
pack_wds_SetMobileIP
wds.h, 2307
pack_wds_SetMobileIP_t, 795
mode, 795
pack_wds_SetMobileIPParameters
wds.h, 2308
pack_wds_SetMobileIPParameters_t, 795
pHA2002bis, 796
pHAAuthenticator, 796
pMode, 796
pReRegPeriod, 796
pReRegTraffic, 796
pRetryInterval, 796
pRetryLimit, 796
pSPC, 796
pack_wds_SetMobileIPProfile
wds.h, 2308
pack_wds_SetMobileIPProfile_t, 796
index, 797
pAAASPI, 798
pAddress, 798
pEnabled, 798
pHASPI, 798
pMNAAA, 798
pMNHA, 798
pNAI, 798
pPrimaryHA, 798
pRevTunneling, 798
pSecondaryHA, 798
spc, 798
pack_wds_SetMuxID
wds.h, 2309
PackCreateProfileOut, 812
ExtErrorCode, 813
ProfileIndex, 813
ProfileType, 813
package_name
omaDmFotaTlv, 652
omaDmFotaTlvExt, 654
unpack_omaDmFotaTlv_t, 1278
PackageID
_SwiAvmsEventInd, 107
packageSize
omaDmFotaTlvExt, 654
packageid_str
slqsfwinfo_s, 974
unpack_dms_GetFirmwareInfo_t, 1144
packetSrvStatus
qaGobiApiCbk.h, 1769
packetZone
CDMASysInfo, 187
nas_CDMASysInfo, 467
packetZoneValid
CDMASysInfo, 187
nas_CDMASysInfo, 467
packgetDyingGaspCfg, 813
pDestSMSContent, 813
pDestSMSNum, 813
packgetDyingGaspStatistics, 813
pSMSAttemptedFlag, 814
pTimeStamp, 814
ParamPresenceMask
unpack_fms_GetImagesPreference_t, 1186
unpack_fms_GetStoredImages_t, 1187
unpack_fms_SetImagesPreference_t, 1187
unpack_loc_BestAvailPos_Ind_t, 1193
unpack_loc_CradleMountCallback_Ind_t, 1195
unpack_loc_Delete_Assist_Data_t, 1195
unpack_loc_DeleteAssistData_Ind_t, 1196

unpack_loc_EngineState_Ind_t, 1197
unpack_loc_EventNMEA_Ind_t, 1198
unpack_loc_EventRegister_t, 1198
unpack_loc_EventTimeSyncCallback_Ind_t, 1198
unpack_loc_GetServer_Ind_t, 1200
unpack_loc_GnssSvInfo_Ind_t, 1201
unpack_loc_InjectPositionCallback_Ind_t, 1202
unpack_loc_InjectSensorDataCallback_Ind_t, 1203
unpack_loc_InjectTimeSyncDataCallback_Ind_t, 1204
unpack_loc_InjectUTCTimeCallback_Ind_t, 1205
unpack_loc_PositionRpt_Ind_t, 1211
unpack_loc_SensorStreamingCallback_Ind_t, 1212
unpack_loc_SetExtPowerConfig_Ind_t, 1213
unpack_loc_SetExtPowerState_t, 1214
unpack_loc_SetOperationMode_Ind_t, 1215
unpack_loc_SetOperationMode_t, 1215
unpack_loc_SLQSLOCGetBestAvailPos_t, 1216
unpack_loc_Start_t, 1217
unpack_loc_Stop_t, 1217
unpack_result_t, 1312
unpack_swiloc_SwiLocGetAutoStart_t, 1330

path
fileInfo, 269
uim_fileInfo, 1087

pathLen
fileInfo, 269
uim_fileInfo, 1087

pbAuto
unpack_pds_GetPortAutomaticTracking_t, 1281
unpack_pds_GetServiceAutomaticTracking_t, 1282

pbEnabled
unpack_pds_GetXTRAAutomaticDownload_t, 1282

pbIMSRegistered
imsaRegStatusInfo, 340

pbPlatform
unpack_dms_GetOfflineReason_t, 1150

pci
cellParams, 189
ltePCI, 436
nas_cellParams, 468
nas_ltePCI, 514
nas_PhyCaAggPcellInfo, 536
nas_PhyCaAggScellIndType, 537
nas_PhyCaAggScellInfo, 540
nas_umtsLTENbrCell, 584
NASPhyCaAggPcellInfo, 616
NASPhyCaAggScellIndType, 618
NASPhyCaAggScellInfo, 619
PhyCaAggPcellInfo, 822
PhyCaAggScellIndType, 824
PhyCaAggScellInfo, 827
umtsLTENbrCell, 1123

pcsDigit
PlmnID, 829

pcsfFQDNAddress
PCSCFFQDNAddressList, 815
wds_PCSCFFQDNAddressList, 1560

pdpType
pack_wds_SetDefaultProfile_t, 794

pdptype
unpack_wds_GetDefaultProfile_t, 1395

pds.h, 1728
pack_pds_ForceXTRADownload, 1730
pack_pds_GetPDSDefaults, 1730
pack_pds_GetPDSState, 1730
pack_pds_GetPortAutomaticTracking, 1731
pack_pds_GetServiceAutomaticTracking, 1731
pack_pds_GetXTRAAutomaticDownload, 1731
pack_pds_GetXTRANetwork, 1732
pack_pds_GetXTRAValidity, 1732
pack_pds_PDSInjectTimeReference, 1732
pack_pds_ResetPDSData, 1733
pack_pds_SLQSGetAGPSConfig, 1736
pack_pds_SLQSGetGPSStateInfo, 1736
pack_pds_SLQSPDSDeterminePosition, 1736
pack_pds_SLQSPDSInjectAbsoluteTimeReference, 1737
pack_pds_SLQSPDSInjectPositionData, 1737
pack_pds_SLQSSetAGPSConfig, 1737
pack_pds_SLQSSetPositionMethodState, 1738
pack_pds_SetEventReportCallback, 1733
pack_pds_SetPDSDefaults, 1733
pack_pds_SetPDSState, 1734
pack_pds_SetPortAutomaticTracking, 1734
pack_pds_SetServiceAutomaticTracking, 1734
pack_pds_SetXTRAAutomaticDownload, 1735
pack_pds_SetXTRANetwork, 1735
pack_pds_StartPDSTrackingSessionExt, 1738
pack_pds_StopPDSTrackingSession, 1738
unpack_pds_ForceXTRADownload, 1739
unpack_pds_GetPDSDefaults, 1739
unpack_pds_GetPDSState, 1739
unpack_pds_GetPortAutomaticTracking, 1740
unpack_pds_GetServiceAutomaticTracking, 1740
unpack_pds_GetXTRAAutomaticDownload, 1740
unpack_pds_GetXTRANetwork, 1741
unpack_pds_GetXTRAValidity, 1741
unpack_pds_PDSInjectTimeReference, 1742
unpack_pds_ResetPDSData, 1742
unpack_pds_SLQSGetAGPSConfig, 1745
unpack_pds_SLQSGetGPSStateInfo, 1745
unpack_pds_SLQSPDSDeterminePosition, 1746
unpack_pds_SLQSPDSInjectAbsoluteTime-Reference, 1746
unpack_pds_SLQSPDSInjectPositionData, 1746
unpack_pds_SLQSSetAGPSConfig, 1747
unpack_pds_SLQSSetPositionMethodState, 1747
unpack_pds_SetEventReport_Ind, 1742
unpack_pds_SetEventReportCallback, 1743
unpack_pds_SetPDSDefaults, 1743
unpack_pds_SetPDSState, 1743

unpack_pds_SetPdsState_Ind, 1743
unpack_pds_SetPortAutomaticTracking, 1744
unpack_pds_SetServiceAutomaticTracking, 1744
unpack_pds_SetXTRAAutomaticDownload, 1744
unpack_pds_SetXTRANetwork, 1745
unpack_pds_StartPDSTrackingSessionExt, 1747
unpack_pds_StopPDSTrackingSession, 1748
peakRate
tokenBucket, 1067
unpack_qos_tokenBucket_t, 1310
peakThroughputClass
GPRSQoS, 310
GPRSRequestedQoS, 311
LibPackGPRSRequestedQoS, 360
wds_GPRSQoS, 1557
peerNumberInfo, 819
callID, 820
numLen, 820
numPI, 820
numPlan, 820
numSI, 820
numType, 821
number, 820
PerformNetworkScan
qaGobiApiNas.h, 1959
PeriodicUpdateTimer
unpack_dms_PSMCfgChange_ind_t, 1157
periodicUpdateTimer
dms_PSMPeriodicUpdateTimerTlv, 245
PSMPeriodicUpdateTimerTlv, 854
PeriodicUpdateTimerInd
dms_PSMPeriodicUpdateTimerIndTlv, 244
PersistentLpm
unpack_dms_SLQSDmsSwiGetPCInfo_t, 1163
PersistentTechPref
unpack_nas_GetNetworkPreference_t, 1224
persoFeature
appStats, 134
appStatus, 137
uim_appStatus, 1076
persoRetries
appStats, 134
appStatus, 137
uim_appStatus, 1076
persoState
appStats, 134
appStatus, 137
uim_appStatus, 1076
persoUnblockRetries
appStats, 134
appStatus, 137
uim_appStatus, 1076
personalizationStatus, 821
feature, 821
numFeatures, 821
unblockLeft, 821
verifyLeft, 821
pfailureCause
unpack_voice_SLQSOriginateUSSD_t, 1354
USSResp, 1433
phase
nas_rxInfo, 562
rxInfo, 921
PhyCaAggPcellInfo, 822
dl_bw_value, 822
freq, 822
iLTEbandValue, 822
NasGetLTECphyCaInfo, 598
pci, 822
TlvPresent, 822
PhyCaAggScellDlBw, 822
dl_bw_value, 823
NasGetLTECphyCaInfo, 598
TlvPresent, 823
PhyCaAggScellIndType, 823
freq, 824
NasGetLTECphyCaInfo, 598
pci, 824
scell_state, 824
TlvPresent, 824
PhyCaAggScellIndex, 823
NasGetLTECphyCaInfo, 598
scell_idx, 823
TlvPresent, 823
PhyCaAggScellInfo, 824
dl_bw_value, 827
freq, 827
iLTEbandValue, 827
NasGetLTECphyCaInfo, 598
pci, 827
scell_state, 827
TlvPresent, 827
PhysicalLayer
nas_protocolSubtypeElement, 545
protocolSubtypeElement, 850
PilotEnergy
nas_NetworkStatEVDO, 530
NetworkStatEVDO, 642
PilotPN
nas_PilotSetParams, 541
PilotSetParams, 828
PilotSetData, 827
NumPilots, 827
pPilotSetInfo, 827
PilotSetParams, 828
PilotPN, 828
PilotStrength, 828
PilotType, 828
PilotStrength
nas_PilotSetParams, 541
PilotSetParams, 828
PilotType
nas_PilotSetParams, 541
PilotSetParams, 828
pin1Len
encryptedPIN1, 261

uim_encryptedPIN1, 1083
pin1Retries
appStats, 134
appStatus, 137
uim_appStatus, 1076
pin1State
appStats, 134
appStatus, 137
uim_appStatus, 1076
pin1Val
encryptedPIN1, 261
uim_encryptedPIN1, 1083
pin2Retries
appStats, 134
appStatus, 137
uim_appStatus, 1076
pin2State
appStats, 134
appStatus, 137
uim_appStatus, 1076
pinID
changeUIMPIN, 190
setPINProtection, 956
uim_changeUIMPIN, 1081
uim_setPINProtection, 1094
uim_unblockUIMPIN, 1097
uim_verifyUIMPIN, 1098
unblockUIMPIN, 1130
verifyUIMPIN, 1435
pinLen
changeUIMPIN, 190
uim_changeUIMPIN, 1081
uim_verifyUIMPIN, 1098
verifyUIMPIN, 1435
pinLength
setPINProtection, 956
uim_setPINProtection, 1094
pinOperation
setPINProtection, 956
uim_setPINProtection, 1094
pinProtection
pack_uim_SetPinProtection_t, 760
pack_uim_UnblockPin_t, 767
UIMSetPinProtectionReq, 1115
pinVal
changeUIMPIN, 190
uim_changeUIMPIN, 1081
uim_verifyUIMPIN, 1098
verifyUIMPIN, 1435
pinValue
setPINProtection, 956
uim_setPINProtection, 1094
PkQmiNasGetRFBandInfo
qaNasGetRFBandInfo.h, 2183
PkQmiNasPerformNetworkScan
qaNasPerformNetworkScan.h, 2185
PkgDescLength
unpack_swioma_SLQSOMADMGetSessionInfo_t, 1333
PkgDescription
unpack_swioma_SLQSOMADMGetSessionInfo_t, 1333
PkgName
unpack_swioma_SLQSOMADMGetSessionInfo_t, 1333
PkgNameLength
unpack_swioma_SLQSOMADMGetSessionInfo_t, 1333
pkgver
CurrentImgList, 213
unpack_dms_SLQSSwiGetFirmwareCurr_t, 1174
PktErrRate
unpack_qos_swiQosFlow_t, 1309
pktErrRate, 828
exponent, 828
multiplier, 828
PktStatElmntsV4
WdsPktStatisticsResp, 1580
PktStatElmntsV6
WdsPktStatisticsResp, 1580
plasmaIDString
pack_dms_SLQSSwiSetHostDevInfo_t, 668
unpack_dms_SLQSSwiGetHostDevInfo_t, 1177
plmn
GERANInfo, 277
LTEInfoIntrafreq, 429
nas_GERANInfo, 484
nas_LTEInfoIntrafreq, 507
nas_UMTSInfo, 582
UMTSInfo, 1121
PlmnID, 829
mcc, 829
mnc, 829
pcsDigit, 829
TlvPresent, 829
polarityIncluded
lineCtrlInfo, 390
voice_lineCtrlInfo, 1471
Port, 832
port, 832
range, 832
port
IPv4Info, 355
IPv6Info, 358
loc_IPv4Info, 399
loc_IPv6Info, 400
Port, 832
unpack_qos_Port_t, 1294
posDataNmea
pack_pds_SetEventReportCallback_t, 729
posSrc
unpack_pds_SetEventReport_Ind_t, 1285
Position Determination Service (PDS), 47
PositionDataNMEA
unpack_pds_SetEventReport_Ind_t, 1285

positionSrc
pack_loc_SLQSLOCInjectPosition_t, 686
PowerOffMode
unpack_dms_SLQSDmsSwiGetPCInfo_t, 1163
PowerSaveModeConfigReq, 832
pActiveTimer, 833
pPeriodicUpdateTimer, 833
pPsmEnableState, 833
PowerSaveModeConfigResp, 833
pActiveTimer, 834
pDurationDueToOOS, 834
pDurationThreshold, 834
pEarlyWakeupTime, 834
pPeriodicUpdateTimer, 834
pPsmEnableState, 834
pRandomizationWindow, 834
pprofileid3gpp
pack_wds_SLQSStartDataSession_t, 809
pprofileid3gpp2
pack_wds_SLQSStartDataSession_t, 809
prDNSIPv4Address
unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t, 1425
prDNSIPv6Address
unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t, 1425
prPCSCFIPv4Address
unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t, 1425
prPCSCFIPv6Address
unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t, 1425
Precedence
unpack_qos_swiQosFilter_t, 1305
precedenceClass
GPRSQoS, 310
GPRSRequestedQoS, 311
LibPackGPRSRequestedQoS, 360
wds_GPRSQoS, 1557
precisionDilution
qaGobiApiCbk.h, 1770
precisionDilution_s, 834
HDOP, 834
PDOP, 834
VDOP, 834
PrefImageList, 835
listEntries, 835
listSize, 835
prefNetwork
unpack_wds_SLQSGetCurrDataSystemStat_t, 1408
unpack_wds_SLQSSetWdsEventCallback_ind_t, 1421
prefVoiceSO, 835
evrcCapability, 837
homeOrigVoiceSO, 837
homePageVoiceSO, 837
namID, 837
roamOrigVoiceSO, 837
preference
pack_pds_SetXTRANetwork_t, 732
Preferred
nas_QmiNas3GppNetworkInfo, 547
SlqsNas3GppNetworkInfo, 975
prefixLen
IPv6Addr, 356
unpack_qos_IPv6Addr_t, 1293
presentationInd
ECTNum, 260
remotePartyNum, 907
voice_ECTNum, 1467
voice_remotePartyNum, 1479
priChA
CDMAChannel, 172
nas_CDMAChannel, 461
priChB
CDMAChannel, 172
nas_CDMAChannel, 461
priSize
unpack_dms_GetFirmwareRevisions_t, 1146
pridns
unpack_wds_GetDefaultProfile_t, 1395
pridnsv6
unpack_wds_GetDefaultProfile_t, 1395
primaryDNS
pack_wds_SetDefaultProfile_t, 794
PrimaryDNSV4
unpack_wds_SLQSGetRuntimeSettings_t, 1416
PrimaryDNSV6
unpack_wds_SLQSGetRuntimeSettings_t, 1416
primaryHA
unpack_wds_GetMobileIPProfile_t, 1398
privacyPref
pack_voice_SLQSVoiceSetPreferredPrivacy_t, 784
voiceSetPrefPrivacy, 1526
priver
CurrentImgList, 213
unpack_dms_SLQSSwiGetFirmwareCurr_t, 1174
priversion_str
slqsfwinfo_s, 974
unpack_dms_GetFirmwareInfo_t, 1144
Profile
GetAudioPathConfigReq, 280
GetAudioProfileResp, 283
GetAudioVolTLBConfigReq, 284
GetM2MAudioProfileResp, 300
GetM2MAudioVolumeReq, 301
GetM2MAVMuteReq, 301
GetM2MSpkrGainReq, 303
SetAudioPathConfigReq, 942
SetAudioProfileReq, 943
SetAudioVolTLBConfigReq, 944
SetM2MAudioAVCFGReq, 951
SetM2MAudioProfileReq, 953
SetM2MAudioVolumeReq, 954

SetM2MAVMuteReq, 955
SetM2MSpkrGainReq, 955
Profile3GPP, 837
pAPNClass, 842
pAPNDisabledFlag, 842
pAPNName, 842
pAPNnameSize, 842
pAddrAllocPref, 842
pAuthenticationPref, 842
pGPRSMinimumQoS, 842
pGPRSRequestedQos, 842
pIPv4AddrPref, 842
pIPv6AddPref, 842
pImCnFlag, 842
pPDNInactivTimeout, 842
pPDPtype, 843
pPassword, 842
pPasswordSize, 842
pPcscfAddrUsingDhcp, 842
pPcscfAddrUsingPCO, 842
pPdpAccessConFlag, 842
pPdpContext, 842
pPdpDataCompType, 842
pPdpHdrCompType, 842
pPriDNSIPv4AddPref, 843
pPriDNSIPv6addpref, 843
pPrimaryID, 843
pProfilename, 843
pProfilenameSize, 843
pQosClassID, 843
pSecDNSIPv4AddPref, 843
pSecDNSIPv6addpref, 843
pSecondaryFlag, 843
pSupportEmergencyCalls, 843
pTFTID1Params, 843
pTFTID2Params, 843
pUMTSMinQoS, 843
pUMTSMinQosSigInd, 843
pUMTSReqQoS, 843
pUMTSReqQoSSigInd, 843
pUsername, 843
pUsernameSize, 843
Profile3GPP2, 843
pAPNClass3GPP2, 847
pAPNEnabled3GPP2, 847
pAllowLinger, 847
pApnString, 847
pApnStringSize, 847
pAppPriority, 847
pAppType, 847
pAuthPassword, 847
pAuthPasswordSize, 848
pAuthProtocol, 848
pAuthRetryCount, 848
pAuthTimeout, 848
pDataMode, 848
pDataRate, 848
pIpcpAckTimeout, 848
pIpcpCreqRetryCount, 848
pIsPcscfAddressNedded, 848
pLcpAckTimeout, 848
pLcpCreqRetryCount, 848
pNegoDnsSrvrPref, 848
pPDNInactivTimeout3GPP2, 848
pPdnType, 848
pPppSessCloseTimer1x, 848
pPppSessCloseTimerDO, 848
pPriV6DnsAddress, 848
pPrimaryV4DnsAddress, 848
pRATType, 848
pSecV6DnsAddress, 848
pSecondaryV4DnsAddress, 848
pUserId, 848
pUserIdSize, 848
ProfileID
_GetProfileSettingIn, 68
unpack_wds_SLQSGetRuntimeSettings_t, 1416
ProfileId
pack_wds_SLQSGetProfileSettings_t, 802
profileId
wds_DHCPProfileIdTlv, 1552
wds_DHCPv4ProfileId, 1554
WdsDHCPv4ProfileId, 1576
wdsDhcpv4ProfileId, 1575
ProfileId3GPP2
unpack_qos_swiQosFlow_t, 1309
ProfileIdTlv
unpack_wds_DHCPv4ClientLease_ind_t, 1390
ProfileIdentifier, 848
profileIndex, 849
profileType, 849
ProfileIndex
PackCreateProfileOut, 813
profileIndex
pack_wds_SLQSDeleteProfile_t, 799
ProfileIdentifier, 849
SLQSDeleteProfileParams, 973
wds_ProfileIdentifier, 1561
profileList
unpack_wds_SLQSGet3GPPConfigItem_t, 1408
ProfileName
unpack_wds_SLQSGetRuntimeSettings_t, 1416
ProfileType
_GetProfileSettingIn, 68
pack_wds_SLQSGetProfileSettings_t, 802
PackCreateProfileOut, 813
unpack_wds_SLQSGetProfileSettings_t, 1413
profileType
pack_wds_SetDefaultProfile_t, 794
pack_wds_SLQSDeleteProfile_t, 799
ProfileIdentifier, 849
SLQSDeleteProfileParams, 973
wds_DHCPProfileIdTlv, 1552
wds_DHCPv4ProfileId, 1555
wds_ProfileIdentifier, 1561
WdsDHCPv4ProfileId, 1576

wdsDhcpv4ProfileId, 1575
profiletype
pack_wds_GetDefaultProfile_t, 788
Protocol
unpack_nas_GetCDMANetworkParameters_t, 1219
protocolSubtypeElement, 849
AccessMac, 850
AuthProt, 850
ControlMac, 850
EncryptProt, 850
ForwardMac, 850
IdleState, 850
KeyExchange, 850
MultDisc, 850
PhysicalLayer, 850
ReverseMac, 850
SecProt, 850
VirtStream, 851
ProvisionStatus
CLIPResp, 194
CLIRResp, 195
CNAPResp, 197
COLPResp, 198
COLRResp, 198
voice_CLIPResp, 1458
voice_CLIRResp, 1458
voice_CNAPResp, 1459
voice_COLPResp, 1460
voice_COLRResp, 1461
psAttachState
nas_servSystem, 567
NASServingSystemInfo, 627
ServingSystemInfo, 936
servSystem, 938
psBarStatus
CallBarringSysInfo, 153
callBarStatus, 154
nas_CallBarringSysInfo, 459
nas_callBarStatus, 460
psState
CommInfo, 200
nas_CommInfo, 472
psc
nas_UMTSInfo, 582
nas_wcdmaCellInfo, 586
nas_WCDMASysInfo, 591
UMTSInfo, 1122
wcdmaCellInfo, 1534
WCDMASysInfo, 1544
pscValid
nas_WCDMASysInfo, 591
WCDMASysInfo, 1544
pscsfIPv4Addr
PCSCFIPv4ServerAddressList, 816
wds_PCSCFIPv4ServerAddressList, 1561
psetting
unpack_wds_GetAutoconnect_t, 1390
psid
pack_wds_SLQSStopDataSession_t, 810
unpack_wds_SLQSStartDataSession_t, 1423
puk1Retries
appStats, 134
appStatus, 137
uim_appStatus, 1076
puk2Retries
appStats, 134
appStatus, 137
uim_appStatus, 1076
pukLen
uim_unblockUIMPIN, 1097
unblockUIMPIN, 1130
pukVal
uim_unblockUIMPIN, 1098
unblockUIMPIN, 1130
pukValue
pack_dms_UIMUnblockPIN_t, 673
pv4sessionId
WdsIpAddressInfoReq, 1577
pv6sessionId
WdsIpAddressInfoReq, 1577
pwrDenialTime
lineCtrlInfo, 390
voice_lineCtrlInfo, 1471

QMI_LITE_WDS_CURRENT_CALL_DB_MASK
wds.h, 2299
QMI_LITE_WDS_LAST_CALL_DB_MASK
wds.h, 2299
QMI_SAR_RF_STATE_1
qaGobiApiSar.h, 2007
QMI_SAR_RF_STATE_2
qaGobiApiSar.h, 2007
QMI_SAR_RF_STATE_3
qaGobiApiSar.h, 2007
QMI_SAR_RF_STATE_4
qaGobiApiSar.h, 2007
QMI_SAR_RF_STATE_5
qaGobiApiSar.h, 2007
QMI_SAR_RF_STATE_6
qaGobiApiSar.h, 2007
QMI_SAR_RF_STATE_7
qaGobiApiSar.h, 2007
QMI_SAR_RF_STATE_8
qaGobiApiSar.h, 2007
QMI_SAR_RF_STATE_DEFAULT
qaGobiApiSar.h, 2007
QMI_WDS_CURRENT_CALL_DB_MASK
qaGobiApiWds.h, 2146
QMI_WDS_LAST_CALL_DB_MASK
qaGobiApiWds.h, 2146
QCI
LibPackQosClassID, 384
QosClassID, 896
QCWWAN2kConnect
qaGobiApiDcs.h, 1844
QCWWAN2kEnumerateDevices

qaGobiApiDcs.h, 1845
QCWWAN2kGetConnectedDeviceID
qaGobiApiDcs.h, 1845
QCWWANConnect
qaGobiApiDcs.h, 1846
QCWWANDisconnect
qaGobiApiDcs.h, 1846
QCWWANEnumerateDevices
qaGobiApiDcs.h, 1847
QFlowState
unpack_qos_QosFlowInfo_t, 1295
QLIC
DeviceConfigDetail, 237
nas_DeviceConfigDetail, 479
qaCbkCatEventReportInd.h
eTLV_CBK_ALPHA_IDENTIFIER, 1749
eTLV_CBK_DISPLAY_TEXT, 1749
eTLV_CBK_END_PROACTIVE_SESSION, 1749
eTLV_CBK_GET_IN_KEY, 1749
eTLV_CBK_GET_INPUT, 1749
eTLV_CBK_LANGUAGE_NOTIFICATION, 1749
eTLV_CBK_REFRESH, 1749
eTLV_CBK_SELECT_ITEM, 1749
eTLV_CBK_SETUP_EVENT_LIST, 1749
eTLV_CBK_SETUP_IDLE_MODE_TEXT, 1749
eTLV_CBK_SETUP_MENU, 1749
eTLV_END_PROACTIVE_SESSION_LENGTH, 1749
eTLV_REFRESH_LENGTH, 1749
eTLV_SETUP_EVENT_LIST_LENGTH, 1749
qaCbkSwiOmaDmEventReportInd.h
eTLV_IND_OMA_DM_CONFIG, 1750
eTLV_IND_OMA_DM_FOTA, 1750
eTLV_IND_OMA_DM_NOT, 1750
qaGobiApiCbk.h
DEVICE_STATE_BOOT, 1804
DEVICE_STATE_DISCONNECTED, 1804
DEVICE_STATE_READY, 1804
DEVICE_STATE_SERIAL_ONLY, 1804
eQA_QMI_SVC_NA, 1805
eQA_QMI_SVC_NAS, 1805
eQA_QMI_SVC_WDS, 1805
SMS_EVENT_ETWS, 1805
SMS_EVENT_ETWS_PLMN, 1805
SMS_EVENT_MESSAGE_MODE, 1805
SMS_EVENT_MT_MESSAGE, 1805
SMS_EVENT_SMS_ON_IMS, 1805
SMS_EVENT_SMSC_ADDRESS, 1805
SMS_EVENT_TRANSFER_ROUTE_MT_MESSAGE, 1805
SYS_SRV_DOMAIN_CAMPED, 1805
SYS_SRV_DOMAIN_CS_ONLY, 1805
SYS_SRV_DOMAIN_CS_PS, 1805
SYS_SRV_DOMAIN_NO_SRV, 1805
SYS_SRV_DOMAIN_PS_ONLY, 1805
qaGobiApiFms.h
eGOBI_DEV_SERIES_9X07_9X50, 1897
eGOBI_DEV_SERIES_9X15, 1897
eGOBI_DEV_SERIES_9X30, 1897
eGOBI_DEV_SERIES_G3K, 1897
eGOBI_DEV_SERIES_NON_GOBI, 1897
eGOBI_DEV_SERIES_SIERRA_GOBI, 1897
eGOBI_DEV_SERIES_UNKNOWN, 1897
eGOBI_IMG_CAR_3, 1898
eGOBI_IMG_CAR_AERIS, 1898
eGOBI_IMG_CAR_ALLTEL, 1897
eGOBI_IMG_CAR_AMX_TELCEL, 1898
eGOBI_IMG_CAR_ATT, 1897
eGOBI_IMG_CAR_BELL, 1897
eGOBI_IMG_CAR_BHARTI, 1898
eGOBI_IMG_CAR_BRASIL_VIVO, 1898
eGOBI_IMG_CAR_CHINA_MOBILE, 1898
eGOBI_IMG_CAR_CHINA_TELECOM, 1897
eGOBI_IMG_CAR_CHINA_UNICOM, 1897
eGOBI_IMG_CAR_EMOBILE, 1898
eGOBI_IMG_CAR_FACTORY, 1897
eGOBI_IMG_CAR_GENERIC, 1897
eGOBI_IMG_CAR_GENERIC_CDMA, 1897
eGOBI_IMG_CAR_IUSACELL, 1897
eGOBI_IMG_CAR_KDDI, 1897
eGOBI_IMG_CAR_KT_FREETEL, 1898
eGOBI_IMG_CAR_LEAP, 1897
eGOBI_IMG_CAR_METROPCS, 1897
eGOBI_IMG_CAR_NETCOM, 1898
eGOBI_IMG_CAR_NORF, 1897
eGOBI_IMG_CAR_NTT_DOCOMO, 1898
eGOBI_IMG_CAR_O2, 1898
eGOBI_IMG_CAR_OMH, 1897
eGOBI_IMG_CAR_ORANGE, 1898
eGOBI_IMG_CAR_RELIANCE1, 1897
eGOBI_IMG_CAR_RELIANCE2, 1898
eGOBI_IMG_CAR_ROGERS, 1898
eGOBI_IMG_CAR_SFR, 1898
eGOBI_IMG_CAR_SINGTEL_OPTUS, 1898
eGOBI_IMG_CAR_SK_TELCOM1, 1897
eGOBI_IMG_CAR_SK_TELCOM2, 1898
eGOBI_IMG_CAR_SOFTBANK, 1898
eGOBI_IMG_CAR_SPRINT, 1897
eGOBI_IMG_CAR_SWISSCOM, 1898
eGOBI_IMG_CAR_TATA, 1897
eGOBI_IMG_CAR_TELCOM_ITALIA, 1898
eGOBI_IMG_CAR_TELCOM_NZ, 1897
eGOBI_IMG_CAR_TELEFONICA, 1898
eGOBI_IMG_CAR_TELENOR, 1898
eGOBI_IMG_CAR_TELIASONERA, 1898
eGOBI_IMG_CAR_TELSTRA1, 1897
eGOBI_IMG_CAR_TELSTRA2, 1898
eGOBI_IMG_CAR_TELUS, 1897
eGOBI_IMG_CAR_TMOBILE, 1897
eGOBI_IMG_CAR_US, 1897
eGOBI_IMG_CAR_VERIZON, 1897
eGOBI_IMG_CAR_VODAFONE, 1897
eGOBI_IMG_GPS_ASSISTED, 1898
eGOBI_IMG_GPS_NO_XTRA, 1898
eGOBI_IMG_GPS_NONE, 1898
eGOBI_IMG_GPS_STAND_ALONE, 1898

eGOBI_IMG_REG_ASIA, 1898
eGOBI_IMG_REG_AUS, 1898
eGOBI_IMG_REG_EU, 1898
eGOBI_IMG_REG_GLOBAL, 1898
eGOBI_IMG_REG_LA, 1898
eGOBI_IMG_REG_NA, 1898
eGOBI_IMG_TECH_CDMA, 1899
eGOBI_IMG_TECH_UMTS, 1899
eGobi_DEV_SERIES_MC83, 1897
qaGobiApiNas.h
eNAS_LTE_CPHY_CA_BW_NRB_100, 1949
eNAS_LTE_CPHY_CA_BW_NRB_15, 1949
eNAS_LTE_CPHY_CA_BW_NRB_25, 1949
eNAS_LTE_CPHY_CA_BW_NRB_50, 1949
eNAS_LTE_CPHY_CA_BW_NRB_6, 1949
eNAS_LTE_CPHY_CA_BW_NRB_75, 1949
eNAS_LTE_CPHY_SCELL_STATE_CONFIGURED_ACTIVATED, 1949
eNAS_LTE_CPHY_SCELL_STATE_CONFIGURED_DEACTIVATED, 1949
eNAS_LTE_CPHY_SCELL_STATE_DECONFIGURED, 1949
eNAS_RADIO_IF_GSM, 1948
eNAS_RADIO_IF_LTE, 1948
eNAS_RADIO_IF_TDSCDMA, 1948
eNAS_RADIO_IF_UMTS, 1948
eSYS_SRV_DOMAIN_CAMPED, 1948
eSYS_SRV_DOMAIN_CS_ONLY, 1948
eSYS_SRV_DOMAIN_CS_PS, 1948
eSYS_SRV_DOMAIN_NO_SRV, 1948
eSYS_SRV_DOMAIN_PS_ONLY, 1948
eSYS_SRV_DOMAIN_UNKNOWN, 1948
qaGobiApiPds.h
eSetServiceAutomaticTrackingDisable, 1985
eSetServiceAutomaticTrackingEnable, 1985
qaGobiApiSar.h
QMI_SAR_RF_STATE_1, 2007
QMI_SAR_RF_STATE_2, 2007
QMI_SAR_RF_STATE_3, 2007
QMI_SAR_RF_STATE_4, 2007
QMI_SAR_RF_STATE_5, 2007
QMI_SAR_RF_STATE_6, 2007
QMI_SAR_RF_STATE_7, 2007
QMI_SAR_RF_STATE_8, 2007
QMI_SAR_RF_STATE_DEFAULT, 2007
qaGobiApiVoice.h
VOICE_SUPS_SRV_CLASS_DATA, 2122
VOICE_SUPS_SRV_CLASS_DATACIRCUITASYNC, 2122
VOICE_SUPS_SRV_CLASS_DATACIRCUITSYNC, 2122
VOICE_SUPS_SRV_CLASS_FAX, 2122
VOICE_SUPS_SRV_CLASS_NONE, 2122
VOICE_SUPS_SRV_CLASS_PACKETACCESS, 2122
VOICE_SUPS_SRV_CLASS_PADACCESS, 2122
VOICE_SUPS_SRV_CLASS_SMS, 2122
VOICE_SUPS_SRV_CLASS_VOICE, 2122
qaGobiApiWds.h
QMI_WDS_CURRENT_CALL_DB_MASK, 2146
QMI_WDS_LAST_CALL_DB_MASK, 2146
qaNasGetRFBandInfo.h
eTLV_LTE_OPERATIONAL_MODE, 2183
eTLV_RF_BAND_INFO, 2183
eTLV_RF_BANDWIDTH_INFO, 2183
eTLV_RF_DEDICATED_BAND_INFO, 2183
eTLV_RF_EXT_FORMAT_BAND_INFO, 2183
qaNasPerformNetworkScan.h
eTLV_3GPP_NETWORK_INFO, 2184
qaCbkCatEventReportInd.h, 1748
UpkQmiCbkCatEventReportInd, 1750
qaCbkSwiOmaDmEventReportInd.h, 1750
UpkQmiCbkSwiOmaDmEventReportInd, 1751
UpkQmiCbkSwiOmaDmEventReportIndExt, 1751
qaGobiApiAudio.h, 1751
SLQSGetAudioPathConfig, 1751
SLQSGetAudioProfile, 1752
SLQSGetAudioVolTLBConfig, 1752
SLQSSetAudioPathConfig, 1753
SLQSSetAudioProfile, 1753
SLQSSetAudioVolTLBConfig, 1754
qaGobiApiCat.h, 1754
CATSendEnvelopeCommand, 1755
CATSendTerminalResponse, 1755
qaGobiApiCbk.h, 1756
accelAcceptReady, 1766
accelTempAcceptReady, 1766
CBK_ENABLE_EVENT, 1764
CBK_NOCHANGE, 1764
DEREGISTER_EVENT, 1764
DEREGISTER_SRV, 1764
device_state_enum, 1804
eDevState, 1767
eQaQMIService, 1804
eSMSEventType, 1767
EVENT_MASK_CARD, 1764
FIRST_INSTANCE, 1765
gpsTime, 1767
gyroAcceptReady, 1767
gyroTempAcceptReady, 1768
INVALID_INSTACNE, 1765
IPV4, 1765
IPV4V6, 1765
IPV6, 1765
iSLQSSetDUNCallInfoCallback, 1805
iSLQSSetSignalStrengthsCallback, 1805
iSLQSSetWdsFirstInstEventCallback, 1805
iSLQSSetWdsSecondInstEventCallback, 1805
iSLQSSetWdsThirdInstEventCallback, 1805
iSLQSSetWdsXferStatsFirstInstCallback, 1805
iSLQSSetWdsXferStatsSecondInstCallback, 1806
iSetCATEventCallback, 1805
iSetSignalStrengthCallback, 1805
LteNasReleaseInfo, 1768
MAX_NO_OF_CALLS, 1765
MAX_NO_OF_FILES, 1765

MAX_NO_OF_SLOTS, 1765
MAX_PATH_LENGTH, 1765
MAXUSSDLENGTH, 1765
modemTempNotification, 1769
NAS_SRV, 1765
NUM_OF_SET, 1765
PDS_SRV, 1765
packetSrvStatus, 1769
precisionDilution, 1770
REGISTER_EVENT, 1766
REGISTER_SRV, 1766
ResetInfoNotification, 1771
SECOND_INSTANCE, 1766
SLQSNasNetworkRejectCallback, 1821
SLQSNasNetworkTimeCallBack, 1821
SLQSNasSigInfo2CallBack, 1821
SLQSNasSigInfoCallBack, 1822
SLQSNasSwiOTAMessageCallback, 1822
SLQSNasSysInfoCallBack, 1823
SLQSNasTimerCallback, 1823
SLQSSetBandPreferenceCbk, 1823
SLQSSetDHCPv4ClientLeaseStatusCallback, 1824
SLQSSetDUNCallInfoCallback, 1825
SLQSSetDataSystemStatusCallback, 1824
SLQSSetIMSAPdpStatusCallback, 1825
SLQSSetIMSARatStatusCallback, 1825
SLQSSetIMSARegStatusCallback, 1826
SLQSSetIMSASvcStatusCallback, 1826
SLQSSetIMSSMSConfigCallback, 1827
SLQSSetIMSUserConfigCallback, 1827
SLQSSetIMSVoIPConfigCallback, 1828
SLQSSetLocInjectPositionCallback, 1828
SLQSSetLocInjectUTCTimeCallback, 1828
SLQSSetModemTempCallback, 1828
SLQSSetPacketSrvStatusCallback, 1829
SLQSSetQosEventCallback, 1829
SLQSSetQosNWStatusCallback, 1830
SLQSSetQosPriEventCallback, 1830
SLQSSetQosStatusCallback, 1830
SLQSSetRegMgrConfigCallback, 1831
SLQSSetSDKTerminatedCallback, 1831
SLQSSetSIPConfigCallback, 1833
SLQSSetSMSEventCallback, 1834
SLQSSetServingSystemCallback, 1832
SLQSSetSessionStateCallback, 1832
SLQSSetSignalStrengthsCallback, 1833
SLQSSetSwiGetResetInfoCallback, 1834
SLQSSetSwiHDRPersCallback, 1834
SLQSSetSysSelectionPrefCallBack, 1835
SLQSSetTransLayerInfoCallback, 1835
SLQSSetTransNWRegInfoCallback, 1835
SLQSSetWdsEventCallback, 1836
SLQSSetWdsTransferStatisticCallback, 1837
SLQSSwiAVMSEventReportCallback, 1837
SLQSTmdMitigationLvlRptCallback, 1837
SLQSUIMSetRefreshCallBack, 1838
SLQSUIMSetStatusChangeCallBack, 1838
SLQSVoiceInfoRecCallback, 1838
SLQSVoiceSetAllCallStatusCallBack, 1839
SLQSVoiceSetDTMFEventCallBack, 1839
SLQSVoiceSetOTASPStatusCallBack, 1840
SLQSVoiceSetPrivacyChangeCallBack, 1840
SLQSVoiceSetSUPSCallBack, 1841
SLQSVoiceSetSUPSNotificationCallback, 1841
SLQSWmsAsyncRawSendCallBack, 1841
SLQSWmsMemoryFullCallBack, 1842
SLQSWmsMessageWaitingCallBack, 1842
SMSAsyncRawSend, 1772
SMSCAddressInfo, 1773
SMSEtwsMessageInfo, 1773
SMSEtwsPlmnInfo, 1774
SMSEventInfo, 1774
SMSEventType, 1805
SMSMTMessageInfo, 1775
SMSMessageModeInfo, 1775
SMSOnIMSInfo, 1775
SMSTransferRouteMTMessageInfo, 1775
sensorDataUsage, 1771
sessionInformation, 1772
sessionInformationExt, 1772
SetActivationStatusCallback, 1806
SetCATEventCallback, 1806
SetCfgParamChangeCallback, 1807
SetDataCapabilitiesCallback, 1807
SetDeviceStateChangeCbk, 1808
SetFwDldCompletionCbk, 1808
SetGPSCallback, 1808
SetLURejectCallback, 1813
SetLocBestAvailPosCallback, 1809
SetLocCradleMountCallback, 1809
SetLocDeleteAssistDataCallback, 1809
SetLocEngineStateCallback, 1810
SetLocEventMaskNMEACallback, 1810
SetLocEventPositionCallback, 1810
SetLocEventTimeSyncCallback, 1810
SetLocGetServerCallback, 1811
SetLocGnssSvInfoCallback, 1811
SetLocInjectSensorDataCallback, 1811
SetLocInjectTimeCallback, 1812
SetLocOpModeCallback, 1812
SetLocSensorStreamingCallback, 1812
SetLocSetExtPowerConfigCallback, 1812
SetLocSetServerCallback, 1813
SetMobileIPStatusCallback, 1813
SetNMEACallback, 1815
SetNasLTECphyCaIndCallback, 1814
SetNetChangeCbk, 1814
SetNewSMSCallback, 1815
SetOMADMStateCallback, 1815
SetPDSStateCallback, 1816
SetPowerCallback, 1816
SetRFInfoCallback, 1817
SetRMTransferStatisticsCallback, 1817
SetRankIndicatorCallback, 1817
SetRoamingIndicatorCallback, 1817

SetSLQSOMADMAlertCallback, 1818
SetSLQSOMADMAlertCallbackExt, 1819
SetSignalStrengthCallback, 1818
SetUSSDNoWaitIndicationCallback, 1820
SetUSSDNotificationCallback, 1820
SetUSSDReleaseCallback, 1820
SetUimSlotStatusChangeCallback, 1819
svUsedforFix, 1776
SwiAvmsEventInd, 1776
SwiOTAMsg, 1776
tFNASwiLTECphyCalInfo, 1777
tFNASwiOTAMsg, 1778
tFNActivationStatus, 1777
tFNAllCallStatus, 1777
tFNAsyncRawSend, 1778
tFNBandPreference, 1778
tFNBestAvailPos, 1779
tFNCATEvent, 1780
tFNCbkUimSlotStatusChangeInd, 1780
tFNDHCPv4ClientLeaseStatus, 1782
tFNDTMFEvent, 1782
tFNDUNCallInfo, 1782
tFNDataCapabilities, 1780
tFNDataSysStatus, 1781
tFNDelAssistData, 1781
tFNDeviceStateChange, 1781
tFNEventNmea, 1782
tFNEventPosition, 1782
tFNFwDldCompletion, 1783
tFNGetServer, 1783
tFNGnssSvInfo, 1783
tFNHDRPersonaity, 1783
tFNImsRegMgrConfig, 1784
tFNImsSIPConfig, 1785
tFNImsSMSConfig, 1785
tFNImsUserConfig, 1785
tFNImsVoIPConfig, 1785
tFNImsaPdpStatus, 1784
tFNImsaRatStatus, 1784
tFNImsaRegStatus, 1784
tFNImsaSvcStatus, 1784
tFNInfoRec, 1785
tFNInjectPosition, 1786
tFNInjectSensorData, 1786
tFNInjectTimeStatus, 1786
tFNInjectUTCTime, 1786
tFNLUReject, 1787
tFNMemoryFull, 1789
tFNMessageWaiting, 1789
tFNMitiLvlRpt, 1789
tFNMobileIPStatus, 1789
tFNModemTempInfo, 1789
tFNNasTimer, 1790
tFNNet, 1790
tFNNetworkReject, 1790
tFNNetworkTime, 1790
tFNNewGPS, 1791
tFNNewNMEA, 1791
tFNNewRMTransferStatistics, 1791
tFNNewSMS, 1792
tFNOMADMState, 1792
tFNOTASPStatus, 1793
tFNOpMode, 1793
tFNPDSState, 1794
tFNPSMCfgParamChange, 1795
tFNPacketSrvState, 1794
tFNPower, 1794
tFNPrivacyChange, 1794
tFNQosNWStatus, 1795
tFNQosPriEvent, 1795
tFNQosStatus, 1795
tFNRFInfo, 1797
tFNRankIndicator, 1796
tFNResetInfo, 1796
tFNRoamingIndicator, 1797
tFNSDKTerminated, 1797
tFNSLQSOMADMAlert, 1799
tFNSLQSQOSEvent, 1800
tFNSLQSSessionState, 1800
tFNSLQSSignalStrengths, 1800
tFNSLQSWDSEvent, 1800
tFNSMSEvents, 1801
tFNSUPSInfo, 1801
tFNSUPSNotification, 1801
tFNSensorStreaming, 1798
tFNServingSystem, 1798
tFNSetCradleMount, 1798
tFNSetEngineState, 1798
tFNSetEventTimeSync, 1798
tFNSetExtPowerConfig, 1799
tFNSetServer, 1799
tFNSigInfo, 1799
tFNSignalStrength, 1799
tFNSwiAvmEventReport, 1801
tFNSysInfo, 1801
tFNSysSelectionPref, 1802
tFNUIMRefresh, 1802
tFNUIMStatusChangeInfo, 1802
tFNUSSDNoWaitIndication, 1803
tFNUSSDNotification, 1803
tFNUSSDRelease, 1803
tFNtransLayerInfo, 1802
tFNtransNWRegInfo, 1802
THIRD_INSTANCE, 1766
transLayerNotification, 1803
transNWRegInfoNotification, 1804
USSD_DCS_8BIT, 1766
USSD_DCS_ASCII, 1766
USSD_DCS_UCS2, 1766
VOICE_SRV, 1766
WDS_SRV, 1766
qaGobiApiDcs.h, 1843
GetQmapIsSupported, 1844
LEN, 1844
PORTNAM_LEN, 1844
QCWWAN2kConnect, 1844

