**Compatibility Revision Table**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | MDMI.h | MDMI-MIB.txt | Sample codes | README.txt |
| TS.31 v2.0 | v2.0 | v2.0 | v2.0 | v2.0 |
| TS.31 v2.0 | v2.0 | v2.0.1 | v2.0 | v2.0 |
| TS.31 v2.0 | v2.0 | v2.1 | v2.0 | v2.0 |
| TS.31 v2.0 | v2.0 | v2.1.1 | v2.0 | v2.0 |
| TS.31 v2.0 | v2.0 | v2.2 | v2.0 | v2.0 |
| TS.31 v2.0 | v2.0 | v2.3 | v2.0 | v2.0 |
| TS.31 v3.0 | v2.0 | v2.4 | v2.0 | v2.0 |
| TS.31 v3.0 | v2.0 | v2.4.1 | v2.0 | v2.0 |
| TS.31 v3.0 | v2.0 | v2.5 | v2.0 | v2.0 |
| TS.31 v3.0 | v2.0 | v2.6 | v2.0 | v2.0 |
| TS.31 v3.0 | v2.0 | v2.6.1 | v2.0 | v2.0 |
| TS.31 v3.0 | v2.0 | v2.6.2 | v2.0 | v2.0 |
| TS.31 v3.0 | v2.0 | v2.6.3 | v2.0 | v2.0 |
| TS.31 v3.0 | v2.0 | v2.7 | v2.0 | v2.0 |
| TS.31 v3.0 | v2.0 | v2.7.1 | v2.0 | v2.0 |
| TS.31 v3.0 | v2.0 | v2.7.2 | v2.0 | v2.0 |
| TS.31 v3.0 | v2.0 | v2.8 | v2.0 | v2.0 |
| TS.31 v3.0 | v2.1 | v2.8 | v2.0 | v2.0 |
| TS.31 v3.0 | v2.1 | v2.8.1 | v2.0 | v2.0 |
| TS.31 v3.0 | v2.1 | v2.8.2 | v2.0 | v2.0 |