QCWWAN2kEnumerateDevices, 1845
QCWWAN2kGetConnectedDeviceID, 1845
QCWWANConnect, 1846
QCWWANDisconnect, 1846
QCWWANEnumerateDevices, 1847
SLQSGetDeviceMode, 1848
SLQSGetNetStatistic, 1848
SLQSGetUsbPortNames, 1849
SLQSKillSDKProcess, 1849
SLQSSetLoggingMask, 1850
SLQSStart, 1850
SLQSStart_AVAgent, 1851
SLQSStartSrv, 1851
SetQmapIPTable, 1847
SetQmapIPv6Table, 1847
SetSDKImagePath, 1848
qaGobiApiDms.h, 1852
ActivateAutomatic, 1861
custFeaturesInfo, 1855
custFeaturesSetting, 1856
dmsCurrentPRLInfo, 1857
ERIFileparams, 1858
GetActivationState, 1862
GetDeviceCapabilities, 1862
GetFirmwareRevision, 1863
GetFirmwareRevisions, 1864
GetHardwareRevision, 1864
GetIMSI, 1865
GetManufacturer, 1865
GetModelID, 1866
GetNetworkTime, 1866
GetOfflineReason, 1867
GetPRLVersion, 1868
GetPower, 1868
GetSerialNumbers, 1868
GetVoiceNumber, 1869
MAX_CUST_ID_LEN, 1855
MAX_FSN_LENGTH, 1855
ResetToFactoryDefaults, 1870
SLQSDmsSwiGetPCInfo, 1871
SLQSDmsSwiGetResetInfo, 1871
SLQSDmsSwiIndicationRegister, 1871
SLQSGetBandCapabilities, 1871
SLQSGetBandCapability, 1872
SLQSGetCurrentPRLInfo, 1874
SLQSGetCustFeatures, 1874
SLQSGetCustFeaturesV2, 1875
SLQSGetERIFile, 1875
SLQSGetPowerSaveModeConfig, 1875
SLQSGetSerialNumbers, 1876
SLQSSetCustFeatures, 1876
SLQSSetCustFeaturesV2, 1877
SLQSSetPowerSaveModeConfig, 1877
SLQSSwiClearDyingGaspStatistics, 1878
SLQSSwiGetCrashAction, 1878
SLQSSwiGetCrashInfo, 1878
SLQSSwiGetDyingGaspCfg, 1879
SLQSSwiGetDyingGaspStatistics, 1879
SLQSSwiGetFSN, 1879
SLQSSwiGetFwUpdateStatus, 1880
SLQSSwiGetHostDevInfo, 1880
SLQSSwiGetHostDevInfoParams, 1859
SLQSSwiGetOSInfo, 1881
SLQSSwiGetOSInfoParams, 1859
SLQSSwiGetSerialNoExt, 1881
SLQSSwiGetSerialNoExtParams, 1860
SLQSSwiGetUSBComp, 1881
SLQSSwiSetCrashAction, 1882
SLQSSwiSetDyingGaspCfg, 1882
SLQSSwiSetHostDevInfo, 1883
SLQSSwiSetHostDevInfoParams, 1860
SLQSSwiSetOSInfo, 1883
SLQSSwiSetOSInfoParams, 1861
SLQSSwiSetUSBComp, 1883
SLQSUIMGetState, 1884
serialNumbersInfo, 1858
SetPower, 1870
UIMChangePIN, 1884
UIMGetControlKeyStatus, 1885
UIMGetICCID, 1886
UIMGetPINStatus, 1887
UIMSetControlKeyProtection, 1888
UIMSetPINProtection, 1888
UIMUnblockControlKey, 1889
UIMUnblockPIN, 1890
UIMVerifyPIN, 1891
ValidateSPC, 1891
qaGobiApiFms.h, 1892
BUILD_ID_LEN, 1896
DEVICE_OFFLINE, 1896
DEVICE_RESET, 1896
DEVICE_SHUTDOWN, 1896
DeleteStoredImage, 1899
DownloadToSlot, 1899
eGetDeviceSeries, 1900
eGobiDeviceSeries, 1897
eGobiImageCarrier, 1897
eGobiImageGPS, 1898
eGobiImageRegion, 1898
eGobiImageTech, 1898
GetImageStore, 1901
GetImagesPreference, 1900
GetStoredImages, 1901
IMG_ID_LEN, 1896
IMGDETAILS_LEN, 1896
PRI_UPDATE_FAIL, 1896
SLQSDownloadFirmwareToSlot, 1903
SLQSGetBootVersionNumber, 1904
SLQSGetFirmwareInfo, 1904
SLQSGetImageInfo, 1905
SLQSGetImageInfo_9x15, 1905
SLQSGetImageInfoMC77xx, 1906
SLQSGetImageInfoMC83xx, 1906
SLQSGetValidFwPriCombinations, 1907
SLQSIsSpkgFormatRequired, 1907
SLQSSetCrashStateCheckIgnore, 1908

SLQSSetSIMBasedImageSwitching, 1908
SLQSSetSpkgFormatRequired, 1908
SLQSSwiGetAllCarrierImages, 1909
SLQSSwiGetFirmwareCurr, 1909
SLQSUpgradeFirmware9x07, 1910
SLQSUpgradeFirmware9x15, 1910
SetImagePath, 1901
SetImagesPreference, 1902
UNIQUE_ID_LEN, 1896
upgrade_9x07_9x50_fw, 1911
upgrade_mc77xx_fw, 1911
UpgradeFirmware2k, 1912
qaGobiApiIms.h, 1912
SLQSGetIMSSMSConfig, 1913
SLQSGetIMSUserConfig, 1914
SLQSGetIMSVoIPConfig, 1914
SLQSGetRegMgrConfig, 1915
SLQSGetSIPConfig, 1915
SLQSImsConfigIndicationRegister, 1915
SLQSSetIMSSMSConfig, 1916
SLQSSetIMSUserConfig, 1916
SLQSSetIMSVoIPConfig, 1917
SLQSSetRegMgrConfig, 1917
SLQSSetSIPConfig, 1918
qaGobiApiImsa.h, 1919
SLQSGetIMSARegStatus, 1919
SLQSGetIMSAServiceStatus, 1920
SLQSGetIMSASupportedFields, 1920
SLQSGetIMSASupportedMsg, 1921
SLQSRegisterIMSAIndication, 1921
qaGobiApiLoc.h, 1922
SLQSLOCDelAssData, 1923
SLQSLOCEventRegister, 1923
SLQSLOCGetBestAvailPos, 1924
SLQSLOCGetServer, 1924
SLQSLOCInjectPosition, 1925
SLQSLOCInjectSensorData, 1925
SLQSLOCInjectUTCTime, 1926
SLQSLOCSetCradleMountConfig, 1926
SLQSLOCSetExtPowerState, 1926
SLQSLOCSetOpMode, 1927
SLQSLOCSetServer, 1927
SLQSLOCStart, 1928
SLQSLOCStop, 1928
SwiLocGetAutoStart, 1929
SwiLocSetAutoStart, 1929
qaGobiApiNas.h, 1929
eSYS_SRV_DOMAIN, 1948
GetACCOLC, 1949
GetANAAAAuthenticationStatus, 1949
GetCDMANetworkParameters, 1950
GetHomeNetwork, 1951
GetHomeNetwork3GPP2, 1952
GetNetworkPreference, 1954
GetRFInfo, 1955
GetServingNetwork, 1955
GetServingNetworkCapabilities, 1956
GetSignalStrengths, 1957
IMSI_M_S1_LENGTH, 1935
IMSI_M_S2_LENGTH, 1935
InitiateDomainAttach, 1958
InitiateNetworkRegistration, 1958
MAX_PILOT_SETS, 1935
NAM_NAME_LENGTH, 1935
PLMN_LENGTH, 1936
PerformNetworkScan, 1959
SLQSConfigSigInfo, 1962
SLQSGetErrorRate, 1963
SLQSGetNetworkTime, 1963
SLQSGetOperatorNameData, 1963
SLQSGetPLMNName, 1964
SLQSGetServingSystem, 1964
SLQSGetSignalStrength, 1965
SLQSGetSysSelectionPref, 1965
SLQSGetSysSelectionPrefExt, 1966
SLQSInitiateNetworkRegistration, 1966
SLQSNASGetLTECPHYCaInfo, 1969
SLQSNASGeteDRXParams, 1968
SLQSNASSeteDRXParams, 1973
SLQSNASSwiGetChannelLock, 1973
SLQSNASSwiSetChannelLock, 1974
SLQSNasConfigSigInfo2, 1967
SLQSNasGet3GPP2Subscription, 1967
SLQSNasGetCellLocationInfo, 1968
SLQSNasGetHDRColorCode, 1968
SLQSNasGetRFInfo, 1969
SLQSNasGetSigInfo, 1970
SLQSNasGetSysInfo, 1970
SLQSNasGetTxRxInfo, 1970
SLQSNasIndicationRegister, 1971
SLQSNasIndicationRegisterExt, 1972
SLQSNasIndicationRegisterLTECphyCa, 1972
SLQSNasSwiIndicationRegister, 1974
SLQSNasSwiModemStatus, 1974
SLQSPerformNetworkScan, 1975
SLQSSetBandPreference, 1975
SLQSSetSysSelectionPref, 1977
SLQSSetSysSelectionPrefExt, 1977
SLQSSwiGetHDRPersonality, 1977
SLQSSwiGetHDRProtSubtype, 1978
SLQSSwiGetHRPDStats, 1978
SLQSSwiGetLteCQI, 1979
SLQSSwiGetLteSccRxInfo, 1979
SLQSSwiNetworkDebug, 1979
SLQSSwiPSDetach, 1980
SetACCOLC, 1959
SetCDMANetworkParameters, 1960
SetNetworkPreference, 1961
SlqsNas3GppNetworkRAT, 1936
slqsNetworkScanInfo, 1936
sysSelectPrefExtInfo, 1937
sysSelectPrefInfo, 1938
sysSelectPrefParams, 1942
UATISIZE, 1936
qaGobiApiOmadm.h, 1980
OMADMCancelSession, 1981

OMADMGetPendingNIA, 1981
OMADMGetSessionInfo, 1982
OMADMStartSession, 1983
qaGobiApiPds.h, 1983
DEFAULTBYTEVALUE, 1985
DEFAULTLONGVALUE, 1985
DEFAULTWORDVALUE, 1985
ForceXTRADownload, 1985
GetPDSDefaults, 1985
GetPDSState, 1986
GetPortAutomaticTracking, 1986
GetServiceAutomaticTracking, 1987
GetXTRAAutomaticDownload, 1987
GetXTRANetwork, 1988
GetXTRAValidity, 1988
PDSInjectTimeReference, 1989
ResetPDSData, 1989
SLQSGetAGPSConfig, 1993
SLQSGetGPSStateInfo, 1994
SLQSPDSDeterminePosition, 1994
SLQSPDSInjectAbsoluteTimeReference, 1995
SLQSPDSInjectPositionData, 1995
SLQSSetAGPSConfig, 1996
SLQSSetPositionMethodState, 1996
SetPDSDefaults, 1990
SetPDSState, 1991
SetPortAutomaticTracking, 1991
SetServiceAutomaticTracking, 1992
SetXTRAAutomaticDownload, 1992
SetXTRANetwork, 1993
StartPDSTrackingSessionExt, 1997
StopPDSTrackingSession, 1998
qaGobiApiQos.h, 1998
SLQSQosGetFlowStatus, 1999
SLQSQosGetGranted, 2000
SLQSQosGetNWProf, 2001
SLQSQosGetNetworkStatus, 2000
SLQSQosModify, 2001
SLQSQosRel, 2002
SLQSQosReq, 2002
SLQSQosReset, 2003
SLQSQosResume, 2003
SLQSQosSuspend, 2004
SLQSQosSwiReadApnExtraParams, 2004
SLQSQosSwiReadDataStats, 2004
SetQosMuxID, 1999
qaGobiApiRms.h, 2005
GetSMSWake, 2005
SetSMSWake, 2006
qaGobiApiSar.h, 2006
eQMISARRFState, 2007
SLQSGetRfSarState, 2008
SLQSSetRfSarState, 2008
qaGobiApiSms.h, 2009
ABSOLUTE_VALIDITY, 2011
CONFIG_LEN, 2011
getIndicationRegResp, 2011
GetSMSCAddress, 2014
getTransLayerInfoResp, 2012
getTransNWRegInfoResp, 2012
MAX_SMS_ROUTES, 2011
NUM_OF_SET, 2011
qaQmi3GPP2BroadcastCfgInfo, 2012
qaQmi3GPPBroadcastCfgInfo, 2013
SLQSCDMADecodeMTTextMsg, 2017
SLQSCDMADecodeMTTextMsgExt, 2017
SLQSCDMAEncodeMOTextMsg, 2018
SLQSDeleteSMS, 2018
SLQSGetIndicationRegister, 2019
SLQSGetMessageWaiting, 2020
SLQSGetSMS, 2020
SLQSGetSMSList, 2022
SLQSGetSmsBroadcastConfig, 2021
SLQSGetTransLayerInfo, 2023
SLQSGetTransNWRegInfo, 2023
SLQSModifySMSStatus, 2023
SLQSSendAsyncSMS, 2024
SLQSSendLongSMS, 2024
SLQSSendSMS, 2025
SLQSSetIndicationRegister, 2026
SLQSSetSmsBroadcastActivation, 2026
SLQSSetSmsBroadcastConfig, 2027
SLQSSetSmsStorage, 2027
SLQSSmsGetMaxStorageSize, 2028
SLQSSmsGetMessageProtocol, 2028
SLQSSmsSetRoutes, 2029
SLQSSwiGetSMSStorage, 2029
SLQSWCDMADecodeLongTextMsg, 2030
SLQSWCDMADecodeMTTextMsg, 2030
SLQSWCDMAEncodeMOTextMsg, 2030
SaveSMS, 2015
SendSMS, 2016
setIndicationRegReq, 2013
SetSMSCAddress, 2016
TIME_DATE_BUF, 2011
TIME_STAMP_BUF, 2011
transLayerInfo, 2014
qaGobiApiSwi.h, 2031
SLQSGetPidof, 2031
SLQSGetSdkVersion, 2032
SLQSSendRawQMI, 2032
qaGobiApiSwiAudio.h, 2032
SLQSGetM2MAVMute, 2034
SLQSGetM2MAudioProfile, 2033
SLQSGetM2MAudioVolume, 2034
SLQSGetM2MSpkrGain, 2034
SLQSSetM2MAVMute, 2037
SLQSSetM2MAudioAVCFG, 2035
SLQSSetM2MAudioLPBK, 2035
SLQSSetM2MAudioNVDef, 2036
SLQSSetM2MAudioProfile, 2036
SLQSSetM2MAudioVolume, 2036
SLQSSetM2MSpkrGain, 2037
qaGobiApiSwiAvms.h, 2038
QmiSwiAvmsEventReportBinaryUpdateSession-InfoResp, 2040

QmiSwiAvmsEventReportConfigResp, 2041
QmiSwiAvmsEventReportConnectionRequest-Resp, 2041
QmiSwiAvmsEventReportDataSessionStatus-Resp, 2042
QmiSwiAvmsEventReportHTTPStatusResp, 2042
QmiSwiAvmsEventReportNotificationResp, 2043
QmiSwiAvmsEventReportPackageIDResp, 2044
QmiSwiAvmsEventReportRegStatusResp, 2044
QmiSwiAvmsEventReportSessionTypeResp, 2044
QmiSwiAvmsEventReportWAMSParamChange-Resp, 2045
QmiSwiAvmsSetSettingsAPNInfo, 2045
QmiSwiAvmsSetSettingsConnectionRetryTimers, 2045
QmiSwiAvmsSetSettingsPeriodInfo, 2045
SLQSAVMSGetSessionInfo, 2048
SLQSAVMSGetSettings, 2048
SLQSAVMSGetSettings_v2, 2048
SLQSAVMSSelection, 2049
SLQSAVMSSetEventReport, 2049
SLQSAVMSSetSettings, 2050
SLQSAVMSSetSettings_v2, 2050
SLQSAVMSSetSettingsIgnoreAutoReboot, 2050
SLQSAVMSSetSettingsReq, 2045
SLQSAVMSSetSettingsReq_v2, 2046
SLQSAVMSSettings, 2048
SLQSAVMSSettings_v2, 2048
SLQSAVMSSettingsAPNInfo, 2048
SLQSAVMSSettingsConnectionRetryTimers, 2048
SLQSAVMSSettingsPeriodsInfo, 2048
SLQSAVMSStartSession, 2051
SLQSAVMSStopSession, 2051
qaGobiApiSwiDms.h, 2052
SLQSSwiDmsGetMTU, 2053
SLQSSwiDmsGetUsbNetNum, 2053
SLQSSwiDmsSetMTU, 2053
SLQSSwiDmsSetUsbNetNum, 2054
qaGobiApiSwiOmadms.h, 2054
SLQSOMADMCancelSession, 2059
SLQSOMADMGetSessionInfo, 2060
SLQSOMADMGetSettings, 2060
SLQSOMADMGetSettings2, 2061
SLQSOMADMSendSelection, 2061
SLQSOMADMSendSelection2, 2062
SLQSOMADMSessionInfo, 2055
SLQSOMADMSetSettings, 2062
SLQSOMADMSetSettings2, 2063
SLQSOMADMSetSettings3, 2063
SLQSOMADMSettings, 2057
SLQSOMADMSettingsReqParams, 2058
SLQSOMADMSettingsReqParams3, 2058
SLQSOMADMStartSession, 2064
SLQSOMADMStartSession2, 2064
qaGobiApiTableBandClasses.h, 2065
qaGobiApiTableCallControlReturnReasons.h, 2068
qaGobiApiTableCallEndReasons.h, 2068
qaGobiApiTableCarrierCodes.h, 2085
qaGobiApiTableCodingScheme.h, 2087
qaGobiApiTableGpsCapabilityCodes.h, 2089
qaGobiApiTablePowerModes.h, 2090
qaGobiApiTableRadioInterfaces.h, 2091
qaGobiApiTableRegionCodes.h, 2091
qaGobiApiTableServiceOptions.h, 2092
qaGobiApiTableSupServiceInfoClasses.h, 2094
qaGobiApiTableSwiAudio.h, 2094
qaGobiApiTableSwiOMADMSessionStatus.h, 2095
qaGobiApiTableSwiOMADMUpdateCompleteStatus.h, 2096
qaGobiApiTableVoiceCallEndReasons.h, 2097
qaGobiApiTmd.h, 2104
SLQSTmdDeRegNotMitigationLvl, 2104
SLQSTmdGetMitigationDevList, 2105
SLQSTmdGetMitigationLvl, 2105
SLQSTmdRegNotMitigationLvl, 2105
qaGobiApiUim.h, 2106
MAX_ICCID_LENGTH, 2108
MAX_NO_OF_SLOTS, 2108
MAX_PATH_LENGTH, 2108
MAX_PUK_LENGTH, 2108
MAX_SLOTS_STATUS, 2108
SLQSUIMAuthenticate, 2108
SLQSUIMChangePin, 2109
SLQSUIMDepersonalization, 2109
SLQSUIMEventRegister, 2110
SLQSUIMGetCardStatus, 2110
SLQSUIMGetConfiguration, 2111
SLQSUIMGetFileAttributes, 2111
SLQSUIMGetSlotsStatus, 2112
SLQSUIMPowerDown, 2112
SLQSUIMPowerUp, 2113
SLQSUIMReadTransparent, 2113
SLQSUIMRefreshComplete, 2114
SLQSUIMRefreshGetLastEvent, 2114
SLQSUIMRefreshOK, 2115
SLQSUIMRefreshRegister, 2115
SLQSUIMReset, 2116
SLQSUIMSetPinProtection, 2116
SLQSUIMSwitchSlot, 2117
SLQSUIMUnblockPin, 2117
SLQSUIMVerifyPin, 2118
qaGobiApiVoice.h, 2118
AnswerUSSD, 2122
CancelUSSD, 2122
MAX_CALL_NO_LEN, 2121
MAX_NO_OF_CALLS, 2121
MAXUSSDLENGTH, 2121
OriginateUSSD, 2123
PASSWORD_LENGTH, 2122
SLQSOriginateUSSD, 2123
SLQSVoiceALSSelectLine, 2124
SLQSVoiceALSSetLineSwitching, 2124
SLQSVoiceAnswerCall, 2125
SLQSVoiceBindSubscription, 2125
SLQSVoiceBurstDTMF, 2126
SLQSVoiceDialCall, 2126

SLQSVoiceEndCall, 2127
SLQSVoiceGetAllCallInfo, 2127
SLQSVoiceGetCLIP, 2130
SLQSVoiceGetCLIR, 2131
SLQSVoiceGetCNAP, 2131
SLQSVoiceGetCOLP, 2132
SLQSVoiceGetCOLR, 2132
SLQSVoiceGetCallBarring, 2128
SLQSVoiceGetCallForwardingStatus, 2128
SLQSVoiceGetCallInfo, 2129
SLQSVoiceGetCallWaiting, 2129
SLQSVoiceGetConfig, 2133
SLQSVoiceIndicationRegister, 2133
SLQSVoiceManageCalls, 2134
SLQSVoiceOrigUSSDNoWait, 2134
SLQSVoiceSendFlash, 2135
SLQSVoiceSetCallBarringPassword, 2135
SLQSVoiceSetConfig, 2136
SLQSVoiceSetPreferredPrivacy, 2136
SLQSVoiceSetSUPSService, 2137
SLQSVoiceStartContDTMF, 2138
SLQSVoiceStopContDTMF, 2138
serviceClassInformation, 2122
qaGobiApiWds.h, 2139
GetAutoconnect, 2146
GetByteTotals, 2146
GetConnectionRate, 2147
GetDataBearerTechnology, 2148
GetDefaultProfile, 2148
GetDefaultProfileLTE, 2150
GetDefaultProfileNum, 2152
GetDormancyState, 2152
GetIPAddressLTE, 2153
GetLastMobileIPError, 2153
GetMobileIP, 2154
GetMobileIPProfile, 2154
GetPacketStatistics, 2156
GetPacketStatus, 2156
GetProfileSettingIn, 2142
GetProfileSettingOut, 2143
GetSessionDuration, 2157
GetSessionState, 2157
iGetByteTotals, 2158
iGetConnectionRate, 2158
iGetPacketStatistics, 2158
iSLQSMISetIPFamilyPreference, 2158
qmiDataBearerMasks, 2146
QmiProfileInfo, 2143
QmiWDSDataBearerTechnology, 2144
QmiWDSDataBearers, 2143
RMSetTransferStatistics, 2158
SLQSAutoConnect, 2167
SLQSCreateProfile, 2168
SLQSDeleteProfile, 2168
SLQSGet3GPPConfigItem, 2169
SLQSGetByteTotals, 2169
SLQSGetConnectionRate, 2170
SLQSGetCurrDataSystemStat, 2170
SLQSGetCurrentChannelRate, 2171
SLQSGetDUNCallInfo, 2172
SLQSGetDataBearerTechnology, 2171
SLQSGetDataBearerTechnologyExt, 2172
SLQSGetPacketStatistics, 2172
SLQSGetProfile, 2173
SLQSGetProfileSettings, 2175
SLQSGetRuntimeSettings, 2175
SLQSGetSessionState, 2175
SLQSModifyProfile, 2176
SLQSResetPacketStatics, 2177
SLQSSGetDHCPv4ClientConfig, 2179
SLQSSGetLoopback, 2179
SLQSSSetDHCPv4ClientConfig, 2180
SLQSSSetLoopback, 2180
SLQSSet3GPPConfigItem, 2177
SLQSSetProfile, 2177
SLQSStartStopDataSession, 2180
SLQSWdsGoActive, 2181
SLQSWdsGoDormant, 2181
SLQSWdsSetEventReport, 2182
SLQSWdsSwiPDPRuntimeSettings, 2182
SetActiveMobileIPProfile, 2159
SetAutoconnect, 2159
SetDefaultProfile, 2159
SetDefaultProfileLTE, 2161
SetDefaultProfileLTEV2, 2162
SetDefaultProfileNum, 2164
SetMobileIP, 2164
SetMobileIPParameters, 2165
SetMobileIPProfile, 2166
SetMuxID, 2167
slqs3GPPConfigItem, 2144
WDS_IsGobiDevice, 2183
qaNasGetRFBandInfo.h, 2183
PkQmiNasGetRFBandInfo, 2183
UpkQmiNasGetRFBandInfo, 2183
qaNasPerformNetworkScan.h, 2184
FORBIDDEN_INDEX, 2184
INDEX_ZERO, 2184
PREFERRED_INDEX, 2184
PkQmiNasPerformNetworkScan, 2185
ROAMING_INDEX, 2184
UpkQmiNasPerformNetworkScan, 2185
qaQmi3GPP2BroadcastCfgInfo
qaGobiApiSms.h, 2012
qaQmi3GPPBroadcastCfgInfo
qaGobiApiSms.h, 2013
qaQmi3Gpp2TimeZone, 855
daylightSavings, 855
leapSeconds, 855
localTimeOffset, 855
qaQmiInterfaceInfo, 855
qaQmiinstanceid, 856
qaQmisvctype, 856
v4sessionId, 856
v6sessionId, 856
qaQmiServingSystemParam, 856

BasestationID, 859
BasestationLatitude, 859
BasestationLongitude, 859
CDMA_P_Rev, 859
CDMASystemInfoExt, 859
CallBarStatus, 859
CellID, 859
concSvcInfo, 859
CurrentPLMN, 859
DTMInd, 859
DataSrvCapabilities, 859
defaultRoamInd, 859
DetailedSvcInfo, 859
Gpp2TimeZone, 859
GppNetworkDSTAdjustment, 859
GppTimeZone, 859
hdrPersonality, 859
Lac, 860
NetworkID, 860
PRLInd, 860
roamIndicatorVal, 860
RoamingIndicatorList, 860
ServingSystem, 860
SystemID, 860
trackAreaCode, 860
qaQmiinstanceid
qaQmiInterfaceInfo, 856
qaQmisvctype
qaQmiInterfaceInfo, 856
qm_wds_ds_profile_extended_err_codes
qmerrno.h, 2191
qmerrno.h
eQCWWAN_ERR_API_MUTEX_TIMEOUT, 2188
eQCWWAN_ERR_BUFFER_SZ, 2187
eQCWWAN_ERR_CANCEL_OP, 2188
eQCWWAN_ERR_DRIVER, 2188
eQCWWAN_ERR_ENUM_BEGIN, 2187
eQCWWAN_ERR_ENUM_END, 2188
eQCWWAN_ERR_FILE_COPY, 2187
eQCWWAN_ERR_FILE_OPEN, 2187
eQCWWAN_ERR_GENERAL, 2187
eQCWWAN_ERR_INTERNAL, 2187
eQCWWAN_ERR_INVALID_ARG, 2187
eQCWWAN_ERR_INVALID_DEVID, 2187
eQCWWAN_ERR_INVALID_FILE, 2187
eQCWWAN_ERR_INVALID_QMI_RSP, 2187
eQCWWAN_ERR_INVALID_XID, 2188
eQCWWAN_ERR_MALFORMED_QMI_RSP, 2187
eQCWWAN_ERR_MEMORY, 2187
eQCWWAN_ERR_MULTIPLE_DEVICES, 2188
eQCWWAN_ERR_MULTIPLE_SMS_UNSUPPORTED, 2188
eQCWWAN_ERR_NO_CANCELABLE_OP, 2188
eQCWWAN_ERR_NO_CONNECTION, 2187
eQCWWAN_ERR_NO_DEVICE, 2187
eQCWWAN_ERR_NO_SIGNAL, 2188
eQCWWAN_ERR_NONE, 2187
eQCWWAN_ERR_NULL_TLV, 2191
eQCWWAN_ERR_OFFLINE, 2188
eQCWWAN_ERR_PDU_GENERATION, 2188
eQCWWAN_ERR_QMI_ABORTED, 2188
eQCWWAN_ERR_QMI_ACCESS_DENIED, 2190
eQCWWAN_ERR_QMI_ACK_NOT_SENT, 2190
eQCWWAN_ERR_QMI_ARG_TOO_LONG, 2188
eQCWWAN_ERR_QMI_AUTHENTICATION_FAILED, 2189
eQCWWAN_ERR_QMI_AUTHENTICATION_LOCK, 2189
eQCWWAN_ERR_QMI_BUNDLING_NOT_SUPPORTED, 2190
eQCWWAN_ERR_QMI_CALL_FAILED, 2188
eQCWWAN_ERR_QMI_CARD_BUSY_RSP, 2191
eQCWWAN_ERR_QMI_CARD_CALL_CONTROL_FAILED, 2190
eQCWWAN_ERR_QMI_CAT_END, 2191
eQCWWAN_ERR_QMI_CAT_START, 2191
eQCWWAN_ERR_QMI_CAUSE_CODE, 2189
eQCWWAN_ERR_QMI_CLIENT_IDS_EXHAUSTED, 2188
eQCWWAN_ERR_QMI_CONNECT, 2187
eQCWWAN_ERR_QMI_DEVICE_IN_USE, 2188
eQCWWAN_ERR_QMI_DEVICE_NOT_READY, 2189
eQCWWAN_ERR_QMI_DEVICE_STORAGE_FULL, 2189
eQCWWAN_ERR_QMI_DISABLED, 2189
eQCWWAN_ERR_QMI_ENCODING, 2189
eQCWWAN_ERR_QMI_ENVELOPE_CMD_FAILURE, 2191
eQCWWAN_ERR_QMI_EVENT_REG_FAILED, 2191
eQCWWAN_ERR_QMI_EXTENDED_INTERNAL, 2190
eQCWWAN_ERR_QMI_FDN_RESTRICT, 2190
eQCWWAN_ERR_QMI_FLOW_SUSPENDED, 2189
eQCWWAN_ERR_QMI_GENERAL, 2189
eQCWWAN_ERR_QMI_HARDWARE_RESTRICTED, 2190
eQCWWAN_ERR_QMI_IFACE, 2187
eQCWWAN_ERR_QMI_INCOMPATIBLE_STATE, 2190
eQCWWAN_ERR_QMI_INCORRECT_FLOW_FILTER, 2189
eQCWWAN_ERR_QMI_INCORRECT_PIN, 2188
eQCWWAN_ERR_QMI_INFO_UNAVAILABLE, 2190
eQCWWAN_ERR_QMI_INJECT_TIMEOUT, 2190
eQCWWAN_ERR_QMI_INSUFFICIENT_RESOURCES, 2189
eQCWWAN_ERR_QMI_INTERFACE_NOT_FOUND, 2189
eQCWWAN_ERR_QMI_INTERNAL, 2188
eQCWWAN_ERR_QMI_INVALID_ARG, 2189

eQCWWAN_ERR_QMI_INVALID_CLIENT_ID, 2188
eQCWWAN_ERR_QMI_INVALID_DATA_FORMAT, 2189
eQCWWAN_ERR_QMI_INVALID_ENVELOPE_CMD, 2191
eQCWWAN_ERR_QMI_INVALID_HANDLE, 2188
eQCWWAN_ERR_QMI_INVALID_ID, 2189
eQCWWAN_ERR_QMI_INVALID_INDEX, 2189
eQCWWAN_ERR_QMI_INVALID_IP_FAMILY_PREF, 2189
eQCWWAN_ERR_QMI_INVALID_MCAST_HANDLE, 2189
eQCWWAN_ERR_QMI_INVALID_MESSAGE_ID, 2189
eQCWWAN_ERR_QMI_INVALID_OPERATION, 2190
eQCWWAN_ERR_QMI_INVALID_PDP_TYPE, 2188
eQCWWAN_ERR_QMI_INVALID_PINID, 2188
eQCWWAN_ERR_QMI_INVALID_PROFILE, 2188
eQCWWAN_ERR_QMI_INVALID_PROFILE_TYPE, 2188
eQCWWAN_ERR_QMI_INVALID_PS_ATTACH_ACTION, 2189
eQCWWAN_ERR_QMI_INVALID_QMI_CMD, 2190
eQCWWAN_ERR_QMI_INVALID_QOS_ID, 2189
eQCWWAN_ERR_QMI_INVALID_REGISTER_ACTION, 2189
eQCWWAN_ERR_QMI_INVALID_SERVICE_TYPE, 2188
eQCWWAN_ERR_QMI_INVALID_TECH_PREF, 2188
eQCWWAN_ERR_QMI_INVALID_TERMINAL_RSP, 2191
eQCWWAN_ERR_QMI_INVALID_TRANSITION, 2189
eQCWWAN_ERR_QMI_INVALID_TX_ID, 2188
eQCWWAN_ERR_QMI_MALFORMED_MSG, 2188
eQCWWAN_ERR_QMI_MAX, 2190
eQCWWAN_ERR_QMI_MAX_MCAST_REQUESTS_IN_USE, 2189
eQCWWAN_ERR_QMI_MAX_QOS_REQUESTS_IN_USE, 2189
eQCWWAN_ERR_QMI_MESSAGE_DELIVERY_FAILURE, 2189
eQCWWAN_ERR_QMI_MESSAGE_NOT_SENT, 2189
eQCWWAN_ERR_QMI_MISSING_ARG, 2188
eQCWWAN_ERR_QMI_MSG_BLOCKED, 2190
eQCWWAN_ERR_QMI_NETWORK_ABORTED, 2190
eQCWWAN_ERR_QMI_NETWORK_NOT_READY, 2189
eQCWWAN_ERR_QMI_NETWORK_QOS_UNAWARE, 2189
eQCWWAN_ERR_QMI_NO_EFFECT, 2188
eQCWWAN_ERR_QMI_NO_ENTRY, 2189
eQCWWAN_ERR_QMI_NO_FREE_PROFILE, 2188
eQCWWAN_ERR_QMI_NO_MEMORY, 2188
eQCWWAN_ERR_QMI_NO_NETWORK_FOUND, 2188
eQCWWAN_ERR_QMI_NO_RADIO, 2190
eQCWWAN_ERR_QMI_NO_SUBSCRIPTION, 2190
eQCWWAN_ERR_QMI_NO_THRESHOLDS, 2188
eQCWWAN_ERR_QMI_NOT_A_MCAST_IFACE, 2189
eQCWWAN_ERR_QMI_NOT_PROVISIONED, 2188
eQCWWAN_ERR_QMI_NOT_SUPPORTED, 2190
eQCWWAN_ERR_QMI_OFFSET, 2188
eQCWWAN_ERR_QMI_OP_DEVICE_UNSUPPORTED, 2188
eQCWWAN_ERR_QMI_OP_NETWORK_UNSUPPORTED, 2188
eQCWWAN_ERR_QMI_OP_PARTIAL_FAILURE, 2190
eQCWWAN_ERR_QMI_OUT_OF_CALL, 2188
eQCWWAN_ERR_QMI_PIN_BLOCKED, 2189
eQCWWAN_ERR_QMI_PIN_PERM_BLOCKED, 2189
eQCWWAN_ERR_QMI_POLICY_MISMATCH, 2190
eQCWWAN_ERR_QMI_REQ, 2187
eQCWWAN_ERR_QMI_REQ_SCH, 2187
eQCWWAN_ERR_QMI_REQ_TO, 2187
eQCWWAN_ERR_QMI_REQUESTED_NUM_UNSUPPORTED, 2189
eQCWWAN_ERR_QMI_RSP, 2187
eQCWWAN_ERR_QMI_RSP_TO, 2187
eQCWWAN_ERR_QMI_SEGMENT_ORDER, 2190
eQCWWAN_ERR_QMI_SEGMENT_TOO_LONG, 2190
eQCWWAN_ERR_QMI_SESSION_INACTIVE, 2189
eQCWWAN_ERR_QMI_SESSION_INVALID, 2189
eQCWWAN_ERR_QMI_SESSION_OWNERSHIP, 2189
eQCWWAN_ERR_QMI_SIM_FILE_NOT_FOUND, 2190
eQCWWAN_ERR_QMI_SIM_NOT_INITIALIZED, 2189
eQCWWAN_ERR_QMI_SMSC_ADDR, 2190
eQCWWAN_ERR_QMI_SUPS_FAILURE_CAUSE, 2190
eQCWWAN_ERR_QMI_TPDU_TYPE, 2190
eQCWWAN_ERR_QMI_UNABORTABLE_TRANSACTION, 2188

eQCWWAN_ERR_QMI_UNKNOWN, 2189
eQCWWAN_ERR_QMI_WIDTH, 2191
eQCWWAN_ERR_RESET, 2188
eQCWWAN_ERR_SWICM_AM_VERS_ERROR, 2190
eQCWWAN_ERR_SWICM_CALL_IN_PROGRESS, 2190
eQCWWAN_ERR_SWICM_END, 2191
eQCWWAN_ERR_SWICM_FAILED_TO_KILL_SDK_PROCESS, 2190
eQCWWAN_ERR_SWICM_INVALID_SESSION_ID, 2190
eQCWWAN_ERR_SWICM_INVALID_V4_SESSION_ID, 2190
eQCWWAN_ERR_SWICM_INVALID_V6_SESSION_ID, 2190
eQCWWAN_ERR_SWICM_NOT_IMPLEMENTED, 2190
eQCWWAN_ERR_SWICM_QMI_CLNT_NOT_SUPPORTED, 2190
eQCWWAN_ERR_SWICM_QMI_SVC_NOT_SUPPORTED, 2190
eQCWWAN_ERR_SWICM_SM_NO_AVAILABLE_SESSIONS, 2190
eQCWWAN_ERR_SWICM_SOCKET_IN_USE, 2190
eQCWWAN_ERR_SWICM_START, 2190
eQCWWAN_ERR_SWICM_TIMEOUT, 2190
eQCWWAN_ERR_SWICM_V4DWN_V6DWN, 2190
eQCWWAN_ERR_SWICM_V4DWN_V6UP, 2190
eQCWWAN_ERR_SWICM_V4UP_V6DWN, 2190
eQCWWAN_ERR_SWICM_V4UP_V6UP, 2190
eQCWWAN_ERR_SWIDCS_APP_DISCONNECTED, 2191
eQCWWAN_ERR_SWIDCS_DEVNODE_NOT_FOUND, 2191
eQCWWAN_ERR_SWIDCS_END, 2191
eQCWWAN_ERR_SWIDCS_FILEIO_ERR, 2191
eQCWWAN_ERR_SWIDCS_IOCTL_ERR, 2191
eQCWWAN_ERR_SWIDCS_START, 2191
eQCWWAN_ERR_SWIIM_CORRUPTED_FW_IMAGE, 2191
eQCWWAN_ERR_SWIIM_END, 2191
eQCWWAN_ERR_SWIIM_FILE_NOT_FOUND, 2191
eQCWWAN_ERR_SWIIM_FIRMWARE_NOT_DOWNLOADED, 2191
eQCWWAN_ERR_SWIIM_FW_ENTER_DOWNLOAD_MODE, 2191
eQCWWAN_ERR_SWIIM_FW_FLASH_COMPLETE, 2191
eQCWWAN_ERR_SWIIM_FW_INVALID_SLOT_INDEX, 2191
eQCWWAN_ERR_SWIIM_FW_PREFERENCE_MISMATCH, 2191
eQCWWAN_ERR_SWIIM_FW_SAME_AS_CURRENT_ACTIVE_IMAGE, 2191
eQCWWAN_ERR_SWIIM_FW_SECBOOT_IMAGE_NOT_SIGNED, 2191
eQCWWAN_ERR_SWIIM_FW_UPDATE_FAIL, 2191
eQCWWAN_ERR_SWIIM_FW_UPDATE_SUCCESS, 2191
eQCWWAN_ERR_SWIIM_FW_WAIT_FOR_REBOOT, 2191
eQCWWAN_ERR_SWIIM_INVALID_CRASH_STATE, 2191
eQCWWAN_ERR_SWIIM_INVALID_PATH, 2191
eQCWWAN_ERR_SWIIM_OPENING_DIR, 2191
eQCWWAN_ERR_SWIIM_OPENING_FILE, 2191
eQCWWAN_ERR_SWIIM_START, 2191
eQCWWAN_ERR_SWISM_END, 2191
eQCWWAN_ERR_SWISMS_BEARER_DATA_NOT_FOUND, 2191
eQCWWAN_ERR_SWISMS_MSG_CORRUPTED, 2191
eQCWWAN_ERR_SWISMS_MSG_LEN_TOO_LONG, 2191
eQCWWAN_ERR_SWISMS_SMSC_NUM_CORRUPTED, 2191
eQCWWAN_ERR_SWISMS_START, 2191
eWDS_ERR_PROFILE_REG_3GPP2_ERR_INVALID_IDENT_FOR_PROFILE, 2192
eWDS_ERR_PROFILE_REG_3GPP_ACCESS_ERR, 2192
eWDS_ERR_PROFILE_REG_3GPP_CONTEXT_NOT_DEFINED, 2192
eWDS_ERR_PROFILE_REG_3GPP_ERR_OUT_OF_PROFILES, 2192
eWDS_ERR_PROFILE_REG_3GPP_INVAL_PROFILE_FAMILY, 2192
eWDS_ERR_PROFILE_REG_3GPP_READ_ONLY_FLAG_SET, 2192
eWDS_ERR_PROFILE_REG_3GPP_VALID_FLAG_NOT_SET, 2192
eWDS_ERR_PROFILE_REG_END, 2192
eWDS_ERR_PROFILE_REG_INVAL_PROFILE_FAMILY, 2192
eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL, 2192
eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL_HNDL, 2192
eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL_IDENT, 2192
eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL_OP, 2192
eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL_PROFILE_NUM, 2192
eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL_PROFILE_TYPE, 2192
eWDS_ERR_PROFILE_REG_RESULT_ERR_INVAL_SUBS_ID, 2192
eWDS_ERR_PROFILE_REG_RESULT_ERR_LEN_INVALID, 2192

eWDS_ERR_PROFILE_REG_RESULT_ERR_LIB_NOT_INITED, 2192
eWDS_ERR_PROFILE_REG_RESULT_FAIL, 2192
eWDS_ERR_PROFILE_REG_RESULT_LIST_END, 2192
qmerrno.h, 2185
eQCWWANError, 2187
qm_wds_ds_profile_extended_err_codes, 2191
QmiCbkCatEventStatusReportInd, 860
CCETlv, 860
event_Index, 860
results, 860
QmiCbkLocBestAvailPosInd, 860
pAltitudeWrtEllipsoid, 865
pAltitudeWrtMeanSeaLevel, 865
pGpsTime, 865
pHeading, 865
pHeadingUnc, 865
pHorCirConf, 865
pHorEllpConf, 865
pHorReliability, 865
pHorUncCircular, 865
pHorUncEllipseOrientAzimuth, 865
pHorUncEllipseSemiMajor, 865
pHorUncEllipseSemiMinor, 865
pLatitude, 865
pLongitude, 865
pMagneticDeviation, 865
pPrecisionDilution, 865
pSensorDataUsage, 865
pSpeedHorizontal, 865
pSpeedUnc, 865
pSpeedVertical, 865
pSpeedVerticalUnc, 865
pSvUsedforFix, 865
pTechnologyMask, 865
pTimeSrc, 865
pTimeUnc, 865
pTimestampUtc, 865
pVertConfidence, 865
pVertReliability, 865
pVertUnc, 866
pXid, 866
results, 866
status, 866
QmiCbkLocCradleMountInd, 866
cradleMountConfigStatus, 866
results, 866
QmiCbkLocEngineStateInd, 866
engineState, 867
results, 867
QmiCbkLocEventNMEAInd, 867
pNMEAData, 867
results, 867
QmiCbkLocEventTimeSyncInd, 867
results, 868
timeSyncRefCounter, 868
QmiCbkLocGetServerInd, 868
pIPv4AddrInfo, 869
pIPv6AddrInfo, 869
pURL, 869
results, 869
serverStatus, 869
serverType, 869
QmiCbkLocInjectPositionInd, 869
results, 870
status, 870
QmiCbkLocInjectSensorDataInd, 870
injectSensorDataStatus, 871
pAccelSamplesAccepted, 871
pAccelTempSamplesAccepted, 871
pGyroSamplesAccepted, 871
pGyroTempSamplesAccepted, 871
pOpaqueIdentifier, 871
results, 871
QmiCbkLocInjectTimeInd, 872
injectTimeSyncStatus, 872
results, 872
QmiCbkLocInjectUTCTimeInd, 872
results, 873
status, 873
QmiCbkLocOpModeInd, 873
mode, 874
results, 874
QmiCbkLocPositionReportInd, 874
pAltitudeAssumed, 879
pAltitudeWrtEllipsoid, 879
pAltitudeWrtMeanSeaLevel, 879
pFixId, 879
pGpsTime, 879
pHeading, 879
pHeadingUnc, 879
pHorConfidence, 879
pHorReliability, 879
pHorUncCircular, 879
pHorUncEllipseOrientAzimuth, 879
pHorUncEllipseSemiMajor, 879
pHorUncEllipseSemiMinor, 879
pLatitude, 879
pLeapSeconds, 879
pLongitude, 879
pMagneticDeviation, 879
pPrecisionDilution, 879
pSensorDataUsage, 879
pSpeedHorizontal, 879
pSpeedUnc, 879
pSpeedVertical, 879
pSvUsedforFix, 879
pTechnologyMask, 879
pTimeSrc, 879
pTimeUnc, 880
pTimestampUtc, 880
pVertConfidence, 880
pVertReliability, 880
pVertUnc, 880

results, 880
sessionId, 880
sessionStatus, 880
QmiCbkLocSensorStreamingInd, 880
pAccelAcceptReady, 880
pAccelTempAcceptReady, 880
pGyroAcceptReady, 880
pGyroTempAcceptReady, 881
results, 881
QmiCbkLocSetExtPowerConfigInd, 881
results, 881
status, 881
QmiCbkLocSetServerInd, 881
serverStatus, 882
QmiCbkNasLTECphyCaInfo, 882
sPhyCaAggPcellInfo, 883
sPhyCaAggScellDlBw, 883
sPhyCaAggScellIndType, 883
sPhyCaAggScellIndex, 883
sPhyCaAggScellInfo, 883
QmiCbkSwiOmaDmEventStatusReportInd, 883
SITlv, 883
QmiCbkSwiOmaDmEventStatusReportIndExt, 883
SITlv, 883
QmiCbkTmdMitiLvlRptInd, 883
currentMitigationLvl, 884
MitigationDevInfo, 884
QmiCbkWdsStatisticsIndState, 884
RxDropConutTlv, 884
RxOkByteCountTlv, 885
RxOkConutTlv, 885
TxDropConutTlv, 885
TxOkByteCountTlv, 885
TxOkConutTlv, 885
qmiDataBearerMasks
qaGobiApiWds.h, 2146
QmiNas3GppNetworkInfo, 886
pDesription, 887
pForbidden, 887
pInUse, 887
pMCC, 887
pMNC, 887
pPreferred, 887
pRoaming, 887
QmiNasGetRFBandInfoResp, 887
pInstancesSize, 887
pLTEOperationMode, 887
pRFBandInfoElements, 887
pRfBandInfoExtFormat, 887
pRfBandwidthInfo, 887
pRfDedicatedBandInfo, 887
results, 887
QmiNasPerformNetworkScanResp, 888
pInstanceSize, 888
pInstances, 888
results, 888
QmiProfileInfo
qaGobiApiWds.h, 2143
qmiSmsMessageList, 888
messageIndex, 888
messageTag, 888
QmiSwiAvmsEventReportBinaryUpdateSessionInfo-Resp
qaGobiApiSwiAvms.h, 2040
QmiSwiAvmsEventReportConfigResp
qaGobiApiSwiAvms.h, 2041
QmiSwiAvmsEventReportConnectionRequestResp
qaGobiApiSwiAvms.h, 2041
QmiSwiAvmsEventReportDataSessionStatusResp
qaGobiApiSwiAvms.h, 2042
QmiSwiAvmsEventReportHTTPStatusResp
qaGobiApiSwiAvms.h, 2042
QmiSwiAvmsEventReportNotificationResp
qaGobiApiSwiAvms.h, 2043
QmiSwiAvmsEventReportPackageIDResp
qaGobiApiSwiAvms.h, 2044
QmiSwiAvmsEventReportRegStatusResp
qaGobiApiSwiAvms.h, 2044
QmiSwiAvmsEventReportSessionTypeResp
qaGobiApiSwiAvms.h, 2044
QmiSwiAvmsEventReportWAMSParamChangeResp
qaGobiApiSwiAvms.h, 2045
QmiSwiAvmsSetSettingsAPNInfo
qaGobiApiSwiAvms.h, 2045
QmiSwiAvmsSetSettingsConnectionRetryTimers
qaGobiApiSwiAvms.h, 2045
QmiSwiAvmsSetSettingsPeriodInfo
qaGobiApiSwiAvms.h, 2045
QmiWDSDataBearerTechnology
qaGobiApiWds.h, 2144
qmiWDSDataBearerTechnology, 888
currentNetwork, 889
ratMask, 889
soMask, 889
QmiWDSDataBearers
qaGobiApiWds.h, 2143
QmiWdsIpAddressInfo, 890
pIPAddressV4, 890
pIPAddressV6, 890
pIPv6prefixlen, 890
qmiWdsRunTimeSettings, 890
pAPNName, 893
pAuthentication, 893
pDomainList, 893
pGPRSGrantedQoS, 893
pGWAddressV4, 893
pIMCNflag, 893
pIPAddressV4, 893
pIPFamilyPreference, 893
pIPV6AddrInfo, 893
pIPV6GWAddrInfo, 893
pMtu, 893
pPCSCFAddrPCO, 893
pPCSCFFQDNAddrList, 893
pPDPType, 893
pPrimaryDNSV4, 893

pPrimaryDNSV6, 893
pProfileID, 894
pProfileName, 894
pSecondaryDNSV4, 894
pSecondaryDNSV6, 894
pServerAddrList, 894
pSubnetMaskV4, 894
pTechnology, 894
pUMTSGrantedQoS, 894
pUsername, 894
qmifwinfo_s, 885
dev, 885
g, 886
s, 886
qos.h, 2192
pack_qos_BindDataPort, 2194
pack_qos_SLQSQosGetNetworkStatus, 2194
pack_qos_SLQSQosSwiReadApnExtraParams, 2195
pack_qos_SLQSQosSwiReadDataStats, 2196
pack_qos_SLQSSetQosEventCallback, 2196
unpack_qos_BindDataPort, 2197
unpack_qos_SLQSQosGetNetworkStatus, 2197
unpack_qos_SLQSQosSwiReadApnExtraParams, 2198
unpack_qos_SLQSQosSwiReadDataStats, 2198
unpack_qos_SLQSSetQosEventCallback, 2199
unpack_qos_SLQSSetQosEventCallback_ind, 2199
unpack_qos_SLQSSetQosNWStatusCallback_ind, 2200
unpack_qos_SLQSSetQosPriEventCallback_ind, 2200
unpack_qos_SLQSSetQosStatusCallback_ind, 2201
qos_BindDataPortMuxID_t, 894
MuxID, 894
qos_BindDataPortPeripheralEndPointID_t, 894
EndPointType, 895
IfaceID, 895
qos_BindDataPortSIODataPort_t, 895
SIODataPort, 895
qos_id
QosMap, 900
QosClassID, 895
gDlBitRate, 896
gUlBitRate, 896
maxDlBitRate, 896
maxUlBitRate, 896
QCI, 896
qosDeliveryOrder
LibPackUMTSQoS, 388
UMTSMinQoS, 1126
UMTSQoS, 1128
wds_UMTSMinQoS, 1566
QosEventInfo, 896
pDataBearer, 897
pPacketsCountRX, 897
pPacketsCountTX, 897
pTotalBytesRX, 897
pTotalBytesTX, 897
qosFlow
sQosStat, 1018
unpack_qos_SLQSQosSwiReadDataStats_t, 1299
QosFlowInfo, 898
pBearerID, 898
pQFlowState, 898
pRxQFilter, 898
pRxQFlowGranted, 898
pTxQFilter, 898
pTxQFlowGranted, 898
unpack_qos_SLQSSetQosEventCallback_ind_t, 1300
QosFlowInfoState, 899
id, 899
isNewFlow, 899
state, 899
QosMap, 899
dscp, 900
qos_id, 900
state, 900
Quality of Service (QOS), 58