**MDMI-MIB Revision History**

|  |  |  |
| --- | --- | --- |
| **Revision** | **Date** | **Description** |
|  | October 10, 2014 | Initial release. |
|  | October 10, 2014 | Verizon release, with third party additions to the Oct. 10, 2014 version Appendix B MIB. |
|  | February 27, 2015 | modifications to Appendix B MIB: remove RTP. This change affects neither Oct. 10, 2014 version nor June 19, 2015 version. |
|  | June 19, 2015 | revision of Oct. 10, 2014 version: Changes to MDMI.h header file (Table A) Corrections to MIB in Oct. 10, 2014 version (Table B) Corrections to MIB in Oct. 10, 2014 version (Table C) Additions to MIB per Verizon Wireless request (Table D) Add explanatory text to Appendix C Remove Appendix D Add explanatory text to Appendix D |
|  | June 29, 2015 | Additional corrections to MIB in Oct. 10, 2014 version (Table E) |
|  | August 14, 2015 | Modifications to MIB in June 29, 2015 version (Table F) |
|  | September 11, 2015 | Adding Chapter 6 to include MDMI log record structure.  Modifications to MIB file (Table G)  Additions to MIB file (Table H) |
|  | September 17, 2015 | Fixed some typos in MIB file which may cause issue during MIB parsing or compiling |
|  | October 15, 2015 | * Removed all vendor info from the MIB file. * Added OBJECT TYPE definition for all undefined objects to be compatible with net-snmp.org MIB parser. * Removed spatialRank (RI) and pmiIndex (PMI) from pdschDemodulationConfig. * Changed the range of codeBlockSizePlus in pdschDecodingResult to (0…6168) * Changed ModulationStream in pdschDemodulationConfig to include only QPSK, 16QAM, 64QAM, 256QAM. * Rename ModulationStream to ModulationScheme. |
|  | October 23, 2015 | * Fixed syntax errors for:   + RachMsgReport (line 1992)   + Defining SYNTAX for OCTEC STRING (line 2662 – 2742) |
|  | November 5, 2015 | * Reverting changes which were added to be compatible with snmp parser as following:   + Removed all redundant OBJECT TYPE definitions.   + Reverted the syntax change for RachMsgReport |
|  | November 23, 2015 | Modify MIB file for mac-OTA-Message  Additions to MIB file (Table I) |
|  | December 8, 2015 | Modify the following OIDs:   * mdmiKpis 77: plmnSearchEvent * mdmiKpis 82: roamingIndicator |
| 2.0 | December 17, 2015 | Restructured MDMI MIB tree. |
| 2.0.1 | January 15, 2016 | Added srsTxPowerMeasurement and cellIdValue |
| 2.1 | January 29, 2016 | * Added additional Physical Layer KPIs (Table J) * Removed system/sub frame numbers from PDCP/RLC OIDs |
| 2.1.1 | February 12, 2016 | * Renaming KPIs for MIB. (Table K) * OID changes for MIB. (Table L) * Removing OID frameDelay due to the duplication of rtpJitterBufferDelay. * Clarifications for IP/RTP header or payload logging. |
| 2.2 | February 12, 2016 | * OID changes for MIB. (Table M)   + Adding noService and wifi into RatInfo   + Adding callDirection to CallEventWithRAT   + Adding wifiToLTEHandoverEvent to mdmiWifi category   + Adding LteToWifiHandoverEvent to mdmiLte category   + Adding IP/SIP/RTP headers/payloads to to mdmiWifi |
| 2.3.0 | March 4, 2016 | * OID changes for MIB. (Table N)   + Adding changes of additional phy KPIs per Lily’s requests |
| 2.4 | March 18, 2016 | * OID changes in MIB for VoWiFi (Table O) * OID changes in MIB for chip vendor integration (Table P) |
| 2.4.1 | April 8, 2016 | * OID changes in MIB for chip vendor integration (Table Q) |
| 2.5 | April 8, 2016 | * OID changes in MIB for eMBMS (Table R) |
| 2.6 | April 15, 2016 | * OID changes in MIB for 3G Fall Back (Table S) |
| 2.6.1 | May 11, 2016 | * OID changes in MIB (Table T) * Comments added/changed in MIB (Table U) * OID removed from previous MIB (2.6) (Table V) |
| 2.6.2 | May 17, 2016 | * OID changes in MIB (Table W) |
| 2.6.3 | May 31, 2016 | * OID added in MIB in IMS section (Table X) |
| 2.7 | June 3, 2016 | * OID changes in MIB (Table Y) * OID added in MIB (Table Z) |
| 2.7.1 | July 25, 2016 | * OID changes in MIB (Table AA) * OID added in MIB (Table AB) * OID removed in MIB (Table AC) * Comments added/changed in MIB (Table AD) |
| 2.7.2 | July 28, 2016 | * OID changes in MIB (Table AE) * Comments added/changed in MIB (Table AF) |
| 2.8 | August 25, 2016 | * OID added in MIB (Table AG) * OID changes in MIB (Table AH) * Comments added/changed in MIB (Table AI) * OID removed in MIB (Table AJ) |
| 2.8.1 | September 9, 2016 | * OID changes in MIB (Table AK) |
| 2.8.2 | October 6, 2016 | * OID changes in MIB (Table AL) * Comments added/changed in MIB (Table AM) |

**MDMI.h Revision History**

|  |  |  |
| --- | --- | --- |
| **Revision** | **Date** | **Description** |
| 2.1 | August 31, 2016 | * Two error codes added |

**Table A – Changes to header file**

|  |  |
| --- | --- |
| **Location** | **Change** |
| Section 5 | Remove Sections 5.1.9 MdmiReleaseMdmiObjectId and 5.1.10 MdmiReleaseMdmiValue, corresponding to functions removed in header |
|  | Add Section5.1.11 MdmiGetSessionStats, corresponding to function added in header |
| Appendix A | Remove error code MDMI\_HAS\_MORE |
|  | Add error codes MDMI\_ERROR\_INVALID\_ARGUMENT and MDMI\_ERROR\_ALREADY\_INITIALZIED |
|  | Remove type MdmiTypeInt32 |
|  | Modify type MdmiTypeUInt32 |
|  | Add type structure MdmiSessionStats |
|  | Remove functions MdmiReleaseMdmiObjectId and MdmiReleaseMdmiValue |
|  | Add function MdmiGetSessionStats |