RAN
unpack_nas_GetServingNetwork_t, 1227
RAT
SlqsNas3GppNetworkRAT, 94
nas_QmiNas3GppNetworkRAT, 548
RATMask
CurrNetworkInfo, 217
currNetworkInfo, 218
wds_currNetworkInfo, 1548
REGISTER_EVENT
qaGobiApiCbk.h, 1766
REGISTER_SRV
qaGobiApiCbk.h, 1766
RFBandInfoElements, 908
activeBandClass, 909
activeChannel, 909
radioInterface, 909
unpack_nas_GetRFInfo_t, 1225
RFTlv
unpack_nas_SetEventReportInd_t, 1231
RMAutoConnect
pack_dms_SetCustFeature_t, 661
unpack_dms_GetCustFeature_t, 1137
RMSetTransferStatistics
qaGobiApiWds.h, 2158
ROAMING_INDEX
qaNasPerformNetworkScan.h, 2184
RPCause
SMSAsyncRawSend_s, 1002
unpack_sms_SLQSWmsAsyncRawSendCallBack_ind_t, 1326
RPTlv
NASQmiCbkNasSystemSelPrefInd, 625
RRTlv

unpack_nas_SetEventReportInd_t, 1231
RSRPThresListLen
nas_RSRPThresh, 559
RSRPThresh, 917
RSRPThresh, 916
pRSRPThresList, 917
RSRPThresListLen, 917
RSRQThresListLen
nas_RSRQThresh, 560
RSRQThresh, 918
RSRQThresh, 917
pRSRQThresList, 918
RSRQThresListLen, 918
RSSIThresListLen
nas_RSSIThresh, 561
RSSIThresh, 919
RSSIThresh, 918
pRSSIThresList, 919
RSSIThresListLen, 919
RX_EC_IO
nas_NetworkStat1x, 528
NetworkStat1x, 640
RX_PWR
nas_NetworkStat1x, 528
nas_NetworkStatEVDO, 530
NetworkStat1x, 640
NetworkStatEVDO, 642
RXAGCList, 919
pRXAIG, 920
pRXComprSlope, 920
pRXComprThres, 920
pRXExpSlope, 920
pRXExpThres, 920
pRXStaticGain, 920
RXAVCList, 920
pAVRXAVCHeadroom, 920
pAVRXAVCSens, 920
RXBOTlv
unpack_wds_SLQSDUNCallInfoCallBack_ind_t, 1406
RXChan
LTEInfo, 427
nas_LTEInfo, 504
rXDroppedCount
unpack_wds_GetPacketStatus_t, 1402
RXOKBytesCount
DUNCallInfoInd, 257
rXOKBytesLastCall
unpack_wds_GetPacketStatus_t, 1402
rXOkBytesCount
unpack_wds_GetPacketStatus_t, 1402
RXPCMIIRFltr, 922
pFlag, 923
pStage0Val, 923
pStage1Val, 923
pStage2Val, 923
pStage3Val, 923
pStage4Val, 923
pStageCnt, 923
rXPacketErrors
unpack_wds_GetPacketStatus_t, 1402
rXPacketOverflows
unpack_wds_GetPacketStatus_t, 1402
rXPacketSuccesses
unpack_wds_GetPacketStatus_t, 1402
radio
unpack_nas_GetSignalStrengths_t, 1229
radio_if
nasGetTxRxInfoReq, 603
pack_nas_SLQSNasGetTxRxInfo_t, 704
radioIf
ecioListElement, 259
errorRateListElement, 263
nas_ecioListElement, 481
nas_errorRateListElement, 483
nas_rsrqInformation, 559
nas_rxSignalStrengthListElement, 564
nasNetworkReject, 613
rsrqInformation, 917
rxSignalStrengthListElement, 925
RadioIfaces
unpack_dms_GetDeviceCap_t, 1138
unpack_dms_GetDeviceCapabilities_t, 1140
unpack_nas_GetServingNetwork_t, 1227
RadioIfacesSize
unpack_dms_GetDeviceCap_t, 1138
unpack_nas_GetServingNetwork_t, 1227
radioIfacesSize
unpack_dms_GetDeviceCapabilities_t, 1140
radioInterface
nas_RFBandInfoElements, 551
nas_RfBandInfoExtFormatElements, 552
nas_RfBandwidthInfoElements, 554
nas_RfDedicatedBandInfoElements, 556
nas_RFInfoTlv, 557
nas_roamIndList, 558
nas_servSystem, 567
nas_SignalStrengthTlv, 568
nas_timeInfo, 579
RFBandInfoElements, 909
RfBandInfoExtFormatElements, 910
RfBandwidthInfoElements, 912
RfDedicatedBandInfoElements, 914
roamIndList, 915
servSystem, 938
timeInfo, 1063
radioInterfaceList
NASServingSystemInfo, 627
ServingSystemInfo, 936
radioInterfaceNo
NASServingSystemInfo, 627
ServingSystemInfo, 937
radioInterfaceSize
nas_RFInfoTlv, 557
randomizationWindow
dms_PSMRandomizationWindowTlv, 245

PSMRandomizationWindowTlv, 854
range
Port, 832
unpack_qos_Port_t, 1294
RankIndicatorInd, 900
Count1, 900
Count2, 900
rankIndicatorTlv
unpack_nas_SLQSSwiRandIndicatorCallback_-Ind_t, 1272
rat
CSGID, 209
MNRInfo, 450
nas_CSGID, 473
nas_MNRInfo, 524
ratDisabledMask
nas_RatDisabledMaskTlv, 550
RatDisabledMaskTlv, 901
RatDisabledMaskTlv, 900
ratDisabledMask, 901
TlvPresent, 901
ratMask
dataBearerTechnology, 228
qmiWDSDataBearerTechnology, 889
unpack_wds_SLQSSetWdsEventCallback_ind_t, 1421
ratValue
DataBearerTech, 226
rawHorConfidence
pack_loc_SLQSLOCInjectPosition_t, 686
rawHorUncCircular
pack_loc_SLQSLOCInjectPosition_t, 686
rawLen
fileAttributes, 268
uim_fileAttributes, 1086
rawValue
fileAttributes, 268
uim_fileAttributes, 1086
rcv4
ssdatasession_params, 1022
rcv6
ssdatasession_params, 1022
readResult, 901
content, 901
contentLen, 901
readTransparent
pack_uim_ReadTransparent_t, 759
UIMReadTransparentReq, 1108
readTransparentInfo, 902
length, 902
offset, 902
Reason
pack_voice_SLQSVoiceGetCallForwardingStatus-_t, 776
pack_voice_SLQSVoiceSetCallBarringPassword_t, 782
voiceGetCallFWReq, 1499
voiceSetCallBarringPwdInfo, 1521
reason
ccSUPSType, 171
pack_voice_SLQSVoiceGetCallBarring_t, 775
pack_voice_SLQSVoiceSetSUPSService_t, 786
redirNumInfo, 904
unpack_qos_SLQSSetQosStatusCallback_ind_t, 1302
voice_ccSUPSType, 1457
voice_redirNumInfo, 1477
voiceGetCallBarringReq, 1497
voiceSetSUPSServiceReq, 1528
receiptAction
sms_routeEntry, 996
smsRouteEntry, 1014
receivedBytes
omaDmFotaTlvExt, 654
reconfigReqd
_packetSrvStatus, 74
unpack_wds_SLQSSetPacketSrvStatusCallback_-t, 1419
reconfiguration_required
slqsSessionStateInfo, 980
recordCount
fileAttributes, 268
uim_fileAttributes, 1086
recordSize
fileAttributes, 268
uim_fileAttributes, 1086
redirNumInfo, 902
numLen, 903
numPlan, 903
numType, 904
number, 903
PI, 904
reason, 904
SI, 904
RedirPartyNum
arrRedirPartyNum, 143
voice_arrRedirPartyNum, 1443
refData
unpack_dms_SLQSSwiGetFwUpdateStatus_t, 1175
refString
unpack_dms_SLQSSwiGetFwUpdateStatus_t, 1176
ReferenceID
CatAlPhaIdentifierTlv, 168
CatEventIDDataTlv, 169
refpn
CDMAInfo, 174
nas_CDMAInfo, 463
refreshComplete
pack_uim_SLQSUIMRefreshComplete_t, 764
UIMRefreshCompleteReq, 1110
refreshEvent
unpack_uim_SLQSUIMRefreshCallback_Ind_t, 1344
RefreshMode

CatRefreshTlv, 170
RefreshStage
CatRefreshTlv, 170
regAction
nasInitNetworkReg, 608
pack_nas_SLQSInitiateNetworkRegistration_t, 699
RegForeignNID
unpack_nas_GetCDMANetworkParameters_t, 1219
RegForeignSID
unpack_nas_GetCDMANetworkParameters_t, 1220
RegHomeSID
unpack_nas_GetCDMANetworkParameters_t, 1220
regInd
_transLayerInfoNotification, 121
unpack_sms_SLQSTransLayerInfoCallback_ind_t, 1324
regPrd
AddCDMASysInfo, 125
nas_AddCDMASysInfo, 456
regRefresh
pack_uim_SLQSUIMRefreshRegister_t, 766
UIMRefreshRegisterReq, 1113
regRejectInfoValid
GSMSysInfo, 321
LTESysInfo, 446
nas_GSMSysInfo, 490
nas_LTESysInfo, 521
nas_WCDMASysInfo, 591
WCDMASysInfo, 1544
regState
nas_servSystem, 567
servSystem, 938
RegStatus
_SwiAvmsEventInd, 107
Region
fwinfo_s, 275
registerFlag
registerRefresh, 904
uim_registerRefresh, 1092
registerRefresh, 904
arrfileInfo, 904
numFiles, 904
registerFlag, 904
voteForInit, 905
RegistrationState
unpack_nas_GetServingNetwork_t, 1227
registrationState
NASServingSystemInfo, 627
ServingSystemInfo, 937
rejCause
GSMSysInfo, 321
LTESysInfo, 446
nas_GSMSysInfo, 490
nas_LTESysInfo, 521
nas_WCDMASysInfo, 591
WCDMASysInfo, 1544
rejectCause
nas_RejectReasonTlv, 550
nasNetworkReject, 613
rejectSrvDomain
GSMSysInfo, 321
LTESysInfo, 446
nas_GSMSysInfo, 491
nas_LTESysInfo, 521
nas_WCDMASysInfo, 591
WCDMASysInfo, 1544
reliabilityClass
GPRSQoS, 310
GPRSRequestedQoS, 311
LibPackGPRSRequestedQoS, 360
wds_GPRSQoS, 1557
remPartyNumber
remotePartyNum, 907
voice_remotePartyNum, 1479
remainingRetries, 905
unblockLeft, 905
verifyLeft, 905
Remote Management Service (RMS), 49
RemotePartyName
getAllCallRmtPtyName, 279
voice_getAllCallRmtPtyName, 1469
remotePartyName, 905
callerName, 906
codingScheme, 906
nameLen, 906
namePI, 906
RemotePartyNum
getAllCallRmtPtyNum, 279
voice_getAllCallRmtPtyNum, 1469
remotePartyNum, 906
numLen, 907
presentationInd, 907
remPartyNumber, 907
ReqFieldsList, 907
requestFields, 907
requestFieldsLen, 907
requestFields
ReqFieldsList, 907
requestFieldsLen
ReqFieldsList, 907
resBerRatio
LibPackUMTSQoS, 388
UMTSMinQoS, 1126
UMTSQoS, 1128
wds_UMTSMinQoS, 1566
ResCode
FirmwareUpdatStat, 271
GetAudioVolTLBConfigResp, 285
SetAudioVolTLBConfigResp, 944
unpack_dms_SLQSSwiGetFwUpdateStatus_t, 1176
reserved
omaDmFotaTlvExt, 654

resetInfoInd
pack_dms_SLQSDmsSwiIndicationRegister_t, 666
ResetInfoNotification
qaGobiApiCbk.h, 1771
ResetPDSData
qaGobiApiPds.h, 1989
ResetToFactoryDefaults
qaGobiApiDms.h, 1870
RespFieldsList, 908
responseFields, 908
responseFieldsLen, 908
responseFields
RespFieldsList, 908
responseFieldsLen
RespFieldsList, 908
results
delAssistDataStatus, 233
gnssSvInfoNotification, 309
QmiCbkCatEventStatusReportInd, 860
QmiCbkLocBestAvailPosInd, 866
QmiCbkLocCradleMountInd, 866
QmiCbkLocEngineStateInd, 867
QmiCbkLocEventNMEAInd, 867
QmiCbkLocEventTimeSyncInd, 868
QmiCbkLocGetServerInd, 869
QmiCbkLocInjectPositionInd, 870
QmiCbkLocInjectSensorDataInd, 871
QmiCbkLocInjectTimeInd, 872
QmiCbkLocInjectUTCTimeInd, 873
QmiCbkLocOpModeInd, 874
QmiCbkLocPositionReportInd, 880
QmiCbkLocSensorStreamingInd, 881
QmiCbkLocSetExtPowerConfigInd, 881
QmiNasGetRFBandInfoResp, 887
QmiNasPerformNetworkScanResp, 888
RetryCount
unpack_swioma_SLQSOMADMGetSessionInfo_t, 1333
revPolarity
lineCtrlInfo, 390
voice_lineCtrlInfo, 1471
revTunneling
unpack_wds_GetMobileIPProfile_t, 1398
ReverseMac
nas_protocolSubtypeElement, 545
protocolSubtypeElement, 850
RfBandInfoExtFormat, 909
pInstancesSize, 910
pRfBandInfoExtFormatParam, 910
TlvPresent, 910
RfBandInfoExtFormatElements, 910
activeBand, 910
activeChannel, 910
radioInterface, 910
RfBandInfoList, 911
pInstanceSize, 911
pRFBandInfoParam, 911
RfBandwidthInfo, 911
pInstancesSize, 912
pRfBandwidthInfoParam, 912
TlvPresent, 912
RfBandwidthInfoElements, 912
bandwidth, 912
radioInterface, 912
RfDedicatedBandInfo, 912
pInstancesSize, 913
pRfDedicatedBandInfoParam, 913
TlvPresent, 913
RfDedicatedBandInfoElements, 913
dedicatedBand, 914
radioInterface, 914
RfSarState
pack_sar_SLQSSetRfSarState_t, 742
rfbandInfoList
NasGetRFInfoResp, 599
unpack_nas_SLQSNasGetRFInfo_t, 1260
RmTrasnferStaticsReq
pack_wds_RMSetTransferStatistics_t, 791
rmTrasnferStaticsReq, 914
bResetStatistics, 914
ulMask, 914
rms.h, 2202
pack_rms_GetSMSWake, 2202
pack_rms_SetSMSWake, 2202
unpack_rms_GetSMSWake, 2203
unpack_rms_SetSMSWake, 2203
RmtPtyNum
arrRemotePartyNum, 144
voice_arrRemotePartyNum, 1444
roamIndList, 914
numInstances, 915
radioInterface, 915
roamIndicator, 915
roamIndicator
nas_roamIndList, 558
roamIndList, 915
RoamIndicatorVal
unpack_nas_SLQSGetServingSystem_t, 1243
roamIndicatorVal
qaQmiServingSystemParam, 860
roamOrigVoiceSO
prefVoiceSO, 837
voice_prefVoiceSO, 1476
RoamPref
nas_RoamPrefTlv, 558
NASRoamPreferenceTlv, 625
roamStatus
nas_sysInfoCommon, 574
sysInfoCommon, 1048
roamStatusValid
nas_sysInfoCommon, 574
sysInfoCommon, 1048
roamTimer, 915
namID, 916
roamTimerValue, 916
roamTimerValue

roamTimer, 916
voice_roamTimer, 1480
Roaming
nas_QmiNas3GppNetworkInfo, 547
SlqsNas3GppNetworkInfo, 976
unpack_nas_GetCDMANetworkParameters_t, 1220
unpack_nas_GetServingNetwork_t, 1227
roaming
unpack_nas_SetRoamingIndicatorCallback_ind_t, 1232
roaming_ind
RoamingInfo, 915
RoamingIndicatorList
qaQmiServingSystemParam, 860
unpack_nas_SLQSGetServingSystem_t, 1243
RoamingInfo, 915
roaming_ind, 915
TlvPresent, 915
routeList
sms_setRoutesReq, 1000
smsSetRoutesReq, 1015
routeStorage
sms_routeEntry, 996
smsRouteEntry, 1014
RptIMSCapability
pack_dms_SetIndicationRegister_t, 663
rptPosData
pack_pds_SetEventReportCallback_t, 729
rptRate
LTESigRptCfg, 439
LTESigRptConfig, 440
nas_LTESigRptCfg, 516
nas_LTESigRptConfig, 517
rscp
nas_rxInfo, 562
nas_UMTSInfo, 582
rxInfo, 921
TDSCDMASigInfoExt, 1056
tdscdmaSigInfoExt, 1055
UMTSInfo, 1122
rsrp
cellParams, 189
LTESSInfo, 442
lteSSInfo, 443
nas_cellParams, 468
nas_rxInfo, 562
nas_RxSigInfo, 563
nas_umtsLTENbrCell, 584
rxInfo, 921
RxSigInfo, 924
umtsLTENbrCell, 1123
rsrplevel
lteRsrpinformation, 436
nas_lteRsrpinformation, 514
rsrq
cellParams, 189
LTESSInfo, 442
lteSSInfo, 443
nas_cellParams, 468
nas_rsrqInformation, 559
nas_SccRxInfo, 565
nas_umtsLTENbrCell, 584
rsrqInformation, 917
SccRxInfo, 929
umtsLTENbrCell, 1123
rsrqDelta
nas_SLQSSignalStrengthsIndReq, 570
SLQSSignalStrengthsIndReq, 984
rsrqInfo
nas_SLQSSignalStrengthsInformation, 571
slqsSignalStrengthInfo, 982
SLQSSignalStrengthsInformation, 986
unpack_nas_SLQSGetSignalStrength_t, 1245
rsrqInformation, 917
radioIf, 917
rsrq, 917
rssi
CDMASSInfo, 183
cdmaSSInfo, 183
cellParams, 189
gsmCellInfo, 316
HDRSSInfo, 328
hdrSSInfo, 329
LTESSInfo, 442
lteSSInfo, 443
nas_cellParams, 468
nas_gsmCellInfo, 486
TDSCDMASigInfoExt, 1056
tdscdmaSigInfoExt, 1055
unpack_nas_GetSignalStrengths_t, 1229
rts
WdsRunTimeSettings, 1581
rx_bytes
NetStats, 637
unpack_wds_SLQSSetWdsEventCallback_ind_t, 1421
rx_errors
NetStats, 637
rx_overflows
NetStats, 637
rx_packets
NetStats, 637
rx_pkts
unpack_wds_SLQSSetWdsEventCallback_ind_t, 1421
RxByteOKCnt
wds_RXBytesOKTlv, 1562
rxChainIndex
nas_RxSigInfo, 563
RxSigInfo, 924
RxDropConutTlv
QmiCbkWdsStatisticsIndState, 884
unpack_RMTransferStatistics_ind_t, 1313
rxInfo, 920
ecio, 921

isRadioTuned, 921
phase, 921
rscp, 921
rsrp, 921
rxPower, 921
rxLev
GERANInfo, 277
nas_GERANInfo, 484
rxOKBytesCount
unpack_wds_SLQSGetDUNCallInfo_t, 1413
RxOkByteCountTlv
QmiCbkWdsStatisticsIndState, 885
unpack_RMTransferStatistics_ind_t, 1313
RxOkConutTlv
QmiCbkWdsStatisticsIndState, 885
unpack_RMTransferStatistics_ind_t, 1313
rxPower
nas_rxInfo, 562
nas_RxSigInfo, 563
rxInfo, 921
RxSigInfo, 924
RxQFilter
unpack_qos_QosFlowInfo_t, 1295
RxQFlowGranted
unpack_qos_QosFlowInfo_t, 1295
RxSigInfo, 923
isRadioTuned, 924
rsrp, 924
rxChainIndex, 924
rxPower, 924
rxSignalStrength
nas_rxSignalStrengthListElement, 564
rxSignalStrengthListElement, 925
rxSignalStrengthDelta
nas_SLQSSignalStrengthsIndReq, 570
SLQSSignalStrengthsIndReq, 984
rxSignalStrengthInfo
nas_SLQSSignalStrengthsInformation, 571
SLQSSignalStrengthsInformation, 986
rxSignalStrengthList
slqsSignalStrengthInfo, 982
unpack_nas_SLQSGetSignalStrength_t, 1245
rxSignalStrengthListElement, 924
radioIf, 925
rxSignalStrength, 925
rxSignalStrengthListLen
slqsSignalStrengthInfo, 982
unpack_nas_SLQSGetSignalStrength_t, 1245

s
qmifwinfo_s, 886
SMS_EVENT_ETWS
qaGobiApiCbk.h, 1805
SMS_EVENT_ETWS_PLMN
qaGobiApiCbk.h, 1805
SMS_EVENT_MESSAGE_MODE
qaGobiApiCbk.h, 1805
SMS_EVENT_MT_MESSAGE
qaGobiApiCbk.h, 1805
SMS_EVENT_SMS_ON_IMS
qaGobiApiCbk.h, 1805
SMS_EVENT_SMSC_ADDRESS
qaGobiApiCbk.h, 1805
SMS_EVENT_TRANSFER_ROUTE_MT_MESSAGE
qaGobiApiCbk.h, 1805
SYS_SRV_DOMAIN_CAMPED
qaGobiApiCbk.h, 1805
SYS_SRV_DOMAIN_CS_ONLY
qaGobiApiCbk.h, 1805
SYS_SRV_DOMAIN_CS_PS
qaGobiApiCbk.h, 1805
SYS_SRV_DOMAIN_NO_SRV
qaGobiApiCbk.h, 1805
SYS_SRV_DOMAIN_PS_ONLY
qaGobiApiCbk.h, 1805
sApnExtraParams, 925
ambr_dl, 926
ambr_dl_ext, 926
ambr_dl_ext2, 926
ambr_ul, 926
ambr_ul_ext, 926
ambr_ul_ext2, 926
apnId, 926
SCI
unpack_nas_GetCDMANetworkParameters_t, 1220
SCM
unpack_nas_GetCDMANetworkParameters_t, 1220
SDPTlv
NASQmiCbkNasSystemSelPrefInd, 625
SDU_HDR_LEN
common.h, 1588
SECOND_INSTANCE
qaGobiApiCbk.h, 1766
sGetDeviceSeriesResult, 964
eDevice, 964
uResult, 964
SHORT
SwiDataTypes.h, 2228
SI
calledPartyInfo, 156
callFWExtInfo, 160
callingPartyInfo, 164
redirNumInfo, 904
voice_calledPartyInfo, 1448
voice_callFWExtInfo, 1452
voice_callingPartyInfo, 1456
voice_redirNumInfo, 1477
SIODataPort
qos_BindDataPortSIODataPort_t, 895
SITlv
QmiCbkSwiOmaDmEventStatusReportInd, 883
QmiCbkSwiOmaDmEventStatusReportIndExt, 883
sIntraSearch
LTEInfoIntrafreq, 429
nas_LTEInfoIntrafreq, 507

SLQSAVMSGetSessionInfo
qaGobiApiSwiAvms.h, 2048
SLQSAVMSGetSettings
qaGobiApiSwiAvms.h, 2048
SLQSAVMSGetSettings_v2
qaGobiApiSwiAvms.h, 2048
SLQSAVMSSelection
qaGobiApiSwiAvms.h, 2049
SLQSAVMSSetEventReport
qaGobiApiSwiAvms.h, 2049
SLQSAVMSSetSettings
qaGobiApiSwiAvms.h, 2050
SLQSAVMSSetSettings_v2
qaGobiApiSwiAvms.h, 2050
SLQSAVMSSetSettingsIgnoreAutoReboot
qaGobiApiSwiAvms.h, 2050
SLQSAVMSSetSettingsReq
qaGobiApiSwiAvms.h, 2045
SLQSAVMSSetSettingsReq_v2
qaGobiApiSwiAvms.h, 2046
SLQSAVMSSettings
qaGobiApiSwiAvms.h, 2048
SLQSAVMSSettings_v2
qaGobiApiSwiAvms.h, 2048
SLQSAVMSSettingsAPNInfo
qaGobiApiSwiAvms.h, 2048
SLQSAVMSSettingsConnectionRetryTimers
qaGobiApiSwiAvms.h, 2048
SLQSAVMSSettingsPeriodsInfo
qaGobiApiSwiAvms.h, 2048
SLQSAVMSStartSession
qaGobiApiSwiAvms.h, 2051
SLQSAVMSStopSession
qaGobiApiSwiAvms.h, 2051
SLQSAutoConnect
qaGobiApiWds.h, 2167
SLQSCDMADecodeMTTextMsg
qaGobiApiSms.h, 2017
SLQSCDMADecodeMTTextMsgExt
qaGobiApiSms.h, 2017
SLQSCDMAEncodeMOTextMsg
qaGobiApiSms.h, 2018
SLQSConfigSigInfo
qaGobiApiNas.h, 1962
SLQSCreateProfile
qaGobiApiWds.h, 2168
SLQSDeleteProfile
qaGobiApiWds.h, 2168
SLQSDeleteProfileParams, 972
profileIndex, 973
profileType, 973
SLQSDeleteSMS
qaGobiApiSms.h, 2018
SLQSDmsSwiGetPCInfo
qaGobiApiDms.h, 1871
SLQSDmsSwiGetResetInfo
qaGobiApiDms.h, 1871
SLQSDmsSwiIndicationRegister
qaGobiApiDms.h, 1871
SLQSDownloadFirmwareToSlot
qaGobiApiFms.h, 1903
SLQSFWINFO_SKU_SZ
qaGobiApiFms.h, 1896
SLQSGet3GPPConfigItem
qaGobiApiWds.h, 2169
SLQSGetAGPSConfig
qaGobiApiPds.h, 1993
SLQSGetAudioPathConfig
qaGobiApiAudio.h, 1751
SLQSGetAudioProfile
qaGobiApiAudio.h, 1752
SLQSGetAudioVolTLBConfig
qaGobiApiAudio.h, 1752
SLQSGetBandCapabilities
qaGobiApiDms.h, 1871
SLQSGetBandCapability
qaGobiApiDms.h, 1872
SLQSGetBootVersionNumber
qaGobiApiFms.h, 1904
SLQSGetByteTotals
qaGobiApiWds.h, 2169
SLQSGetConnectionRate
qaGobiApiWds.h, 2170
SLQSGetCurrDataSystemStat
qaGobiApiWds.h, 2170
SLQSGetCurrentChannelRate
qaGobiApiWds.h, 2171
SLQSGetCurrentPRLInfo
qaGobiApiDms.h, 1874
SLQSGetCustFeatures
qaGobiApiDms.h, 1874
SLQSGetCustFeaturesV2
qaGobiApiDms.h, 1875
SLQSGetDUNCallInfo
qaGobiApiWds.h, 2172
SLQSGetDataBearerTechnology
qaGobiApiWds.h, 2171
SLQSGetDataBearerTechnologyExt
qaGobiApiWds.h, 2172
SLQSGetDeviceMode
qaGobiApiDcs.h, 1848
SLQSGetERIFile
qaGobiApiDms.h, 1875
SLQSGetErrorRate
qaGobiApiNas.h, 1963
SLQSGetFirmwareInfo
qaGobiApiFms.h, 1904
SLQSGetGPSStateInfo
qaGobiApiPds.h, 1994
SLQSGetIMSARegStatus
qaGobiApiImsa.h, 1919
SLQSGetIMSAServiceStatus
qaGobiApiImsa.h, 1920
SLQSGetIMSASupportedFields
qaGobiApiImsa.h, 1920
SLQSGetIMSASupportedMsg

qaGobiApiImsa.h, 1921
SLQSGetIMSSMSConfig
qaGobiApiIms.h, 1913
SLQSGetIMSUserConfig
qaGobiApiIms.h, 1914
SLQSGetIMSVoIPConfig
qaGobiApiIms.h, 1914
SLQSGetImageInfo
qaGobiApiFms.h, 1905
SLQSGetImageInfo_9x15
qaGobiApiFms.h, 1905
SLQSGetImageInfoMC77xx
qaGobiApiFms.h, 1906
SLQSGetImageInfoMC83xx
qaGobiApiFms.h, 1906
SLQSGetIndicationRegister
qaGobiApiSms.h, 2019
SLQSGetM2MAVMute
qaGobiApiSwiAudio.h, 2034
SLQSGetM2MAudioProfile
qaGobiApiSwiAudio.h, 2033
SLQSGetM2MAudioVolume
qaGobiApiSwiAudio.h, 2034
SLQSGetM2MSpkrGain
qaGobiApiSwiAudio.h, 2034
SLQSGetMessageWaiting
qaGobiApiSms.h, 2020
SLQSGetNetStatistic
qaGobiApiDcs.h, 1848
SLQSGetNetworkTime
qaGobiApiNas.h, 1963
SLQSGetOperatorNameData
qaGobiApiNas.h, 1963
SLQSGetPLMNName
qaGobiApiNas.h, 1964
SLQSGetPacketStatistics
qaGobiApiWds.h, 2172
SLQSGetPidof
qaGobiApiSwi.h, 2031
SLQSGetPowerSaveModeConfig
qaGobiApiDms.h, 1875
SLQSGetProfile
qaGobiApiWds.h, 2173
SLQSGetProfileSettings
qaGobiApiWds.h, 2175
SLQSGetRegMgrConfig
qaGobiApiIms.h, 1915
SLQSGetRfSarState
qaGobiApiSar.h, 2008
SLQSGetRuntimeSettings
qaGobiApiWds.h, 2175
SLQSGetSIPConfig
qaGobiApiIms.h, 1915
SLQSGetSMS
qaGobiApiSms.h, 2020
SLQSGetSMSList
qaGobiApiSms.h, 2022
SLQSGetSdkVersion
qaGobiApiSwi.h, 2032
SLQSGetSerialNumbers
qaGobiApiDms.h, 1876
SLQSGetServingSystem
qaGobiApiNas.h, 1964
SLQSGetSessionState
qaGobiApiWds.h, 2175
SLQSGetSignalStrength
qaGobiApiNas.h, 1965
SLQSGetSmsBroadcastConfig
qaGobiApiSms.h, 2021
SLQSGetSysSelectionPref
qaGobiApiNas.h, 1965
SLQSGetSysSelectionPrefExt
qaGobiApiNas.h, 1966
SLQSGetTransLayerInfo
qaGobiApiSms.h, 2023
SLQSGetTransNWRegInfo
qaGobiApiSms.h, 2023
SLQSGetUsbPortNames
qaGobiApiDcs.h, 1849
SLQSGetValidFwPriCombinations
qaGobiApiFms.h, 1907
SLQSImsConfigIndicationRegister
qaGobiApiIms.h, 1915
SLQSInitiateNetworkRegistration
qaGobiApiNas.h, 1966
SLQSIsSpkgFormatRequired
qaGobiApiFms.h, 1907
SLQSKillSDKProcess
qaGobiApiDcs.h, 1849
SLQSLOCDelAssData
qaGobiApiLoc.h, 1923
SLQSLOCEventRegister
qaGobiApiLoc.h, 1923
SLQSLOCGetBestAvailPos
qaGobiApiLoc.h, 1924
SLQSLOCGetServer
qaGobiApiLoc.h, 1924
SLQSLOCInjectPosition
qaGobiApiLoc.h, 1925
SLQSLOCInjectSensorData
qaGobiApiLoc.h, 1925
SLQSLOCInjectUTCTime
qaGobiApiLoc.h, 1926
SLQSLOCSetCradleMountConfig
qaGobiApiLoc.h, 1926
SLQSLOCSetExtPowerState
qaGobiApiLoc.h, 1926
SLQSLOCSetOpMode
qaGobiApiLoc.h, 1927
SLQSLOCSetServer
qaGobiApiLoc.h, 1927
SLQSLOCStart
qaGobiApiLoc.h, 1928
SLQSLOCStop
qaGobiApiLoc.h, 1928
SLQSModifyProfile

qaGobiApiWds.h, 2176
SLQSModifySMSStatus
qaGobiApiSms.h, 2023
SLQSNASGetLTECPHYCaInfo
qaGobiApiNas.h, 1969
SLQSNASGeteDRXParams
qaGobiApiNas.h, 1968
SLQSNASSeteDRXParams
qaGobiApiNas.h, 1973
SLQSNASSwiGetChannelLock
qaGobiApiNas.h, 1973
SLQSNASSwiSetChannelLock
qaGobiApiNas.h, 1974
SLQSNasConfigSigInfo2
qaGobiApiNas.h, 1967
SLQSNasGet3GPP2Subscription
qaGobiApiNas.h, 1967
SLQSNasGetCellLocationInfo
qaGobiApiNas.h, 1968
SLQSNasGetHDRColorCode
qaGobiApiNas.h, 1968
SLQSNasGetRFInfo
qaGobiApiNas.h, 1969
SLQSNasGetSigInfo
qaGobiApiNas.h, 1970
SLQSNasGetSysInfo
qaGobiApiNas.h, 1970
SLQSNasGetTxRxInfo
qaGobiApiNas.h, 1970
SLQSNasIndicationRegister
qaGobiApiNas.h, 1971
SLQSNasIndicationRegisterExt
qaGobiApiNas.h, 1972
SLQSNasIndicationRegisterLTECphyCa
qaGobiApiNas.h, 1972
SLQSNasNetworkRejectCallback
qaGobiApiCbk.h, 1821
SLQSNasNetworkTimeCallBack
qaGobiApiCbk.h, 1821
SLQSNasSigInfo2CallBack
qaGobiApiCbk.h, 1821
SLQSNasSigInfoCallBack
qaGobiApiCbk.h, 1822
SLQSNasSwiIndicationRegister
qaGobiApiNas.h, 1974
SLQSNasSwiModemStatus
qaGobiApiNas.h, 1974
SLQSNasSwiOTAMessageCallback
qaGobiApiCbk.h, 1822
SLQSNasSysInfoCallBack
qaGobiApiCbk.h, 1823
SLQSNasTimerCallback
qaGobiApiCbk.h, 1823
SLQSOMADMCancelSession
qaGobiApiSwiOmadms.h, 2059
SLQSOMADMGetSessionInfo
qaGobiApiSwiOmadms.h, 2060
SLQSOMADMGetSettings
qaGobiApiSwiOmadms.h, 2060
SLQSOMADMGetSettings2
qaGobiApiSwiOmadms.h, 2061
SLQSOMADMSendSelection
qaGobiApiSwiOmadms.h, 2061
SLQSOMADMSendSelection2
qaGobiApiSwiOmadms.h, 2062
SLQSOMADMSessionInfo
qaGobiApiSwiOmadms.h, 2055
SLQSOMADMSetSettings
qaGobiApiSwiOmadms.h, 2062
SLQSOMADMSetSettings2
qaGobiApiSwiOmadms.h, 2063
SLQSOMADMSetSettings3
qaGobiApiSwiOmadms.h, 2063
SLQSOMADMSettings
qaGobiApiSwiOmadms.h, 2057
SLQSOMADMSettingsReqParams
qaGobiApiSwiOmadms.h, 2058
SLQSOMADMSettingsReqParams3
qaGobiApiSwiOmadms.h, 2058
SLQSOMADMStartSession
qaGobiApiSwiOmadms.h, 2064
SLQSOMADMStartSession2
qaGobiApiSwiOmadms.h, 2064
SLQSOriginateUSSD
qaGobiApiVoice.h, 2123
SLQSPDSDeterminePosition
qaGobiApiPds.h, 1994
SLQSPDSInjectAbsoluteTimeReference
qaGobiApiPds.h, 1995
SLQSPDSInjectPositionData
qaGobiApiPds.h, 1995
SLQSPerformNetworkScan
qaGobiApiNas.h, 1975
SLQSQosGetFlowStatus
qaGobiApiQos.h, 1999
SLQSQosGetGranted
qaGobiApiQos.h, 2000
SLQSQosGetNWProf
qaGobiApiQos.h, 2001
SLQSQosGetNetworkStatus
qaGobiApiQos.h, 2000
SLQSQosModify
qaGobiApiQos.h, 2001
SLQSQosRel
qaGobiApiQos.h, 2002
SLQSQosReq
qaGobiApiQos.h, 2002
SLQSQosReset
qaGobiApiQos.h, 2003
SLQSQosResume
qaGobiApiQos.h, 2003
SLQSQosSuspend
qaGobiApiQos.h, 2004
SLQSQosSwiReadApnExtraParams
qaGobiApiQos.h, 2004
SLQSQosSwiReadDataStats

qaGobiApiQos.h, 2004
SLQSRegisterIMSAIndication
qaGobiApiImsa.h, 1921
SLQSResetPacketStatics
qaGobiApiWds.h, 2177
SLQSSGetDHCPv4ClientConfig
qaGobiApiWds.h, 2179
SLQSSGetLoopback
qaGobiApiWds.h, 2179
SLQSSSTlv
unpack_nas_SetEventReportInd_t, 1231
SLQSSSetDHCPv4ClientConfig
qaGobiApiWds.h, 2180
SLQSSSetLoopback
qaGobiApiWds.h, 2180
SLQSSendAsyncSMS
qaGobiApiSms.h, 2024
SLQSSendLongSMS
qaGobiApiSms.h, 2024
SLQSSendRawQMI
qaGobiApiSwi.h, 2032
SLQSSendSMS
qaGobiApiSms.h, 2025
SLQSSet3GPPConfigItem
qaGobiApiWds.h, 2177
SLQSSetAGPSConfig
qaGobiApiPds.h, 1996
SLQSSetAudioPathConfig
qaGobiApiAudio.h, 1753
SLQSSetAudioProfile
qaGobiApiAudio.h, 1753
SLQSSetAudioVolTLBConfig
qaGobiApiAudio.h, 1754
SLQSSetBandPreference
qaGobiApiNas.h, 1975
SLQSSetBandPreferenceCbk
qaGobiApiCbk.h, 1823
SLQSSetCrashStateCheckIgnore
qaGobiApiFms.h, 1908
SLQSSetCustFeatures
qaGobiApiDms.h, 1876
SLQSSetCustFeaturesV2
qaGobiApiDms.h, 1877
SLQSSetDHCPv4ClientLeaseStatusCallback
qaGobiApiCbk.h, 1824
SLQSSetDUNCallInfoCallback
qaGobiApiCbk.h, 1825
SLQSSetDataSystemStatusCallback
qaGobiApiCbk.h, 1824
SLQSSetIMSAPdpStatusCallback
qaGobiApiCbk.h, 1825
SLQSSetIMSARatStatusCallback
qaGobiApiCbk.h, 1825
SLQSSetIMSARegStatusCallback
qaGobiApiCbk.h, 1826
SLQSSetIMSASvcStatusCallback
qaGobiApiCbk.h, 1826
SLQSSetIMSSMSConfig
qaGobiApiIms.h, 1916
SLQSSetIMSSMSConfigCallback
qaGobiApiCbk.h, 1827
SLQSSetIMSUserConfig
qaGobiApiIms.h, 1916
SLQSSetIMSUserConfigCallback
qaGobiApiCbk.h, 1827
SLQSSetIMSVoIPConfig
qaGobiApiIms.h, 1917
SLQSSetIMSVoIPConfigCallback
qaGobiApiCbk.h, 1828
SLQSSetIndicationRegister
qaGobiApiSms.h, 2026
SLQSSetLocInjectPositionCallback
qaGobiApiCbk.h, 1828
SLQSSetLocInjectUTCTimeCallback
qaGobiApiCbk.h, 1828
SLQSSetLoggingMask
qaGobiApiDcs.h, 1850
SLQSSetM2MAVMute
qaGobiApiSwiAudio.h, 2037
SLQSSetM2MAudioAVCFG
qaGobiApiSwiAudio.h, 2035
SLQSSetM2MAudioLPBK
qaGobiApiSwiAudio.h, 2035
SLQSSetM2MAudioNVDef
qaGobiApiSwiAudio.h, 2036
SLQSSetM2MAudioProfile
qaGobiApiSwiAudio.h, 2036
SLQSSetM2MAudioVolume
qaGobiApiSwiAudio.h, 2036
SLQSSetM2MSpkrGain
qaGobiApiSwiAudio.h, 2037
SLQSSetModemTempCallback
qaGobiApiCbk.h, 1828
SLQSSetPacketSrvStatusCallback
qaGobiApiCbk.h, 1829
SLQSSetPositionMethodState
qaGobiApiPds.h, 1996
SLQSSetPowerSaveModeConfig
qaGobiApiDms.h, 1877
SLQSSetProfile
qaGobiApiWds.h, 2177
SLQSSetQosEventCallback
qaGobiApiCbk.h, 1829
SLQSSetQosNWStatusCallback
qaGobiApiCbk.h, 1830
SLQSSetQosPriEventCallback
qaGobiApiCbk.h, 1830
SLQSSetQosStatusCallback
qaGobiApiCbk.h, 1830
SLQSSetRegMgrConfig
qaGobiApiIms.h, 1917
SLQSSetRegMgrConfigCallback
qaGobiApiCbk.h, 1831
SLQSSetRfSarState
qaGobiApiSar.h, 2008
SLQSSetSDKTerminatedCallback

qaGobiApiCbk.h, 1831
SLQSSetSIMBasedImageSwitching
qaGobiApiFms.h, 1908
SLQSSetSIPConfig
qaGobiApiIms.h, 1918
SLQSSetSIPConfigCallback
qaGobiApiCbk.h, 1833
SLQSSetSMSEventCallback
qaGobiApiCbk.h, 1834
SLQSSetServingSystemCallback
qaGobiApiCbk.h, 1832
SLQSSetSessionStateCallback
qaGobiApiCbk.h, 1832
SLQSSetSignalStrengthsCallback
qaGobiApiCbk.h, 1833
SLQSSetSmsBroadcastActivation
qaGobiApiSms.h, 2026
SLQSSetSmsBroadcastConfig
qaGobiApiSms.h, 2027
SLQSSetSmsStorage
qaGobiApiSms.h, 2027
SLQSSetSpkgFormatRequired
qaGobiApiFms.h, 1908
SLQSSetSwiGetResetInfoCallback
qaGobiApiCbk.h, 1834
SLQSSetSwiHDRPersCallback
qaGobiApiCbk.h, 1834
SLQSSetSysSelectionPref
qaGobiApiNas.h, 1977
SLQSSetSysSelectionPrefCallBack
qaGobiApiCbk.h, 1835
SLQSSetSysSelectionPrefExt
qaGobiApiNas.h, 1977
SLQSSetTransLayerInfoCallback
qaGobiApiCbk.h, 1835
SLQSSetTransNWRegInfoCallback
qaGobiApiCbk.h, 1835
SLQSSetWdsEventCallback
qaGobiApiCbk.h, 1836
SLQSSetWdsTransferStatisticCallback
qaGobiApiCbk.h, 1837
SLQSSignalStrengthsIndReq, 983
ecioDelta, 984
ecioThresholdList, 984
ecioThresholdListLen, 984
ioDelta, 984
lteRsrpDelta, 984
lteSnrDelta, 984
rsrqDelta, 984
rxSignalStrengthDelta, 984
sinrDelta, 984
sinrThresholdList, 984
sinrThresholdListLen, 984
SLQSSignalStrengthsInformation, 985
ecioInfo, 985
errorRateInfo, 986
io, 986
lteRsrpinfo, 986
lteSnrinfo, 986
rsrqInfo, 986
rxSignalStrengthInfo, 986
sinr, 986
SLQSSmsGetMaxStorageSize
qaGobiApiSms.h, 2028
SLQSSmsGetMessageProtocol
qaGobiApiSms.h, 2028
SLQSSmsSetRoutes
qaGobiApiSms.h, 2029
SLQSStart
qaGobiApiDcs.h, 1850
SLQSStart_AVAgent
qaGobiApiDcs.h, 1851
SLQSStartSrv
qaGobiApiDcs.h, 1851
SLQSStartStopDataSession
qaGobiApiWds.h, 2180
SLQSSwiAVMSEventReportCallback
qaGobiApiCbk.h, 1837
SLQSSwiClearDyingGaspStatistics
qaGobiApiDms.h, 1878
SLQSSwiDmsGetMTU
qaGobiApiSwiDms.h, 2053
SLQSSwiDmsGetUsbNetNum
qaGobiApiSwiDms.h, 2053
SLQSSwiDmsSetMTU
qaGobiApiSwiDms.h, 2053
SLQSSwiDmsSetUsbNetNum
qaGobiApiSwiDms.h, 2054
SLQSSwiGetAllCarrierImages
qaGobiApiFms.h, 1909
SLQSSwiGetCrashAction
qaGobiApiDms.h, 1878
SLQSSwiGetCrashInfo
qaGobiApiDms.h, 1878
SLQSSwiGetDyingGaspCfg
qaGobiApiDms.h, 1879
SLQSSwiGetDyingGaspStatistics
qaGobiApiDms.h, 1879
SLQSSwiGetFSN
qaGobiApiDms.h, 1879
SLQSSwiGetFirmwareCurr
qaGobiApiFms.h, 1909
SLQSSwiGetFwUpdateStatus
qaGobiApiDms.h, 1880
SLQSSwiGetHDRPersonality
qaGobiApiNas.h, 1977
SLQSSwiGetHDRProtSubtype
qaGobiApiNas.h, 1978
SLQSSwiGetHRPDStats
qaGobiApiNas.h, 1978
SLQSSwiGetHostDevInfo
qaGobiApiDms.h, 1880
SLQSSwiGetHostDevInfoParams
qaGobiApiDms.h, 1859
SLQSSwiGetLteCQI
qaGobiApiNas.h, 1979