**Table B – Corrections to Oct. 10, 2014 version MIB**

|  |  |
| --- | --- |
| **OID(s) / Name** | **Change** |
| IMPORTS | Add the import of IpAddress |
| mdmiKpis 4-5 pucchTxPowerMeasurement srsTxPowerMeasurement | Correct typographic errors by replacing wrong names with the correct ones |
| mdmiKpis 18-19 cellReselectionEvent handoverEvent | Correct a syntax error – CHOICE with two variables of the same type – by removing one KPI |
| mdmiKpis 49 newCellEvent | Add an object to restore the KPIs removed by corrections to cellReselectionEvent and handoverEvent |
| mdmiCommandResults 2 request-location-fix-result | Replace the duplicate names ‘Location’ and ‘LocationResult’ with unique names |
| mdmiKpiTraps 49 newCellEventTrapEnabled | Add the trap for newCellEvent |

**Table C – Corrections to third party additions in Oct. 10, 2014 version MIB**

|  |  |
| --- | --- |
| **OID(s) / Name** | **Change** |
| mdmiKpis 27-34 macThroughputDL macThroughputUL rlcThroughputDL rlcThroughputUL pdcpThroughputDL pdcpThroughputUL ipThroughputDL ipThroughputUL | Remove circular definitions of SYNTAX objects and define missing object  Correct keyword ‘Access’ to ‘ACCESS’  Replace unrecognized quotation characters with correct characters  Rename ‘throughput’ object to conform to syntax requirements and generalize the definition for use with other KPIs  Remove duplicate definitions |
| mdmiCommandActions 3-6 setupFtpSession downloadFile uploadFile closeFtpSession | Remove circular definitions of SYNTAX objects and define missing objects  Change OID numbering to eliminate duplication |
| mdmiKpiTraps 27-34 macDLThroughputTrapEnabled macULThroughputTrapEnabled rlcDLThroughputTrapEnabled rlcULThroughputTrapEnabled pdcpDLThroughputTrapEnabled pdcpULThroughputTrapEnabled ipDLThroughputTrapEnabled ipULThroughputTrapEnabled | Remove illegal STATUS qualification for TRAP-TYPE |
| mdmiCommandResultTraps 3-4 setup-ftp-session-resultTrapEnabled close-ftp-session-resultTrapEnabled | Correct references to trapped objects setupFtpSession and closeFtpSession  Remove illegal STATUS qualification for TRAP-TYPE |

**Table D – additions to Oct. 10, 2014 version MIB per VzW**

|  |  |  |
| --- | --- | --- |
| **OID Number** | **mdmiKpis Name** | **mdmiKpiTraps Name** |
| 35 | dlResourceBlocksValue | dlResourceBlocksTrapEnabled |
| 36 | dlMCSValue | dlMCSTrapEnabled |
| 37 | dlPhysLayerThroughputValue | dlPhysLayerThroughputTrapEnabled |
| 38 | mimoRankIndicatorValue | mimoRankIndicatorTrapEnabled |
| 39 | mimoPDSCHthroughput0Value | mimoPDSCHthroughput0TrapEnabled |
| 40 | mimoPDSCHthroughput1Value | mimoPDSCHthroughput1TrapEnabled |
| 41 | ulResourceBlocksValue | ulResourceBlocksTrapEnabled |
| 42 | ulPhysLayerThroughputValue | ulPhysLayerThroughputTrapEnabled |
| 43 | ulTimingAdvanceValue | ulTimingAdvanceTrapEnabled |
| 44 | ulTxPowerHeadroomValue | ulTxPowerHeadroomTrapEnabled |
| 45 | ulRACHAttemptResult | ulRACHAttemptResultTrapEnabled |
| 46 | ulRACHAccessDelayValue | ulRACHAccessDelayTrapEnabled |
| 47 | ulMCSValue | ulMCSTrapEnabled |
| 48 | ulRACHTxPowerValue | ulRACHTxPowerTrapEnabled |

**Table E – Additional Corrections to Oct. 10, 2014 version MIB**

|  |  |
| --- | --- |
| **OID(s) / Name** | **Change** |
| mdmiKpis 21 macRachAttemptEvent | Correct a syntax error – CHOICE with two variables of the same type – by removing one KPI |
| mdmiKpis 22 rtpCodec | Correct a syntax error – CHOICE with two variables of the same type – by removing explicit enumeration |
| mdmiKpis 50 macRachAttemptReason | Add an object to restore the KPI removed by corrections to macRachAttemptEvent |
| mdmiKpiTraps 50 macRachAttemptReasonTrapEnabled | Add the trap for macRachAttemptReason |