SLQSSwiGetLteSccRxInfo
qaGobiApiNas.h, 1979
SLQSSwiGetOSInfo
qaGobiApiDms.h, 1881
SLQSSwiGetOSInfoParams
qaGobiApiDms.h, 1859
SLQSSwiGetSMSStorage
qaGobiApiSms.h, 2029
SLQSSwiGetSerialNoExt
qaGobiApiDms.h, 1881
SLQSSwiGetSerialNoExtParams
qaGobiApiDms.h, 1860
SLQSSwiGetUSBComp
qaGobiApiDms.h, 1881
SLQSSwiNetworkDebug
qaGobiApiNas.h, 1979
SLQSSwiPSDetach
qaGobiApiNas.h, 1980
SLQSSwiSetCrashAction
qaGobiApiDms.h, 1882
SLQSSwiSetDyingGaspCfg
qaGobiApiDms.h, 1882
SLQSSwiSetHostDevInfo
qaGobiApiDms.h, 1883
SLQSSwiSetHostDevInfoParams
qaGobiApiDms.h, 1860
SLQSSwiSetOSInfo
qaGobiApiDms.h, 1883
SLQSSwiSetOSInfoParams
qaGobiApiDms.h, 1861
SLQSSwiSetUSBComp
qaGobiApiDms.h, 1883
SLQSTmdDeRegNotMitigationLvl
qaGobiApiTmd.h, 2104
SLQSTmdGetMitigationDevList
qaGobiApiTmd.h, 2105
SLQSTmdGetMitigationLvl
qaGobiApiTmd.h, 2105
SLQSTmdMitigationLvlRptCallback
qaGobiApiCbk.h, 1837
SLQSTmdRegNotMitigationLvl
qaGobiApiTmd.h, 2105
SLQSUIMAuthenticate
qaGobiApiUim.h, 2108
SLQSUIMChangePin
qaGobiApiUim.h, 2109
SLQSUIMDepersonalization
qaGobiApiUim.h, 2109
SLQSUIMEventRegister
qaGobiApiUim.h, 2110
SLQSUIMGetCardStatus
qaGobiApiUim.h, 2110
SLQSUIMGetConfiguration
qaGobiApiUim.h, 2111
SLQSUIMGetFileAttributes
qaGobiApiUim.h, 2111
SLQSUIMGetSlotsStatus
qaGobiApiUim.h, 2112
SLQSUIMGetState
qaGobiApiDms.h, 1884
SLQSUIMPowerDown
qaGobiApiUim.h, 2112
SLQSUIMPowerUp
qaGobiApiUim.h, 2113
SLQSUIMReadTransparent
qaGobiApiUim.h, 2113
SLQSUIMRefreshComplete
qaGobiApiUim.h, 2114
SLQSUIMRefreshGetLastEvent
qaGobiApiUim.h, 2114
SLQSUIMRefreshOK
qaGobiApiUim.h, 2115
SLQSUIMRefreshRegister
qaGobiApiUim.h, 2115
SLQSUIMReset
qaGobiApiUim.h, 2116
SLQSUIMSetPinProtection
qaGobiApiUim.h, 2116
SLQSUIMSetRefreshCallBack
qaGobiApiCbk.h, 1838
SLQSUIMSetStatusChangeCallBack
qaGobiApiCbk.h, 1838
SLQSUIMSwitchSlot
qaGobiApiUim.h, 2117
SLQSUIMUnblockPin
qaGobiApiUim.h, 2117
SLQSUIMVerifyPin
qaGobiApiUim.h, 2118
SLQSUpgradeFirmware9x07
qaGobiApiFms.h, 1910
SLQSUpgradeFirmware9x15
qaGobiApiFms.h, 1910
SLQSVoiceALSSelectLine
qaGobiApiVoice.h, 2124
SLQSVoiceALSSetLineSwitching
qaGobiApiVoice.h, 2124
SLQSVoiceAnswerCall
qaGobiApiVoice.h, 2125
SLQSVoiceBindSubscription
qaGobiApiVoice.h, 2125
SLQSVoiceBurstDTMF
qaGobiApiVoice.h, 2126
SLQSVoiceDialCall
qaGobiApiVoice.h, 2126
SLQSVoiceEndCall
qaGobiApiVoice.h, 2127
SLQSVoiceGetAllCallInfo
qaGobiApiVoice.h, 2127
SLQSVoiceGetCLIP
qaGobiApiVoice.h, 2130
SLQSVoiceGetCLIR
qaGobiApiVoice.h, 2131
SLQSVoiceGetCNAP
qaGobiApiVoice.h, 2131
SLQSVoiceGetCOLP
qaGobiApiVoice.h, 2132

SLQSVoiceGetCOLR
qaGobiApiVoice.h, 2132
SLQSVoiceGetCallBarring
qaGobiApiVoice.h, 2128
SLQSVoiceGetCallForwardingStatus
qaGobiApiVoice.h, 2128
SLQSVoiceGetCallInfo
qaGobiApiVoice.h, 2129
SLQSVoiceGetCallWaiting
qaGobiApiVoice.h, 2129
SLQSVoiceGetConfig
qaGobiApiVoice.h, 2133
SLQSVoiceIndicationRegister
qaGobiApiVoice.h, 2133
SLQSVoiceInfoRecCallback
qaGobiApiCbk.h, 1838
SLQSVoiceManageCalls
qaGobiApiVoice.h, 2134
SLQSVoiceOrigUSSDNoWait
qaGobiApiVoice.h, 2134
SLQSVoiceSendFlash
qaGobiApiVoice.h, 2135
SLQSVoiceSetAllCallStatusCallBack
qaGobiApiCbk.h, 1839
SLQSVoiceSetCallBarringPassword
qaGobiApiVoice.h, 2135
SLQSVoiceSetConfig
qaGobiApiVoice.h, 2136
SLQSVoiceSetDTMFEventCallBack
qaGobiApiCbk.h, 1839
SLQSVoiceSetOTASPStatusCallBack
qaGobiApiCbk.h, 1840
SLQSVoiceSetPreferredPrivacy
qaGobiApiVoice.h, 2136
SLQSVoiceSetPrivacyChangeCallBack
qaGobiApiCbk.h, 1840
SLQSVoiceSetSUPSCallBack
qaGobiApiCbk.h, 1841
SLQSVoiceSetSUPSNotificationCallback
qaGobiApiCbk.h, 1841
SLQSVoiceSetSUPSService
qaGobiApiVoice.h, 2137
SLQSVoiceStartContDTMF
qaGobiApiVoice.h, 2138
SLQSVoiceStopContDTMF
qaGobiApiVoice.h, 2138
SLQSWCDMADecodeLongTextMsg
qaGobiApiSms.h, 2030
SLQSWCDMADecodeMTTextMsg
qaGobiApiSms.h, 2030
SLQSWCDMAEncodeMOTextMsg
qaGobiApiSms.h, 2030
SLQSWdsGoActive
qaGobiApiWds.h, 2181
SLQSWdsGoDormant
qaGobiApiWds.h, 2181
SLQSWdsSetEventReport
qaGobiApiWds.h, 2182
SLQSWdsSwiPDPRuntimeSettings
qaGobiApiWds.h, 2182
SLQSWmsAsyncRawSendCallBack
qaGobiApiCbk.h, 1841
SLQSWmsMemoryFullCallBack
qaGobiApiCbk.h, 1842
SLQSWmsMessageWaitingCallBack
qaGobiApiCbk.h, 1842
SMS_CONFIG_LEN
sms.h, 2209
SMS_MAX_SMS_ROUTES
sms.h, 2209
SMS_NUM_OF_SET
sms.h, 2209
SMSAsyncRawSend
qaGobiApiCbk.h, 1772
SMSAsyncRawSend_s, 1001
alphaIDLen, 1002
causeCode, 1002
errorClass, 1002
messageID, 1002
msgDelFailureCause, 1002
msgDelFailureType, 1002
pAlphaID, 1002
RPCause, 1002
sendStatus, 1002
TPCause, 1002
userData, 1002
SMSC_TYPE_LEN
sms.h, 2209
SMSCAddress, 1002
data, 1003
length, 1003
SMSCAddressInfo
qaGobiApiCbk.h, 1773
sMSCAddressInfo, 1003
data, 1003
length, 1003
sMSCAddressTlv, 1003
SMSCInfo, 1004
TlvPresent, 1004
SMSCInfo
sMSCAddressTlv, 1004
SMSCTlv
unpack_sms_SetNewSMSCallback_ind_t, 1317
SMSEtwsMessage, 1004
data, 1004
length, 1004
notificationType, 1004
SMSEtwsMessageInfo
qaGobiApiCbk.h, 1773
sMSEtwsMessageInfo, 1005
data, 1005
length, 1005
notificationType, 1005
sMSEtwsMessageTlv, 1005
EtwsMessageInfo, 1006
TlvPresent, 1006

SMSEtwsPlmn, 1006
mobileCountryCode, 1006
mobileNetworkCode, 1006
SMSEtwsPlmnInfo
qaGobiApiCbk.h, 1774
sMSEtwsPlmnInfo, 1006
mobileCountryCode, 1007
mobileNetworkCode, 1007
SMSEventInfo
qaGobiApiCbk.h, 1774
SMSEventInfo_s, 1007
pEtwsMessageInfo, 1008
pEtwsPlmnInfo, 1008
pMTMessageInfo, 1008
pMessageModeInfo, 1008
pSMSCAddressInfo, 1008
pSMSOnIMSInfo, 1008
pTransferRouteMTMessageInfo, 1008
smsEventType, 1008
SMSEventType
qaGobiApiCbk.h, 1805
SMSMTMessage, 1011
messageIndex, 1011
storageType, 1011
SMSMTMessageInfo
qaGobiApiCbk.h, 1775
sMSMTMessageInfo, 1011
messageIndex, 1012
storageType, 1012
SMSMemoryInfo, 1009
messageMode, 1010
storageType, 1010
SMSMessageMode, 1010
messageMode, 1010
SMSMessageModeInfo
qaGobiApiCbk.h, 1775
sMSMessageModeInfo, 1010
messageMode, 1010
SMSOnIMS, 1012
smsOnIMS, 1012
SMSOnIMSInfo
qaGobiApiCbk.h, 1775
sMSOnIMSInfo, 1012
smsOnIMS, 1013
sMSOnIMSTlv, 1013
IMSInfo, 1013
TlvPresent, 1013
SMSSupport
pack_dms_SetCustFeature_t, 661
unpack_dms_GetCustFeature_t, 1137
SMSTransferRouteMTMessage, 1015
ackIndicator, 1016
data, 1016
format, 1016
length, 1016
transactionID, 1016
SMSTransferRouteMTMessageInfo
qaGobiApiCbk.h, 1775
sMSTransferRouteMTMessageInfo, 1016
ackIndicator, 1016
data, 1016
format, 1016
length, 1016
transactionID, 1017
SNR
nas_NetworkStatEVDO, 530
NetworkStatEVDO, 642
sNonIntraSearch
LTEInfoIntrafreq, 429
nas_LTEInfoIntrafreq, 507
SO
nas_NetworkStat1x, 528
NetworkStat1x, 640
SOMask
CurrNetworkInfo, 217
currNetworkInfo, 218
wds_currNetworkInfo, 1548
SPC_SIZE
dms.h, 1599
sPhyCaAggPcellInfo
nasGetLTECphyCa, 597
QmiCbkNasLTECphyCaInfo, 883
unpack_nas_SetNasLTECphyCaIndCallback_ind_t, 1231
sPhyCaAggScellDlBw
nasGetLTECphyCa, 597
QmiCbkNasLTECphyCaInfo, 883
unpack_nas_SetNasLTECphyCaIndCallback_ind_t, 1231
sPhyCaAggScellIndType
nasGetLTECphyCa, 597
QmiCbkNasLTECphyCaInfo, 883
unpack_nas_SetNasLTECphyCaIndCallback_ind_t, 1232
sPhyCaAggScellIndex
nasGetLTECphyCa, 597
QmiCbkNasLTECphyCaInfo, 883
unpack_nas_SetNasLTECphyCaIndCallback_ind_t, 1232
sPhyCaAggScellInfo
nasGetLTECphyCa, 597
QmiCbkNasLTECphyCaInfo, 883
unpack_nas_SetNasLTECphyCaIndCallback_ind_t, 1232
sQosFlowStat, 1017
bearerId, 1017
tx_bytes, 1017
tx_bytes_drp, 1017
tx_pkt, 1017
tx_pkt_drp, 1017
sQosStat, 1017
apnId, 1018
numQosFlow, 1018
qosFlow, 1018
total_rx_bytes, 1018
total_rx_pkt, 1019

total_tx_bytes, 1019
total_tx_bytes_drp, 1019
total_tx_pkt, 1019
total_tx_pkt_drp, 1019
SSInfo
unpack_nas_SetServingSystemCallback_ind_t, 1233
sSLQSSignalStrengthsInfo
nas_SLQSSignalStrengthsTlv, 571
SSTlv
unpack_nas_SetEventReportInd_t, 1231
SUPSInfo, 1023
isModByCC, 1023
svcType, 1023
SUPSInformation
unpack_voice_SLQSVoiceSUPSCallback_ind_t, 1384
voiceSUPSInfo, 1532
SUPSType
pack_voice_SLQSVoiceManageCalls_t, 780
voiceManageCallsReq, 1515
SV, 1023
id, 1024
mask, 1024
system, 1024
SVInfo, 1024
len, 1025
pSV, 1025
SWI Audio Service(SWIAUDIO), 60
SWI Open Mobile Alliance Service (SWIOMA), 53
SWI_API
SwiDataTypes.h, 2228
SWI_STRUCT_CarrierImage, 1025
m_FwBuildId, 1026
m_FwImageId, 1026
m_PriBuildId, 1026
m_PriImageId, 1027
m_nCarrierId, 1026
m_nFolderId, 1026
m_nStorage, 1026
SWIDMS, 64
SWIWWANCMAPI.h, 2243
samplesPerBatch
accelAcceptReady_s, 122
accelTempAcceptReady_s, 123
gyroAcceptReady_s, 322
gyroTempAcceptReady_s, 322
loc_accelAcceptReady, 391
loc_accelTempAcceptReady, 391
loc_gyroAcceptReady, 397
loc_gyroTempAcceptReady, 398
sar.h, 2204
pack_sar_SLQSGetRfSarState, 2204
pack_sar_SLQSSetRfSarState, 2204
unpack_sar_SLQSGetRfSarState, 2205
unpack_sar_SLQSSetRfSarState, 2205
satelliteInfo, 926
azimuth, 928
elevation, 928
gnssSvId, 928
healthStatus, 928
snr, 928
svInfoMask, 928
svListLen, 928
svStatus, 928
system, 928
validMask, 928
SaveSMS
qaGobiApiSms.h, 2015
sbas_almanac_sv_msk
GPSStateInfo, 314
unpack_pds_SLQSGetGPSStateInfo_t, 1290
sbas_ephemeris_sv_msk
GPSStateInfo, 314
unpack_pds_SLQSGetGPSStateInfo_t, 1290
sbas_health_sv_msk
GPSStateInfo, 314
unpack_pds_SLQSGetGPSStateInfo_t, 1290
sbas_visible_sv_msk
GPSStateInfo, 315
unpack_pds_SLQSGetGPSStateInfo_t, 1290
SccRxInfo, 929
numInstances, 929
rsrq, 929
sigInfo, 929
snr, 929
TlvPresent, 929
scell_idx
nas_PhyCaAggScellIndex, 537
NASPhyCaAggScellIndex, 617
PhyCaAggScellIndex, 823
scell_state
nas_PhyCaAggScellIndType, 537
nas_PhyCaAggScellInfo, 540
NASPhyCaAggScellIndType, 618
NASPhyCaAggScellInfo, 619
PhyCaAggScellIndType, 824
PhyCaAggScellInfo, 827
screeningInd
connectNumInfo, 203
voice_connectNumInfo, 1462
sduErrorRatio
LibPackUMTSQoS, 388
UMTSMinQoS, 1126
UMTSQoS, 1128
wds_UMTSMinQoS, 1566
seDNSIPv4Address
unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t, 1425
seDNSIPv6Address
unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t, 1425
sePCSCFIPv4Address
unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t, 1425
sePCSCFIPv6Address

unpack_wds_SLQSWdsSwiPDPRuntimeSettings-_t, 1425
secActivate
fileAttributes, 268
uim_fileAttributes, 1086
secActivateMask
fileAttributes, 268
uim_fileAttributes, 1086
secChA
CDMAChannel, 172
nas_CDMAChannel, 461
secChB
CDMAChannel, 173
nas_CDMAChannel, 461
secDeactivate
fileAttributes, 268
uim_fileAttributes, 1086
secDeactivateMask
fileAttributes, 268
uim_fileAttributes, 1086
secIncrease
fileAttributes, 268
uim_fileAttributes, 1086
secIncreaseMask
fileAttributes, 268
uim_fileAttributes, 1086
SecProt
nas_protocolSubtypeElement, 545
protocolSubtypeElement, 850
secRead
fileAttributes, 268
uim_fileAttributes, 1086
secReadMask
fileAttributes, 268
uim_fileAttributes, 1086
secWrite
fileAttributes, 268
uim_fileAttributes, 1086
secWriteMask
fileAttributes, 268
uim_fileAttributes, 1086
secdns
unpack_wds_GetDefaultProfile_t, 1395
secdnsv6
unpack_wds_GetDefaultProfile_t, 1395
second
nas_timeInfo, 579
nas_UniversalTime, 585
timeInfo, 1063
UniversalTime, 1131
secondaryDNS
pack_wds_SetDefaultProfile_t, 794
SecondaryDNSV4
unpack_wds_SLQSGetRuntimeSettings_t, 1416
SecondaryDNSV6
unpack_wds_SLQSGetRuntimeSettings_t, 1416
secondaryHA
unpack_wds_GetMobileIPProfile_t, 1398
SectorIDLen
nas_NetworkStatEVDO, 530
NetworkStatEVDO, 642
selNetwork
nas_servSystem, 567
servSystem, 938
selected
BroadcastConfig, 152
CDMABroadcastConfig, 172
sms_BroadcastConfig, 988
sms_CDMABroadcastConfig, 989
selectedNetwork
NASServingSystemInfo, 627
ServingSystemInfo, 937
selection
pack_swioma_SLQSOMADMSendSelection_t, 755
SendSMS
qaGobiApiSms.h, 2016
sendStatus
SMSAsyncRawSend_s, 1002
unpack_sms_SLQSWmsAsyncRawSendCallBack-_ind_t, 1326
sensorData, 929
flags, 931
sensorDataLen, 931
timeOfFirstSample, 931
timeOffset, 931
xAxis, 931
yAxis, 931
zAxis, 931
sensorData_t, 931
flags, 932
sensorDataLen, 932
timeOfFirstSample, 932
timeOffset, 932
xAxis, 932
yAxis, 932
zAxis, 932
sensorDataLen
sensorData, 931
sensorData_t, 932
sensorDataUsage
qaGobiApiCbk.h, 1771
sensorDataUsage_s, 933
aidingIndicatorMask, 933
usageMask, 933
serialNumbersInfo, 933
esnSize, 934
imeiSize, 934
imeiSvnSize, 934
meidSize, 934
pESNString, 934
pIMEIString, 934
pImeiSvnString, 934
pMEIDString, 934
qaGobiApiDms.h, 1858
servSystem, 937

csAttachState, 938
numRadioInterfaces, 938
psAttachState, 938
radioInterface, 938
regState, 938
selNetwork, 938
ServerAddrList
unpack_wds_SLQSGetRuntimeSettings_t, 1416
serverAddrTypeMask
pack_loc_SLQSLOCGetServer_t, 681
serverStatus
QmiCbkLocGetServerInd, 869
QmiCbkLocSetServerInd, 882
unpack_loc_GetServer_Ind_t, 1200
unpack_loc_SetServer_Ind_t, 1216
serverType
LocGetServerReq, 413
LocSetServerReq, 420
pack_loc_SLQSLOCGetServer_t, 681
pack_loc_SLQSLOCSetServer_t, 690
QmiCbkLocGetServerInd, 869
unpack_loc_GetServer_Ind_t, 1200
serviceCategory
CDMABroadcastConfig, 172
sms_CDMABroadcastConfig, 989
serviceClassInformation
qaGobiApiVoice.h, 2122
serviceDomain
nas_RejectReasonTlv, 551
nasNetworkReject, 613
serviceProviderName, 935
displayCondition, 935
spn, 935
spnLength, 935
servingCellId
LTEInfoIntrafreq, 429
nas_LTEInfoIntrafreq, 507
ServingSystem
qaQmiServingSystemParam, 860
unpack_nas_SLQSGetServingSystem_t, 1243
ServingSystemInfo, 935
csAttachState, 936
hdrPersonality, 936
psAttachState, 936
radioInterfaceList, 936
radioInterfaceNo, 937
registrationState, 937
selectedNetwork, 937
sessionControl
pack_pds_StartPDSTrackingSessionExt_t, 738
sessionEndReason
_packetSrvStatus, 74
slqsSessionStateInfo, 980
unpack_wds_SLQSSetPacketSrvStatusCallback_t, 1419
SessionId
LOCStartReq, 421
pack_loc_Start_t, 692
pack_loc_Stop_t, 692
sessionId
LOCStopReq, 422
QmiCbkLocPositionReportInd, 880
ssdatasession_params, 1022
unpack_loc_PositionRpt_Ind_t, 1212
sessionInfo, 938
omaDmConfig, 939
omaDmFota, 939
omaDmNotifications, 939
pack_uim_ChangePin_t, 758
pack_uim_ReadTransparent_t, 759
pack_uim_SetPinProtection_t, 760
pack_uim_SLQSUIMAuthenticate_t, 761
pack_uim_SLQSUIMGetFileAttributes_t, 763
pack_uim_SLQSUIMRefreshComplete_t, 764
pack_uim_SLQSUIMRefreshGetLastEvent_t, 765
pack_uim_SLQSUIMRefreshOK_t, 765
pack_uim_SLQSUIMRefreshRegister_t, 766
pack_uim_UnblockPin_t, 767
pack_uim_VerifyPin_t, 769
sessionInfoTlv, 939
sessionInfoTlvExt, 940
UIMAuthenticateReq, 1099
UIMChangePinReq, 1100
UIMGetFileAttributesReq, 1104
UIMReadTransparentReq, 1108
UIMRefreshCompleteReq, 1110
UIMRefreshGetLastEventReq, 1112
UIMRefreshOKReq, 1113
UIMRefreshRegisterReq, 1113
UIMSetPinProtectionReq, 1115
UIMUnblockPinReq, 1119
UIMVerifyPinReq, 1120
SessionInfoConfig
unpack_swioma_SLQSOMADMAlertCallback_ind_t, 1331
sessionInfoExt, 939
omaDmConfig, 939
omaDmFota, 939
SessionInfoFota
unpack_swioma_SLQSOMADMAlertCallback_ind_t, 1331
SessionInfoNotification
unpack_swioma_SLQSOMADMAlertCallback_ind_t, 1331
sessionInfoTlv, 939
sessionInfo, 939
sessionType, 939
TlvPresent, 939
sessionInfoTlvExt, 940
sessionInfo, 940
sessionType, 940
TlvPresent, 940
sessionInformation
qaGobiApiCbk.h, 1772
sessionInformationExt
qaGobiApiCbk.h, 1772

sessionOperation
pack_pds_StartPDSTrackingSessionExt_t, 738
sessionServerOption
pack_pds_StartPDSTrackingSessionExt_t, 738
SessionState
unpack_swioma_SLQSOMADMGetSessionInfo_t, 1333
SessionStatus
unpack_pds_SetEventReport_Ind_t, 1285
sessionStatus
omaDmNotificationsTlv, 655
QmiCbkLocPositionReportInd, 880
unpack_loc_PositionRpt_Ind_t, 1212
unpack_omaDmNotificationsTlv_t, 1279
SessionType
_SwiAvmsEventInd, 107
pack_swioma_SLQSOMADMGetSessionInfo_t, 755
unpack_swioma_SLQSOMADMGetSessionInfo_t, 1333
sessionType
omaDmFotaTlv, 652
pack_pds_StartPDSTrackingSessionExt_t, 738
pack_swioma_SLQSOMADMCancelSession_t, 754
pack_swioma_SLQSOMADMStartSession_t, 757
sessionInfoTlv, 939
sessionInfoTlvExt, 940
uim_refreshevent, 1091
uim_sessionInformation, 1093
uim_UIMSessionInformation, 1097
UIMRefreshEvent, 1111
UIMSessionInformation, 1114
unpack_omaDmFotaTlv_t, 1278
set_fix_rate
pack_swiloc_SwiLocSetAutoStart_t, 754
SwiLocSetAutoStartReq, 1033
set_fix_type
pack_swiloc_SwiLocSetAutoStart_t, 754
SwiLocSetAutoStartReq, 1033
set_function
pack_swiloc_SwiLocSetAutoStart_t, 754
SwiLocSetAutoStartReq, 1033
set_max_dist
pack_swiloc_SwiLocSetAutoStart_t, 754
SwiLocSetAutoStartReq, 1033
set_max_time
pack_swiloc_SwiLocSetAutoStart_t, 754
SwiLocSetAutoStartReq, 1033
SetACCOLC
qaGobiApiNas.h, 1959
SetActivationStatusCallback
qaGobiApiCbk.h, 1806
SetActiveMobileIPProfile
qaGobiApiWds.h, 2159
SetAudioPathConfigReq, 940
pCodecSTGain, 941
pDTMFTXGain, 941
pECMode, 942
pNSEnable, 942
pRXAGCList, 942
pRXAVCAGCSwitch, 942
pRXAVCList, 942
pRXPCMIIRFltr, 942
pTXAGCList, 942
pTXAVCSwitch, 942
pTXGain, 942
pTXPCMIIRFltr, 942
Profile, 942
SetAudioProfileReq, 942
EarMute, 943
Generator, 943
MicMute, 943
Profile, 943
Volume, 943
SetAudioVolTLBConfigReq, 943
Generator, 944
Item, 944
Profile, 944
VolValue, 944
Volume, 944
SetAudioVolTLBConfigResp, 944
ResCode, 944
SetAutoconnect
qaGobiApiWds.h, 2159
SetCATEventCallback
qaGobiApiCbk.h, 1806
SetCDMANetworkParameters
qaGobiApiNas.h, 1960
SetCfgParamChangeCallback
qaGobiApiCbk.h, 1807
setCustomSettingV2, 945
cust_id, 945
cust_value, 945
value_length, 945
SetDataCapabilitiesCallback
qaGobiApiCbk.h, 1807
SetDefaultProfile
qaGobiApiWds.h, 2159
SetDefaultProfileLTE
qaGobiApiWds.h, 2161
SetDefaultProfileLTEV2
qaGobiApiWds.h, 2162
SetDefaultProfileNum
qaGobiApiWds.h, 2164
SetDeviceStateChangeCbk
qaGobiApiCbk.h, 1808
setDyingGaspCfg, 945
pDestSMSContent, 946
pDestSMSNum, 946
SetFwDldCompletionCbk
qaGobiApiCbk.h, 1808
SetGPSCallback
qaGobiApiCbk.h, 1808
SetIMSSMSConfigReq, 946
pPhoneCtxtURI, 946

pPhoneCtxtURILen, 946
pSMSFormat, 946
pSMSOverIPNwInd, 946
SetIMSSMSConfigResp, 946
pSettingResp, 947
SetIMSUserConfigReq, 947
pIMSDomain, 947
pIMSDomainLen, 947
SetIMSUserConfigResp, 947
pSettingResp, 948
SetIMSVoIPConfigReq, 948
pAmrMode, 950
pAmrOctetAligned, 950
pAmrWBMode, 950
pAmrWBOctetAligned, 950
pAmrWbEnable, 950
pMinSessionExpiryTimer, 950
pRTPRTCPInactTimer, 950
pRingBackTimer, 950
pRingingTimer, 950
pScrAmrEnable, 950
pScrAmrWbEnable, 950
pSessionExpiryTimer, 950
SetIMSVoIPConfigResp, 950
pSettingResp, 951
SetImagePath
qaGobiApiFms.h, 1901
SetImagesPreference
qaGobiApiFms.h, 1902
setIndicationRegReq
qaGobiApiSms.h, 2013
SetLURejectCallback
qaGobiApiCbk.h, 1813
SetLocBestAvailPosCallback
qaGobiApiCbk.h, 1809
SetLocCradleMountCallback
qaGobiApiCbk.h, 1809
SetLocDeleteAssistDataCallback
qaGobiApiCbk.h, 1809
SetLocEngineStateCallback
qaGobiApiCbk.h, 1810
SetLocEventMaskNMEACallback
qaGobiApiCbk.h, 1810
SetLocEventPositionCallback
qaGobiApiCbk.h, 1810
SetLocEventTimeSyncCallback
qaGobiApiCbk.h, 1810
SetLocGetServerCallback
qaGobiApiCbk.h, 1811
SetLocGnssSvInfoCallback
qaGobiApiCbk.h, 1811
SetLocInjectSensorDataCallback
qaGobiApiCbk.h, 1811
SetLocInjectTimeCallback
qaGobiApiCbk.h, 1812
SetLocOpModeCallback
qaGobiApiCbk.h, 1812
SetLocSensorStreamingCallback
qaGobiApiCbk.h, 1812
SetLocSetExtPowerConfigCallback
qaGobiApiCbk.h, 1812
SetLocSetServerCallback
qaGobiApiCbk.h, 1813
SetM2MAVMuteReq, 954
EarMute, 954
MicMute, 954
pCwtMute, 954
Profile, 955
SetM2MAudioAVCFGReq, 951
Device, 951
PIFACEId, 951
pPCMParams, 951
Profile, 951
SetM2MAudioLPBKReq, 952
Enable, 952
SetM2MAudioProfileReq, 952
pCwtMute, 953
pEarMute, 953
pGenerator, 953
pMicMute, 953
pVolume, 953
Profile, 953
SetM2MAudioVolumeReq, 953
Generator, 954
Level, 954
Profile, 954
SetM2MSpkrGainReq, 955
Profile, 955
Value, 955
SetMobileIP
qaGobiApiWds.h, 2164
SetMobileIPParameters
qaGobiApiWds.h, 2165
SetMobileIPProfile
qaGobiApiWds.h, 2166
SetMobileIPStatusCallback
qaGobiApiCbk.h, 1813
SetMuxID
qaGobiApiWds.h, 2167
SetNMEACallback
qaGobiApiCbk.h, 1815
SetNasLTECphyCaIndCallback
qaGobiApiCbk.h, 1814
SetNetChangeCbk
qaGobiApiCbk.h, 1814
SetNetworkPreference
qaGobiApiNas.h, 1961
SetNewSMSCallback
qaGobiApiCbk.h, 1815
SetOMADMStateCallback
qaGobiApiCbk.h, 1815
SetPDSDefaults
qaGobiApiPds.h, 1990
SetPDSState
qaGobiApiPds.h, 1991
SetPDSStateCallback

qaGobiApiCbk.h, 1816
setPINProtection, 955
pinID, 956
pinLength, 956
pinOperation, 956
pinValue, 956
SetPortAutomaticTracking
qaGobiApiPds.h, 1991
SetPower
qaGobiApiDms.h, 1870
SetPowerCallback
qaGobiApiCbk.h, 1816
SetQmapIPTable
qaGobiApiDcs.h, 1847
SetQmapIPv6Table
qaGobiApiDcs.h, 1847
SetQosMuxID
qaGobiApiQos.h, 1999
SetRFInfoCallback
qaGobiApiCbk.h, 1817
SetRMTransferStatisticsCallback
qaGobiApiCbk.h, 1817
SetRankIndicatorCallback
qaGobiApiCbk.h, 1817
SetRegMgrConfigReq, 956
pCSCFPortName, 957
pCSCFPortNameLen, 957
pIMSTestMode, 957
pPriCSCFPort, 957
SetRegMgrConfigResp, 957
pSettingResp, 957
SetRoamingIndicatorCallback
qaGobiApiCbk.h, 1817
SetSDKImagePath
qaGobiApiDcs.h, 1848
SetSIPConfigReq, 962
pSIPLocalPort, 963
pSigCompEnabled, 963
pSubscribeTimer, 963
pTimerSIPReg, 963
pTimerT1, 963
pTimerT2, 963
pTimerTf, 963
SetSIPConfigResp, 963
pSettingResp, 964
SetSLQSOMADMAlertCallback
qaGobiApiCbk.h, 1818
SetSLQSOMADMAlertCallbackExt
qaGobiApiCbk.h, 1819
SetSMSCAddress
qaGobiApiSms.h, 2016
SetSMSWake
qaGobiApiRms.h, 2006
SetServiceAutomaticTracking
qaGobiApiPds.h, 1992
SetSignalStrengthCallback
qaGobiApiCbk.h, 1818
setSignalStrengthInfo, 957
pCDMAECIODelta, 961
pCDMAECIOThresh, 961
pCDMARSSIDelta, 961
pCDMARSSIThresh, 961
pGSMRSSIDelta, 961
pGSMRSSIThresh, 961
pHDRECIODelta, 961
pHDRECIOThresh, 961
pHDRIODelta, 961
pHDRIOThresh, 961
pHDRRSSIDelta, 961
pHDRRSSIThresh, 961
pHDRSINRDelta, 961
pHDRSINRThresh, 961
pLTERSRPDelta, 961
pLTERSRPThresh, 961
pLTERSRQDelta, 961
pLTERSRQThresh, 961
pLTERSSIDelta, 962
pLTERSSIThresh, 962
pLTESNRDelta, 962
pLTESNRThresh, 962
pLTESigRptConfig, 962
pTDSCDMAECIODelta, 962
pTDSCDMAECIOThresh, 962
pTDSCDMARSCPDelta, 962
pTDSCDMARSCPThresh, 962
pTDSCDMARSSIDelta, 962
pTDSCDMARSSIThresh, 962
pTDSCDMASINRDelta, 962
pTDSCDMASINRThresh, 962
pWCDMAECIODelta, 962
pWCDMAECIOThresh, 962
pWCDMARSSIDelta, 962
pWCDMARSSIThresh, 962
SetUSSDNoWaitIndicationCallback
qaGobiApiCbk.h, 1820
SetUSSDNotificationCallback
qaGobiApiCbk.h, 1820
SetUSSDReleaseCallback
qaGobiApiCbk.h, 1820
SetUimSlotStatusChangeCallback
qaGobiApiCbk.h, 1819
SetXTRAAutomaticDownload
qaGobiApiPds.h, 1992
SetXTRANetwork
qaGobiApiPds.h, 1993
SetupEventList
CatEventListTlv, 170
Severity
unpack_swioma_SLQSOMADMGetSessionInfo_t, 1333
severity
omaDmFotaTlv, 652
unpack_omaDmFotaTlv_t, 1278
Short Message Service (SMS), 46
shortName
nas_PLMNNetworkNameData, 543

nasPLMNNameResp, 622
PLMNNetworkNameData, 831
unpack_nas_SLQSGetPLMNName_t, 1238
shortNameCI
nasPLMNNameResp, 622
unpack_nas_SLQSGetPLMNName_t, 1238
shortNameEn
nasPLMNNameResp, 622
unpack_nas_SLQSGetPLMNName_t, 1239
shortNameLen
nas_PLMNNetworkNameData, 543
nasPLMNNameResp, 622
PLMNNetworkNameData, 831
unpack_nas_SLQSGetPLMNName_t, 1239
shortNameSB
nasPLMNNameResp, 622
unpack_nas_SLQSGetPLMNName_t, 1239
shortNameSpareBits
nas_PLMNNetworkNameData, 543
PLMNNetworkNameData, 832
sid
CDMAInfo, 174
nas_CDMAInfo, 463
nas_sidNid, 567
sidNid, 965
unpack_nas_GetHomeNetwork_t, 1223
SidNid
homeSIDNID, 332
nas_homeSIDNID, 497
sidNid, 964
nid, 965
sid, 965
SigInd
LibPackUMTSReqQoSSigInd, 389
UMTSReqQoSSigInd, 1129
sigInfo, 965
nas_SccRxInfo, 565
pECIOThresh, 966
pHDRSINRThresh, 966
pIOThresh, 966
pLTESNRThresh, 966
pLTESigRptCfg, 966
pRSRPThresh, 966
pRSRQThresh, 966
pRSSIThresh, 966
pTDSCDMASINRCONFThresh, 966
SccRxInfo, 929
signal
signalInfo, 967
voice_signalInfo, 1480
signalInfo, 966
alertPitch, 967
signal, 967
signalType, 967
signalStrength
nas_SignalStrengthTlv, 568
SignalStrengthDataType, 967
thresholds, 967
thresholdsSize, 967
signalStrengthReqMask
slqsSignalStrengthInfo, 982
unpack_nas_SLQSGetSignalStrength_t, 1245
signalType
signalInfo, 967
voice_signalInfo, 1480
SimCapability
unpack_dms_GetDeviceCap_t, 1139
simCapability
unpack_dms_GetDeviceCapabilities_t, 1140
sinr
HDRSSInfo, 328
hdrSSInfo, 329
nas_SLQSSignalStrengthsInformation, 571
slqsSignalStrengthInfo, 983
SLQSSignalStrengthsInformation, 986
TDSCDMASigInfoExt, 1056
tdscdmaSigInfoExt, 1055
unpack_nas_SLQSGetSignalStrength_t, 1245
sinrDelta
nas_SLQSSignalStrengthsIndReq, 570
SLQSSignalStrengthsIndReq, 984
sinrThresholdList
nas_SLQSSignalStrengthsIndReq, 570
SLQSSignalStrengthsIndReq, 984
sinrThresholdListLen
nas_SLQSSignalStrengthsIndReq, 570
SLQSSignalStrengthsIndReq, 984
sku_str
slqsfwinfo_s, 974
unpack_dms_GetFirmwareInfo_t, 1144
slot
pack_uim_SLQSUIMPowerDown_t, 763
pack_uim_SLQSUIMPowerUp_t, 764
UIMPowerDownReq, 1107
UIMPowerUpReq, 1107
slot_t, 967
bICCID, 968
bICCIDLength, 968
bLogicalSlot, 968
uPhyCardStatus, 968
uPhySlotStatus, 968
slotInf, 968
AppStatus, 969
cardState, 969
errorState, 969
numApp, 969
upinRetries, 969
upinState, 970
upukRetries, 970
SlotInfo
cardStatus, 166
uim_cardStatus, 1080
slotInfo, 970
AppStatus, 971
cardState, 971
errorState, 971

numApp, 971
upinRetries, 971
upinState, 971
upukRetries, 971
slots_t, 971
uimSlotStatus, 972
slotsstatusChange
UIMSlotStatusChangeInfo, 1117
unpack_uim_SetUimSlotStatusChangeCallback_-ind_t, 1340
slqs3GPPConfigItem
qaGobiApiWds.h, 2144
SlqsNas3GppNetworkInfo, 974
Description, 975
Forbidden, 975
InUse, 975
MCC, 975
MNC, 975
Preferred, 975
Roaming, 976
SlqsNas3GppNetworkRAT
qaGobiApiNas.h, 1936
SlqsNasPcsDigit, 976
includes_pcs_digit, 976
MCC, 976
MNC, 976
slqsNetworkScanInfo
qaGobiApiNas.h, 1936
SlqsProfile3GPP
unpackWdsProfileParam, 1426
wds_profileInfo, 1562
WdsProfileParam, 1580
SlqsProfile3GPP2
unpackWdsProfileParam, 1426
wds_profileInfo, 1562
WdsProfileParam, 1581
slqsSessionStateInfo, 980
pQmiInterfaceInfo, 980
reconfiguration_required, 980
sessionEndReason, 980
state, 980
slqsSignalStrengthInfo, 980
ecioList, 982
ecioListLen, 982
errorRateList, 982
errorRateListLen, 982
Io, 982
ltersrp, 982
ltesnr, 982
rsrqInfo, 982
rxSignalStrengthList, 982
rxSignalStrengthListLen, 982
signalStrengthReqMask, 982
sinr, 983
slqsWdsEventInfo, 986
pDataBearer, 987
pDormancyStatus, 987
pPacketsCountRX, 987
pPacketsCountTX, 987
pQmiInterfaceInfo, 987
pTotalBytesRX, 988
pTotalBytesTX, 988
slqsautoconnect, 972
acroamsetting, 972
acsetting, 972
action, 972
slqsfwinfo_s, 973
appversion_str, 974
bootversion_str, 974
carrier_str, 974
cur_carr_name, 974
cur_carr_rev, 974
modelid_str, 974
packageid_str, 974
priversion_str, 974
sku_str, 974
slqssendasyncsmsparams_s, 976
messageFormat, 978
messageSize, 978
pFollowOnDC, 978
pForceOnDC, 978
pLinktimer, 978
pMessage, 978
pRetryMessage, 978
pRetryMessageId, 978
pServiceOption, 978
pSmsOnIms, 978
pUserData, 978
slqssendsmsparams_s, 978
messageFailureCode, 979
messageFormat, 979
messageID, 979
messageSize, 979
pLinktimer, 979
pMessage, 979
pSmsOnIms, 979
sms.h
LITEQMI_QMI_CBK_PARAM_NOCHANGE, 2209
LITEQMI_QMI_CBK_PARAM_RESET, 2209
LITEQMI_QMI_CBK_PARAM_SET, 2209
sms.h, 2205
eqmiCbkSetStatus, 2209
MAX_MSE_TWS_MSG, 2209
MAX_SMS_LIST_SIZE, 2209
pack_sms_GetSMSCAddress, 2209
pack_sms_SLQSDeleteSMS, 2211
pack_sms_SLQSGetIndicationRegister, 2211
pack_sms_SLQSGetMessageWaiting, 2212
pack_sms_SLQSGetSMS, 2212
pack_sms_SLQSGetSMSList, 2213
pack_sms_SLQSGetSmsBroadcastConfig, 2212
pack_sms_SLQSGetTransLayerInfo, 2213
pack_sms_SLQSGetTransNWRegInfo, 2214
pack_sms_SLQSModifySMSStatus, 2214
pack_sms_SLQSSendAsyncSMS, 2214
pack_sms_SLQSSetIndicationRegister, 2215

pack_sms_SLQSSetSmsBroadcastActivation, 2215
pack_sms_SLQSSetSmsBroadcastConfig, 2215
pack_sms_SLQSSetSmsStorage, 2216
pack_sms_SLQSSmsGetMaxStorageSize, 2216
pack_sms_SLQSSmsGetMessageProtocol, 2216
pack_sms_SLQSSmsSetRoutes, 2217
pack_sms_SLQSSwiGetSMSStorage, 2217
pack_sms_SaveSMS, 2210
pack_sms_SendSMS, 2210
pack_sms_SetNewSMSCallback, 2210
pack_sms_SetSMSCAddress, 2211
SMS_CONFIG_LEN, 2209
SMS_MAX_SMS_ROUTES, 2209
SMS_NUM_OF_SET, 2209
SMSC_TYPE_LEN, 2209
unpack_sms_GetSMSCAddress, 2218
unpack_sms_SLQSDeleteSMS, 2220
unpack_sms_SLQSGetIndicationRegister, 2220
unpack_sms_SLQSGetMessageWaiting, 2220
unpack_sms_SLQSGetSMS, 2221
unpack_sms_SLQSGetSMSList, 2221
unpack_sms_SLQSGetSmsBroadcastConfig, 2221
unpack_sms_SLQSGetTransLayerInfo, 2222
unpack_sms_SLQSGetTransNWRegInfo, 2222
unpack_sms_SLQSModifySMSStatus, 2222
unpack_sms_SLQSNWRegInfoCallback_ind, 2223
unpack_sms_SLQSSendAsyncSMS, 2223
unpack_sms_SLQSSetIndicationRegister, 2223
unpack_sms_SLQSSetSmsBroadcastActivation, 2224
unpack_sms_SLQSSetSmsBroadcastConfig, 2224
unpack_sms_SLQSSetSmsStorage, 2224
unpack_sms_SLQSSmsGetMaxStorageSize, 2225
unpack_sms_SLQSSmsGetMessageProtocol, 2225
unpack_sms_SLQSSmsSetRoutes, 2225
unpack_sms_SLQSSwiGetSMSStorage, 2226
unpack_sms_SLQSTransLayerInfoCallback_ind, 2226
unpack_sms_SLQSWmsAsyncRawSendCallBack-_ind, 2226
unpack_sms_SLQSWmsMemoryFullCallBack_ind, 2227
unpack_sms_SLQSWmsMessageWaitingCall-Back_ind, 2227
unpack_sms_SaveSMS, 2218
unpack_sms_SendSMS, 2218
unpack_sms_SetNewSMSCallback, 2219
unpack_sms_SetNewSMSCallback_ind, 2219
unpack_sms_SetSMSCAddress, 2219
sms_BroadcastConfig, 988
fromServiceId, 988
selected, 988
toServiceId, 988
sms_CDMABroadcastConfig, 988
language, 989
selected, 989
serviceCategory, 989
sms_getIndicationReg, 989
pRegCallStatInfoEvt, 990
pRegTransLayerInfoEvt, 990
pRegTransNWRegInfoEvt, 990
sms_getMsgWaitingInfo, 990
msgWaitInfo, 990
numInstances, 990
sms_getTransLayerInfo, 990
pRegInd, 991
pTransLayerInfo, 991
sms_getTransNWRegInfo, 991
pRegStatus, 992
sms_maxStorageSizeReq, 992
pMessageMode, 992
storageType, 992
sms_maxStorageSizeResp, 992
freeSlots, 993
maxStorageSize, 993
sms_messageWaitingInfoContent, 993
activeInd, 993
msgCount, 993
msgType, 993
sms_msgProtocolResp, 994
msgProtocol, 994
sms_qaQmi3GPP2BroadcastCfgInfo, 994
activated_ind, 995
CDMABroadcastConfig, 995
num_instances, 995
sms_qaQmi3GPPBroadcastCfgInfo, 995
activated_ind, 995
broadcastConfig, 995
num_instances, 995
sms_routeEntry, 995
messageClass, 996
messageType, 996
receiptAction, 996
routeStorage, 996
sms_sendAsyncsmsParams, 996
messageFormat, 998
messageSize, 998
pFollowOnDC, 998
pForceOnDC, 998
pLinktimer, 998
pMessage, 998
pRetryMessage, 998
pRetryMessageId, 998
pServiceOption, 998
pSmsOnIms, 998
pUserData, 998
sms_setIndicationReg, 999
pRegCallStatInfoEvt, 999
pRegTransLayerInfoEvt, 999
pRegTransNWRegInfoEvt, 999
sms_setRoutesReq, 999
numOfRoutes, 1000
pTransferStatusReport, 1000

routeList, 1000
sms_transLayerInfo, 1000
TransCap, 1000
TransType, 1001
smsEventType
SMSEventInfo_s, 1008
smsMaxStorageSizeReq, 1008
pMessageMode, 1008
storageType, 1009
smsMaxStorageSizeResp, 1009
freeSlots, 1009
maxStorageSize, 1009
smsMsgprotocolResp, 1010
msgProtocol, 1011
smsOnIMS
SMSOnIMS, 1012
sMSOnIMSInfo, 1013
smsRouteEntry, 1013
messageClass, 1014
messageType, 1014
receiptAction, 1014
routeStorage, 1014
smsSetRoutesReq, 1014
numOfRoutes, 1015
pTransferStatusReport, 1015
routeList, 1015
smsStorage
pack_sms_SLQSSetSmsStorage_t, 750
snr
loc_satelliteInfo, 404
LTESSInfo, 443
lteSSInfo, 443
nas_SccRxInfo, 565
satelliteInfo, 928
SccRxInfo, 929
snrlevel
lteSnrinformation, 440
nas_lteSnrinformation, 518
soMask
DataBearerTech, 226
dataBearerTechnology, 228
qmiWDSDataBearerTechnology, 889
unpack_wds_SLQSSetWdsEventCallback_ind_t, 1421
Source
unpack_swioma_SLQSOMADMGetSessionInfo_t, 1333
source
_getResetInfoNotification, 70
altitudeSrcInfo, 130
altSrcInfo_t, 131
dmsSwiGetResetInfo, 253
unpack_dms_GetNetworkTime_t, 1149
unpack_dms_SLQSDmsSwiGetResetInfo_Ind_t, 1164
unpack_dms_SLQSDmsSwiGetResetInfo_t, 1165
sourceIPMask
LibPackTFTIDParams, 386
TFTIDParams, 1061
SourceLength
unpack_swioma_SLQSOMADMGetSessionInfo_t, 1333
spc
pack_dms_ResetToFactoryDefaults_t, 658
pack_nas_SetACCOLC_t, 693
pack_wds_SetMobileIPProfile_t, 798
Specific Absorption Rate (SAR), 52
spn
nas_serviceProviderName, 565
nasPLMNNameResp, 622
serviceProviderName, 935
unpack_nas_SLQSGetPLMNName_t, 1239
spnEncoding
nasPLMNNameResp, 622
unpack_nas_SLQSGetPLMNName_t, 1239
spnLength
nas_serviceProviderName, 565
nasPLMNNameResp, 623
serviceProviderName, 935
unpack_nas_SLQSGetPLMNName_t, 1239
srcPortRangeEnd
LibPackTFTIDParams, 386
TFTIDParams, 1061
srcPortRangeStart
LibPackTFTIDParams, 386
TFTIDParams, 1061
srvCapability
detailSvcInfo, 235
nas_detailSvcInfo, 478
nas_sysInfoCommon, 574
sysInfoCommon, 1048
srvCapabilityValid
nas_sysInfoCommon, 575
sysInfoCommon, 1048
srvDomain
nas_sysInfoCommon, 575
sysInfoCommon, 1048
SrvDomainPref
nas_SrvDomainPrefTlv, 572
NASServDomainPrefTlv, 626
srvDomainValid
nas_sysInfoCommon, 575
sysInfoCommon, 1048
srvOption
arrSvcOption, 144
voice_arrSvcOption, 1445
srvStatus
detailSvcInfo, 236
GSMSrvStatusInfo, 318
nas_detailSvcInfo, 478
nas_GSMSrvStatusInfo, 488
nas_SrvStatusInfo, 573
SrvStatusInfo, 1019
SrvStatusInfo, 1019
isPrefDataPath, 1019
srvStatus, 1019

srxlev
cellParams, 189
gsmCellInfo, 316
nas_cellParams, 468
nas_gsmCellInfo, 486
nas_umtsLTENbrCell, 584
nas_wcdmaCellInfo, 586
umtsLTENbrCell, 1123
wcdmaCellInfo, 1535
ssdatasession_params, 1019
action, 1021
failureReason, 1021
failureReasonv4, 1022
failureReasonv6, 1022
instanceId, 1022
ipfamily, 1022
pAuthentication, 1022
pPassword, 1022
pProfileId3GPP, 1022
pProfileId3GPP2, 1022
pTechnology, 1022
pUsername, 1022
rcv4, 1022
rcv6, 1022
sessionId, 1022
v4sessionId, 1022
v6sessionId, 1022
verbFailReason, 1022
verbFailReasonType, 1022
stage
uim_refreshevent, 1091
UIMRefreshEvent, 1111
StartPDSTrackingSessionExt
qaGobiApiPds.h, 1997
State
nas_NetworkStat1x, 528
nas_NetworkStatEVDO, 530
NetworkStat1x, 640
NetworkStatEVDO, 642
state
LocSetCradleMountReq, 419
omaDmConfigTlv, 648
omaDmConfigTlvExt, 650
omaDmFotaTlv, 652
omaDmFotaTlvExt, 654
pack_loc_SLQSLOCSetCradleMountConfig_t, 689
QosFlowInfoState, 899
QosMap, 900
slqsSessionStateInfo, 980
unpack_dms_GetActivationState_t, 1132
unpack_dms_SLQSUIMGetState_t, 1179
unpack_omaDmConfigTlv_t, 1276
unpack_omaDmFotaTlv_t, 1278
unpack_qos_QosFlowInfoState_t, 1296
statmask
pack_wds_GetPacketStatus_t, 791
StatsMask
TransferStatInd, 1068
wds_transferStatInd, 1563
statsMask
TrStatInd, 1069
wds_TrStatInd, 1563
StatsPeriod
TransferStatInd, 1068
wds_transferStatInd, 1563
statsPeriod
TrStatInd, 1069
wds_TrStatInd, 1563
Status
unpack_swioma_SLQSOMADMGetSessionInfo_t, 1333
status
delAssistDataStatus, 233
lteEARFCN, 423
ltePCI, 436
nas_lteEARFCN, 501
nas_ltePCI, 514
nas_wcdmaUARFCN, 592
pack_sms_SetNewSMSCallback_t, 744
QmiCbkLocBestAvailPosInd, 866
QmiCbkLocInjectPositionInd, 870
QmiCbkLocInjectUTCTimeInd, 873
QmiCbkLocSetExtPowerConfigInd, 881
unpack_loc_BestAvailPos_Ind_t, 1194
unpack_loc_DeleteAssistData_Ind_t, 1196
unpack_loc_InjectPositionCallback_Ind_t, 1202
unpack_loc_InjectUTCTimeCallback_Ind_t, 1205
unpack_loc_SetExtPowerConfig_Ind_t, 1213
unpack_loc_SetOperationMode_Ind_t, 1215
unpack_qos_SLQSSetQosNWStatusCallback_ind_t, 1300
unpack_qos_SLQSSetQosStatusCallback_ind_t, 1302
wcdmaUARFCN, 1545
statusChange
UIMStatusChangeInfo, 1117
StopPDSTrackingSession
qaGobiApiPds.h, 1998
storageIndex
FMSImageIdElement, 272
ImageIdElement, 335
storageType
pack_sms_SaveSMS_t, 743
pack_sms_SLQSDeleteSMS_t, 745
pack_sms_SLQSGetSMS_t, 746
pack_sms_SLQSGetSMSList_t, 747
pack_sms_SLQSModifySMSStatus_t, 748
sms_maxStorageSizeReq, 992
smsMaxStorageSizeReq, 1009
SMSMemoryInfo, 1010
SMSMTMessage, 1011
sMSMTMessageInfo, 1012
unpack_sms_SLQSWmsMemoryFullCallBack_ind_t, 1326
String
unpack_dms_GetDeviceHardwareRev_t, 1140

unpack_dms_GetDeviceMfr_t, 1141
unpack_dms_GetFSN_t, 1147
unpack_dms_UIMGetICCID_t, 1182
stringSize
unpack_dms_GetDeviceHardwareRev_t, 1140
unpack_dms_GetDeviceMfr_t, 1141
unpack_dms_UIMGetICCID_t, 1182
subAddr
calledPartySubAdd, 156
voice_calledPartySubAdd, 1448
subAddrLen
calledPartySubAdd, 156
voice_calledPartySubAdd, 1448
subAddrType
calledPartySubAdd, 156
voice_calledPartySubAdd, 1448
subnetMask
IPv4Addr, 354
unpack_qos_IPv4Addr_t, 1292
SubnetMaskV4
unpack_wds_SLQSGetRuntimeSettings_t, 1416
subsType
pack_voice_SLQSVoiceBindSubscription_t, 772
voiceBindSubscriptionInfo, 1485
SupUSBComps
unpack_dms_GetUSBComp_t, 1155
SuppOA
CUGInfo, 210
voice_CUGInfo, 1463
SuppPrefCUG
CUGInfo, 210
voice_CUGInfo, 1463
supportedMsgLen
SupportedMsgList, 1023
SupportedMsgList, 1022
supportedMsgLen, 1023
supportedMsgs, 1023
supportedMsgs
SupportedMsgList, 1023
svInfoMask
loc_satelliteInfo, 404
satelliteInfo, 928
svListLen
loc_satelliteInfo, 404
satelliteInfo, 928
svStatus
loc_satelliteInfo, 404
satelliteInfo, 928
svUsedforFix
qaGobiApiCbk.h, 1776
svUsedforFix_s, 1025
gnssSvUsedList, 1025
gnssSvUsedList_len, 1025
svc
pack_qmi_t, 739
SvcClass
callFWExtInfo, 160
callFWInfo, 161
voice_callFWExtInfo, 1452
voice_callFWInfo, 1453
SvcStatus
callFWExtInfo, 160
callFWInfo, 161
voice_callFWExtInfo, 1452
voice_callFWInfo, 1453
svcType
ccSUPSType, 171
SUPSInfo, 1023
voice_ccSUPSType, 1457
voice_SUPSInfo, 1481
sw1
cardResult, 165
uim_cardResult, 1079
sw2
cardResult, 165
uim_cardResult, 1079
swVerString
pack_dms_SLQSSwiSetHostDevInfo_t, 668
unpack_dms_SLQSSwiGetHostDevInfo_t, 1177
SwiAvmsEventInd
qaGobiApiCbk.h, 1776
SwiDataTypes.h, 2227
BOOL, 2228
BYTE, 2228
CHAR, 2228
FLOAT, 2228
INT32, 2228
INT8, 2228
LPCSTR, 2228
SHORT, 2228
SWI_API, 2228
ULONG, 2229
ULONGLONG, 2229
UNUSEDPARAM, 2228
USHORT, 2229
WORD, 2229
SwiDmsGetMTUResp, 1029
pEhrpdMTUSize, 1029
pHrpdMTUSize, 1029
pMTUSize3gpp, 1029
pUsbMTUSize, 1029
SwiDmsSLQSGetUsbNetNum, 1029
usbNetNum, 1030
SwiLocGetAutoStart
qaGobiApiLoc.h, 1929
SwiLocGetAutoStartResp, 1030
fix_rate, 1031
fix_rate_reported, 1031
fix_type, 1031
fix_type_reported, 1031
function, 1031
function_reported, 1031
max_dist, 1031
max_dist_reported, 1031
max_time, 1031
max_time_reported, 1031

SwiLocSetAutoStart
qaGobiApiLoc.h, 1929
SwiLocSetAutoStartReq, 1031
fix_rate, 1033
fix_type, 1033
function, 1033
max_dist, 1033
max_time, 1033
set_fix_rate, 1033
set_fix_type, 1033
set_function, 1033
set_max_dist, 1033
set_max_time, 1033
swiModemStatusResp, 1033
commonInfo, 1034
pLTEInfo, 1034
SwiOTAMsg
qaGobiApiCbk.h, 1776
SwiOTAMsg_s, 1034
data, 1034
data_len, 1034
pLteNasRelInfo, 1034
pTime, 1034
type, 1035
swiPDPRuntimeSettingsReq, 1035
contextId, 1035
contextType, 1035
swiPDPRuntimeSettingsResp, 1035
pAPNName, 1037
pBearerId, 1037
pContextId, 1037
pIPv4Address, 1037
pIPv4GWAddress, 1037
pIPv6Address, 1037
pIPv6GWAddress, 1037
pPrDNSIPv4Address, 1037
pPrDNSIPv6Address, 1037
pPrPCSCFIPv4Address, 1037
pPrPCSCFIPv6Address, 1037
pSeDNSIPv4Address, 1037
pSeDNSIPv6Address, 1037
pSePCSCFIPv4Address, 1037
pSePCSCFIPv6Address, 1037
swiQosFilter, 1037
index, 1039
pEspSpi, 1039
pIPv4DstAddr, 1039
pIPv4SrcAddr, 1039
pIPv6DstAddr, 1039
pIPv6Label, 1039
pIPv6SrcAddr, 1039
pIPv6TrafCls, 1039
pId, 1039
pNxtHdrProto, 1039
pPrecedence, 1040
pTCPDstPort, 1040
pTCPSrcPort, 1040
pTos, 1040
pTranDstPort, 1040
pTranSrcPort, 1040
pUDPDstPort, 1040
pUDPSrcPort, 1040
version, 1040
swiQosFlow, 1040
index, 1042
p3GPP2Pri, 1042
p3GPPImCn, 1042
p3GPPResResidualBER, 1043
p3GPPSigInd, 1043
p3GPPTraHdlPri, 1043
pDataRate, 1043
pJitter, 1043
pLatency, 1043
pLteQci, 1043
pMaxAllowedPktSz, 1043
pMinPolicedPktSz, 1043
pPktErrRate, 1043
pProfileId3GPP2, 1043
pTokenBucket, 1043
pTrafficClass, 1043
swiQosGranted, 1043
pRxFlow, 1043
pTxFlow, 1043
swiQosIds, 1043
pIds, 1044
sz, 1044
swiQosModifyReq, 1044
id, 1044
pRxFilter, 1044
pRxFlow, 1044
pTxFilter, 1044
pTxFlow, 1045
swiQosReq, 1045
index, 1045
pRxFilter, 1045
pRxFlow, 1045
pTxFilter, 1045
pTxFlow, 1045
swiRMTrasnferStaticsReq, 1045
bResetStatistics, 1046
ulMask, 1046
swidms.h, 2229
pack_swidms_SLQSSwiDmsGetMTU, 2229
pack_swidms_SLQSSwiDmsGetUsbNetNum, 2230
pack_swidms_SLQSSwiDmsSetMTU, 2230
pack_swidms_SLQSSwiDmsSetUsbNetNum, 2230
unpack_swidms_SLQSSwiDmsGetMTU, 2231
unpack_swidms_SLQSSwiDmsGetUsbNetNum, 2231
unpack_swidms_SLQSSwiDmsSetMTU, 2231
unpack_swidms_SLQSSwiDmsSetUsbNetNum, 2232
swidms_ehrpdMTUSizeTlv, 1027
ehrpdMTUSize, 1027

TlvPresent, 1027
swidms_hrpdMTUSizeTlv, 1027
hrpdMTUSize, 1027
TlvPresent, 1028
swidms_mtuSize3gppTlv, 1028
MTUSize3gpp, 1028
TlvPresent, 1028
swidms_usbMTUSizeTlv, 1028
TlvPresent, 1028
UsbMTUSize, 1029
swiloc.h, 2232
pack_swiloc_SwiLocGetAutoStart, 2233
pack_swiloc_SwiLocSetAutoStart, 2233
unpack_swiloc_SwiLocGetAutoStart, 2233
unpack_swiloc_SwiLocSetAutoStart, 2234
unpack_swiloc_SwiLocSetAutoStart_t, 2233
swioma.h, 2234
pack_swioma_SLQSOMADMAlertCallback, 2235
pack_swioma_SLQSOMADMCancelSession, 2236
pack_swioma_SLQSOMADMGetSessionInfo, 2236
pack_swioma_SLQSOMADMGetSettings, 2237
pack_swioma_SLQSOMADMSendSelection, 2237
pack_swioma_SLQSOMADMSetSettings, 2238
pack_swioma_SLQSOMADMStartSession, 2239
unpack_swioma_SLQSOMADMAlertCallback, 2239
unpack_swioma_SLQSOMADMAlertCallback_ind, 2240
unpack_swioma_SLQSOMADMCancelSession, 2240
unpack_swioma_SLQSOMADMGetSessionInfo, 2241
unpack_swioma_SLQSOMADMGetSettings, 2241
unpack_swioma_SLQSOMADMSendSelection, 2242
unpack_swioma_SLQSOMADMSetSettings, 2242
unpack_swioma_SLQSOMADMStartSession, 2242
switchOption
pack_voice_SLQSVoiceALSSetLineSwitching_t, 771
voiceALSSetLineSwitchInfo, 1484
sysInfoCDMA
CDMASysInfo, 187
nas_CDMASysInfo, 467
sysInfoCommon, 1046
isSysForbidden, 1048
isSysForbiddenValid, 1048
roamStatus, 1048
roamStatusValid, 1048
srvCapability, 1048
srvCapabilityValid, 1048
srvDomain, 1048
srvDomainValid, 1048
sysInfoGSM
GSMSysInfo, 321
nas_GSMSysInfo, 491
sysInfoHDR
HDRSysInfo, 331
nas_HDRSysInfo, 497
sysInfoLTE
LTESysInfo, 446
nas_LTESysInfo, 521
sysInfoWCDMA
nas_WCDMASysInfo, 591
WCDMASysInfo, 1544
sysSelectPrefExtInfo
qaGobiApiNas.h, 1937
sysSelectPrefInfo
qaGobiApiNas.h, 1938
sysSelectPrefParams
qaGobiApiNas.h, 1942
sysSelectPrefParamsExt, 1049
pCiotAcqOrderPref, 1052
pCiotLteOpMode, 1052
pCiotLteOpModePref, 1052
pLteM1BandPref, 1052
pLteNb1BandPref, 1052
pNr5gBandPref, 1052
pSysSelectPrefParams, 1052
system
loc_satelliteInfo, 404
loc_SV, 406
satelliteInfo, 928
SV, 1024
systemDiscontinuities
pack_pds_PDSInjectTimeReference_t, 727
SystemID
qaQmiServingSystemParam, 860
unpack_nas_SLQSGetServingSystem_t, 1243
systemID
CDMASysInfo, 187
nas_CDMASysInfo, 467
systemMode
CommInfo, 200
nas_CommInfo, 472
systemTime
pack_pds_PDSInjectTimeReference_t, 728
sz
swiQosIds, 1044
szAPN
_QmiSwiAvmsSetSettingsAPNInfo, 84
szAlertMsg
_QmiSwiAvmsEventReportConfigResp, 78
szDescription
_QmiSwiAvmsEventReportBinaryUpdateSession-InfoResp, 77
szName
_QmiSwiAvmsEventReportBinaryUpdateSession-InfoResp, 77
szPWD
_QmiSwiAvmsSetSettingsAPNInfo, 84
szUname
_QmiSwiAvmsSetSettingsAPNInfo, 84
szVersion

_QmiSwiAvmsEventReportBinaryUpdateSession-InfoResp, 77

t3396_apn
nasTimers, 636
unpack_nas_SLQSNasTimerCallback_ind_t, 1266
t3396_plmn_id
nasTimers, 636
unpack_nas_SLQSNasTimerCallback_ind_t, 1266
t3396_val
nasTimers, 636
unpack_nas_SLQSNasTimerCallback_ind_t, 1266
t_Sv, 1053
entries, 1053
len, 1053
t_gpsTime, 1052
gpsTimeOfWeekMs, 1052
gpsWeek, 1052
t_sensor, 1052
aidingIndicatorMask, 1053
usageMask, 1053
TCPDstPort
unpack_qos_swiQosFilter_t, 1305
TCPSrcPort
unpack_qos_swiQosFilter_t, 1305
TDSCDMAECIOThresh, 1053
TDSCDMAECIOThreshListLen
nas_TDSCDMAECIOThresh, 575
TDSCDMAECIOThresh, 1053
TDSCDMARSCPThresh, 1054
TDSCDMARSCPThreshListLen
nas_TDSCDMARSCPThresh, 576
TDSCDMARSCPThresh, 1054
TDSCDMARSSIThresh, 1054
TDSCDMARSSIThreshListLen
nas_TDSCDMARSSIThresh, 576
TDSCDMARSSIThresh, 1054
TDSCDMASINRCONFThresh, 1056
TDSCDMASINRThresh, 1057
TDSCDMASINRThreshListLen
nas_TDSCDMASINRThresh, 577
TDSCDMASINRThresh, 1057
TDSCDMASigInfoExt, 1055
ecio, 1056
rscp, 1056
rssi, 1056
sinr, 1056
tFNASwiLTECphyCallInfo
qaGobiApiCbk.h, 1777
tFNASwiOTAMsg
qaGobiApiCbk.h, 1778
tFNActivationStatus
qaGobiApiCbk.h, 1777
tFNAllCallStatus
qaGobiApiCbk.h, 1777
tFNAsyncRawSend
qaGobiApiCbk.h, 1778
tFNBandPreference
qaGobiApiCbk.h, 1778
tFNBestAvailPos
qaGobiApiCbk.h, 1779
tFNCATEvent
qaGobiApiCbk.h, 1780
tFNCbkUimSlotStatusChangeInd
qaGobiApiCbk.h, 1780
tFNDHCPv4ClientLeaseStatus
qaGobiApiCbk.h, 1782
tFNDTMFEvent
qaGobiApiCbk.h, 1782
tFNDUNCallInfo
qaGobiApiCbk.h, 1782
tFNDataCapabilities
qaGobiApiCbk.h, 1780
tFNDataSysStatus
qaGobiApiCbk.h, 1781
tFNDelAssistData
qaGobiApiCbk.h, 1781
tFNDeviceStateChange
qaGobiApiCbk.h, 1781
tFNEventNmea
qaGobiApiCbk.h, 1782
tFNEventPosition
qaGobiApiCbk.h, 1782
tFNFwDldCompletion
qaGobiApiCbk.h, 1783
tFNGetServer
qaGobiApiCbk.h, 1783
tFNGnssSvInfo
qaGobiApiCbk.h, 1783
tFNHDRPersonaity
qaGobiApiCbk.h, 1783
tFNImsRegMgrConfig
qaGobiApiCbk.h, 1784
tFNImsSIPConfig
qaGobiApiCbk.h, 1785
tFNImsSMSConfig
qaGobiApiCbk.h, 1785
tFNImsUserConfig
qaGobiApiCbk.h, 1785
tFNImsVoIPConfig
qaGobiApiCbk.h, 1785
tFNImsaPdpStatus
qaGobiApiCbk.h, 1784
tFNImsaRatStatus
qaGobiApiCbk.h, 1784
tFNImsaRegStatus
qaGobiApiCbk.h, 1784
tFNImsaSvcStatus
qaGobiApiCbk.h, 1784
tFNInfoRec
qaGobiApiCbk.h, 1785
tFNInjectPosition
qaGobiApiCbk.h, 1786
tFNInjectSensorData
qaGobiApiCbk.h, 1786
tFNInjectTimeStatus
qaGobiApiCbk.h, 1786

tFNInjectUTCTime
qaGobiApiCbk.h, 1786
tFNLUReject
qaGobiApiCbk.h, 1787
tFNMemoryFull
qaGobiApiCbk.h, 1789
tFNMessageWaiting
qaGobiApiCbk.h, 1789
tFNMitiLvlRpt
qaGobiApiCbk.h, 1789
tFNMobileIPStatus
qaGobiApiCbk.h, 1789
tFNModemTempInfo
qaGobiApiCbk.h, 1789
tFNNasTimer
qaGobiApiCbk.h, 1790
tFNNet
qaGobiApiCbk.h, 1790
tFNNetworkReject
qaGobiApiCbk.h, 1790
tFNNetworkTime
qaGobiApiCbk.h, 1790
tFNNewGPS
qaGobiApiCbk.h, 1791
tFNNewNMEA
qaGobiApiCbk.h, 1791
tFNNewRMTransferStatistics
qaGobiApiCbk.h, 1791
tFNNewSMS
qaGobiApiCbk.h, 1792
tFNOMADMState
qaGobiApiCbk.h, 1792
tFNOTASPStatus
qaGobiApiCbk.h, 1793
tFNOpMode
qaGobiApiCbk.h, 1793
tFNPDSState
qaGobiApiCbk.h, 1794
tFNPSMCfgParamChange
qaGobiApiCbk.h, 1795
tFNPacketSrvState
qaGobiApiCbk.h, 1794
tFNPower
qaGobiApiCbk.h, 1794
tFNPrivacyChange
qaGobiApiCbk.h, 1794
tFNQosNWStatus
qaGobiApiCbk.h, 1795
tFNQosPriEvent
qaGobiApiCbk.h, 1795
tFNQosStatus
qaGobiApiCbk.h, 1795
tFNRFInfo
qaGobiApiCbk.h, 1797
tFNRankIndicator
qaGobiApiCbk.h, 1796
tFNResetInfo
qaGobiApiCbk.h, 1796
tFNRoamingIndicator
qaGobiApiCbk.h, 1797
tFNSDKTerminated
qaGobiApiCbk.h, 1797
tFNSLQSOMADMAlert
qaGobiApiCbk.h, 1799
tFNSLQSQOSEvent
qaGobiApiCbk.h, 1800
tFNSLQSSessionState
qaGobiApiCbk.h, 1800
tFNSLQSSignalStrengths
qaGobiApiCbk.h, 1800
tFNSLQSWDSEvent
qaGobiApiCbk.h, 1800
tFNSMSEvents
qaGobiApiCbk.h, 1801
tFNSUPSInfo
qaGobiApiCbk.h, 1801
tFNSUPSNotification
qaGobiApiCbk.h, 1801
tFNSensorStreaming
qaGobiApiCbk.h, 1798
tFNServingSystem
qaGobiApiCbk.h, 1798
tFNSetCradleMount
qaGobiApiCbk.h, 1798
tFNSetEngineState
qaGobiApiCbk.h, 1798
tFNSetEventTimeSync
qaGobiApiCbk.h, 1798
tFNSetExtPowerConfig
qaGobiApiCbk.h, 1799
tFNSetServer
qaGobiApiCbk.h, 1799
tFNSigInfo
qaGobiApiCbk.h, 1799
tFNSignalStrength
qaGobiApiCbk.h, 1799
tFNSwiAvmEventReport
qaGobiApiCbk.h, 1801
tFNSysInfo
qaGobiApiCbk.h, 1801
tFNSysSelectionPref
qaGobiApiCbk.h, 1802
tFNUIMRefresh
qaGobiApiCbk.h, 1802
tFNUIMStatusChangeInfo
qaGobiApiCbk.h, 1802
tFNUSSDNoWaitIndication
qaGobiApiCbk.h, 1803
tFNUSSDNotification
qaGobiApiCbk.h, 1803
tFNUSSDRelease
qaGobiApiCbk.h, 1803
tFNtransLayerInfo
qaGobiApiCbk.h, 1802
tFNtransNWRegInfo
qaGobiApiCbk.h, 1802

TFTIDParams, 1059
destPortRangeEnd, 1061
destPortRangeStart, 1061
eValid, 1061
filterId, 1061
flowLabel, 1061
IPSECSPI, 1061
ipVersion, 1061
nextHeader, 1061
pSourceIP, 1061
sourceIPMask, 1061
srcPortRangeEnd, 1061
srcPortRangeStart, 1061
tosMask, 1061
THIRD_INSTANCE
qaGobiApiCbk.h, 1766
TIME_DATE_BUF
qaGobiApiSms.h, 2011
TIME_STAMP_BUF
qaGobiApiSms.h, 2011
TPCause
SMSAsyncRawSend_s, 1002
unpack_sms_SLQSWmsAsyncRawSendCallBack-_ind_t, 1326
TRMessageTlv
unpack_sms_SetNewSMSCallback_ind_t, 1317
TX_PWR
nas_NetworkStat1x, 528
NetworkStat1x, 640
TXAGCList, 1070
pTXAIG, 1071
pTXComprSlope, 1071
pTXComprThres, 1071
pTXExpSlope, 1071
pTXExpThres, 1071
pTXStaticGain, 1071
TXBOTlv
unpack_wds_SLQSDUNCallInfoCallBack_ind_t, 1406
TXChan
LTEInfo, 427
nas_LTEInfo, 504
tXDroppedCount
unpack_wds_GetPacketStatus_t, 1402
TXOKBytesCount
DUNCallInfoInd, 257
tXOKBytesLastCall
unpack_wds_GetPacketStatus_t, 1402
tXOkBytesCount
unpack_wds_GetPacketStatus_t, 1402
TXPCMIIRFltr, 1072
pFlag, 1073
pStage0Val, 1073
pStage1Val, 1073
pStage2Val, 1073
pStage3Val, 1073
pStage4Val, 1073
pStageCnt, 1073
tXPacketErrors
unpack_wds_GetPacketStatus_t, 1402
tXPacketOverflows
unpack_wds_GetPacketStatus_t, 1402
tXPacketSuccesses
unpack_wds_GetPacketStatus_t, 1402
Tables, 65
tac
LTEInfoIntrafreq, 429
LTESysInfo, 446
nas_LTEInfoIntrafreq, 507
nas_LTESysInfo, 521
tacValid
LTESysInfo, 446
nas_LTESysInfo, 521
TdsBandCapability
unpack_dms_SLQSGetBandCapability_t, 1169
tdscdmaSigInfoExt, 1055
ecio, 1055
rscp, 1055
rssi, 1055
sinr, 1055
tech
NWProfile, 647
techName
_packetSrvStatus, 74
unpack_wds_SLQSSetPacketSrvStatusCallback_-t, 1419
techType
DataBearerTech, 226
Technology
DeviceConfigDetail, 237
fwinfo_s, 275
nas_DeviceConfigDetail, 479
unpack_wds_SLQSGetRuntimeSettings_t, 1416
TechnologyPref
pack_nas_SetNetworkPreference_t, 695
tempData_t, 1057
temperature, 1058
temperatureDataLen, 1058
timeOfFirstSample, 1058
timeOffset, 1058
timeSource, 1058
TempStat
dms_TemperatureTlv, 246
TempTlv
unpack_dms_SwiEventReportCallBack_ind_t, 1180
Temperature
dms_TemperatureTlv, 246
temperature
CommInfo, 200
nas_CommInfo, 472
tempData_t, 1058
tempratureData, 1059
temperatureDataLen
tempData_t, 1058
tempratureData, 1059

tempratureData, 1058
temperature, 1059
temperatureDataLen, 1059
timeOfFirstSample, 1059
timeOffset, 1059
timeSource, 1059
textMsgLength
cdmaMsgEncodingParams, 182
Thermal Mitigation Device(TMD), 62
threshGsmHigh
lteGsmCellInfo, 424
nas_lteGsmCellInfo, 502
threshGsmLow
lteGsmCellInfo, 425
nas_lteGsmCellInfo, 502
threshServingLow
LTEInfoIntrafreq, 429
nas_LTEInfoIntrafreq, 507
threshXHigh
infoInterFreq, 353
nas_infoInterFreq, 499
threshXLow
infoInterFreq, 353
nas_infoInterFreq, 499
threshXhigh
lteWcdmaCellInfo, 447
nas_lteWcdmaCellInfo, 522
threshXlow
lteWcdmaCellInfo, 447
nas_lteWcdmaCellInfo, 522
thresholds
SignalStrengthDataType, 967
thresholdsSize
SignalStrengthDataType, 967
Time
unpack_swioma_SLQSOMADMGetSessionInfo_t, 1334
wcdmaLongMsgDecodingParams, 1538
wcdmaMsgDecodingParams, 1539
time
NASTimeInfoTlv, 635
Time_uncert_ms
GPSStateInfo, 315
unpack_pds_SLQSGetGPSStateInfo_t, 1290
timeBase
pack_pds_SLQSPDSInjectAbsoluteTimeReference_t, 733
timeInfo, 1061
day, 1063
dayLtSavingAdj, 1063
dayOfWeek, 1063
hour, 1063
minute, 1063
month, 1063
radioInterface, 1063
second, 1063
timeZone, 1063
TlvPresent, 1063
year, 1063
TimeLength
unpack_swioma_SLQSOMADMGetSessionInfo_t, 1334
timeMsec
pack_loc_SLQSLOCInjectUTCTime_t, 688
pack_pds_SLQSPDSInjectAbsoluteTimeReference_t, 733
timeOfFirstSample
sensorData, 931
sensorData_t, 932
tempData_t, 1058
tempratureData, 1059
timeOffset
sensorData, 931
sensorData_t, 932
tempData_t, 1058
tempratureData, 1059
timeSource
tempData_t, 1058
tempratureData, 1059
TimeStmp_gps_week
GPSStateInfo, 315
unpack_pds_SLQSGetGPSStateInfo_t, 1290
TimeStmp_tow_ms
GPSStateInfo, 315
unpack_pds_SLQSGetGPSStateInfo_t, 1290
timeSyncRefCounter
QmiCbkLocEventTimeSyncInd, 868
unpack_loc_EventTimeSyncCallback_Ind_t, 1199
timeTlv
NASQmiCbkNasSwiOTAMessageInd, 624
timeUncMsec
pack_loc_SLQSLOCInjectUTCTime_t, 688
pack_pds_SLQSPDSInjectAbsoluteTimeReference_t, 734
timeZone
nas_timeInfo, 579
timeInfo, 1063
timeout
pack_pds_SetPDSDefaults_t, 730
pack_qmi_t, 739
Timers
_QmiSwiAvmsSetSettingsConnectionRetryTimers, 84
_SLQSAVMSSettingsConnectionRetryTimers, 93
timestamp
unpack_dms_GetNetworkTime_t, 1149
timestampAge
pack_loc_SLQSLOCInjectPosition_t, 686
timestampUtc
pack_loc_SLQSLOCInjectPosition_t, 686
timingAdvance
GERANInfo, 277
nas_GERANInfo, 484
TlvPresent
_QmiSwiAvmsEventReportBinaryUpdateSessionInfoResp, 77

_QmiSwiAvmsEventReportConfigResp, 78
_QmiSwiAvmsEventReportConnectionRequest-Resp, 79
_QmiSwiAvmsEventReportDataSessionStatus-Resp, 79
_QmiSwiAvmsEventReportHTTPStatusResp, 80
_QmiSwiAvmsEventReportNotificationResp, 81
_QmiSwiAvmsEventReportPackageIDResp, 82
_QmiSwiAvmsEventReportRegStatusResp, 82
_QmiSwiAvmsEventReportSessionTypeResp, 83
_QmiSwiAvmsEventReportWAMSParamChange-Resp, 83
AcqOrderPrefTlv, 124
CatCommonEventTlv, 168
CiotAcqOrderPrefTlv, 193
CiotLteOpModePrefTlv, 194
CsgId, 208
DataULongLongTlv, 232
DataULongTlv, 232
dms_ActivationStatusTlv, 240
dms_OperatingModeTlv, 240
dms_PSMActiveTimerIndTlv, 241
dms_PSMActiveTimerTlv, 241
dms_PSMDurationDueToOOSTlv, 242
dms_PSMDurationThresholdTlv, 242
dms_PSMEarlyWakeupTimeTlv, 243
dms_PSMEnableStateIndTlv, 243
dms_PSMEnableStateTlv, 244
dms_PSMPeriodicUpdateTimerIndTlv, 244
dms_PSMPeriodicUpdateTimerTlv, 245
dms_PSMRandomizationWindowTlv, 245
dms_TemperatureTlv, 246
dms_VoltageTlv, 247
ehrpdMTUSizeTlv, 260
eTWSPLMNInfoTlv, 264
hrpdMTUSizeTlv, 333
IPv4Info, 355
IPv6Info, 358
loc_IPv4Info, 399
loc_IPv6Info, 400
loc_urlAddr, 407
LteM1BandPrefTlv, 433
LteNb1BandPrefTlv, 435
LTEOperationMode, 435
messageModeTlv, 447
mtuSize3gppTlv, 452
nas_AcqOrderPrefTlv, 455
nas_BandPrefTlv, 459
nas_CiotAcqOrderPrefTlv, 470
nas_CiotLteOpModePrefTlv, 470
nas_EmerModeTlv, 482
nas_GWAcqOrderPrefTlv, 491
nas_LTEBandPrefTlv, 501
nas_LteM1BandPrefTlv, 511
nas_LteNb1BandPrefTlv, 513
nas_LTEOperationMode, 513
nas_ModePrefTlv, 524
nas_NetSelPrefTlv, 526
nas_NR5gBandPrefTlv, 533
nas_PhyCaAggPcellInfo, 536
nas_PhyCaAggScellDlBw, 536
nas_PhyCaAggScellIndex, 537
nas_PhyCaAggScellIndType, 537
nas_PhyCaAggScellInfo, 540
nas_PRLPrefTlv, 544
nas_RankIndicatorTlv, 549
nas_RatDisabledMaskTlv, 550
nas_RejectReasonTlv, 551
nas_RfBandInfoExtFormat, 552
nas_RfBandwidthInfo, 554
nas_RfDedicatedBandInfo, 555
nas_RFInfoTlv, 557
nas_RoamPrefTlv, 558
nas_SccRxInfo, 565
nas_SignalStrengthTlv, 568
nas_SLQSSignalStrengthsTlv, 571
nas_SrvDomainPrefTlv, 572
nas_timeInfo, 579
NASBandPreferenceTlv, 592
NASEmergencyModeTlv, 594
NASGWAcqOrderPrefTlv, 604
NASLTEBandPreferenceTlv, 609
NASLteNasReleaseInfoTlv, 610
NASModePreferenceTlv, 610
NASNetSelPreferenceTlv, 610
NASOTAMessageTlv, 616
NASPhyCaAggPcellInfo, 617
NASPhyCaAggScellDlBw, 617
NASPhyCaAggScellIndex, 618
NASPhyCaAggScellIndType, 618
NASPhyCaAggScellInfo, 619
NASPRLPreferenceTlv, 623
NASRoamPreferenceTlv, 625
NASServDomainPrefTlv, 626
NASTimeInfoTlv, 635
newMTMessageTlv, 643
NR5gBandPrefTlv, 646
PhyCaAggPcellInfo, 822
PhyCaAggScellDlBw, 823
PhyCaAggScellIndex, 823
PhyCaAggScellIndType, 824
PhyCaAggScellInfo, 827
PlmnID, 829
PSMActiveTimerTlv, 851
PSMDurationDueToOOSTlv, 852
PSMDurationThresholdTlv, 852
PSMEarlyWakeupTimeTlv, 853
PSMEnableStateTlv, 853
PSMPeriodicUpdateTimerTlv, 854
PSMRandomizationWindowTlv, 854
RatDisabledMaskTlv, 901
RfBandInfoExtFormat, 910
RfBandwidthInfo, 912
RfDedicatedBandInfo, 913
RoamingInfo, 915
SccRxInfo, 929

sessionInfoTlv, 939
sessionInfoTlvExt, 940
sMSCAddressTlv, 1004
sMSEtwsMessageTlv, 1006
sMSOnIMSTlv, 1013
swidms_ehrpdMTUSizeTlv, 1027
swidms_hrpdMTUSizeTlv, 1028
swidms_mtuSize3gppTlv, 1028
swidms_usbMTUSizeTlv, 1028
timeInfo, 1063
transferRouteMessageTlv, 1068
unpack_pds_SetPdsState_Ind_t, 1286
unpack_uim_SLQSUIMRefreshCallback_Ind_t, 1344
urlAddr, 1427
usbMTUSizeTlv, 1431
wds_ChannelRateTlv, 1546
wds_ConnStatusTlv, 1546
wds_DataBearTechTlv, 1549
wds_DataULongLongTlv, 1549
wds_DataULongTlv, 1550
wds_DHCPLeaseOptTlv, 1550
wds_DHCPLeaseStateTlv, 1551
wds_DHCPProfileIdTlv, 1552
wds_DormStatTlv, 1556
wds_IPv4AdTlv, 1557
wds_LastMdmCallEndRsnTlv, 1559
wds_RXBytesOKTlv, 1562
wds_TXBytesOKTlv, 1564

tlvPresent
voice_USSDNotificationNetworkInfo, 1482

Tlvresult
pack_dms_GetCustFeaturesV2_t, 658
pack_dms_SetCustFeaturesV2_t, 662
pack_dms_SetPower_t, 664
pack_dms_SetUSBComp_t, 665
pack_dms_UIMGetICCID_t, 671
pack_fms_GetImagesPreference_t, 674
pack_fms_GetStoredImages_t, 675
pack_fms_SetImagesPreference_t, 676
pack_loc_Delete_Assist_Data_t, 677
pack_loc_EventRegister_t, 679
pack_loc_SetExtPowerState_t, 679
pack_loc_SetOperationMode_t, 680
pack_loc_SLQSLOCGetBestAvailPos_t, 680
pack_loc_Start_t, 692
pack_loc_Stop_t, 692
pack_nas_SetNetworkPreference_t, 695
pack_uim_ChangePin_t, 758
pack_uim_ReadTransparent_t, 759
pack_uim_SetPinProtection_t, 760
pack_uim_UnblockPin_t, 767
pack_uim_VerifyPin_t, 769
unpack_dms_GetBandCapability_t, 1134
unpack_dms_GetCrashAction_t, 1134
unpack_dms_GetCustFeature_t, 1137
unpack_dms_GetCustFeaturesV2_t, 1137
unpack_dms_GetDeviceCap_t, 1139
unpack_dms_GetDeviceHardwareRev_t, 1140
unpack_dms_GetDeviceMfr_t, 1141
unpack_dms_GetDeviceSerialNumbers_t, 1143
unpack_dms_GetFirmwareInfo_t, 1144
unpack_dms_GetFirmwareRevision_t, 1145
unpack_dms_GetFirmwareRevisions_t, 1146
unpack_dms_GetFSN_t, 1147
unpack_dms_GetIMSI_t, 1148
unpack_dms_GetManufacturer_t, 1148
unpack_dms_GetModelID_t, 1149
unpack_dms_GetNetworkTime_t, 1149
unpack_dms_GetOfflineReason_t, 1150
unpack_dms_GetPower_t, 1151
unpack_dms_GetPRLVersion_t, 1152
unpack_dms_GetUSBComp_t, 1155
unpack_dms_GetVoiceNumber_t, 1156
unpack_dms_PSMCfgChange_ind_t, 1157
unpack_dms_ResetToFactoryDefaults_t, 1157
unpack_dms_SetActivationStatusCallback_t, 1158
unpack_dms_SetCustFeature_t, 1158
unpack_dms_SetCustFeaturesV2_t, 1159
unpack_dms_SetEventReport_ind_t, 1159
unpack_dms_SetEventReport_t, 1160
unpack_dms_SetFirmwarePreference_t, 1160
unpack_dms_SetIndicationRegister_t, 1161
unpack_dms_SetPower_t, 1161
unpack_dms_SetUSBComp_t, 1161
unpack_dms_SLQSDmsSwiGetResetInfo_Ind_t, 1164
unpack_dms_SLQSDmsSwiGetResetInfo_t, 1165
unpack_dms_SLQSDmsSwiIndicationRegister_t, 1166
unpack_dms_SLQSGetERIFile_t, 1169
unpack_dms_SLQSSetPowerSaveModeConfig_t, 1171
unpack_dms_SLQSSwiClearDyingGaspStatistics-_t, 1171
unpack_dms_SLQSSwiGetCrashInfo_t, 1172
unpack_dms_SLQSSwiGetDyingGaspCfg_t, 1172
unpack_dms_SLQSSwiGetDyingGaspStatistics_t, 1173
unpack_dms_SLQSSwiGetFwUpdateStatus_t, 1176
unpack_dms_SLQSSwiGetHostDevInfo_t, 1177
unpack_dms_SLQSSwiGetOSInfo_t, 1177
unpack_dms_SLQSSwiGetSerialNoExt_t, 1178
unpack_dms_SLQSSwiSetDyingGaspCfg_t, 1178
unpack_dms_SLQSSwiSetHostDevInfo_t, 1179
unpack_dms_SLQSSwiSetOSInfo_t, 1179
unpack_dms_SLQSUIMGetState_t, 1179
unpack_dms_SwiSetEventReport_t, 1180
unpack_dms_UIMGetControlKeyStatus_t, 1181
unpack_dms_UIMGetICCID_t, 1182
unpack_dms_UIMGetPINStatus_t, 1183
unpack_dms_UIMSetControlKeyProtection_t, 1184
unpack_dms_UIMSetPINProtection_t, 1185
unpack_dms_UIMUnblockControlKey_t, 1185
unpack_fms_GetImagesPreference_t, 1186

unpack_fms_GetStoredImages_t, 1187
unpack_fms_SetImagesPreference_t, 1187
unpack_loc_BestAvailPos_Ind_t, 1194
unpack_loc_Delete_Assist_Data_t, 1195
unpack_loc_DeleteAssistData_Ind_t, 1196
unpack_loc_EngineState_Ind_t, 1197
unpack_loc_EventNMEA_Ind_t, 1198
unpack_loc_EventRegister_t, 1198
unpack_loc_GetServer_Ind_t, 1200
unpack_loc_GnssSvInfo_Ind_t, 1201
unpack_loc_PositionRpt_Ind_t, 1212
unpack_loc_SetExtPowerConfig_Ind_t, 1213
unpack_loc_SetExtPowerState_t, 1214
unpack_loc_SetOperationMode_Ind_t, 1215
unpack_loc_SetOperationMode_t, 1215
unpack_loc_SetServer_Ind_t, 1216
unpack_loc_SLQSLOCGetBestAvailPos_t, 1216
unpack_loc_Start_t, 1217
unpack_loc_Stop_t, 1217
unpack_nas_GetNetworkPreference_t, 1224
unpack_nas_SetNetworkPreference_t, 1232
unpack_nas_SetServingSystemCallback_ind_t, 1233
unpack_nas_SlqsGetLTECphyCAInfo_t, 1235
unpack_nas_SLQSNasGetRFInfo_t, 1260
unpack_nas_SLQSNasSwiOTAMessageCallback_ind_t, 1266
unpack_nas_SLQSSetSysSelectionPrefCallBack_ind_t, 1267
unpack_result_t, 1312
unpack_swidms_SLQSSwiDmsSetMTU_t, 1328
unpack_uim_ChangePin_t, 1337
unpack_uim_GetCardStatus_t, 1337
unpack_uim_ReadTransparent_t, 1338
unpack_uim_SetPinProtection_t, 1339
unpack_uim_UnblockPin_t, 1345
unpack_uim_VerifyPin_t, 1346
unpack_wds_SLQSCreateProfile_t, 1404
unpack_wds_SLQSGetProfileSettings_t, 1413
unpack_wds_SLQSSetIPFamilyPreference_t, 1417
TmdDeRegNotMitigationLvlReq, 1063
mitigationDevID, 1063
mitigationDevIDLen, 1063
TmdGetMitigationDevListResp, 1063
pMitigationDevList, 1064
pMitigationDevListLen, 1064
TmdGetMitigationLvlReq, 1064
mitigationDevID, 1064
mitigationDevIDLen, 1064
TmdGetMitigationLvlResp, 1065
pCurrentmitigationLvl, 1065
pReqMitigationLvl, 1065
TmdMitigationLvlIndReq, 1065
mitigationDevID, 1066
mitigationDevIDLen, 1066
TmdRegNotMitigationLvlReq, 1066
mitigationDevID, 1066
mitigationDevIDLen, 1066
toServiceId
BroadcastConfig, 152
sms_BroadcastConfig, 988
toggleMode
lineCtrlInfo, 390
voice_lineCtrlInfo, 1471
TokenBucket
unpack_qos_swiQosFlow_t, 1309
tokenBucket, 1066
bucketSz, 1067
peakRate, 1067
tokenRate, 1067
tokenRate
tokenBucket, 1067
unpack_qos_tokenBucket_t, 1310
Tos, 1067
mask, 1067
val, 1067
tosMask
LibPackTFTIDParams, 386
TFTIDParams, 1061
total_rx_bytes
sQosStat, 1018
unpack_qos_SLQSQosSwiReadDataStats_t, 1299
total_rx_pkt
sQosStat, 1019
unpack_qos_SLQSQosSwiReadDataStats_t, 1299
total_tx_bytes
sQosStat, 1019
unpack_qos_SLQSQosSwiReadDataStats_t, 1299
total_tx_bytes_drp
sQosStat, 1019
unpack_qos_SLQSQosSwiReadDataStats_t, 1299
total_tx_pkt
sQosStat, 1019
unpack_qos_SLQSQosSwiReadDataStats_t, 1299
total_tx_pkt_drp
sQosStat, 1019
unpack_qos_SLQSQosSwiReadDataStats_t, 1299
TrStatInd, 1069
statsMask, 1069
statsPeriod, 1069
TrackAreaCode
unpack_nas_SLQSGetServingSystem_t, 1243
trackAreaCode
qaQmiServingSystemParam, 860
TrackingStatus
unpack_pds_SetPdsState_Ind_t, 1286
TrafficClass
unpack_qos_swiQosFlow_t, 1309
trafficClass
LibPackUMTSQoS, 388
UMTSMinQoS, 1126
UMTSQoS, 1128
wds_UMTSMinQoS, 1566
trafficPriority
LibPackUMTSQoS, 388

UMTSMinQoS, 1126
UMTSQoS, 1128
wds_UMTSMinQoS, 1566
TranDstPort
unpack_qos_swiQosFilter_t, 1305
TranSrcPort
unpack_qos_swiQosFilter_t, 1305
TransCap
_transLayerinfo, 120
sms_transLayerInfo, 1000
transLayerInfo
qaGobiApiSms.h, 2014
transLayerNotification
qaGobiApiCbk.h, 1803
transNWRegInfoNotification
qaGobiApiCbk.h, 1804
TransType
_transLayerinfo, 120
sms_transLayerInfo, 1001
transactionID
SMSTransferRouteMTMessage, 1016
sMSTransferRouteMTMessageInfo, 1017
transferDelay
LibPackUMTSQoS, 388
UMTSMinQoS, 1126
UMTSQoS, 1128
wds_UMTSMinQoS, 1566
TransferRouteMTMessageInfo
transferRouteMessageTlv, 1068
transferRouteMessageTlv, 1067
TlvPresent, 1068
TransferRouteMTMessageInfo, 1068
TransferStatInd, 1068
StatsMask, 1068
StatsPeriod, 1068
transferStats
pack_wds_SLQSSetWdsEventCallback_t, 807
TransferStatsDataType, 1068
interval, 1068
trueIMSI, 1069
imsiT1112, 1070
imsiTS1, 1070
imsiTS2, 1070
imsiTaddrNum, 1070
mccT, 1070
trueSrvStatus
GSMSrvStatusInfo, 318
nas_GSMSrvStatusInfo, 488
tx_bytes
NetStats, 637
sQosFlowStat, 1017
unpack_QosFlowStat_t, 1311
unpack_wds_SLQSSetWdsEventCallback_ind_t, 1421
tx_bytes_drp
sQosFlowStat, 1017
unpack_QosFlowStat_t, 1311
tx_errors
NetStats, 637
tx_overflows
NetStats, 637
tx_packets
NetStats, 637
tx_pkt
sQosFlowStat, 1017
unpack_QosFlowStat_t, 1311
tx_pkt_drp
sQosFlowStat, 1017
unpack_QosFlowStat_t, 1311
tx_pkts
unpack_wds_SLQSSetWdsEventCallback_ind_t, 1421
TxByteOKCnt
wds_TXBytesOKTlv, 1564
TxDropConutTlv
QmiCbkWdsStatisticsIndState, 885
unpack_RMTransferStatistics_ind_t, 1313
txInfo, 1071
isInTraffic, 1072
txPower, 1072
txOKBytesCount
unpack_wds_SLQSGetDUNCallInfo_t, 1413
TxOkByteCountTlv
QmiCbkWdsStatisticsIndState, 885
unpack_RMTransferStatistics_ind_t, 1313
TxOkConutTlv
QmiCbkWdsStatisticsIndState, 885
unpack_RMTransferStatistics_ind_t, 1313
txPower
nas_txInfo, 581
txInfo, 1072
TxQFilter
unpack_qos_QosFlowInfo_t, 1295
TxQFlowGranted
unpack_qos_QosFlowInfo_t, 1295
type
_getResetInfoNotification, 70
dmsSwiGetResetInfo, 253
pack_wds_GetDefaultProfileNum_t, 788
pack_wds_SetDefaultProfileNum_t, 794
SwiOTAMsg_s, 1035
unpack_dms_SLQSDmsSwiGetResetInfo_Ind_t, 1164
unpack_dms_SLQSDmsSwiGetResetInfo_t, 1165
unpack_qmi_t, 1291
typeSize
unpack_sms_GetSMSCAddress_t, 1315

u16PRLVersion
unpack_dms_GetPRLVersion_t, 1152
u8PRLPreference
unpack_dms_GetPRLVersion_t, 1152
UATISIZE
qaGobiApiNas.h, 1936
UDPDstPort
unpack_qos_swiQosFilter_t, 1305
UDPSrcPort

unpack_qos_swiQosFilter_t, 1305
UIMAuthenticateReq, 1098
authData, 1099
pIndicationToken, 1099
sessionInfo, 1099
UIMAuthenticateResp, 1099
pAuthenticateResult, 1100
pCardResult, 1100
pIndicationToken, 1100
UIMChangePIN
qaGobiApiDms.h, 1884
UIMChangePinReq, 1100
changePIN, 1100
pIndicationToken, 1100
pKeyReferenceID, 1100
sessionInfo, 1100
UIMDepersonalizationReq, 1101
depersonilisationInfo, 1101
UIMDepersonalizationResp, 1101
pRemainingRetries, 1101
UIMEventRegisterReqResp, 1101
eventMask, 1102
UIMGetCardStatusResp, 1102
pCardStatus, 1102
pHotSwapStatus, 1102
UIMGetConfigurationReq, 1102
pConfigurationMask, 1103
UIMGetConfigurationResp, 1103
pAutoSelection, 1104
pHaltSubscription, 1104
pPersonalizationStatus, 1104
UIMGetControlKeyStatus
qaGobiApiDms.h, 1885
UIMGetFileAttributesReq, 1104
fileIndex, 1104
pIndicationToken, 1104
sessionInfo, 1104
UIMGetFileAttributesResp, 1104
pCardResult, 1105
pFileAttributes, 1105
pIndicationToken, 1105
UIMGetICCID
qaGobiApiDms.h, 1886
UIMGetPINStatus
qaGobiApiDms.h, 1887
UIMGetSlotsStatusResp, 1105
pNumberOfPhySlot, 1105
pUimSlotsStatus, 1105
UIMPinResp, 1106
pEncryptedPIN1, 1106
pIndicationToken, 1106
pRemainingRetries, 1106
UIMPowerDownReq, 1106
slot, 1107
UIMPowerUpReq, 1107
pIgnoreHotSwapSwitch, 1107
slot, 1107
UIMReadTransparentReq, 1107
fileIndex, 1108
pEncryptData, 1108
pIndicationToken, 1108
readTransparent, 1108
sessionInfo, 1108
UIMReadTransparentResp, 1108
pCardResult, 1109
pEncryptedData, 1109
pIndicationToken, 1109
pReadResult, 1109
UIMRefreshCompleteReq, 1109
refreshComplete, 1110
sessionInfo, 1110
UIMRefreshEvent, 1110
aid, 1111
aidLength, 1111
arrfileInfo, 1111
mode, 1111
numOfFiles, 1111
sessionType, 1111
stage, 1111
UIMRefreshGetLastEventReq, 1111
sessionInfo, 1112
UIMRefreshGetLastEventResp, 1112
pRefreshEvent, 1112
UIMRefreshOKReq, 1112
OKtoRefresh, 1113
sessionInfo, 1113
UIMRefreshRegisterReq, 1113
regRefresh, 1113
sessionInfo, 1113
UIMSessionInformation, 1113
aid, 1114
aidLength, 1114
sessionType, 1114
UIMSetControlKeyProtection
qaGobiApiDms.h, 1888
UIMSetPINProtection
qaGobiApiDms.h, 1888
UIMSetPinProtectionReq, 1114
pIndicationToken, 1115
pKeyReferenceID, 1115
pinProtection, 1115
sessionInfo, 1115
UIMSlotStatus, 1115
bICCID, 1116
bICCIDLength, 1116
bLogicalSlot, 1116
uPhyCardStatus, 1116
uPhySlotStatus, 1116
UIMSlotStatusChangeInfo, 1117
bNumberOfPhySlots, 1117
slotsstatusChange, 1117
UIMSlotsStatus, 1115
uimSlotStatus, 1115
UIMStatusChangeInfo, 1117
statusChange, 1117
UIMSwitchSlotReq, 1117

bLogicalSlot, 1118
ulPhysicalSlot, 1118
UIMUnblockControlKey
qaGobiApiDms.h, 1889
UIMUnblockPIN
qaGobiApiDms.h, 1890
UIMUnblockPinReq, 1118
pIndicationToken, 1119
pKeyReferenceID, 1119
sessionInfo, 1119
unblockPIN, 1119
UIMVerifyPIN
qaGobiApiDms.h, 1891
UIMVerifyPinReq, 1119
pEncryptedPIN1, 1120
pIndicationToken, 1120
pKeyReferenceID, 1120
sessionInfo, 1120
verifyPIN, 1120
ULONG
SwiDataTypes.h, 2229
ULONGLONG
SwiDataTypes.h, 2229
UMTSGrantedQoS
unpack_wds_SLQSGetRuntimeSettings_t, 1416
UMTSInfo, 1120
cellID, 1121
ecio, 1121
geranInst, 1121
GeranInstInfo, 1121
lac, 1121
plmn, 1121
psc, 1122
rscp, 1122
UMTSInstInfo, 1122
uarfcn, 1122
umtsInst, 1122
UMTSInstInfo
nas_UMTSInfo, 582
UMTSInfo, 1122
UMTSLTENbrCell
nas_WCDMAInfoLTENeighborCell, 587
WCDMAInfoLTENeighborCell, 1536
UMTSMinQoS, 1123
deliveryErrSDU, 1125
grntDownlinkBitrate, 1125
grntUplinkBitrate, 1126
maxDownlinkBitrate, 1126
maxSDUSize, 1126
maxUplinkBitrate, 1126
qosDeliveryOrder, 1126
resBerRatio, 1126
sduErrorRatio, 1126
trafficClass, 1126
trafficPriority, 1126
transferDelay, 1126
UMTSQoS, 1126
deliveryErrSDU, 1128
grntDownlinkBitrate, 1128
grntUplinkBitrate, 1128
maxDownlinkBitrate, 1128
maxSDUSize, 1128
maxUplinkBitrate, 1128
qosDeliveryOrder, 1128
resBerRatio, 1128
sduErrorRatio, 1128
trafficClass, 1128
trafficPriority, 1128
transferDelay, 1128
UMTSReqQoS
LibPackUMTSReqQoSSigInd, 389
UMTSReqQoSSigInd, 1129
UMTSReqQoSSigInd, 1128
SigInd, 1129
UMTSReqQoS, 1129
UMTSinstInfo, 1122
umtsEcio, 1122
umtsPsc, 1122
umtsRscp, 1122
umtsUarfcn, 1122
UNIQUE_ID_LEN
dms.h, 1599
qaGobiApiFms.h, 1896
UNUSEDPARAM
common.h, 1588
SwiDataTypes.h, 2228
uPhyCardStatus
slot_t, 968
UIMSlotStatus, 1116
uPhySlotStatus
slot_t, 968
UIMSlotStatus, 1116
URLAddrInfo, 1427
urlAddr, 1427
uResult
sGetDeviceSeriesResult, 964
USBComp
pack_dms_SetUSBComp_t, 665
unpack_dms_GetUSBComp_t, 1155
USBCompConfig, 1427
pUSBComp, 1428
USBCompParams, 1428
pNumSupUSBComps, 1430
pSupUSBComps, 1430
pUSBComp, 1430
USHORT
SwiDataTypes.h, 2229
USSD_DCS_8BIT
qaGobiApiCbk.h, 1766
USSD_DCS_ASCII
qaGobiApiCbk.h, 1766
USSD_DCS_UCS2
qaGobiApiCbk.h, 1766
USSDNoWaitIndicationInfo, 1431
pAlphaIdentifier, 1431
pError, 1431

pFailureCause, 1431
pUSSDData, 1431
USSDNotificationNetworkInfo
unpack_voice_USSDNotificationCallback_ind_t, 1386
USSDRespFNetwork, 1431
pRespData, 1432
pTypeCode, 1432
USSInfo, 1432
ussDCS, 1432
ussData, 1432
ussLen, 1432
USSInformation
pack_voice_SLQSVoiceOrigUSSDNoWait_t, 781
voiceOrigUSSDNoWaitInfo, 1516
USSResp, 1433
pAlphaIDInfo, 1433
pCCSuppsType, 1433
pCallId, 1433
pCcResultType, 1433
pUSSDInfo, 1433
pfailureCause, 1433
UUSData
UUSInfo, 1434
voice_UUSInfo, 1483
UUSDatalen
UUSInfo, 1434
voice_UUSInfo, 1483
UUSDcs
UUSInfo, 1434
voice_UUSInfo, 1483
UUSInfo, 1433
UUSData, 1434
UUSDatalen, 1434
UUSDcs, 1434
UUSType, 1434
UUSType
UUSInfo, 1434
voice_UUSInfo, 1483
uarfcn
lteWcdmaCellInfo, 447
nas_lteWcdmaCellInfo, 522
nas_UMTSInfo, 582
nas_wcdmaUARFCN, 592
UMTSInfo, 1122
wcdmaUARFCN, 1545
ueInIdle
LTEInfoInterfreq, 427
LTEInfoIntrafreq, 429
LTEInfoNeighboringGSM, 430
LTEInfoNeighboringWCDMA, 431
nas_LTEInfoInterfreq, 505
nas_LTEInfoIntrafreq, 507
nas_LTEInfoNeighboringGSM, 508
nas_LTEInfoNeighboringWCDMA, 509
uim.h, 2243
MAX_ICCID_LENGTH, 2246
MAX_NO_OF_SLOTS, 2246
MAX_SLOTS_STATUS, 2246
pack_uim_ChangePin, 2246
pack_uim_GetCardStatus, 2247
pack_uim_ReadTransparent, 2247
pack_uim_SLQSUIMAuthenticate, 2248
pack_uim_SLQSUIMDepersonalization, 2248
pack_uim_SLQSUIMEventRegister, 2248
pack_uim_SLQSUIMGetConfiguration, 2249
pack_uim_SLQSUIMGetFileAttributes, 2249
pack_uim_SLQSUIMGetSlotsStatus, 2250
pack_uim_SLQSUIMPowerDown, 2250
pack_uim_SLQSUIMPowerUp, 2250
pack_uim_SLQSUIMRefreshComplete, 2251
pack_uim_SLQSUIMRefreshGetLastEvent, 2251
pack_uim_SLQSUIMRefreshOK, 2251
pack_uim_SLQSUIMRefreshRegister, 2252
pack_uim_SLQSUIMReset, 2252
pack_uim_SLQSUIMSwitchSlot, 2253
pack_uim_SetPinProtection, 2247
pack_uim_UnblockPin, 2253
pack_uim_VerifyPin, 2253
unpack_uim_ChangePin, 2254
unpack_uim_GetCardStatus, 2254
unpack_uim_ReadTransparent, 2254
unpack_uim_SLQSUIMAuthenticate, 2255
unpack_uim_SLQSUIMDepersonalization, 2256
unpack_uim_SLQSUIMEventRegister, 2256
unpack_uim_SLQSUIMGetConfiguration, 2256
unpack_uim_SLQSUIMGetFileAttributes, 2257
unpack_uim_SLQSUIMGetSlotsStatus, 2257
unpack_uim_SLQSUIMPowerDown, 2258
unpack_uim_SLQSUIMPowerUp, 2258
unpack_uim_SLQSUIMRefreshCallback_Ind, 2258
unpack_uim_SLQSUIMRefreshComplete, 2259
unpack_uim_SLQSUIMRefreshGetLastEvent, 2259
unpack_uim_SLQSUIMRefreshOK, 2259
unpack_uim_SLQSUIMRefreshRegister, 2260
unpack_uim_SLQSUIMReset, 2260
unpack_uim_SLQSUIMSetStatusChangeCallBack_ind, 2260
unpack_uim_SLQSUIMSwitchSlot, 2261
unpack_uim_SetPinProtection, 2255
unpack_uim_SetUimSlotStatusChangeCallback_ind, 2255
unpack_uim_UnblockPin, 2261
unpack_uim_VerifyPin, 2261
uim_UIMSessionInformation, 1096
aid, 1097
aidLength, 1097
sessionType, 1097
uim_appStatus, 1073
aidLength, 1076
aidVal, 1076
appState, 1076
appType, 1076
persoFeature, 1076
persoRetries, 1076

persoState, 1076
persoUnblockRetries, 1076
pin1Retries, 1076
pin1State, 1076
pin2Retries, 1076
pin2State, 1076
puk1Retries, 1076
puk2Retries, 1076
univPin, 1076
uim_authenticateResult, 1076
content, 1077
contentLen, 1077
uim_authenticationData, 1077
context, 1078
data, 1078
dataLen, 1078
uim_cardResult, 1078
sw1, 1079
sw2, 1079
uim_cardStatus, 1079
index1xPri, 1080
index1xSec, 1080
indexGwPri, 1080
indexGwSec, 1080
numSlot, 1080
SlotInfo, 1080
uim_changeUIMPIN, 1080
oldPINLen, 1081
oldPINVal, 1081
pinID, 1081
pinLen, 1081
pinVal, 1081
uim_depersonalizationInformation, 1081
ckLen, 1082
ckVal, 1082
feature, 1082
operation, 1082
uim_encryptedPIN1, 1082
pin1Len, 1083
pin1Val, 1083
uim_fileAttributes, 1083
fileID, 1086
fileSize, 1086
fileType, 1086
rawLen, 1086
rawValue, 1086
recordCount, 1086
recordSize, 1086
secActivate, 1086
secActivateMask, 1086
secDeactivate, 1086
secDeactivateMask, 1086
secIncrease, 1086
secIncreaseMask, 1086
secRead, 1086
secReadMask, 1086
secWrite, 1086
secWriteMask, 1086
uim_fileInfo, 1086
fileID, 1087
path, 1087
pathLen, 1087
uim_hotSwapStatus, 1087
hotSwap, 1087
hotSwapLength, 1087
uim_personalizationStatus, 1087
feature, 1088
numFeatures, 1088
unblockLeft, 1088
verifyLeft, 1088
uim_readResult, 1088
content, 1089
contentLen, 1089
uim_readTransparentInfo, 1089
length, 1089
offset, 1089
uim_refreshevent, 1089
aid, 1091
aidLength, 1091
arrfileInfo, 1091
mode, 1091
numOfFiles, 1091
sessionType, 1091
stage, 1091
uim_registerRefresh, 1091
arrfileInfo, 1092
numFiles, 1092
registerFlag, 1092
voteForInit, 1092
uim_remainingRetries, 1092
unblockLeft, 1092
verifyLeft, 1092
uim_sessionInformation, 1093
aid, 1093
aidLength, 1093
sessionType, 1093
uim_setPINProtection, 1093
pinID, 1094
pinLength, 1094
pinOperation, 1094
pinValue, 1094
uim_slotInfo, 1094
AppStatus, 1096
cardState, 1096
errorState, 1096
numApp, 1096
upinRetries, 1096
upinState, 1096
upukRetries, 1096
uim_unblockUIMPIN, 1097
newPINLen, 1097
newPINVal, 1097
pinID, 1097
pukLen, 1097
pukVal, 1098
uim_verifyUIMPIN, 1098

pinID, 1098
pinLen, 1098
pinVal, 1098
uimSlotStatus
slots_t, 972
UIMSlotsStatus, 1115
ulData
DataULongTlv, 232
wds_DataULongTlv, 1550
ulMask
rmTrasnferStaticsReq, 914
swiRMTrasnferStaticsReq, 1046
ulMax
_QmiSwiAvmsSetSettingsPeriodInfo, 84
ulMin
_QmiSwiAvmsSetSettingsPeriodInfo, 84
ulPhysicalSlot
pack_uim_SLQSUIMSwitchSlot_t, 766
UIMSwitchSlotReq, 1118
ulPkgDownloadComplete
_QmiSwiAvmsEventReportBinaryUpdateSession-InfoResp, 77
ulPkgDownloadSize
_QmiSwiAvmsEventReportBinaryUpdateSession-InfoResp, 77
ullData
DataULongLongTlv, 232
wds_DataULongLongTlv, 1549
umtsEcio
nas_UMTSinstInfo, 583
UMTSinstInfo, 1122
umtsInst
nas_UMTSInfo, 582
UMTSInfo, 1122
umtsLTENbrCell, 1122
cellIsTDD, 1123
earfcn, 1123
pci, 1123
rsrp, 1123
rsrq, 1123
srxlev, 1123
umtsLTENbrCellLen
nas_WCDMAInfoLTENeighborCell, 587
WCDMAInfoLTENeighborCell, 1536
umtsPsc
nas_UMTSinstInfo, 583
UMTSinstInfo, 1122
umtsRscp
nas_UMTSinstInfo, 583
UMTSinstInfo, 1122
umtsUarfcn
nas_UMTSinstInfo, 583
UMTSinstInfo, 1122
UnPackGetProfileSettingOut, 1425
curProfile, 1426
pExtErrCode, 1426
unblockLeft
personalizationStatus, 821
remainingRetries, 905
uim_personalizationStatus, 1088
uim_remainingRetries, 1092
unblockPIN
UIMUnblockPinReq, 1119
unblockRetriesLeft
unpack_dms_UIMGetControlKeyStatus_t, 1181
unpack_dms_UIMSetPINProtection_t, 1185
unpack_dms_UIMUnblockControlKey_t, 1185
unblockUIMPIN, 1129
newPINLen, 1130
newPINVal, 1130
pinID, 1130
pukLen, 1130
pukVal, 1130
uniqueID
CurrImageInfo, 215
image_info_t, 333
univPin
appStats, 134
appStatus, 137
uim_appStatus, 1076
UniversalTime, 1130
day, 1131
dayOfWeek, 1131
hour, 1131
minute, 1131
month, 1131
second, 1131
year, 1131
universalTime
nasNetworkTime, 614
unpack_nas_SLQSNasNetworkTimeCallBack_ind-_t, 1263
unpack_QosFlowStat_t, 1311
bearerId, 1311
tx_bytes, 1311
tx_bytes_drp, 1311
tx_pkt, 1311
tx_pkt_drp, 1311
unpack_RMTransferStatistics_ind_t, 1312
RxDropConutTlv, 1313
RxOkByteCountTlv, 1313
RxOkConutTlv, 1313
TxDropConutTlv, 1313
TxOkByteCountTlv, 1313
TxOkConutTlv, 1313
unpack_dms_ActivateAutomatic
dms.h, 1624
unpack_dms_GetActivationState
dms.h, 1624
unpack_dms_GetActivationState_t, 1131
state, 1132
unpack_dms_GetBandCapability
dms.h, 1625
unpack_dms_GetBandCapability_t, 1132
BandCapability, 1134
Tlvresult, 1134

unpack_dms_GetCrashAction
dms.h, 1625
unpack_dms_GetCrashAction_t, 1134
DevCrashState, 1134
Tlvresult, 1134
unpack_dms_GetCustFeature
dms.h, 1625
unpack_dms_GetCustFeature_t, 1134
DHCPRelayEnabled, 1136
DisableIMSI, 1136
GPSLPM, 1137
GPSSel, 1137
GpsEnable, 1137
IPFamSupport, 1137
IsVoiceEnabled, 1137
RMAutoConnect, 1137
SMSSupport, 1137
Tlvresult, 1137
unpack_dms_GetCustFeaturesV2
dms.h, 1626
unpack_dms_GetCustFeaturesV2_t, 1137
GetCustomFeatureV2, 1137
Tlvresult, 1137
unpack_dms_GetDeviceCap
dms.h, 1626
unpack_dms_GetDeviceCap_t, 1137
DataServiceCapability, 1138
MaxRXChannelRate, 1138
MaxTXChannelRate, 1138
RadioIfaces, 1138
RadioIfacesSize, 1138
SimCapability, 1139
Tlvresult, 1139
unpack_dms_GetDeviceCapabilities
dms.h, 1626
unpack_dms_GetDeviceCapabilities_t, 1139
dataServiceCaCapability, 1140
maxRxChannelRate, 1140
maxTxChannelRate, 1140
RadioIfaces, 1140
radioIfacesSize, 1140
simCapability, 1140
unpack_dms_GetDeviceHardwareRev
dms.h, 1627
unpack_dms_GetDeviceHardwareRev_t, 1140
String, 1140
stringSize, 1140
Tlvresult, 1140
unpack_dms_GetDeviceMfr
dms.h, 1627
unpack_dms_GetDeviceMfr_t, 1140
String, 1141
stringSize, 1141
Tlvresult, 1141
unpack_dms_GetDeviceSerialNumbers
dms.h, 1627
unpack_dms_GetDeviceSerialNumbers_t, 1141
ESNString, 1142
esnSize, 1142
IMEIString, 1142
imeiSize, 1142
imeiSvnSize, 1142
ImeiSvnString, 1142
MEIDString, 1142
meidSize, 1142
Tlvresult, 1143
unpack_dms_GetFSN
dms.h, 1629
unpack_dms_GetFSN_t, 1146
String, 1147
Tlvresult, 1147
unpack_dms_GetFirmwareInfo
dms.h, 1628
unpack_dms_GetFirmwareInfo_t, 1143
appversion_str, 1144
bootversion_str, 1144
carrier_str, 1144
cur_carr_name, 1144
cur_carr_rev, 1144
modelid_str, 1144
packageid_str, 1144
priversion_str, 1144
sku_str, 1144
Tlvresult, 1144
unpack_dms_GetFirmwareRevision
dms.h, 1628
unpack_dms_GetFirmwareRevision_t, 1144
AMSSString, 1145
amssSize, 1145
PRIString, 1145
Tlvresult, 1145
unpack_dms_GetFirmwareRevisions
dms.h, 1628
unpack_dms_GetFirmwareRevisions_t, 1145
AMSSString, 1146
amssSize, 1146
bootSize, 1146
BootString, 1146
PRIString, 1146
priSize, 1146
Tlvresult, 1146
unpack_dms_GetHardwareRevision
dms.h, 1629
unpack_dms_GetHardwareRevision_t, 1147
hwVer, 1147
unpack_dms_GetIMSI
dms.h, 1629
unpack_dms_GetIMSI_t, 1147
imsi, 1148
Tlvresult, 1148
unpack_dms_GetManufacturer
dms.h, 1630
unpack_dms_GetManufacturer_t, 1148
manufacturer, 1148
Tlvresult, 1148
unpack_dms_GetModelID

dms.h, 1630
unpack_dms_GetModelID_t, 1148
modelid, 1149
Tlvresult, 1149
unpack_dms_GetNetworkTime
dms.h, 1630
unpack_dms_GetNetworkTime_t, 1149
source, 1149
timestamp, 1149
Tlvresult, 1149
unpack_dms_GetOfflineReason
dms.h, 1631
unpack_dms_GetOfflineReason_t, 1150
pReasonMask, 1150
pbPlatform, 1150
Tlvresult, 1150
unpack_dms_GetPRLVersion
dms.h, 1631
unpack_dms_GetPRLVersion_t, 1152
Tlvresult, 1152
u16PRLVersion, 1152
u8PRLPreference, 1152
unpack_dms_GetPower
dms.h, 1631
unpack_dms_GetPower_t, 1150
HardwareControlledMode, 1151
OfflineReason, 1151
OperationMode, 1151
Tlvresult, 1151
unpack_dms_GetSerialNumbers
dms.h, 1632
unpack_dms_GetSerialNumbers_t, 1152
esn, 1153
imei_no, 1153
imeisv_svn, 1153
meid, 1153
unpack_dms_GetUSBComp
dms.h, 1632
unpack_dms_GetUSBComp_t, 1153
NumSupUSBComps, 1155
SupUSBComps, 1155
Tlvresult, 1155
USBComp, 1155
unpack_dms_GetVoiceNumber
dms.h, 1632
unpack_dms_GetVoiceNumber_t, 1155
MIN, 1156
minSize, 1156
Tlvresult, 1156
VoiceNumber, 1156
voiceNumberSize, 1156
unpack_dms_PSMCfgChange_ind
dms.h, 1633
unpack_dms_PSMCfgChange_ind_t, 1156
ActiveTimer, 1157
EnableState, 1157
PeriodicUpdateTimer, 1157
Tlvresult, 1157
unpack_dms_ResetToFactoryDefaults
dms.h, 1633
unpack_dms_ResetToFactoryDefaults_t, 1157
Tlvresult, 1157
unpack_dms_SLQSDmsSwiGetPCInfo
dms.h, 1637
unpack_dms_SLQSDmsSwiGetPCInfo_t, 1161
has_LpmFlag, 1163
has_PersistentLpm, 1163
has_Wdisable, 1163
LpmFlag, 1163
opMode, 1163
PersistentLpm, 1163
PowerOffMode, 1163
Wdisable, 1163
unpack_dms_SLQSDmsSwiGetResetInfo
dms.h, 1637
unpack_dms_SLQSDmsSwiGetResetInfo_Ind
dms.h, 1638
unpack_dms_SLQSDmsSwiGetResetInfo_Ind_t, 1163
source, 1164
Tlvresult, 1164
type, 1164
unpack_dms_SLQSDmsSwiGetResetInfo_t, 1164
source, 1165
Tlvresult, 1165
type, 1165
unpack_dms_SLQSDmsSwiIndicationRegister
dms.h, 1638
unpack_dms_SLQSDmsSwiIndicationRegister_t, 1165
Tlvresult, 1166
unpack_dms_SLQSGetBandCapability
dms.h, 1638
unpack_dms_SLQSGetBandCapability_t, 1166
bandCapability, 1169
LteBandCapability, 1169
TdsBandCapability, 1169
unpack_dms_SLQSGetERIFile
dms.h, 1639
unpack_dms_SLQSGetERIFile_t, 1169
eriFile, 1169
Tlvresult, 1169
unpack_dms_SLQSGetPowerSaveModeConfig
dms.h, 1639
unpack_dms_SLQSGetPowerSaveModeConfig_t, 1170
pActiveTimer, 1170
pDurationThreshold, 1170
pEarlyWakeupTime, 1170
pPeriodicUpdateTimer, 1170
pPsmEnableState, 1170
pRandomizationWindow, 1171
unpack_dms_SLQSSetPowerSaveModeConfig
dms.h, 1639
unpack_dms_SLQSSetPowerSaveModeConfig_t, 1171
Tlvresult, 1171
unpack_dms_SLQSSwiClearDyingGaspStatistics
dms.h, 1640

unpack_dms_SLQSSwiClearDyingGaspStatistics_t, 1171
Tlvresult, 1171
unpack_dms_SLQSSwiGetCrashInfo
dms.h, 1640
unpack_dms_SLQSSwiGetCrashInfo_t, 1171
crashInfoParam, 1172
Tlvresult, 1172
unpack_dms_SLQSSwiGetDyingGaspCfg
dms.h, 1641
unpack_dms_SLQSSwiGetDyingGaspCfg_t, 1172
pGetDyingGaspCfg, 1172
Tlvresult, 1172
unpack_dms_SLQSSwiGetDyingGaspStatistics
dms.h, 1641
unpack_dms_SLQSSwiGetDyingGaspStatistics_t, 1172
pGetDyingGaspStatistics, 1173
Tlvresult, 1173
unpack_dms_SLQSSwiGetFirmwareCurr
dms.h, 1641
unpack_dms_SLQSSwiGetFirmwareCurr_t, 1173
carrier, 1174
fwvers, 1174
numEntries, 1174
pCurrImgInfo, 1174
pkgver, 1174
priver, 1174
unpack_dms_SLQSSwiGetFwUpdateStatus
dms.h, 1642
unpack_dms_SLQSSwiGetFwUpdateStatus_t, 1174
imgType, 1175
logString, 1175
refData, 1175
refString, 1176
ResCode, 1176
Tlvresult, 1176
unpack_dms_SLQSSwiGetHostDevInfo
dms.h, 1642
unpack_dms_SLQSSwiGetHostDevInfo_t, 1176
manString, 1176
modelString, 1176
plasmaIDString, 1177
swVerString, 1177
Tlvresult, 1177
unpack_dms_SLQSSwiGetOSInfo
dms.h, 1642
unpack_dms_SLQSSwiGetOSInfo_t, 1177
nameString, 1177
Tlvresult, 1177
versionString, 1177
unpack_dms_SLQSSwiGetSerialNoExt
dms.h, 1643
unpack_dms_SLQSSwiGetSerialNoExt_t, 1177
meidString, 1178
Tlvresult, 1178
unpack_dms_SLQSSwiSetDyingGaspCfg
dms.h, 1643
unpack_dms_SLQSSwiSetDyingGaspCfg_t, 1178
Tlvresult, 1178
unpack_dms_SLQSSwiSetHostDevInfo
dms.h, 1643
unpack_dms_SLQSSwiSetHostDevInfo_t, 1178
Tlvresult, 1179
unpack_dms_SLQSSwiSetOSInfo
dms.h, 1644
unpack_dms_SLQSSwiSetOSInfo_t, 1179
Tlvresult, 1179
unpack_dms_SLQSUIMGetState
dms.h, 1644
unpack_dms_SLQSUIMGetState_t, 1179
state, 1179
Tlvresult, 1179
unpack_dms_SetActivationStatusCallback
dms.h, 1633
unpack_dms_SetActivationStatusCallback_t, 1157
Tlvresult, 1158
unpack_dms_SetCrashAction
dms.h, 1634
unpack_dms_SetCrashAction_t, 1158
notused, 1158
unpack_dms_SetCustFeature
dms.h, 1634
unpack_dms_SetCustFeature_t, 1158
Tlvresult, 1158
unpack_dms_SetCustFeaturesV2
dms.h, 1634
unpack_dms_SetCustFeaturesV2_t, 1159
Tlvresult, 1159
unpack_dms_SetEventReport
dms.h, 1635
unpack_dms_SetEventReport_ind
dms.h, 1635
unpack_dms_SetEventReport_ind_t, 1159
ActivationStatusTlv, 1159
OperatingModeTlv, 1159
Tlvresult, 1159
unpack_dms_SetEventReport_t, 1160
Tlvresult, 1160
unpack_dms_SetFirmwarePreference
dms.h, 1635
unpack_dms_SetFirmwarePreference_t, 1160
Tlvresult, 1160
unpack_dms_SetIndicationRegister
dms.h, 1636
unpack_dms_SetIndicationRegister_t, 1160
Tlvresult, 1161
unpack_dms_SetPower
dms.h, 1636
unpack_dms_SetPower_t, 1161
Tlvresult, 1161
unpack_dms_SetUSBComp
dms.h, 1636
unpack_dms_SetUSBComp_t, 1161
Tlvresult, 1161
unpack_dms_SwiEventReportCallBack_ind
dms.h, 1644

unpack_dms_SwiEventReportCallBack_ind_t, 1179
TempTlv, 1180
VoltTlv, 1180
unpack_dms_SwiSetEventReport
dms.h, 1645
unpack_dms_SwiSetEventReport_t, 1180
Tlvresult, 1180
unpack_dms_UIMChangePIN
dms.h, 1645
unpack_dms_UIMGetControlKeyStatus
dms.h, 1645
unpack_dms_UIMGetControlKeyStatus_t, 1180
facilityState, 1181
Tlvresult, 1181
unblockRetriesLeft, 1181
verifyRetriesLeft, 1181
unpack_dms_UIMGetICCID
dms.h, 1646
unpack_dms_UIMGetICCID_t, 1181
String, 1182
stringSize, 1182
Tlvresult, 1182
unpack_dms_UIMGetPINStatus
dms.h, 1646
unpack_dms_UIMGetPINStatus_t, 1182
p1Status, 1183
p1UnblockRetriesLeft, 1183
p1VerifyRetriesLeft, 1183
p2Status, 1183
p2UnblockRetriesLeft, 1183
p2VerifyRetriesLeft, 1183
Tlvresult, 1183
unpack_dms_UIMSetControlKeyProtection
dms.h, 1646
unpack_dms_UIMSetControlKeyProtection_t, 1184
Tlvresult, 1184
verifyRetriesLeft, 1184
unpack_dms_UIMSetPINProtection
dms.h, 1647
unpack_dms_UIMSetPINProtection_t, 1184
Tlvresult, 1185
unblockRetriesLeft, 1185
verifyRetriesLeft, 1185
unpack_dms_UIMUnblockControlKey
dms.h, 1647
unpack_dms_UIMUnblockControlKey_t, 1185
Tlvresult, 1185
unblockRetriesLeft, 1185
unpack_dms_UIMUnblockPIN
dms.h, 1648
unpack_dms_UIMVerifyPIN
dms.h, 1648
unpack_dms_ValidateSPC
dms.h, 1648
unpack_fms_GetImagesPreference
fms.h, 1651
unpack_fms_GetImagesPreference_t, 1185
ImageListSize, 1186
pImageList, 1186
ParamPresenceMask, 1186
Tlvresult, 1186
unpack_fms_GetStoredImages
fms.h, 1651
unpack_fms_GetStoredImages_t, 1186
imageList, 1187
imagelistSize, 1187
ParamPresenceMask, 1187
Tlvresult, 1187
unpack_fms_SetImagesPreference
fms.h, 1651
unpack_fms_SetImagesPreference_t, 1187
ImageTypes, 1187
ImageTypesSize, 1187
ParamPresenceMask, 1187
Tlvresult, 1187
unpack_loc_BestAvailPos_Ind
loc.h, 1663
unpack_loc_BestAvailPos_Ind_t, 1187
pAltitudeWrtEllipsoid, 1193
pAltitudeWrtMeanSeaLevel, 1193
pGpsTime, 1193
pHeading, 1193
pHeadingUnc, 1193
pHorCirConf, 1193
pHorEllpConf, 1193
pHorReliability, 1193
pHorUncCircular, 1193
pHorUncEllipseOrientAzimuth, 1194
pHorUncEllipseSemiMajor, 1194
pHorUncEllipseSemiMinor, 1194
pLatitude, 1194
pLongitude, 1194
pMagneticDeviation, 1194
pPrecisionDilution, 1194
pSensorDataUsage, 1194
pSpeedHorizontal, 1194
pSpeedUnc, 1194
pSpeedVertical, 1194
pSpeedVerticalUnc, 1194
pSvUsedforFix, 1194
pTechnologyMask, 1194
pTimeSrc, 1194
pTimeUnc, 1194
pTimestampUtc, 1194
pVertConfidence, 1194
pVertReliability, 1194
pVertUnc, 1194
pXid, 1194
ParamPresenceMask, 1193
status, 1194
Tlvresult, 1194
unpack_loc_CradleMountCallback_Ind
loc.h, 1664
unpack_loc_CradleMountCallback_Ind_t, 1194
cradleMountConfigStatus, 1195
ParamPresenceMask, 1195

unpack_loc_Delete_Assist_Data_t, 1195
ParamPresenceMask, 1195
Tlvresult, 1195
unpack_loc_DeleteAssistData
loc.h, 1664
unpack_loc_DeleteAssistData_Ind
loc.h, 1665
unpack_loc_DeleteAssistData_Ind_t, 1196
ParamPresenceMask, 1196
status, 1196
Tlvresult, 1196
unpack_loc_EngineState_Ind
loc.h, 1665
unpack_loc_EngineState_Ind_t, 1196
engineState, 1197
ParamPresenceMask, 1197
Tlvresult, 1197
unpack_loc_EventNMEA_Ind
loc.h, 1665
unpack_loc_EventNMEA_Ind_t, 1197
NMEAData, 1198
ParamPresenceMask, 1198
Tlvresult, 1198
unpack_loc_EventRegister
loc.h, 1666
unpack_loc_EventRegister_t, 1198
ParamPresenceMask, 1198
Tlvresult, 1198
unpack_loc_EventTimeSyncCallback_Ind
loc.h, 1666
unpack_loc_EventTimeSyncCallback_Ind_t, 1198
ParamPresenceMask, 1198
timeSyncRefCounter, 1199
unpack_loc_GetServer_Ind
loc.h, 1666
unpack_loc_GetServer_Ind_t, 1199
pIPv4AddrInfo, 1200
pIPv6AddrInfo, 1200
pURL, 1200
ParamPresenceMask, 1200
serverStatus, 1200
serverType, 1200
Tlvresult, 1200
unpack_loc_GnssSvInfo_Ind
loc.h, 1667
unpack_loc_GnssSvInfo_Ind_t, 1200
altitudeAssumed, 1201
pSatelliteInfo, 1201
ParamPresenceMask, 1201
Tlvresult, 1201
unpack_loc_InjectPositionCallback_Ind
loc.h, 1667
unpack_loc_InjectPositionCallback_Ind_t, 1201
ParamPresenceMask, 1202
status, 1202
unpack_loc_InjectSensorDataCallback_Ind
loc.h, 1667
unpack_loc_InjectSensorDataCallback_Ind_t, 1202
injectSensorDataStatus, 1203
pAccelSamplesAccepted, 1203
pAccelTempSamplesAccepted, 1203
pGyroSamplesAccepted, 1203
pGyroTempSamplesAccepted, 1203
pOpaqueIdentifier, 1203
ParamPresenceMask, 1203
unpack_loc_InjectTimeSyncDataCallback_Ind
loc.h, 1668
unpack_loc_InjectTimeSyncDataCallback_Ind_t, 1203
injectTimeSyncStatus, 1204
ParamPresenceMask, 1204
unpack_loc_InjectUTCTimeCallback_Ind
loc.h, 1668
unpack_loc_InjectUTCTimeCallback_Ind_t, 1204
ParamPresenceMask, 1205
status, 1205
unpack_loc_PositionRpt_Ind
loc.h, 1668
unpack_loc_PositionRpt_Ind_t, 1205
pAltitudeAssumed, 1211
pAltitudeWrtEllipsoid, 1211
pAltitudeWrtMeanSeaLevel, 1211
pFixId, 1211
pGpsTime, 1211
pHeading, 1211
pHeadingUnc, 1211
pHorConfidence, 1211
pHorReliability, 1211
pHorUncCircular, 1211
pHorUncEllipseOrientAzimuth, 1211
pHorUncEllipseSemiMajor, 1211
pHorUncEllipseSemiMinor, 1211
pLatitude, 1211
pLeapSeconds, 1211
pLongitude, 1211
pMagneticDeviation, 1211
pPrecisionDilution, 1211
pSensorDataUsage, 1211
pSpeedHorizontal, 1211
pSpeedUnc, 1211
pSpeedVertical, 1211
pSvUsedforFix, 1211
pTechnologyMask, 1211
pTimeSrc, 1211
pTimeUnc, 1211
pTimestampUtc, 1211
pVertConfidence, 1212
pVertReliability, 1212
pVertUnc, 1212
ParamPresenceMask, 1211
sessionId, 1212
sessionStatus, 1212
Tlvresult, 1212
unpack_loc_SLQSLOCGetBestAvailPos
loc.h, 1671
unpack_loc_SLQSLOCGetBestAvailPos_t, 1216
ParamPresenceMask, 1216

Tlvresult, 1216
unpack_loc_SLQSLOCGetServer
loc.h, 1671
unpack_loc_SLQSLOCGetServer_t
loc.h, 1658
unpack_loc_SLQSLOCInjectPosition
loc.h, 1671
unpack_loc_SLQSLOCInjectPosition_t
loc.h, 1658
unpack_loc_SLQSLOCInjectSensorData
loc.h, 1672
unpack_loc_SLQSLOCInjectSensorData_t
loc.h, 1658
unpack_loc_SLQSLOCInjectUTCTime
loc.h, 1672
unpack_loc_SLQSLOCInjectUTCTime_t
loc.h, 1658
unpack_loc_SLQSLOCSetCradleMountConfig
loc.h, 1672
unpack_loc_SLQSLOCSetCradleMountConfig_t
loc.h, 1658
unpack_loc_SLQSLOCSetServer
loc.h, 1673
unpack_loc_SensorStreamingCallback_Ind
loc.h, 1669
unpack_loc_SensorStreamingCallback_Ind_t, 1212
pAccelAcceptReady, 1212
pAccelTempAcceptReady, 1212
pGyroAcceptReady, 1213
pGyroTempAcceptReady, 1213
ParamPresenceMask, 1212
unpack_loc_SetExtPowerConfig_Ind
loc.h, 1669
unpack_loc_SetExtPowerConfig_Ind_t, 1213
ParamPresenceMask, 1213
status, 1213
Tlvresult, 1213
unpack_loc_SetExtPowerState
loc.h, 1669
unpack_loc_SetExtPowerState_t, 1213
ParamPresenceMask, 1214
Tlvresult, 1214
unpack_loc_SetOperationMode
loc.h, 1670
unpack_loc_SetOperationMode_Ind
loc.h, 1670
unpack_loc_SetOperationMode_Ind_t, 1214
ParamPresenceMask, 1215
status, 1215
Tlvresult, 1215
unpack_loc_SetOperationMode_t, 1215
ParamPresenceMask, 1215
Tlvresult, 1215
unpack_loc_SetServer_Ind
loc.h, 1670
unpack_loc_SetServer_Ind_t, 1215
serverStatus, 1216
Tlvresult, 1216
unpack_loc_Start
loc.h, 1673
unpack_loc_Start_t, 1217
ParamPresenceMask, 1217
Tlvresult, 1217
unpack_loc_Stop
loc.h, 1673
unpack_loc_Stop_t, 1217
ParamPresenceMask, 1217
Tlvresult, 1217
unpack_nas_GetACCOLC
nas.h, 1702
unpack_nas_GetANAAAAuthenticationStatus
nas.h, 1702
unpack_nas_GetCDMANetworkParameters
nas.h, 1703
unpack_nas_GetCDMANetworkParameters_t, 1217
Application, 1219
Broadcast, 1219
CustomSCP, 1219
ForceRev0, 1219
Protocol, 1219
RegForeignNID, 1219
RegForeignSID, 1220
RegHomeSID, 1220
Roaming, 1220
SCI, 1220
SCM, 1220
unpack_nas_GetHomeNetwork
nas.h, 1703
unpack_nas_GetHomeNetwork3GPP2
nas.h, 1704
unpack_nas_GetHomeNetwork3GPP2_t, 1220
nameSize, 1221
pMCC, 1221
pMNC, 1222
pNID, 1222
pName, 1222
pNw2DescDisp, 1222
pNw2DescEnc, 1222
pNw2DescLen, 1222
pNw2MCC, 1222
pNw2MNC, 1222
pNw2Name, 1222
pSID, 1222
unpack_nas_GetHomeNetwork_t, 1222
mcc, 1223
mnc, 1223
name, 1223
nid, 1223
sid, 1223
unpack_nas_GetNetworkPreference
nas.h, 1704
unpack_nas_GetNetworkPreference_t, 1223
ActiveTechPref, 1224
Duration, 1224
PersistentTechPref, 1224
Tlvresult, 1224

unpack_nas_GetRFInfo
nas.h, 1704
unpack_nas_GetRFInfo_t, 1224
instancesSize, 1225
RFBandInfoElements, 1225
unpack_nas_GetServingNetwork
nas.h, 1705
unpack_nas_GetServingNetwork_t, 1225
CSDomain, 1227
DataCaps, 1227
DataCapsLen, 1227
MCC, 1227
MNC, 1227
Name, 1227
nameSize, 1227
PSDomain, 1227
RAN, 1227
RadioIfaces, 1227
RadioIfacesSize, 1227
RegistrationState, 1227
Roaming, 1227
unpack_nas_GetServingNetworkCapabilities
nas.h, 1705
unpack_nas_GetServingNetworkCapabilities_t, 1227
DataCaps, 1228
DataCapsLen, 1228
unpack_nas_GetSignalStrengths
nas.h, 1705
unpack_nas_GetSignalStrengths_t, 1228
len, 1228
radio, 1229
rssi, 1229
unpack_nas_InitiateDomainAttach
nas.h, 1706
unpack_nas_PerformNetworkScan
nas.h, 1706
unpack_nas_PerformNetworkScan_t, 1229
p3GppNetworkInfoInstances, 1230
p3GppNetworkInstanceSize, 1230
pPCSInstance, 1230
pPCSInstanceSize, 1230
pRATINstance, 1230
pRATInstanceSize, 1230
pScanResult, 1230
unpack_nas_SLQSConfigSigInfo
nas.h, 1710
unpack_nas_SLQSGetErrorRate
nas.h, 1710
unpack_nas_SLQSGetErrorRate_t, 1233
pCDMAFrameErrRate, 1234
pGSMBER, 1234
pHDRPackErrRate, 1234
pWCDMABER, 1234
unpack_nas_SLQSGetNetworkTime
nas.h, 1711
unpack_nas_SLQSGetNetworkTime_t, 1235
p3GPP2TimeInfo, 1235
p3GPPTimeInfo, 1235
unpack_nas_SLQSGetOperatorNameData
nas.h, 1711
unpack_nas_SLQSGetOperatorNameData_t, 1235
pNITZInformation, 1236
pOperatorNameString, 1236
pOperatorPLMNList, 1236
pPLMNNetworkName, 1236
pSrvcProviderName, 1236
unpack_nas_SLQSGetPLMNName
nas.h, 1712
unpack_nas_SLQSGetPLMNName_t, 1236
longName, 1238
longNameCI, 1238
longNameEn, 1238
longNameLen, 1238
longNameSB, 1238
shortName, 1238
shortNameCI, 1238
shortNameEn, 1239
shortNameLen, 1239
shortNameSB, 1239
spn, 1239
spnEncoding, 1239
spnLength, 1239
unpack_nas_SLQSGetServingSystem
nas.h, 1712
unpack_nas_SLQSGetServingSystem_t, 1239
BasestationID, 1242
BasestationLatitude, 1242
BasestationLongitude, 1242
CDMASystemInfoExt, 1242
CallBarStatus, 1242
CellID, 1242
ConcSvcInfo, 1242
CurrentPLMN, 1242
DTMInd, 1242
DataSrvCapabilities, 1242
DefaultRoamInd, 1242
DetailedSvcInfo, 1242
Gpp2TimeZone, 1242
GppNetworkDSTAdjustment, 1242
GppTimeZone, 1242
HdrPersonality, 1242
Lac, 1242
NetworkID, 1242
PRLInd, 1243
RoamIndicatorVal, 1243
RoamingIndicatorList, 1243
ServingSystem, 1243
SystemID, 1243
TrackAreaCode, 1243
unpack_nas_SLQSGetSignalStrength
nas.h, 1712
unpack_nas_SLQSGetSignalStrength_t, 1243
ecioList, 1245
ecioListLen, 1245
errorRateList, 1245
errorRateListLen, 1245

Io, 1245
ltersrp, 1245
ltesnr, 1245
rsrqInfo, 1245
rxSignalStrengthList, 1245
rxSignalStrengthListLen, 1245
signalStrengthReqMask, 1245
sinr, 1245
unpack_nas_SLQSGetSysInfo
nas.h, 1713
unpack_nas_SLQSGetSysInfo_t, 1245
pAddCDMASysInfo, 1248
pAddGSMSysInfo, 1248
pAddHDRSysInfo, 1248
pAddLTESysInfo, 1248
pCDMASrvStatusInfo, 1248
pCDMASysInfo, 1248
pGSMCallBarringSysInfo, 1248
pGSMCipherDomainSysInfo, 1248
pGSMSrvStatusInfo, 1248
pGSMSysInfo, 1248
pHDRSrvStatusInfo, 1248
pHDRSysInfo, 1248
pLTESrvStatusInfo, 1248
pLTESysInfo, 1248
pLTEVoiceSupportSysInfo, 1248
pWCDMASysInfo, 1249
unpack_nas_SLQSGetSysSelectionPref
nas.h, 1713
unpack_nas_SLQSGetSysSelectionPref_t, 1249
pBandPref, 1253
pEmerMode, 1253
pGWAcqOrderPref, 1253
pLTEBandPref, 1253
pModePref, 1253
pNetSelPref, 1253
pPRLPref, 1253
pRoamPref, 1253
pSrvDomainPref, 1253
unpack_nas_SLQSGetSysSelectionPrefExt
nas.h, 1713
unpack_nas_SLQSGetSysSelectionPrefExt_t, 1253
pAcqOrderPref, 1255
pBandPref, 1255
pCiotAcqOrderPref, 1255
pCiotLteOpModePref, 1255
pEmerMode, 1255
pGWAcqOrderPref, 1255
pLTEBandPref, 1255
pLteM1BandPref, 1255
pLteNb1BandPref, 1255
pModePref, 1255
pNetSelPref, 1255
pNr5gBandPref, 1255
pPRLPref, 1255
pRatDisabledMask, 1256
pRoamPref, 1256
pSrvDomainPref, 1256
unpack_nas_SLQSInitiateNetworkRegistration
nas.h, 1714
unpack_nas_SLQSNASGeteDRXParams
nas.h, 1715
unpack_nas_SLQSNASGeteDRXParams_t, 1258
pCycleLen, 1259
pEdrxEnable, 1259
unpack_nas_SLQSNASSeteDRXParams
nas.h, 1718
unpack_nas_SLQSNASSwiGetChannelLock
nas.h, 1718
unpack_nas_SLQSNASSwiGetChannelLock_t, 1264
unpack_nas_SLQSNASSwiSetChannelLock
nas.h, 1720
unpack_nas_SLQSNasConfigSigInfo2
nas.h, 1714
unpack_nas_SLQSNasGet3GPP2Subscription
nas.h, 1714
unpack_nas_SLQSNasGet3GPP2Subscription_t, 1256
pDirNum, 1257
unpack_nas_SLQSNasGetCellLocationInfo
nas.h, 1715
unpack_nas_SLQSNasGetCellLocationInfo_t, 1257
pCDMAInfo, 1258
pLTEInfoInterfreq, 1258
pLTEInfoIntrafreq, 1258
pUMTSInfo, 1258
unpack_nas_SLQSNasGetHDRColorCode
nas.h, 1716
unpack_nas_SLQSNasGetHDRColorCode_t, 1259
pColorCode, 1259
unpack_nas_SLQSNasGetRFInfo
nas.h, 1716
unpack_nas_SLQSNasGetRFInfo_t, 1259
pLTEOperationMode, 1260
pRfBandInfoExtFormat, 1260
pRfBandwidthInfo, 1260
pRfDedicatedBandInfo, 1260
rfbandInfoList, 1260
Tlvresult, 1260
unpack_nas_SLQSNasGetSigInfo
nas.h, 1716
unpack_nas_SLQSNasGetSigInfo_t, 1260
CDMASSInfo, 1261
GSMSSInfo, 1261
HDRSSInfo, 1261
LTESSInfo, 1261
unpack_nas_SLQSNasGetTxRxInfo
nas.h, 1717
unpack_nas_SLQSNasGetTxRxInfo_t, 1261
pRXChain0Info, 1262
pRXChain1Info, 1262
pTXInfo, 1262
unpack_nas_SLQSNasIndicationRegisterExt
nas.h, 1717
unpack_nas_SLQSNasNetworkTimeCallBack_ind
nas.h, 1717

unpack_nas_SLQSNasNetworkTimeCallBack_ind_t, 1262
pDayltSavAdj, 1263
pRadioInterface, 1263
pTimeZone, 1263
universalTime, 1263
unpack_nas_SLQSNasSigInfoCallback_ind
nas.h, 1718
unpack_nas_SLQSNasSigInfoCallback_ind_t, 1263
pRscp, 1264
unpack_nas_SLQSNasSwiIndicationRegister
nas.h, 1719
unpack_nas_SLQSNasSwiModemStatus
nas.h, 1719
unpack_nas_SLQSNasSwiModemStatus_t, 1265
commonInfo, 1265
pLTEInfo, 1265
unpack_nas_SLQSNasSwiOTAMessageCallback_ind
nas.h, 1719
unpack_nas_SLQSNasSwiOTAMessageCallback_ind_-t, 1265
Info, 1266
Tlvresult, 1266
unpack_nas_SLQSNasSysInfoCallback_ind
nas.h, 1720
unpack_nas_SLQSNasTimerCallback_ind
nas.h, 1720
unpack_nas_SLQSNasTimerCallback_ind_t, 1266
t3396_apn, 1266
t3396_plmn_id, 1266
t3396_val, 1266
unpack_nas_SLQSSetBandPreference
nas.h, 1721
unpack_nas_SLQSSetSignalStrengthsCallback
nas.h, 1721
unpack_nas_SLQSSetSysSelectionPref
nas.h, 1721
unpack_nas_SLQSSetSysSelectionPrefCallBack_ind
nas.h, 1722
unpack_nas_SLQSSetSysSelectionPrefCallBack_ind_t, 1267
Info, 1267
Tlvresult, 1267
unpack_nas_SLQSSetSysSelectionPrefExt
nas.h, 1722
unpack_nas_SLQSSwiGetHDRPersonality
nas.h, 1722
unpack_nas_SLQSSwiGetHDRPersonality_t, 1267
pCurrentPersonality, 1268
pPersonalityListLength, 1268
pProtocolSubtypeElement, 1268
unpack_nas_SLQSSwiGetHDRProtSubtype
nas.h, 1723
unpack_nas_SLQSSwiGetHDRProtSubtype_t, 1268
pAppSubType, 1268
pCurrentPrsnlty, 1268
pPersonalityListLength, 1268
unpack_nas_SLQSSwiGetHRPDStats
nas.h, 1723
unpack_nas_SLQSSwiGetHRPDStats_t, 1269
pPilotSetData, 1269
pUATI, 1269
unpack_nas_SLQSSwiGetLteCQI
nas.h, 1723
unpack_nas_SLQSSwiGetLteCQI_t, 1269
ValidityCW0, 1270
ValidityCW1, 1270
unpack_nas_SLQSSwiGetLteSccRxInfo
nas.h, 1724
unpack_nas_SLQSSwiGetLteSccRxInfo_t, 1270
pSccRxInfo, 1270
unpack_nas_SLQSSwiHDRPersonalityCallback_Ind
nas.h, 1724
unpack_nas_SLQSSwiHDRPersonalityCallback_Ind_t, 1271
unpack_nas_SLQSSwiNetworkDebug
nas.h, 1724
unpack_nas_SLQSSwiNetworkDebug_t, 1271
pDataStatusDetail, 1272
pDeviceConfigDetail, 1272
pNetworkStat1x, 1272
pNetworkStatEVDO, 1272
pObjectVer, 1272
unpack_nas_SLQSSwiPSDetach
nas.h, 1725
unpack_nas_SLQSSwiRandIndicatorCallback_Ind
nas.h, 1725
unpack_nas_SLQSSwiRandIndicatorCallback_Ind_t, 1272
rankIndicatorTlv, 1272
unpack_nas_SLQSSysInfoCallback_ind_t, 1272
pGSMSysInfo, 1275
pHDRSysInfo, 1275
pLTESysInfo, 1275
pSysInfoNoChange, 1275
unpack_nas_SetACCOLC
nas.h, 1706
unpack_nas_SetCDMANetworkParameters
nas.h, 1707
unpack_nas_SetDataCapabilitiesCallback_ind
nas.h, 1707
unpack_nas_SetDataCapabilitiesCallback_ind_t, 1230
dataCaps, 1230
dataCapsSize, 1230
unpack_nas_SetEventReportInd
nas.h, 1707
unpack_nas_SetEventReportInd_t, 1230
RFTlv, 1231
RRTlv, 1231
SLQSSSTlv, 1231
SSTlv, 1231
unpack_nas_SetLURejectCallback
nas.h, 1708
unpack_nas_SetNasLTECphyCaIndCallback_ind
nas.h, 1708

unpack_nas_SetNasLTECphyCaIndCallback_ind_t, 1231
unpack_nas_SetNetworkPreference
nas.h, 1708
unpack_nas_SetNetworkPreference_t, 1232
Tlvresult, 1232
unpack_nas_SetRFInfoCallback
nas.h, 1709
unpack_nas_SetRoamingIndicatorCallback_ind
nas.h, 1709
unpack_nas_SetRoamingIndicatorCallback_ind_t, 1232
roaming, 1232
unpack_nas_SetServingSystemCallback_ind
nas.h, 1709
unpack_nas_SetServingSystemCallback_ind_t, 1233
SSInfo, 1233
Tlvresult, 1233
unpack_nas_SlqsGetLTECphyCAInfo
nas.h, 1710
unpack_nas_SlqsGetLTECphyCAInfo_t, 1234
LTECphyCaInfo, 1235
Tlvresult, 1235
unpack_omaDmConfigTlv_t, 1275
alertmsg, 1276
alertmsglength, 1276
state, 1276
userInputReq, 1276
userInputTimeout, 1276
unpack_omaDmFotaTlv_t, 1276
description, 1278
descriptionlength, 1278
fwdloadsize, 1278
fwloadComplete, 1278
namelength, 1278
package_name, 1278
sessionType, 1278
severity, 1278
state, 1278
updateCompleteStatus, 1278
userInputReq, 1278
userInputTimeout, 1278
version, 1278
versionlength, 1278
unpack_omaDmNotificationsTlv_t, 1278
notification, 1279
sessionStatus, 1279
unpack_pds_ForceXTRADownload
pds.h, 1739
unpack_pds_GetPDSDefaults
pds.h, 1739
unpack_pds_GetPDSDefaults_t, 1279
pAccuracy, 1280
pInterval, 1280
pOperation, 1280
pTimeout, 1280
unpack_pds_GetPDSState
pds.h, 1739
unpack_pds_GetPDSState_t, 1280
pEnabledStatus, 1281
pTrackingStatus, 1281
unpack_pds_GetPortAutomaticTracking
pds.h, 1740
unpack_pds_GetPortAutomaticTracking_t, 1281
pbAuto, 1281
unpack_pds_GetServiceAutomaticTracking
pds.h, 1740
unpack_pds_GetServiceAutomaticTracking_t, 1281
pbAuto, 1282
unpack_pds_GetXTRAAutomaticDownload
pds.h, 1740
unpack_pds_GetXTRAAutomaticDownload_t, 1282
pInterval, 1282
pbEnabled, 1282
unpack_pds_GetXTRANetwork
pds.h, 1741
unpack_pds_GetXTRANetwork_t, 1282
pPreference, 1283
unpack_pds_GetXTRAValidity
pds.h, 1741
unpack_pds_GetXTRAValidity_t, 1283
pDuration, 1283
pGPSWeek, 1283
pGPSWeekOffset, 1283
unpack_pds_PDSInjectTimeReference
pds.h, 1742
unpack_pds_ResetPDSData
pds.h, 1742
unpack_pds_SLQSGetAGPSConfig
pds.h, 1745
unpack_pds_SLQSGetAGPSConfig_t, 1286
pServerAddress, 1287
pServerPort, 1287
pServerURL, 1287
unpack_pds_SLQSGetGPSStateInfo
pds.h, 1745
unpack_pds_SLQSGetGPSStateInfo_t, 1287
Altitude, 1290
EngineState, 1290
HorizontalUncertainty, 1290
Iono_valid, 1290
Latitude, 1290
Longitude, 1290
Time_uncert_ms, 1290
ValidMask, 1290
VerticalUncertainty, 1291
unpack_pds_SLQSPDSDeterminePosition
pds.h, 1746
unpack_pds_SLQSPDSInjectAbsoluteTimeReference
pds.h, 1746
unpack_pds_SLQSPDSInjectPositionData
pds.h, 1746
unpack_pds_SLQSSetAGPSConfig
pds.h, 1747
unpack_pds_SLQSSetPositionMethodState
pds.h, 1747
unpack_pds_SetEventReport_Ind

pds.h, 1742
unpack_pds_SetEventReport_Ind_t, 1283
dLatitude, 1285
dLongitude, 1285
has_PositionDataNMEA, 1285
has_SessionStatus, 1285
has_dLatitude, 1285
has_dLongitude, 1285
has_posSrc, 1285
posSrc, 1285
PositionDataNMEA, 1285
SessionStatus, 1285
unpack_pds_SetEventReportCallback
pds.h, 1743
unpack_pds_SetPDSDefaults
pds.h, 1743
unpack_pds_SetPDSState
pds.h, 1743
unpack_pds_SetPdsState_Ind
pds.h, 1743
unpack_pds_SetPdsState_Ind_t, 1285
EnabledStatus, 1286
TlvPresent, 1286
TrackingStatus, 1286
unpack_pds_SetPortAutomaticTracking
pds.h, 1744
unpack_pds_SetServiceAutomaticTracking
pds.h, 1744
unpack_pds_SetXTRAAutomaticDownload
pds.h, 1744
unpack_pds_SetXTRANetwork
pds.h, 1745
unpack_pds_StartPDSTrackingSessionExt
pds.h, 1747
unpack_pds_StopPDSTrackingSession
pds.h, 1748
unpack_qmi_t, 1291
msgid, 1291
type, 1291
xid, 1291
unpack_qos_BindDataPort
qos.h, 2197
unpack_qos_IPv4Addr_t, 1292
addr, 1292
subnetMask, 1292
unpack_qos_IPv6Addr_t, 1292
addr, 1292
prefixLen, 1293
unpack_qos_IPv6TrafCls_t, 1293
mask, 1293
val, 1293
unpack_qos_Port_t, 1294
port, 1294
range, 1294
unpack_qos_QosFlowInfo_t, 1294
BearerID, 1295
is_RxQFlowGranted_Available, 1295
is_TxQFlowGranted_Available, 1295
NumRxFilters, 1295
NumTxFilters, 1295
QFlowState, 1295
RxQFilter, 1295
RxQFlowGranted, 1295
TxQFilter, 1295
TxQFlowGranted, 1295
unpack_qos_QosFlowInfoState_t, 1296
id, 1296
isNewFlow, 1296
state, 1296
unpack_qos_SLQSQosGetNetworkStatus
qos.h, 2197
unpack_qos_SLQSQosGetNetworkStatus_t, 1296
NWQoSStatus, 1297
unpack_qos_SLQSQosSwiReadApnExtraParams
qos.h, 2198
unpack_qos_SLQSQosSwiReadApnExtraParams_t, 1297
ambr_dl, 1297
ambr_dl_ext, 1298
ambr_dl_ext2, 1298
ambr_ul, 1298
ambr_ul_ext, 1298
ambr_ul_ext2, 1298
apnId, 1298
unpack_qos_SLQSQosSwiReadDataStats
qos.h, 2198
unpack_qos_SLQSQosSwiReadDataStats_t, 1298
apnId, 1299
numQosFlow, 1299
qosFlow, 1299
total_rx_bytes, 1299
total_rx_pkt, 1299
total_tx_bytes, 1299
total_tx_pkt, 1299
unpack_qos_SLQSSetQosEventCallback
qos.h, 2199
unpack_qos_SLQSSetQosEventCallback_ind
qos.h, 2199
unpack_qos_SLQSSetQosEventCallback_ind_t, 1299
NumFlows, 1300
QosFlowInfo, 1300
unpack_qos_SLQSSetQosNWStatusCallback_ind
qos.h, 2200
unpack_qos_SLQSSetQosNWStatusCallback_ind_t, 1300
status, 1300
unpack_qos_SLQSSetQosPriEventCallback_ind
qos.h, 2200
unpack_qos_SLQSSetQosPriEventCallback_ind_t, 1300
event, 1300
unpack_qos_SLQSSetQosStatusCallback_ind
qos.h, 2201
unpack_qos_SLQSSetQosStatusCallback_ind_t, 1301
event, 1302
id, 1302

reason, 1302
status, 1302
unpack_qos_Tos_t, 1310
mask, 1311
val, 1311
unpack_qos_dataRate_t, 1291
dataRateMax, 1292
guaranteedRate, 1292
unpack_qos_pktErrRate_t, 1293
exponent, 1293
multiplier, 1293
unpack_qos_swiQosFilter_t, 1302
EspSpi, 1304
IPv4DstAddr, 1304
IPv4SrcAddr, 1304
IPv4Tos, 1304
IPv6DstAddr, 1304
IPv6Label, 1305
IPv6SrcAddr, 1305
IPv6TrafCls, 1305
Id, 1304
index, 1304
is_EspSpi_Available, 1305
is_IPv4DstAddr_Available, 1305
is_IPv4SrcAddr_Available, 1305
is_IPv4Tos_Available, 1305
is_IPv6DstAddr_Available, 1305
is_IPv6Label_Available, 1305
is_IPv6SrcAddr_Available, 1305
is_IPv6TrafCls_Available, 1305
is_Id_Available, 1305
is_NxtHdrProto_Available, 1305
is_Precedence_Available, 1305
is_TCPDstPort_Available, 1305
is_TCPSrcPort_Available, 1305
is_TranDstPort_Available, 1305
is_TranSrcPort_Available, 1305
is_UDPDstPort_Available, 1305
is_UDPSrcPort_Available, 1305
NxtHdrProto, 1305
Precedence, 1305
TCPDstPort, 1305
TCPSrcPort, 1305
TranDstPort, 1305
TranSrcPort, 1305
UDPDstPort, 1305
UDPSrcPort, 1305
version, 1306
unpack_qos_swiQosFlow_t, 1306
DataRate, 1308
index, 1308
is_DataRate_Available, 1308
is_Jitter_Available, 1309
is_Latency_Available, 1309
is_LteQci_Available, 1309
is_MaxAllowedPktSz_Available, 1309
is_MinPolicedPktSz_Available, 1309
is_PktErrRate_Available, 1309
is_ProfileId3GPP2_Available, 1309
is_TokenBucket_Available, 1309
is_TrafficClass_Available, 1309
is_val_3GPP2Pri_Available, 1309
is_val_3GPPImCn_Available, 1309
is_val_3GPPSigInd_Available, 1309
Jitter, 1309
Latency, 1309
LteQci, 1309
MaxAllowedPktSz, 1309
MinPolicedPktSz, 1309
PktErrRate, 1309
ProfileId3GPP2, 1309
TokenBucket, 1309
TrafficClass, 1309
val_3GPP2Pri, 1309
val_3GPPImCn, 1309
val_3GPPResResidualBER, 1309
val_3GPPSigInd, 1309
val_3GPPTraHdlPri, 1309
unpack_qos_tokenBucket_t, 1310
bucketSz, 1310
peakRate, 1310
tokenRate, 1310
unpack_result_code_only
common.h, 1591
unpack_result_t, 1311
ParamPresenceMask, 1312
Tlvresult, 1312
unpack_rms_GetSMSWake
rms.h, 2203
unpack_rms_GetSMSWake_t, 1312
enabled, 1312
wake_mask, 1312
unpack_rms_SetSMSWake
rms.h, 2203
unpack_sar_SLQSGetRfSarState
sar.h, 2205
unpack_sar_SLQSGetRfSarState_t, 1313
pSarRFState, 1314
unpack_sar_SLQSSetRfSarState
sar.h, 2205
unpack_sms_GetSMSCAddress
sms.h, 2218
unpack_sms_GetSMSCAddress_t, 1314
addressSize, 1315
pSMSCAddress, 1315
pSMSCType, 1315
typeSize, 1315
unpack_sms_SLQSDeleteSMS
sms.h, 2220
unpack_sms_SLQSDeleteSMS_t, 1317
unpack_sms_SLQSGetIndicationRegister
sms.h, 2220
unpack_sms_SLQSGetIndicationRegister_t, 1317
pGetIndicationRegInfo, 1318
unpack_sms_SLQSGetMessageWaiting
sms.h, 2220

unpack_sms_SLQSGetMessageWaiting_t, 1318
pGetMsgWaitingInfoResp, 1318
unpack_sms_SLQSGetSMS
sms.h, 2221
unpack_sms_SLQSGetSMS_t, 1318
message, 1319
messageFormat, 1319
messageSize, 1319
messageTag, 1319
unpack_sms_SLQSGetSMSList
sms.h, 2221
unpack_sms_SLQSGetSMSList_t, 1320
messageList, 1320
messageListSize, 1320
unpack_sms_SLQSGetSmsBroadcastConfig
sms.h, 2221
unpack_sms_SLQSGetSmsBroadcastConfig_t, 1319
pBroadcastConfig, 1320
pCDMABroadcastConfig, 1320
unpack_sms_SLQSGetTransLayerInfo
sms.h, 2222
unpack_sms_SLQSGetTransLayerInfo_t, 1320
pGetTransLayerInfo, 1321
unpack_sms_SLQSGetTransNWRegInfo
sms.h, 2222
unpack_sms_SLQSGetTransNWRegInfo_t, 1321
unpack_sms_SLQSModifySMSStatus
sms.h, 2222
unpack_sms_SLQSModifySMSStatus_t, 1321
unpack_sms_SLQSNWRegInfoCallback_ind
sms.h, 2223
unpack_sms_SLQSNWRegInfoCallback_ind_t, 1321
NWRegStat, 1322
unpack_sms_SLQSSendAsyncSMS
sms.h, 2223
unpack_sms_SLQSSetIndicationRegister
sms.h, 2223
unpack_sms_SLQSSetSmsBroadcastActivation
sms.h, 2224
unpack_sms_SLQSSetSmsBroadcastConfig
sms.h, 2224
unpack_sms_SLQSSetSmsStorage
sms.h, 2224
unpack_sms_SLQSSmsGetMaxStorageSize
sms.h, 2225
unpack_sms_SLQSSmsGetMaxStorageSize_t, 1322
pMaxStorageSizeResp, 1322
unpack_sms_SLQSSmsGetMessageProtocol
sms.h, 2225
unpack_sms_SLQSSmsGetMessageProtocol_t, 1322
pMessageProtocol, 1323
unpack_sms_SLQSSmsSetRoutes
sms.h, 2225
unpack_sms_SLQSSwiGetSMSStorage
sms.h, 2226
unpack_sms_SLQSSwiGetSMSStorage_t, 1323
pSmsStorage, 1323
unpack_sms_SLQSTransLayerInfoCallback_ind
sms.h, 2226
unpack_sms_SLQSTransLayerInfoCallback_ind_t, 1323
pTransLayerInfo, 1324
regInd, 1324
unpack_sms_SLQSWmsAsyncRawSendCallBack_ind
sms.h, 2226
unpack_sms_SLQSWmsAsyncRawSendCallBack_ind_t, 1324
causeCode, 1325
errorClass, 1325
messageID, 1325
RPCause, 1326
sendStatus, 1326
TPCause, 1326
userData, 1326
unpack_sms_SLQSWmsMemoryFullCallBack_ind
sms.h, 2227
unpack_sms_SLQSWmsMemoryFullCallBack_ind_t, 1326
messageMode, 1326
storageType, 1326
unpack_sms_SLQSWmsMessageWaitingCallBack_ind
sms.h, 2227
unpack_sms_SLQSWmsMessageWaitingCallBack_ind_t, 1326
msgWaitInfo, 1327
numInstances, 1327
unpack_sms_SaveSMS
sms.h, 2218
unpack_sms_SaveSMS_t, 1315
pMessageIndex, 1315
unpack_sms_SendSMS
sms.h, 2218
unpack_sms_SendSMS_t, 1315
messageFailureCode, 1315
messageID, 1316
unpack_sms_SetNewSMSCallback
sms.h, 2219
unpack_sms_SetNewSMSCallback_ind
sms.h, 2219
unpack_sms_SetNewSMSCallback_ind_t, 1316
ETWSTlv, 1317
IMSTlv, 1317
MMTlv, 1317
NewMMTlv, 1317
SMSCTlv, 1317
TRMessageTlv, 1317
unpack_sms_SetNewSMSCallback_t, 1317
unpack_sms_SetSMSCAddress
sms.h, 2219
unpack_swidms_SLQSSwiDmsGetMTU
swidms.h, 2231
unpack_swidms_SLQSSwiDmsGetMTU_t, 1327
pMTUSize3gpp, 1327
unpack_swidms_SLQSSwiDmsGetUsbNetNum
swidms.h, 2231
unpack_swidms_SLQSSwiDmsGetUsbNetNum_t, 1328
usbNetNum, 1328

unpack_swidms_SLQSSwiDmsSetMTU
swidms.h, 2231
unpack_swidms_SLQSSwiDmsSetMTU_t, 1328
Tlvresult, 1328
unpack_swidms_SLQSSwiDmsSetUsbNetNum
swidms.h, 2232
unpack_swiloc_SwiLocGetAutoStart
swiloc.h, 2233
unpack_swiloc_SwiLocGetAutoStart_t, 1328
fix_rate, 1330
fix_rate_reported, 1330
fix_type, 1330
fix_type_reported, 1330
function, 1330
function_reported, 1330
max_dist, 1330
max_dist_reported, 1330
max_time, 1330
max_time_reported, 1330
ParamPresenceMask, 1330
unpack_swiloc_SwiLocSetAutoStart
swiloc.h, 2234
unpack_swiloc_SwiLocSetAutoStart_t
swiloc.h, 2233
unpack_swioma_SLQSOMADMAlertCallback
swioma.h, 2239
unpack_swioma_SLQSOMADMAlertCallback_ind
swioma.h, 2240
unpack_swioma_SLQSOMADMAlertCallback_ind_t, 1330
eventType, 1331
unpack_swioma_SLQSOMADMCancelSession
swioma.h, 2240
unpack_swioma_SLQSOMADMGetSessionInfo
swioma.h, 2241
unpack_swioma_SLQSOMADMGetSessionInfo_t, 1331
Date, 1333
DateLength, 1333
PkgDescLength, 1333
PkgDescription, 1333
PkgName, 1333
PkgNameLength, 1333
RetryCount, 1333
SessionState, 1333
SessionType, 1333
Severity, 1333
Source, 1333
SourceLength, 1333
Status, 1333
Time, 1334
TimeLength, 1334
UpdateCompleteStatus, 1334
unpack_swioma_SLQSOMADMGetSettings
swioma.h, 2241
unpack_swioma_SLQSOMADMGetSettings_t, 1334
Autosdm, 1335
FOTAdownload, 1335
FwAutoCheck, 1335
unpack_swioma_SLQSOMADMSendSelection
swioma.h, 2242
unpack_swioma_SLQSOMADMSetSettings
swioma.h, 2242
unpack_swioma_SLQSOMADMStartSession
swioma.h, 2242
unpack_swioma_SLQSOMADMStartSession_t, 1335
FwAvailability, 1336
unpack_uim_ChangePin
uim.h, 2254
unpack_uim_ChangePin_t, 1336
pEncryptedPIN1, 1336
pIndicationToken, 1336
pRemainingRetries, 1337
Tlvresult, 1337
unpack_uim_GetCardStatus
uim.h, 2254
unpack_uim_GetCardStatus_t, 1337
pCardStatus, 1337
pHotSwapStatus, 1337
Tlvresult, 1337
unpack_uim_ReadTransparent
uim.h, 2254
unpack_uim_ReadTransparent_t, 1337
pCardResult, 1338
pEncryptedData, 1338
pIndicationToken, 1338
pReadResult, 1338
Tlvresult, 1338
unpack_uim_SLQSUIMAuthenticate
uim.h, 2255
unpack_uim_SLQSUIMAuthenticate_t, 1340
pAuthenticateResult, 1340
pCardResult, 1340
pIndicationToken, 1340
unpack_uim_SLQSUIMDepersonalization
uim.h, 2256
unpack_uim_SLQSUIMDepersonalization_t, 1340
pRemainingRetries, 1341
unpack_uim_SLQSUIMEventRegister
uim.h, 2256
unpack_uim_SLQSUIMEventRegister_t, 1341
eventMask, 1341
unpack_uim_SLQSUIMGetConfiguration
uim.h, 2256
unpack_uim_SLQSUIMGetConfiguration_t, 1341
pAutoSelection, 1342
pHaltSubscription, 1342
pPersonalizationStatus, 1342
unpack_uim_SLQSUIMGetFileAttributes
uim.h, 2257
unpack_uim_SLQSUIMGetFileAttributes_t, 1342
pCardResult, 1343
pFileAttributes, 1343
pIndicationToken, 1343
unpack_uim_SLQSUIMGetSlotsStatus
uim.h, 2257
unpack_uim_SLQSUIMGetSlotsStatus_t, 1343

pNumberOfPhySlot, 1343
pUimSlotsStatus, 1343
unpack_uim_SLQSUIMPowerDown
uim.h, 2258
unpack_uim_SLQSUIMPowerUp
uim.h, 2258
unpack_uim_SLQSUIMRefreshCallback_Ind
uim.h, 2258
unpack_uim_SLQSUIMRefreshCallback_Ind_t, 1343
refreshEvent, 1344
TlvPresent, 1344
unpack_uim_SLQSUIMRefreshComplete
uim.h, 2259
unpack_uim_SLQSUIMRefreshGetLastEvent
uim.h, 2259
unpack_uim_SLQSUIMRefreshGetLastEvent_t, 1344
pRefreshEvent, 1344
unpack_uim_SLQSUIMRefreshOK
uim.h, 2259
unpack_uim_SLQSUIMRefreshRegister
uim.h, 2260
unpack_uim_SLQSUIMReset
uim.h, 2260
unpack_uim_SLQSUIMSetStatusChangeCallBack_ind
uim.h, 2260
unpack_uim_SLQSUIMSetStatusChangeCallBack_ind-_t, 1344
unpack_uim_SLQSUIMSwitchSlot
uim.h, 2261
unpack_uim_SetPinProtection
uim.h, 2255
unpack_uim_SetPinProtection_t, 1338
pEncryptedPIN1, 1339
pIndicationToken, 1339
pRemainingRetries, 1339
Tlvresult, 1339
unpack_uim_SetUimSlotStatusChangeCallback_ind
uim.h, 2255
unpack_uim_SetUimSlotStatusChangeCallback_ind_t, 1339
bNumberOfPhySlots, 1339
slotsstatusChange, 1340
unpack_uim_UnblockPin
uim.h, 2261
unpack_uim_UnblockPin_t, 1345
pEncryptedPIN1, 1345
pIndicationToken, 1345
pRemainingRetries, 1345
Tlvresult, 1345
unpack_uim_VerifyPin
uim.h, 2261
unpack_uim_VerifyPin_t, 1345
pEncryptedPIN1, 1346
pIndicationToken, 1346
pRemainingRetries, 1346
Tlvresult, 1346
unpack_valid_nas_GetCDMANetworkParameters
nas.h, 1725
unpack_valid_nas_SLQSGetServingSystem
nas.h, 1726
unpack_valid_nas_SLQSGetSignalStrength
nas.h, 1727
unpack_valid_nas_SLQSNasGetSigInfo
nas.h, 1727
unpack_voice_AnswerUSSD
voice.h, 2279
unpack_voice_CancelUSSD
voice.h, 2280
unpack_voice_DTMFEventCallback_ind
voice.h, 2280
unpack_voice_DTMFEventCallback_ind_t, 1349
DTMFInformation, 1350
pOffLength, 1350
pOnLength, 1350
unpack_voice_OTASPStatusCallback_ind
voice.h, 2281
unpack_voice_OTASPStatusCallback_ind_t, 1350
callID, 1351
OTASPStatus, 1351
unpack_voice_OriginateUSSD
voice.h, 2280
unpack_voice_SLQSOriginateUSSD
voice.h, 2281
unpack_voice_SLQSOriginateUSSD_t, 1351
pAlphaIDInfo, 1354
pCCSuppsType, 1354
pCallId, 1354
pCcResultType, 1354
pUSSDInfo, 1354
pfailureCause, 1354
unpack_voice_SLQSVoiceALSSelectLine
voice.h, 2281
unpack_voice_SLQSVoiceALSSetLineSwitching
voice.h, 2282
unpack_voice_SLQSVoiceAnswerCall
voice.h, 2282
unpack_voice_SLQSVoiceAnswerCall_t, 1354
pCallId, 1355
unpack_voice_SLQSVoiceBindSubscription
voice.h, 2282
unpack_voice_SLQSVoiceBurstDTMF
voice.h, 2283
unpack_voice_SLQSVoiceBurstDTMF_t, 1355
pCallID, 1355
unpack_voice_SLQSVoiceDialCall
voice.h, 2283
unpack_voice_SLQSVoiceDialCall_t, 1355
pAlphaIDInfo, 1356
pCCResultType, 1356
pCCSUPSType, 1356
pCallID, 1356
unpack_voice_SLQSVoiceEndCall
voice.h, 2283
unpack_voice_SLQSVoiceEndCall_t, 1356
pCallId, 1357
unpack_voice_SLQSVoiceGetAllCallInfo

voice.h, 2284
unpack_voice_SLQSVoiceGetAllCallInfo_t, 1357
pArrAlertingPattern, 1359
pArrAlertingType, 1359
pArrAlphaID, 1359
pArrCallEndReason, 1359
pArrCallInfo, 1359
pArrCalledPartyNum, 1359
pArrConnectPartyNum, 1359
pArrDiagInfo, 1359
pArrRedirPartyNum, 1359
pArrRemotePartyName, 1359
pArrRemotePartyNum, 1359
pArrSvcOption, 1359
pArrUUSInfo, 1359
pVoicePrivacy, 1359
unpack_voice_SLQSVoiceGetCLIP
voice.h, 2286
unpack_voice_SLQSVoiceGetCLIP_t, 1367
pAlphaIDInfo, 1368
pCCResType, 1368
pCallID, 1368
pFailCause, 1368
unpack_voice_SLQSVoiceGetCLIR
voice.h, 2286
unpack_voice_SLQSVoiceGetCLIR_t, 1368
pAlphaIDInfo, 1369
pCCResType, 1369
pCallID, 1369
pFailCause, 1370
unpack_voice_SLQSVoiceGetCNAP
voice.h, 2286
unpack_voice_SLQSVoiceGetCNAP_t, 1370
pAlphaIDInfo, 1371
pCCResType, 1371
pCallID, 1371
pFailCause, 1371
unpack_voice_SLQSVoiceGetCOLP
voice.h, 2287
unpack_voice_SLQSVoiceGetCOLP_t, 1371
pAlphaIDInfo, 1372
pCCResType, 1372
pCallID, 1372
pFailCause, 1372
unpack_voice_SLQSVoiceGetCOLR
voice.h, 2287
unpack_voice_SLQSVoiceGetCOLR_t, 1372
pAlphaIDInfo, 1374
pCCResType, 1374
pCallID, 1374
pFailCause, 1374
unpack_voice_SLQSVoiceGetCallBarring
voice.h, 2284
unpack_voice_SLQSVoiceGetCallBarring_t, 1359
pAlphaIDInfo, 1361
pCCResType, 1361
pCallID, 1361
pFailCause, 1361
pSvcClass, 1361
unpack_voice_SLQSVoiceGetCallForwardingStatus
voice.h, 2285
unpack_voice_SLQSVoiceGetCallForwardingStatus_t, 1361
pAlphaIDInfo, 1362
pCCResType, 1362
pCallID, 1362
pFailCause, 1362
unpack_voice_SLQSVoiceGetCallInfo
voice.h, 2285
unpack_voice_SLQSVoiceGetCallInfo_t, 1362
pAlertType, 1365
pAlertingPattern, 1365
pAlphaIDInfo, 1365
pCallInfo, 1365
pConnectNumInfo, 1365
pDiagInfo, 1365
pOTASPStatus, 1365
pRemotePartyName, 1365
pRemotePartyNum, 1365
pSrvOpt, 1365
pUUSInfo, 1365
pVoicePrivacy, 1365
unpack_voice_SLQSVoiceGetCallWaiting
voice.h, 2285
unpack_voice_SLQSVoiceGetCallWaiting_t, 1366
pAlphaIDInfo, 1367
pCCResType, 1367
pCallID, 1367
pFailCause, 1367
pSvcClass, 1367
unpack_voice_SLQSVoiceGetConfig
voice.h, 2287
unpack_voice_SLQSVoiceGetConfig_t, 1374
pAirTimerCnt, 1376
pAutoAnswerStat, 1376
pCurAMRConfig, 1376
pCurPrefVoiceSO, 1376
pCurVoiceDomainPref, 1376
pCurVoicePrivacyPref, 1376
pCurrTTYMode, 1376
pRoamTimerCnt, 1376
unpack_voice_SLQSVoiceIndicationRegister
voice.h, 2288
unpack_voice_SLQSVoiceManageCalls
voice.h, 2288
unpack_voice_SLQSVoiceManageCalls_t, 1376
pFailCause, 1376
unpack_voice_SLQSVoiceOrigUSSDNoWait
voice.h, 2288
unpack_voice_SLQSVoiceSUPSCallback_ind
voice.h, 2291
unpack_voice_SLQSVoiceSUPSCallback_ind_t, 1382
pDataSrc, 1384
pFailCause, 1384
pReason, 1384
pSvcClass, 1384

unpack_voice_SLQSVoiceSendFlash
voice.h, 2289
unpack_voice_SLQSVoiceSendFlash_t, 1376
pCallID, 1377
unpack_voice_SLQSVoiceSetCallBarringPassword
voice.h, 2289
unpack_voice_SLQSVoiceSetCallBarringPassword_t, 1377
pAlphaIDInfo, 1378
pCCResType, 1378
pCallID, 1378
pFailCause, 1378
unpack_voice_SLQSVoiceSetConfig
voice.h, 2289
unpack_voice_SLQSVoiceSetConfig_t, 1378
pAirTimerStatus, 1379
pAutoAnsStatus, 1379
pPrefVoiceSOStatus, 1379
pRoamTimerStatus, 1380
pTTYConfigStatus, 1380
pVoiceDomainPrefStatus, 1380
unpack_voice_SLQSVoiceSetPreferredPrivacy
voice.h, 2290
unpack_voice_SLQSVoiceSetSUPSService
voice.h, 2290
unpack_voice_SLQSVoiceSetSUPSService_t, 1380
pCallID, 1381
pFailCause, 1381
unpack_voice_SLQSVoiceStartContDTMF
voice.h, 2290
unpack_voice_SLQSVoiceStartContDTMF_t, 1381
pCallID, 1381
unpack_voice_SLQSVoiceStopContDTMF
voice.h, 2291
unpack_voice_SLQSVoiceStopContDTMF_t, 1381
callID, 1382
unpack_voice_SUPSNotificationCallback_ind
voice.h, 2291
unpack_voice_SUPSNotificationCallback_ind_t, 1384
callID, 1386
notifType, 1386
pCUGIndex, 1386
pECTNum, 1386
unpack_voice_USSDNotificationCallback_ind
voice.h, 2292
unpack_voice_USSDNotificationCallback_ind_t, 1386
notification_Type, 1386
unpack_voice_VoiceInfoRecCallback_ind
voice.h, 2292
unpack_voice_VoiceInfoRecCallback_ind_t, 1386
callID, 1388
pCLIRCause, 1388
pCallWaitInd, 1388
pCalledPartyInfo, 1388
pCallerIDInfo, 1388
pCallerNameInfo, 1388
pCallingPartyInfo, 1388
pConnectNumInfo, 1388
pDispInfo, 1388
pExtDispInfo, 1388
pExtDispRecInfo, 1388
pLineCtrlInfo, 1388
pNSSAudioCtrl, 1388
pNSSRelease, 1389
pRedirNumInfo, 1389
pSignalInfo, 1389
unpack_voice_allCallStatusCallback_ind
voice.h, 2279
unpack_voice_allCallStatusCallback_ind_t, 1346
arrCallInfomation, 1349
pArrAlertingPattern, 1349
pArrAlertingType, 1349
pArrAlphaID, 1349
pArrCallEndReason, 1349
pArrCalledPartyNum, 1349
pArrConnectPartyNum, 1349
pArrDiagInfo, 1349
pArrRedirPartyNum, 1349
pArrRemotePartyName, 1349
pArrRemotePartyNum, 1349
pArrSvcOption, 1349
unpack_voice_voicePrivacyChangeCallback_ind
voice.h, 2292
unpack_voice_voicePrivacyChangeCallback_ind_t, 1389
callID, 1389
voicePrivacy, 1389
unpack_wds_DHCPv4ClientLease_ind
wds.h, 2319
unpack_wds_DHCPv4ClientLease_ind_t, 1389
DHCPv4LeaseOptTlv, 1390
DHCPv4LeaseStateTlv, 1390
IPv4AddrTlv, 1390
ProfileIdTlv, 1390
unpack_wds_DHCPv4ClientLeaseChange
wds.h, 2320
unpack_wds_GetAutoconnect
wds.h, 2320
unpack_wds_GetAutoconnect_t, 1390
psetting, 1390
unpack_wds_GetByteTotals
wds.h, 2320
unpack_wds_GetByteTotals_t, 1390
pRXTotalBytes, 1391
pTXTotalBytes, 1391
unpack_wds_GetConnectionRate
wds.h, 2321
unpack_wds_GetConnectionRate_t, 1391
currentChannelRXRate, 1391
currentChannelTXRate, 1391
maxChannelRXRate, 1391
maxChannelTXRate, 1391
unpack_wds_GetDataBearerTechnology
wds.h, 2321
unpack_wds_GetDataBearerTechnology_t, 1392
pDataBearer, 1392

unpack_wds_GetDefaultProfile
wds.h, 2321
unpack_wds_GetDefaultProfile_t, 1392
apnname, 1394
apnsize, 1394
auth, 1394
ipaddr, 1394
ipaddrv6, 1394
name, 1394
namesize, 1394
pdptype, 1395
pridns, 1395
pridnsv6, 1395
secdns, 1395
secdnsv6, 1395
username, 1395
usersize, 1395
unpack_wds_GetDefaultProfileNum
wds.h, 2322
unpack_wds_GetDefaultProfileNum_t, 1395
index, 1395
unpack_wds_GetDormancyState
wds.h, 2322
unpack_wds_GetDormancyState_t, 1395
dormancyState, 1396
unpack_wds_GetLastMobileIPError
wds.h, 2323
unpack_wds_GetLastMobileIPError_t, 1396
error, 1396
unpack_wds_GetMobileIP
wds.h, 2323
unpack_wds_GetMobileIP_t, 1396
mipMode, 1396
unpack_wds_GetMobileIPProfile
wds.h, 2323
unpack_wds_GetMobileIPProfile_t, 1397
AAASPI, 1398
AAAState, 1398
address, 1398
enabled, 1398
HASPI, 1398
HAState, 1398
NAI, 1398
naiSize, 1398
primaryHA, 1398
revTunneling, 1398
secondaryHA, 1398
unpack_wds_GetPacketStatistics
wds.h, 2324
unpack_wds_GetPacketStatistics_t, 1398
pRXDroppedCount, 1400
pRXOKBytesLastCall, 1400
pRXOkBytesCount, 1400
pRXPacketErrors, 1400
pRXPacketOverflows, 1400
pRXPacketSuccesses, 1400
pTXDroppedCount, 1400
pTXOKBytesLastCall, 1400
pTXOkBytesCount, 1400
pTXPacketErrors, 1400
pTXPacketOverflows, 1400
pTXPacketSuccesses, 1400
unpack_wds_GetPacketStatus
wds.h, 2324
unpack_wds_GetPacketStatus_t, 1400
rXDroppedCount, 1402
rXOKBytesLastCall, 1402
rXOkBytesCount, 1402
rXPacketErrors, 1402
rXPacketOverflows, 1402
rXPacketSuccesses, 1402
tXDroppedCount, 1402
tXOKBytesLastCall, 1402
tXOkBytesCount, 1402
tXPacketErrors, 1402
tXPacketOverflows, 1402
tXPacketSuccesses, 1402
unpack_wds_GetSessionDuration
wds.h, 2324
unpack_wds_GetSessionDuration_t, 1402
callDuration, 1403
unpack_wds_GetSessionState
wds.h, 2325
unpack_wds_GetSessionState_t, 1403
connectionStatus, 1403
unpack_wds_RMSetTransferStatistics
wds.h, 2325
unpack_wds_RMSetTransferStatistics_t, 1403
unpack_wds_RMTransferStatistics_ind
wds.h, 2325
unpack_wds_SLQSCreateProfile
wds.h, 2328
unpack_wds_SLQSCreateProfile_t, 1404
pCreateProfileOut, 1404
pProfileID, 1404
Tlvresult, 1404
unpack_wds_SLQSDUNCallInfoCallBack_ind
wds.h, 2329
unpack_wds_SLQSDUNCallInfoCallBack_ind_t, 1405
unpack_wds_SLQSDeleteProfile
wds.h, 2328
unpack_wds_SLQSDeleteProfile_t, 1404
extendedErrorCode, 1405
unpack_wds_SLQSGet3GPPConfigItem
wds.h, 2329
unpack_wds_SLQSGet3GPPConfigItem_t, 1406
_3gppRelease, 1407
defaultPDNEnabled, 1407
LTEAttachProfile, 1407
profileList, 1408
unpack_wds_SLQSGetCurrDataSystemStat
wds.h, 2329
unpack_wds_SLQSGetCurrDataSystemStat_t, 1408
currNetworkInfo, 1408
networkInfoLen, 1408
prefNetwork, 1408

unpack_wds_SLQSGetCurrentChannelRate
wds.h, 2330
unpack_wds_SLQSGetCurrentChannelRate_t, 1408
max_channel_rx_rate, 1409
max_channel_tx_rate, 1409
unpack_wds_SLQSGetDUNCallInfo
wds.h, 2330
unpack_wds_SLQSGetDUNCallInfo_t, 1410
callEndReason, 1412
channelRate, 1412
connectionStatus, 1412
dataBearerTech, 1412
dormancyStatus, 1413
lastCallDataBearerTech, 1413
mdmCallDurationActive, 1413
rxOKBytesCount, 1413
txOKBytesCount, 1413
unpack_wds_SLQSGetDataBearerTechnology
wds.h, 2330
unpack_wds_SLQSGetDataBearerTechnology_t, 1409
curDataBearerTechnology, 1410
dataBearerMask, 1410
lastCallDataBearerTechnology, 1410
unpack_wds_SLQSGetProfileSettings
wds.h, 2331
unpack_wds_SLQSGetProfileSettings_t, 1413
pProfileSettings, 1413
ProfileType, 1413
Tlvresult, 1413
unpack_wds_SLQSGetRuntimeSettings
wds.h, 2331
unpack_wds_SLQSGetRuntimeSettings_t, 1413
APNName, 1415
Authentication, 1415
DomainList, 1415
GPRSGrantedQoS, 1415
GWAddressV4, 1416
IMCNflag, 1416
IPFamilyPreference, 1416
IPV6AddrInfo, 1416
IPV6GWAddrInfo, 1416
IPv4, 1416
Mtu, 1416
PDPType, 1416
PrimaryDNSV4, 1416
PrimaryDNSV6, 1416
ProfileID, 1416
ProfileName, 1416
SecondaryDNSV4, 1416
SecondaryDNSV6, 1416
ServerAddrList, 1416
SubnetMaskV4, 1416
Technology, 1416
UMTSGrantedQoS, 1416
Username, 1416
unpack_wds_SLQSModifyProfile
wds.h, 2331
unpack_wds_SLQSModifyProfile_t, 1416
pExtErrorCode, 1417
unpack_wds_SLQSResetPacketStatics
wds.h, 2332
unpack_wds_SLQSSGetDHCPv4ClientConfig
wds.h, 2333
unpack_wds_SLQSSGetDHCPv4ClientConfig_t, 1421
pHwConfig, 1421
unpack_wds_SLQSSGetLoopback
wds.h, 2334
unpack_wds_SLQSSGetLoopback_t, 1421
ByteLoopbackMode, 1422
ByteLoopbackMultiplier, 1422
unpack_wds_SLQSSSetDHCPv4ClientConfig
wds.h, 2334
unpack_wds_SLQSSSetLoopback
wds.h, 2334
unpack_wds_SLQSSet3GPPConfigItem
wds.h, 2332
unpack_wds_SLQSSetIPFamilyPreference
wds.h, 2332
unpack_wds_SLQSSetIPFamilyPreference_t, 1417
Tlvresult, 1417
unpack_wds_SLQSSetPacketSrvStatusCallback
wds.h, 2332
unpack_wds_SLQSSetPacketSrvStatusCallback_t, 1417
bearerID, 1419
conn_status, 1419
ipFamily, 1419
reconfigReqd, 1419
sessionEndReason, 1419
techName, 1419
verboseSessnEndReason, 1419
verboseSessnEndReasonType, 1419
unpack_wds_SLQSSetWdsEventCallback
wds.h, 2333
unpack_wds_SLQSSetWdsEventCallback_ind
wds.h, 2333
unpack_wds_SLQSSetWdsEventCallback_ind_t, 1419
currDBTechAvail, 1420
currNWInfo, 1420
dBTechAvail, 1420
dBTechnology, 1420
dBtechExtAvail, 1420
dBtechnologyExt, 1420
dataSysStatAvail, 1420
dormancyStatAvail, 1420
dormancyStatus, 1420
mipStatus, 1420
mipstatAvail, 1420
netInfoLen, 1421
prefNetwork, 1421
ratMask, 1421
rx_bytes, 1421
rx_pkts, 1421
soMask, 1421
tx_bytes, 1421
tx_pkts, 1421

xferStatAvail, 1421
unpack_wds_SLQSStartDataSession
wds.h, 2335
unpack_wds_SLQSStartDataSession_t, 1422
pFailureReason, 1423
pVerboseFailReasonType, 1423
pVerboseFailureReason, 1423
psid, 1423
unpack_wds_SLQSStopDataSession
wds.h, 2335
unpack_wds_SLQSWdsGoActive
wds.h, 2335
unpack_wds_SLQSWdsGoDormant
wds.h, 2336
unpack_wds_SLQSWdsSetEventReport
wds.h, 2336
unpack_wds_SLQSWdsSwiPDPRuntimeSettings
wds.h, 2336
unpack_wds_SLQSWdsSwiPDPRuntimeSettings_t, 1423
apnName, 1425
bearerId, 1425
contextId, 1425
ipv4Address, 1425
ipv4GWAddress, 1425
ipv6Address, 1425
ipv6GWAddress, 1425
unpack_wds_SetAutoconnect
wds.h, 2326
unpack_wds_SetDefaultProfile
wds.h, 2326
unpack_wds_SetDefaultProfileNum
wds.h, 2326
unpack_wds_SetMobileIP
wds.h, 2327
unpack_wds_SetMobileIPParameters
wds.h, 2327
unpack_wds_SetMobileIPProfile
wds.h, 2327
unpack_wds_SetMobileIPProfile_t, 1403
unpack_wds_SetMuxID
wds.h, 2328
UnpackQmiProfileInfo
wds.h, 2299
unpackWdsProfileParam, 1426
SlqsProfile3GPP, 1426
SlqsProfile3GPP2, 1426
upLink
NSSAudioCtrl, 646
voice_NSSAudioCtrl, 1472
UpdateCompleteStatus
unpack_swioma_SLQSOMADMGetSessionInfo_t, 1334
updateCompleteStatus
omaDmFotaTlv, 652
unpack_omaDmFotaTlv_t, 1278
upgrade_9x07_9x50_fw
qaGobiApiFms.h, 1911
upgrade_mc77xx_fw
qaGobiApiFms.h, 1911
UpgradeFirmware2k
qaGobiApiFms.h, 1912
upinRetries
slotInf, 969
slotInfo, 971
uim_slotInfo, 1096
upinState
slotInf, 970
slotInfo, 971
uim_slotInfo, 1096
UpkQmiCbkCatEventReportInd
qaCbkCatEventReportInd.h, 1750
UpkQmiCbkSwiOmaDmEventReportInd
qaCbkSwiOmaDmEventReportInd.h, 1751
UpkQmiCbkSwiOmaDmEventReportIndExt
qaCbkSwiOmaDmEventReportInd.h, 1751
UpkQmiNasGetRFBandInfo
qaNasGetRFBandInfo.h, 2183
UpkQmiNasPerformNetworkScan
qaNasPerformNetworkScan.h, 2185
upukRetries
slotInf, 970
slotInfo, 971
uim_slotInfo, 1096
urlAddr, 1426
address, 1427
loc_URLAddrInfo, 408
TlvPresent, 1427
URLAddrInfo, 1427
usageMask
loc_sensorDataUsage, 405
sensorDataUsage_s, 933
t_sensor, 1053
UsbMTUSize
swidms_usbMTUSizeTlv, 1029
usbMTUSizeTlv, 1431
usbMTUSizeTlv, 1430
TlvPresent, 1431
UsbMTUSize, 1431
usbNetNum
SwiDmsSLQSGetUsbNetNum, 1030
unpack_swidms_SLQSSwiDmsGetUsbNetNum_t, 1328
User Identity Module Service (UIM), 56
userData
SMSAsyncRawSend_s, 1002
unpack_sms_SLQSWmsAsyncRawSendCallBack-_ind_t, 1326
userInputReq
omaDmConfigTlv, 648
omaDmConfigTlvExt, 650
omaDmFotaTlv, 652
unpack_omaDmConfigTlv_t, 1276
unpack_omaDmFotaTlv_t, 1278
userInputTimeout
omaDmConfigTlv, 648

omaDmConfigTlvExt, 650
omaDmFotaTlv, 652
omaDmFotaTlvExt, 654
unpack_omaDmConfigTlv_t, 1276
unpack_omaDmFotaTlv_t, 1278
Username
unpack_wds_SLQSGetRuntimeSettings_t, 1416
username
unpack_wds_GetDefaultProfile_t, 1395
usersize
unpack_wds_GetDefaultProfile_t, 1395
ussDCS
pack_voice_SLQSOriginateUSSD_t, 770
USSInfo, 1432
voice_USSInfo, 1482
ussData
pack_voice_SLQSOriginateUSSD_t, 770
USSInfo, 1432
voice_USSInfo, 1482
ussLen
pack_voice_SLQSOriginateUSSD_t, 770
USSInfo, 1432
voice_USSInfo, 1482
uusInfo
allCallsUUSInfo, 128
voice_allCallsUUSInfo, 1437

v4sessionId
qaQmiInterfaceInfo, 856
ssdatasession_params, 1022
WdsRunTimeSettings, 1581
v6sessionId
qaQmiInterfaceInfo, 856
ssdatasession_params, 1022
WdsRunTimeSettings, 1581
VOICE_SUPS_SRV_CLASS_DATA
qaGobiApiVoice.h, 2122
VOICE_SUPS_SRV_CLASS_DATACIRCUITASYNC
qaGobiApiVoice.h, 2122
VOICE_SUPS_SRV_CLASS_DATACIRCUITSYNC
qaGobiApiVoice.h, 2122
VOICE_SUPS_SRV_CLASS_FAX
qaGobiApiVoice.h, 2122
VOICE_SUPS_SRV_CLASS_NONE
qaGobiApiVoice.h, 2122
VOICE_SUPS_SRV_CLASS_PACKETACCESS
qaGobiApiVoice.h, 2122
VOICE_SUPS_SRV_CLASS_PADACCESS
qaGobiApiVoice.h, 2122
VOICE_SUPS_SRV_CLASS_SMS
qaGobiApiVoice.h, 2122
VOICE_SUPS_SRV_CLASS_VOICE
qaGobiApiVoice.h, 2122
VDOP
loc_precisionDilution, 402
precisionDilution_s, 834
VOICE_SRV
qaGobiApiCbk.h, 1766
val
IPv6TrafCls, 359
Tos, 1067
unpack_qos_IPv6TrafCls_t, 1293
unpack_qos_Tos_t, 1311
val_3GPP2Pri
unpack_qos_swiQosFlow_t, 1309
val_3GPPImCn
unpack_qos_swiQosFlow_t, 1309
val_3GPPResResidualBER
unpack_qos_swiQosFlow_t, 1309
val_3GPPSigInd
unpack_qos_swiQosFlow_t, 1309
val_3GPPTraHdlPri
unpack_qos_swiQosFlow_t, 1309
ValidMask
GPSStateInfo, 315
unpack_pds_SLQSGetGPSStateInfo_t, 1290
validMask
loc_satelliteInfo, 404
satelliteInfo, 928
ValidateSPC
qaGobiApiDms.h, 1891
ValidityCW0
LteCQIParm, 423
unpack_nas_SLQSSwiGetLteCQI_t, 1270
ValidityCW1
LteCQIParm, 423
unpack_nas_SLQSSwiGetLteCQI_t, 1270
Value
GetM2MSpkrGainResp, 303
SetM2MSpkrGainReq, 955
value
pack_dms_UIMSetPINProtection_t, 672
pack_dms_UIMVerifyPIN_t, 674
value_length
custSettingInfo, 223
DMScustSettingInfo, 248
pack_dms_SetCustFeaturesV2_t, 662
setCustomSettingV2, 945
verbFailReason
ssdatasession_params, 1022
verbFailReasonType
ssdatasession_params, 1022
verboseSessnEndReason
_packetSrvStatus, 74
unpack_wds_SLQSSetPacketSrvStatusCallback_-
t, 1419
verboseSessnEndReasonType
_packetSrvStatus, 74
unpack_wds_SLQSSetPacketSrvStatusCallback_-
t, 1419
verifyLeft
personalizationStatus, 821
remainingRetries, 905
uim_personalizationStatus, 1088
uim_remainingRetries, 1092
verifyPIN
pack_uim_VerifyPin_t, 769

UIMVerifyPinReq, 1120
verifyRetriesLeft
unpack_dms_UIMGetControlKeyStatus_t, 1181
unpack_dms_UIMSetControlKeyProtection_t, 1184
unpack_dms_UIMSetPINProtection_t, 1185
verifyUIMPIN, 1434
pinID, 1435
pinLen, 1435
pinVal, 1435
version
omaDmFotaTlv, 652
omaDmFotaTlvExt, 654
swiQosFilter, 1040
unpack_omaDmFotaTlv_t, 1278
unpack_qos_swiQosFilter_t, 1306
versionString
pack_dms_SLQSSwiSetOSInfo_t, 669
unpack_dms_SLQSSwiGetOSInfo_t, 1177
versionlength
omaDmFotaTlv, 652
omaDmFotaTlvExt, 654
unpack_omaDmFotaTlv_t, 1278
vertConfidence
pack_loc_SLQSLOCInjectPosition_t, 686
vertReliability
pack_loc_SLQSLOCInjectPosition_t, 686
vertUnc
pack_loc_SLQSLOCInjectPosition_t, 686
VerticalUncertainty
GPSStateInfo, 315
unpack_pds_SLQSGetGPSStateInfo_t, 1291
VirtStream
nas_protocolSubtypeElement, 545
protocolSubtypeElement, 851
Voice Service (VOICE), 54
voice.h
LITE_VOICE_SUPS_SRV_CLASS_DATA, 2267
LITE_VOICE_SUPS_SRV_CLASS_DATACIRCUITASYNC, 2267
LITE_VOICE_SUPS_SRV_CLASS_DATACIRCUITSYNC, 2267
LITE_VOICE_SUPS_SRV_CLASS_FAX, 2267
LITE_VOICE_SUPS_SRV_CLASS_NONE, 2267
LITE_VOICE_SUPS_SRV_CLASS_PACKETACCESS, 2267
LITE_VOICE_SUPS_SRV_CLASS_PADACCESS, 2267
LITE_VOICE_SUPS_SRV_CLASS_SMS, 2267
LITE_VOICE_SUPS_SRV_CLASS_VOICE, 2267
voice.h, 2262
liteServiceClassInformation, 2267
MAXVOICEUSSDLENGTH, 2267
pack_voice_AnswerUSSD, 2267
pack_voice_CancelUSSD, 2268
pack_voice_OriginateUSSD, 2268
pack_voice_SLQSOriginateUSSD, 2268
pack_voice_SLQSVoiceALSSelectLine, 2269
pack_voice_SLQSVoiceALSSetLineSwitching, 2269
pack_voice_SLQSVoiceAnswerCall, 2270
pack_voice_SLQSVoiceBindSubscription, 2270
pack_voice_SLQSVoiceBurstDTMF, 2270
pack_voice_SLQSVoiceDialCall, 2271
pack_voice_SLQSVoiceEndCall, 2271
pack_voice_SLQSVoiceGetAllCallInfo, 2271
pack_voice_SLQSVoiceGetCLIP, 2273
pack_voice_SLQSVoiceGetCLIR, 2274
pack_voice_SLQSVoiceGetCNAP, 2274
pack_voice_SLQSVoiceGetCOLP, 2274
pack_voice_SLQSVoiceGetCOLR, 2275
pack_voice_SLQSVoiceGetCallBarring, 2272
pack_voice_SLQSVoiceGetCallForwardingStatus, 2272
pack_voice_SLQSVoiceGetCallInfo, 2273
pack_voice_SLQSVoiceGetCallWaiting, 2273
pack_voice_SLQSVoiceGetConfig, 2275
pack_voice_SLQSVoiceIndicationRegister, 2275
pack_voice_SLQSVoiceManageCalls, 2276
pack_voice_SLQSVoiceOrigUSSDNoWait, 2276
pack_voice_SLQSVoiceSendFlash, 2276
pack_voice_SLQSVoiceSetCallBarringPassword, 2277
pack_voice_SLQSVoiceSetConfig, 2277
pack_voice_SLQSVoiceSetPreferredPrivacy, 2278
pack_voice_SLQSVoiceSetSUPSService, 2278
pack_voice_SLQSVoiceStartContDTMF, 2278
pack_voice_SLQSVoiceStopContDTMF, 2279
unpack_voice_AnswerUSSD, 2279
unpack_voice_CancelUSSD, 2280
unpack_voice_DTMFEventCallback_ind, 2280
unpack_voice_OTASPStatusCallback_ind, 2281
unpack_voice_OriginateUSSD, 2280
unpack_voice_SLQSOriginateUSSD, 2281
unpack_voice_SLQSVoiceALSSelectLine, 2281
unpack_voice_SLQSVoiceALSSetLineSwitching, 2282
unpack_voice_SLQSVoiceAnswerCall, 2282
unpack_voice_SLQSVoiceBindSubscription, 2282
unpack_voice_SLQSVoiceBurstDTMF, 2283
unpack_voice_SLQSVoiceDialCall, 2283
unpack_voice_SLQSVoiceEndCall, 2283
unpack_voice_SLQSVoiceGetAllCallInfo, 2284
unpack_voice_SLQSVoiceGetCLIP, 2286
unpack_voice_SLQSVoiceGetCLIR, 2286
unpack_voice_SLQSVoiceGetCNAP, 2286
unpack_voice_SLQSVoiceGetCOLP, 2287
unpack_voice_SLQSVoiceGetCOLR, 2287
unpack_voice_SLQSVoiceGetCallBarring, 2284
unpack_voice_SLQSVoiceGetCallForwardingStatus, 2285
unpack_voice_SLQSVoiceGetCallInfo, 2285
unpack_voice_SLQSVoiceGetCallWaiting, 2285
unpack_voice_SLQSVoiceGetConfig, 2287
unpack_voice_SLQSVoiceIndicationRegister, 2288
unpack_voice_SLQSVoiceManageCalls, 2288

unpack_voice_SLQSVoiceOrigUSSDNoWait, 2288
unpack_voice_SLQSVoiceSUPSCallback_ind, 2291
unpack_voice_SLQSVoiceSendFlash, 2289
unpack_voice_SLQSVoiceSetCallBarringPassword, 2289
unpack_voice_SLQSVoiceSetConfig, 2289
unpack_voice_SLQSVoiceSetPreferredPrivacy, 2290
unpack_voice_SLQSVoiceSetSUPSService, 2290
unpack_voice_SLQSVoiceStartContDTMF, 2290
unpack_voice_SLQSVoiceStopContDTMF, 2291
unpack_voice_SUPSNotificationCallback_ind, 2291
unpack_voice_USSDNotificationCallback_ind, 2292
unpack_voice_VoiceInfoRecCallback_ind, 2292
unpack_voice_allCallStatusCallback_ind, 2279
unpack_voice_voicePrivacyChangeCallback_ind, 2292
voice_CLIPResp, 1457
ActiveStatus, 1458
ProvisionStatus, 1458
voice_CLIRResp, 1458
ActiveStatus, 1458
ProvisionStatus, 1458
voice_CNAPResp, 1459
ActiveStatus, 1459
ProvisionStatus, 1459
voice_COLPResp, 1459
ActiveStatus, 1460
ProvisionStatus, 1460
voice_COLRResp, 1460
ActiveStatus, 1461
ProvisionStatus, 1461
voice_CUGInfo, 1462
CUGIndex, 1463
SuppOA, 1463
SuppPrefCUG, 1463
voice_DTMFInfo, 1464
callID, 1465
DTMFEvent, 1465
digitBuff, 1465
digitCnt, 1465
voice_DTMFLengths, 1465
DTMFInterdigitInterval, 1466
DTMFPulseWidth, 1466
voice_ECTNum, 1466
ECTCallState, 1467
number, 1467
presentationInd, 1467
voice_NSSAudioCtrl, 1472
downLink, 1472
upLink, 1472
voice_SUPSInfo, 1481
isModByCC, 1481
svcType, 1481
voice_USSDNotificationNetworkInfo, 1481
networkInfo, 1482
tlvPresent, 1482
voice_USSInfo, 1482
ussDCS, 1482
ussData, 1482
ussLen, 1482
voice_UUSInfo, 1482
UUSData, 1483
UUSDatalen, 1483
UUSDcs, 1483
UUSType, 1483
voice_airTimer, 1435
airTimerValue, 1435
namID, 1435
voice_allCallsAlphaIDInfo, 1435
AlphaIDInfo, 1436
callID, 1436
voice_allCallsDiagInfo, 1436
callID, 1436
DiagInfo, 1436
voice_allCallsUUSInfo, 1436
callID, 1437
uusInfo, 1437
voice_alphaIDInfo, 1437
alphaDcs, 1438
alphaLen, 1438
alphaText, 1438
voice_arrAlertingPattern, 1438
alertingPattern, 1438
callID, 1438
numInstances, 1438
voice_arrAlertingType, 1438
AlertingType, 1439
callID, 1439
numInstances, 1439
voice_arrAlphaID, 1439
allCallsAlphaIDInfoArr, 1440
numInstances, 1440
voice_arrCallEndReason, 1440
callEndReason, 1441
callID, 1441
numInstances, 1441
voice_arrCallInfo, 1441
getAllCallInfo, 1441
numInstances, 1441
voice_arrCalledPartyNum, 1440
CalledPartyNum, 1440
numInstances, 1440
voice_arrConnectPartyNum, 1441
ConnectedPartyNum, 1442
numInstances, 1442
voice_arrDiagInfo, 1442
DiagInfo, 1442
numInstances, 1442
voice_arrRedirPartyNum, 1442
numInstances, 1443
RedirPartyNum, 1443
voice_arrRemotePartyName, 1443

GetAllCallRmtPtyName, 1443
numInstances, 1443
voice_arrRemotePartyNum, 1444
numInstances, 1444
RmtPtyNum, 1444
voice_arrSvcOption, 1444
callID, 1445
numInstances, 1445
srvOption, 1445
voice_arrUUSInfo, 1445
AllCallsUUSInfo, 1445
numInstances, 1445
voice_burstDTMFInfo, 1445
digitCnt, 1446
pCallID, 1446
pDigitBuff, 1446
voice_callFWExtInfo, 1450
noReplyTimer, 1452
numLen, 1452
numPlan, 1452
numType, 1452
number, 1452
PI, 1452
SI, 1452
SvcClass, 1452
SvcStatus, 1452
voice_callFWInfo, 1452
noReplyTimer, 1453
numLen, 1453
number, 1453
SvcClass, 1453
SvcStatus, 1453
voice_callFwdTypeAndPlan, 1449
numberPlan, 1450
numberType, 1450
voice_callInfo, 1453
callID, 1454
callState, 1454
callType, 1455
direction, 1455
mode, 1455
voice_calledPartyInfo, 1446
numLen, 1447
numPlan, 1447
numType, 1447
number, 1447
PI, 1448
SI, 1448
voice_calledPartySubAdd, 1448
extBit, 1448
oddEvenInd, 1448
subAddr, 1448
subAddrLen, 1448
subAddrType, 1448
voice_callerIDInfo, 1449
callerID, 1449
callerIDLen, 1449
PI, 1449
voice_callingPartyInfo, 1455
numLen, 1456
numPlan, 1456
numType, 1456
number, 1456
PI, 1456
SI, 1456
voice_ccSUPSType, 1456
reason, 1457
svcType, 1457
voice_connectNumInfo, 1461
callerID, 1462
callerIDLen, 1462
numPlan, 1462
numPresInd, 1462
numType, 1462
screeningInd, 1462
voice_curAMRConfig, 1463
gsmAmrStat, 1464
wcdmaAmrStat, 1464
voice_diagInfo, 1464
diagInfoLen, 1464
diagnosticInfo, 1464
voice_extDispRecInfo, 1467
dispType, 1467
extDispInfo, 1467
extDispInfoLen, 1467
voice_getAllCallInformation, 1467
ALS, 1468
CallInfo, 1468
isEmpty, 1468
voice_getAllCallRmtPtyName, 1468
callID, 1468
RemotePartyName, 1469
voice_getAllCallRmtPtyNum, 1469
callID, 1469
RemotePartyNum, 1469
voice_getCallFWExtInfo, 1469
CallFWExtInfo, 1470
numInstances, 1470
voice_getCallFWInfo, 1470
CallFWInfo, 1470
numInstances, 1470
voice_lineCtrlInfo, 1470
polarityIncluded, 1471
pwrDenialTime, 1471
revPolarity, 1471
toggleMode, 1471
voice_newPwdData, 1471
newPwd, 1471
newPwdAgain, 1471
voice_peerNumberInfo, 1472
callID, 1474
numLen, 1474
numPI, 1474
numPlan, 1474
numSI, 1474
numType, 1474

number, 1474
voice_prefVoiceSO, 1474
evrcCapability, 1476
homeOrigVoiceSO, 1476
homePageVoiceSO, 1476
namID, 1476
roamOrigVoiceSO, 1476
voice_redirNumInfo, 1476
numLen, 1477
numPlan, 1477
numType, 1477
number, 1477
PI, 1477
reason, 1477
SI, 1477
voice_remotePartyName, 1478
callerName, 1478
codingScheme, 1478
nameLen, 1478
namePI, 1478
voice_remotePartyNum, 1478
numLen, 1479
presentationInd, 1479
remPartyNumber, 1479
voice_roamTimer, 1479
namID, 1480
roamTimerValue, 1480
voice_signalInfo, 1480
alertPitch, 1480
signal, 1480
signalType, 1480
voiceALSSelectLineInfo, 1484
lineValue, 1484
voiceALSSetLineSwitchInfo, 1484
switchOption, 1484
voiceAnswerCall, 1484
pCallId, 1485
voiceBindSubscriptionInfo, 1485
subsType, 1485
voiceBurstDTMFInfo, 1485
BurstDTMFInfo, 1486
pBurstDTMFLengths, 1486
voiceCallInfoReq, 1486
callID, 1486
voiceCallInfoResp, 1486
pAlertType, 1488
pAlertingPattern, 1488
pAlphaIDInfo, 1488
pCallInfo, 1488
pConnectNumInfo, 1488
pDiagInfo, 1488
pOTASPStatus, 1488
pRemotePartyName, 1488
pRemotePartyNum, 1488
pSrvOpt, 1489
pUUSInfo, 1489
pVoicePrivacy, 1489
voiceCallRequestParams, 1489
callNumber, 1490
pCLIRType, 1490
pCUGInfo, 1490
pCallPartySubAdd, 1490
pCallType, 1490
pEmergencyCategory, 1490
pSvcType, 1490
pUUSInFo, 1490
voiceCallResponseParams, 1490
pAlphaIDInfo, 1491
pCCResultType, 1491
pCCSUPSType, 1491
pCallID, 1491
voiceContDTMFinfo, 1491
DTMFdigit, 1492
pCallID, 1492
voiceDTMFEventInfo, 1492
DTMFInformation, 1493
pOffLength, 1493
pOnLength, 1493
voiceFlashInfo, 1493
pCallID, 1493
pFlashPayLd, 1493
pFlashType, 1493
voiceGetAllCallInfo, 1493
pArrAlertingPattern, 1496
pArrAlertingType, 1496
pArrAlphaID, 1496
pArrCallEndReason, 1496
pArrCallInfo, 1496
pArrCalledPartyNum, 1496
pArrConnectPartyNum, 1496
pArrDiagInfo, 1496
pArrRedirPartyNum, 1496
pArrRemotePartyName, 1496
pArrRemotePartyNum, 1496
pArrSvcOption, 1496
pArrUUSInfo, 1496
pOTASPStatus, 1496
pVoicePrivacy, 1496
voiceGetCLIPResp, 1502
pAlphaIDInfo, 1503
pCCResType, 1503
pCCSUPSType, 1503
pCLIPResp, 1503
pCallID, 1503
pFailCause, 1503
voiceGetCLIRResp, 1503
pAlphaIDInfo, 1504
pCCResType, 1504
pCCSUPSType, 1504
pCLIRResp, 1504
pCallID, 1504
pFailCause, 1504
voiceGetCNAPResp, 1504
pAlphaIDInfo, 1505
pCCResType, 1505
pCCSUPSType, 1505

pCNAPResp, 1505
pCallID, 1505
pFailCause, 1505
voiceGetCOLPResp, 1505
pAlphaIDInfo, 1506
pCCResType, 1507
pCCSUPSType, 1507
pCOLPResp, 1507
pCallID, 1506
pFailCause, 1507
voiceGetCOLRResp, 1507
pAlphaIDInfo, 1508
pCCResType, 1508
pCCSUPSType, 1508
pCOLRResp, 1508
pCallID, 1508
pFailCause, 1508
voiceGetCallBarringReq, 1496
pSvcClass, 1497
reason, 1497
voiceGetCallBarringResp, 1497
pAlphaIDInfo, 1498
pCCResType, 1498
pCCSUPSType, 1498
pCallID, 1498
pFailCause, 1498
pSvcClass, 1498
voiceGetCallFWReq, 1498
pSvcClass, 1499
Reason, 1499
voiceGetCallFWResp, 1499
pAlphaIDInfo, 1500
pCCResType, 1500
pCCSUPSType, 1500
pCallID, 1500
pFailCause, 1500
pGetCallFWExtInfo, 1500
pGetCallFWInfo, 1500
voiceGetCallWaitInfo, 1500
pAlphaIDInfo, 1501
pCCResType, 1502
pCCSUPSType, 1502
pCallID, 1502
pFailCause, 1502
pSvcClass, 1502
voiceGetConfigReq, 1508
pAMRStatus, 1509
pAirTimer, 1509
pAutoAnswer, 1509
pNamID, 1509
pPrefVoicePrivacy, 1509
pPrefVoiceSO, 1509
pRoamTimer, 1509
pTTYMode, 1510
pVoiceDomainPref, 1510
voiceGetConfigResp, 1510
pAirTimerCnt, 1511
pAutoAnswerStat, 1511
pCurAMRConfig, 1511
pCurPrefVoiceSO, 1511
pCurVoiceDomainPref, 1511
pCurVoicePrivacyPref, 1511
pCurrTTYMode, 1511
pRoamTimerCnt, 1511
voiceIndicationRegisterInfo, 1511
pRegDTMFEvents, 1512
pRegVoicePrivacyEvents, 1512
pSuppsNotifEvents, 1512
voiceInfoRec, 1512
callID, 1514
pCLIRCause, 1514
pCallWaitInd, 1514
pCalledPartyInfo, 1514
pCallerIDInfo, 1514
pCallerNameInfo, 1514
pCallingPartyInfo, 1514
pConnectNumInfo, 1514
pDispInfo, 1514
pExtDispInfo, 1514
pExtDispRecInfo, 1514
pLineCtrlInfo, 1514
pNSSAudioCtrl, 1514
pNSSRelease, 1514
pRedirNumInfo, 1514
pSignalInfo, 1515
voiceManageCallsReq, 1515
pCallID, 1515
SUPSType, 1515
voiceManageCallsResp, 1515
pFailCause, 1516
VoiceNumber
unpack_dms_GetVoiceNumber_t, 1156
voiceNumberSize
unpack_dms_GetVoiceNumber_t, 1156
voiceOTASPStatusInfo, 1516
callID, 1517
OTASPStatus, 1517
voiceOrigUSSDNoWaitInfo, 1516
USSInformation, 1516
voicePrivacy
unpack_voice_voicePrivacyChangeCallback_ind_-t, 1389
voicePrivacyInfo, 1518
voicePrivacyInfo, 1517
callID, 1518
voicePrivacy, 1518
voiceSUPSInfo, 1530
pAlphaIDInfo, 1532
pCLIPstatus, 1532
pCLIRstatus, 1532
pCNAPstatus, 1532
pCOLPstatus, 1532
pCOLRstatus, 1532
pCallBarPasswd, 1532
pCallFWNum, 1532
pCallFWTimerVal, 1532

pCallFwdInfo, 1532
pCallID, 1532
pDataSrc, 1532
pFailCause, 1532
pNewPwdData, 1532
pReason, 1532
pSvcClass, 1532
pUSSInfo, 1532
SUPSInformation, 1532
voiceSUPSNotification, 1532
callID, 1534
notifType, 1534
pCUGIndex, 1534
pECTNum, 1534
voiceSetAllCallStatusCbkInfo, 1518
arrCallInfomation, 1520
pArrAlertingPattern, 1520
pArrAlertingType, 1520
pArrAlphaID, 1520
pArrCallEndReason, 1520
pArrCalledPartyNum, 1520
pArrConnectPartyNum, 1520
pArrDiagInfo, 1520
pArrRedirPartyNum, 1520
pArrRemotePartyName, 1520
pArrRemotePartyNum, 1520
pArrSvcOption, 1520
voiceSetCallBarringPwdInfo, 1520
newPasswd, 1521
newPasswdAgain, 1521
oldPasswd, 1521
Reason, 1521
voiceSetCallBarringPwdResp, 1521
pAlphaIDInfo, 1522
pCCResType, 1522
pCCSUPSType, 1522
pCallID, 1522
pFailCause, 1522
voiceSetConfigReq, 1522
pAirTimerConfig, 1523
pAutoAnswer, 1524
pPrefVoiceDomain, 1524
pPrefVoiceSO, 1524
pRoamTimerConfig, 1524
pTTYMode, 1524
voiceSetConfigResp, 1524
pAirTimerStatus, 1525
pAutoAnsStatus, 1525
pPrefVoiceSOStatus, 1525
pRoamTimerStatus, 1525
pTTYConfigStatus, 1525
pVoiceDomainPrefStatus, 1525
voiceSetPrefPrivacy, 1525
privacyPref, 1526
voiceSetSUPSServiceReq, 1526
pCallBarringPasswd, 1528
pCallForwardingNumber, 1528
pCallFwdTypeAndPlan, 1528
pServiceClass, 1528
pTimerVal, 1528
reason, 1528
voiceSvc, 1528
voiceSetSUPSServiceResp, 1528
pAlphaIDInfo, 1529
pCCResultType, 1529
pCCSUPSType, 1529
pCallID, 1529
pFailCause, 1529
voiceStopContDTMFinfo, 1529
callID, 1530
voiceSvc
pack_voice_SLQSVoiceSetSUPSService_t, 786
voiceSetSUPSServiceReq, 1528
VolValue
SetAudioVolTLBConfigReq, 944
VoltStat
dms_VoltageTlv, 247
VoltTlv
unpack_dms_SwiEventReportCallBack_ind_t, 1180
Voltage
dms_VoltageTlv, 247
Volume
GetAudioProfileResp, 283
GetAudioVolTLBConfigReq, 284
GetM2MAudioProfileResp, 300
SetAudioProfileReq, 943
SetAudioVolTLBConfigReq, 944
voteForInit
registerRefresh, 905
uim_registerRefresh, 1092

WAMSParaChanged
_SwiAvmsEventInd, 107
wAlertMsgLength
_QmiSwiAvmsEventReportConfigResp, 78
WCDMACellInfo
lteWcdmaCellInfo, 447
nas_lteWcdmaCellInfo, 522
WCDMAECIOThresh, 1535
pWCDMAECIOThreshList, 1535
WCDMAECIOThreshListLen, 1535
WCDMAECIOThreshListLen
nas_WCDMAECIOThresh, 587
WCDMAECIOThresh, 1535
WCDMAInfoLTENeighborCell, 1535
UMTSLTENbrCell, 1536
umtsLTENbrCellLen, 1536
wcdmaRRCState, 1536
WCDMARSSIThresh, 1540
pWCDMARSSIThreshList, 1541
WCDMARSSIThreshListLen, 1541
WCDMARSSIThreshListLen
nas_WCDMARSSIThresh, 588
WCDMARSSIThresh, 1541
WCDMASSInfo
unpack_nas_SLQSNasGetSigInfo_t, 1261

WCDMASysInfo, 1541
cellId, 1544
cellIdValid, 1544
hsCallStatus, 1544
hsCallStatusValid, 1544
hsInd, 1544
hsIndValid, 1544
lac, 1544
lacValid, 1544
MCC, 1544
MNC, 1544
networkIdValid, 1544
psc, 1544
pscValid, 1544
regRejectInfoValid, 1544
rejCause, 1544
rejectSrvDomain, 1544
sysInfoWCDMA, 1544
WDS_IsGobiDevice
qaGobiApiWds.h, 2183
WDS_SRV
qaGobiApiCbk.h, 1766
WDSGetLoopbackData, 1576
ByteLoopbackMode, 1576
ByteLoopbackMultiplier, 1576
WDSSWICurrentChannelRates, 1584
current_channel_rx_rate, 1584
current_channel_tx_rate, 1584
max_channel_rx_rate, 1584
max_channel_tx_rate, 1584
WDSSetLoopbackData, 1583
pLoopbackMode, 1584
pLoopbackMultiplier, 1584
wDescriptionLength
_QmiSwiAvmsEventReportBinaryUpdateSession-InfoResp, 77
wErrorCode
_QmiSwiAvmsEventReportDataSessionStatus-Resp, 79
wHTTPStatus
_QmiSwiAvmsEventReportHTTPStatusResp, 80
wNameLength
_QmiSwiAvmsEventReportBinaryUpdateSession-InfoResp, 77
WORD
SwiDataTypes.h, 2229
wSessionStatus
_QmiSwiAvmsEventReportNotificationResp, 82
wUpdateCompeteStatus
_QmiSwiAvmsEventReportBinaryUpdateSession-InfoResp, 77
wUserInputTimeout
_QmiSwiAvmsEventReportBinaryUpdateSession-InfoResp, 77
_QmiSwiAvmsEventReportConfigResp, 78
_QmiSwiAvmsEventReportConnectionRequest-Resp, 79
wVersionLength
_QmiSwiAvmsEventReportBinaryUpdateSession-InfoResp, 77
wWamsChangeMask
_QmiSwiAvmsEventReportWAMSParamChange-Resp, 83
wake_mask
pack_rms_SetSMSWake_t, 741
unpack_rms_GetSMSWake_t, 1312
wcdmaAmrStat
curAMRConfig, 211
voice_curAMRConfig, 1464
wcdmaCellInfo, 1534
cpich_ecno, 1534
cpich_rscp, 1534
psc, 1534
srxlev, 1535
wcdmaLongMsgDecodingParams, 1536
Date, 1537
pIsUDHPresent, 1537
pMessage, 1538
pPartNum, 1538
pReferenceNum, 1538
pScAddr, 1538
pScAddrLength, 1538
pSenderAddr, 1538
pSenderAddrLength, 1538
pTextMsg, 1538
pTextMsgLength, 1538
pTotalNum, 1538
Time, 1538
wcdmaMsgDecodingParams, 1538
Date, 1539
pMessage, 1539
pScAddr, 1539
pScAddrLength, 1539
pSenderAddr, 1539
pSenderAddrLength, 1539
pTextMsg, 1539
pTextMsgLength, 1539
Time, 1539
wcdmaMsgEncodingParams, 1539
alphabet, 1540
messageSize, 1540
pDestAddr, 1540
pPDUMessage, 1540
pTextMsg, 1540
wcdmaRRCState
nas_WCDMAInfoLTENeighborCell, 587
WCDMAInfoLTENeighborCell, 1536
wcdmaUARFCN, 1544
status, 1545
uarfcn, 1545
Wdisable
unpack_dms_SLQSDmsSwiGetPCInfo_t, 1163
wds.h
QMI_LITE_WDS_CURRENT_CALL_DB_MASK, 2299
QMI_LITE_WDS_LAST_CALL_DB_MASK, 2299

wds.h, 2293
BYT_STAT_STAT_MASK, 2299
liteQmiDataBearerMasks, 2299
PACK_WDS_IPV4, 2299
PACK_WDS_IPV6, 2299
pack_wds_DHCPv4ClientLeaseChange, 2300
pack_wds_GetAutoconnect, 2300
pack_wds_GetByteTotals, 2300
pack_wds_GetConnectionRate, 2301
pack_wds_GetDataBearerTechnology, 2301
pack_wds_GetDefaultProfile, 2302
pack_wds_GetDefaultProfileNum, 2302
pack_wds_GetDormancyState, 2302
pack_wds_GetLastMobileIPError, 2303
pack_wds_GetMobileIP, 2303
pack_wds_GetMobileIPProfile, 2304
pack_wds_GetPacketStatistics, 2304
pack_wds_GetPacketStatus, 2305
pack_wds_GetSessionDuration, 2305
pack_wds_GetSessionState, 2305
pack_wds_RMSetTransferStatistics, 2306
pack_wds_SLQSCreateProfile, 2309
pack_wds_SLQSDeleteProfile, 2310
pack_wds_SLQSGet3GPPConfigItem, 2310
pack_wds_SLQSGetCurrDataSystemStat, 2311
pack_wds_SLQSGetCurrentChannelRate, 2311
pack_wds_SLQSGetDUNCallInfo, 2312
pack_wds_SLQSGetDataBearerTechnology, 2311
pack_wds_SLQSGetProfileSettings, 2312
pack_wds_SLQSGetRuntimeSettings, 2313
pack_wds_SLQSModifyProfile, 2313
pack_wds_SLQSResetPacketStatics, 2314
pack_wds_SLQSSGetDHCPv4ClientConfig, 2315
pack_wds_SLQSSGetLoopback, 2316
pack_wds_SLQSSSetDHCPv4ClientConfig, 2316
pack_wds_SLQSSSetLoopback, 2316
pack_wds_SLQSSet3GPPConfigItem, 2314
pack_wds_SLQSSetIPFamilyPreference, 2314
pack_wds_SLQSSetWdsEventCallback, 2315
pack_wds_SLQSStartDataSession, 2317
pack_wds_SLQSStopDataSession, 2317
pack_wds_SLQSWdsGoActive, 2318
pack_wds_SLQSWdsGoDormant, 2318
pack_wds_SLQSWdsSetEventReport, 2318
pack_wds_SLQSWdsSwiPDPRuntimeSettings, 2319
pack_wds_SetAutoconnect, 2306
pack_wds_SetDefaultProfile, 2307
pack_wds_SetDefaultProfileNum, 2307
pack_wds_SetMobileIP, 2307
pack_wds_SetMobileIPParameters, 2308
pack_wds_SetMobileIPProfile, 2308
pack_wds_SetMuxID, 2309
unpack_wds_DHCPv4ClientLease_ind, 2319
unpack_wds_DHCPv4ClientLeaseChange, 2320
unpack_wds_GetAutoconnect, 2320
unpack_wds_GetByteTotals, 2320
unpack_wds_GetConnectionRate, 2321
unpack_wds_GetDataBearerTechnology, 2321
unpack_wds_GetDefaultProfile, 2321
unpack_wds_GetDefaultProfileNum, 2322
unpack_wds_GetDormancyState, 2322
unpack_wds_GetLastMobileIPError, 2323
unpack_wds_GetMobileIP, 2323
unpack_wds_GetMobileIPProfile, 2323
unpack_wds_GetPacketStatistics, 2324
unpack_wds_GetPacketStatus, 2324
unpack_wds_GetSessionDuration, 2324
unpack_wds_GetSessionState, 2325
unpack_wds_RMSetTransferStatistics, 2325
unpack_wds_RMTransferStatistics_ind, 2325
unpack_wds_SLQSCreateProfile, 2328
unpack_wds_SLQSDUNCallInfoCallBack_ind, 2329
unpack_wds_SLQSDeleteProfile, 2328
unpack_wds_SLQSGet3GPPConfigItem, 2329
unpack_wds_SLQSGetCurrDataSystemStat, 2329
unpack_wds_SLQSGetCurrentChannelRate, 2330
unpack_wds_SLQSGetDUNCallInfo, 2330
unpack_wds_SLQSGetDataBearerTechnology, 2330
unpack_wds_SLQSGetProfileSettings, 2331
unpack_wds_SLQSGetRuntimeSettings, 2331
unpack_wds_SLQSModifyProfile, 2331
unpack_wds_SLQSResetPacketStatics, 2332
unpack_wds_SLQSSGetDHCPv4ClientConfig, 2333
unpack_wds_SLQSSGetLoopback, 2334
unpack_wds_SLQSSSetDHCPv4ClientConfig, 2334
unpack_wds_SLQSSSetLoopback, 2334
unpack_wds_SLQSSet3GPPConfigItem, 2332
unpack_wds_SLQSSetIPFamilyPreference, 2332
unpack_wds_SLQSSetPacketSrvStatusCallback, 2332
unpack_wds_SLQSSetWdsEventCallback, 2333
unpack_wds_SLQSSetWdsEventCallback_ind, 2333
unpack_wds_SLQSStartDataSession, 2335
unpack_wds_SLQSStopDataSession, 2335
unpack_wds_SLQSWdsGoActive, 2335
unpack_wds_SLQSWdsGoDormant, 2336
unpack_wds_SLQSWdsSetEventReport, 2336
unpack_wds_SLQSWdsSwiPDPRuntimeSettings, 2336
unpack_wds_SetAutoconnect, 2326
unpack_wds_SetDefaultProfile, 2326
unpack_wds_SetDefaultProfileNum, 2326
unpack_wds_SetMobileIP, 2327
unpack_wds_SetMobileIPParameters, 2327
unpack_wds_SetMobileIPProfile, 2327
unpack_wds_SetMuxID, 2328
UnpackQmiProfileInfo, 2299
wds_ChannelRateTlv, 1545
ChannelRate, 1546
TlvPresent, 1546

wds_ConnStatusTlv, 1546
MDMConnStatus, 1546
TlvPresent, 1546
wds_DHCPLeaseOptTlv, 1550
numOpt, 1550
optList, 1550
optListData, 1550
TlvPresent, 1550
wds_DHCPLeaseStateTlv, 1551
leaseState, 1551
TlvPresent, 1551
wds_DHCPOpt, 1551
optCode, 1552
optValLen, 1552
pOptVal, 1552
wds_DHCPProfileIdTlv, 1552
profileId, 1552
profileType, 1552
TlvPresent, 1552
wds_DHCPv4HWConfig, 1552
chaddr, 1553
chaddrLen, 1553
hwType, 1553
wds_DHCPv4Option, 1553
optCode, 1553
optVal, 1553
optValLen, 1554
wds_DHCPv4OptionList, 1554
numOpt, 1554
pOptList, 1554
wds_DHCPv4ProfileId, 1554
profileId, 1554
profileType, 1555
wds_DataBearTechTlv, 1548
DataBearerTech, 1549
TlvPresent, 1549
wds_DataULongLongTlv, 1549
TlvPresent, 1549
ullData, 1549
wds_DataULongTlv, 1550
TlvPresent, 1550
ulData, 1550
wds_Domain, 1555
domainLen, 1555
domainName, 1555
wds_DomainNameList, 1555
domain, 1556
numInstances, 1556
wds_DormStatTlv, 1556
DormancyStat, 1556
TlvPresent, 1556
wds_GPRSQoS, 1556
delayClass, 1557
meanThroughputClass, 1557
peakThroughputClass, 1557
precedenceClass, 1557
reliabilityClass, 1557
wds_IPV6AddressInfo, 1558
IPAddressV6, 1558
IPV6PrefixLen, 1558
wds_IPV6GWAddressInfo, 1558
gwAddressV6, 1559
gwV6PrefixLen, 1559
wds_IPv4AdTlv, 1557
IPv4Addr, 1557
TlvPresent, 1557
wds_LastMdmCallEndRsnTlv, 1559
CallEndReason, 1559
TlvPresent, 1559
wds_PCSCFFQDNAddress, 1559
fqdnAddr, 1560
fqdnLen, 1560
wds_PCSCFFQDNAddressList, 1560
numInstances, 1560
pcsfFQDNAddress, 1560
wds_PCSCFIPv4ServerAddressList, 1560
numInstances, 1561
pscsfIPv4Addr, 1561
wds_ProfileIdentifier, 1561
profileIndex, 1561
profileType, 1561
wds_RXBytesOKTlv, 1562
RxByteOKCnt, 1562
TlvPresent, 1562
wds_TXBytesOKTlv, 1564
TlvPresent, 1564
TxByteOKCnt, 1564
wds_TrStatInd, 1563
statsMask, 1563
statsPeriod, 1563
wds_UMTSMinQoS, 1564
deliveryErrSDU, 1566
grntDownlinkBitrate, 1566
grntUplinkBitrate, 1566
maxDownlinkBitrate, 1566
maxSDUSize, 1566
maxUplinkBitrate, 1566
qosDeliveryOrder, 1566
resBerRatio, 1566
sduErrorRatio, 1566
trafficClass, 1566
trafficPriority, 1566
transferDelay, 1566
wds_channelRate, 1545
CurrChanRxRate, 1545
CurrChanTxRate, 1545
wds_currNetworkInfo, 1546
NetworkType, 1548
RATMask, 1548
SOMask, 1548
wds_profileInfo, 1561
SlqsProfile3GPP, 1562
SlqsProfile3GPP2, 1562
wds_transferStatInd, 1562
StatsMask, 1563
StatsPeriod, 1563

WdsByteTotals, 1566
ByteTotalsElmntsV4, 1567
ByteTotalsElmntsV6, 1567
pV4sessionId, 1567
pV6sessionId, 1567
WdsByteTotalsElmnts, 1567
pRXTotalBytes, 1568
pTXTotalBytes, 1568
WdsClientLeaseChange, 1568
pEnableNotification, 1568
WdsConnectionRate, 1568
ConnRateElmntsV4, 1569
ConnRateElmntsV6, 1569
pV4sessionId, 1569
pV6sessionId, 1569
WdsConnectionRateElmnts, 1569
pCurrentChannelRXRate, 1570
pCurrentChannelTXRate, 1570
pMaxChannelRXRate, 1570
pMaxChannelTXRate, 1570
WdsDHCPv4ClientLeaseInd, 1570
pIPv4Addr, 1570
pLeaseState, 1570
pOptList, 1570
pProfileId, 1571
WdsDHCPv4Config, 1571
pHwConfig, 1571
pProfileId, 1571
pRequestOptionList, 1571
WdsDHCPv4HWConfig, 1571
chaddr, 1572
chaddrLen, 1572
hwType, 1572
WdsDHCPv4Option, 1572
optCode, 1573
optVal, 1573
optValLen, 1573
WdsDHCPv4OptionList, 1574
numOpt, 1574
pOptList, 1574
WdsDHCPv4ProfileId, 1575
profileId, 1576
profileType, 1576
wdsDhcpv4HwConfig, 1572
chaddr, 1572
chaddrLen, 1572
hwType, 1572
wdsDhcpv4Option, 1573
optCode, 1573
optVal, 1574
optValLen, 1574
wdsDhcpv4OptionList, 1574
numOpt, 1575
pOptList, 1575
wdsDhcpv4ProfileId, 1575
profileId, 1575
profileType, 1575
WdsIpAddressInfoReq, 1576
ip, 1577
pv4sessionId, 1577
pv6sessionId, 1577
WdsPktStatisticsElmnts, 1577
pRXDroppedCount, 1578
pRXOKBytesLastCall, 1578
pRXOkBytesCount, 1578
pRXPacketErrors, 1578
pRXPacketOverflows, 1578
pRXPacketSuccesses, 1578
pTXDroppedCount, 1579
pTXOKBytesLastCall, 1579
pTXOkBytesCount, 1579
pTXPacketErrors, 1579
pTXPacketOverflows, 1579
pTXPacketSuccesses, 1579
WdsPktStatisticsReq, 1579
pStatMask, 1579
WdsPktStatisticsResp, 1579
pV4sessionId, 1580
pV6sessionId, 1580
PktStatElmntsV4, 1580
PktStatElmntsV6, 1580
WdsProfileParam, 1580
SlqsProfile3GPP, 1580
SlqsProfile3GPP2, 1581
WdsRunTimeSettings, 1581
rts, 1581
v4sessionId, 1581
v6sessionId, 1581
wdsSetEventReportReq, 1581
pCurrChannelRateInd, 1583
pCurrDataBearerTechInd, 1583
pCurrPrefDataSysInd, 1583
pDataBearerTechInd, 1583
pDataCallStatusChangeInd, 1583
pDataSystemStatusChangeInd, 1583
pDormancyStatusInd, 1583
pEVDOPageMonPerChangeInd, 1583
pMIPStatusInd, 1583
pTransferStatInd, 1583
Wireless Data Service (WDS), 42

xAxis
sensorData, 931
sensorData_t, 932
xferStatAvail
unpack_wds_SLQSSetWdsEventCallback_ind_t, 1421
xid
pack_loc_SLQSLOCGetBestAvailPos_t, 680
pack_qmi_t, 739
unpack_qmi_t, 1291
xtra_start_gps_minutes
GPSStateInfo, 315
unpack_pds_SLQSGetGPSStateInfo_t, 1291
xtra_start_gps_week
GPSStateInfo, 315
unpack_pds_SLQSGetGPSStateInfo_t, 1291

xtra_valid_duration_hours
GPSStateInfo, 315
unpack_pds_SLQSGetGPSStateInfo_t, 1291

yAxis
sensorData, 931
sensorData_t, 932
year
nas_timeInfo, 579
nas_UniversalTime, 585
timeInfo, 1063
UniversalTime, 1131

zAxis
sensorData, 931
sensorData_t, 932