**Table F – Modifications to June 29, 2015 version MIB**

|  |  |
| --- | --- |
| **OID(s) / Name** | **Change** |
| mdmiMessages 4 mac-OTA-Message | Added a new field: transportChannel |
| mdmiMessages 5 pdcp-OTA-Message | Added three new fields: radioBearerType, rlcMode and pdcpSnSize |
| mdmiMessages 6 rlc-OTA-Message | Added three new fields: rlcMode, snFieldLength and liField |

**Table G – Modifications to August 14, 2015 version MIB**

|  |  |
| --- | --- |
| **OID(s) / Name** | **Change** |
| mdmiKpis 1 | Added new KPIs: rsrp0, rsrp1, rsrq0, rsrq1, rssi0, rssi1, sinr0, sinr1, earfcn, priority  Adjusted some value ranges  Removed unnecessary explicit provision for missing values |
| mdmiKpis 2 | Added new KPIs: rsrp0, rsrp1, rsrq0, rsrq1, rssi0, rssi1, earfcn, priority  Adjusted some value ranges  Removed unnecessary explicit provision for missing values |
| mdmiKpis 3 | Added new KPIs: Power control accumulation factor, Number of allocated resource blocks in PUSCH, Transport block size in bytes, Modulation order, HARQ retransmission number  Adjusted some value ranges |
| mdmiKpis 4 | Added new KPI: Power control accumulation factor |
| mdmiKpis 5 | Added new KPI: Power control accumulation factor  Removed superfluous KPI: srsTpc |
| mdmiKpis 7 | Added new KPI: Rank index |
| mdmiKpis 8 | Added new KPI: EMM substate type |
| mdmiKpis 16, 17 | Adjusted value range |
| mdmiKpis 19 | Added new KPI: Target cell |
| mdmiKpis 20 | Added new KPI: RLF cause |
| mdmiKpis 45 | Removed due to redundancy |
| mdmiKpis 48 | Adjusted value range |

**Table H – OIDs Added to August 14, 2015 version MIB**

|  |  |  |
| --- | --- | --- |
| **OID Number** | **mdmiKpis Name** | **mdmiKpiTraps Name** |
| 45 | rachLatency | rachLatencyTrapEnabled |
| 51 | pdschDecodingResult | pdschDecodingResultTrapEnabled |
| 52 | pdschDemodulationConfig | pdschDemodulationConfigTrapEnabled |
| 53 | PdschTransportBlock | pdschTransportBlockTrapEnabled |
| 54 | trackingAreaCode | trackingAreaCodeTrapEnabled |
| 55 | esmContextInfo | esmContextInfoTrapEnabled |
| 56 | phichDecodingOutcome | phichDecodingOutcomeTrapEnabled |
| 57 | rrcStateChangeEvent | rrcStateChangeEventTrapEnabled |
| 58 | nasEmmTimerExpiryEvent | nasEmmTimerExpiryEventTrapEnabled |
| 59 | rrcTimerExpiryEvent | rrcTimerExpiryEventTrapEnabled |
| 60 | macTimerExpiryEvent | macTimerExpiryEventEnabled |
| 61 | nasEsmExpiryEvent | nasEsmExpiryEventEnabled |
| 62 | macDlTransportBlock | macDlTransportBlockTrapEnabled |
| 63 | macUlGrant | macUlGrantTrapEnabled |
| 64 | pdcpDlStats | pdcpDlStatsTrapEnabled |
| 65 | pdcpUlStats | pdcpUlStatsTrapEnabled |
| 66 | rlcDlStats | rlcDlStatsTrapEnabled |
| 67 | rlcUlStats | rlcUlStatsTrapEnabled |
| 68 | volteCallEvent | volteCallEventTrapEnabled |
| 69 | ratEvent | ratEventTrapEnabled |
| 70 | mibSibReadEvent | mibSibReadEventTrapEnabled |
| 71 | pssResult | pssResultTrapEnabled |
| 72 | sssResult | sssResultTrapEnabled |
| 73 | rachMsgReport | rachMsgReportTrapEnabled |
| 74 | pdcchDecodingResult | pdcchDecodingResultTrapEnabled |
| 75 | srPeriod | srPeriodTrapEnabled |
| 76 | frameDelay | frameDelayTrapEnabled |

**Table I – OIDs Added to November 23, 2015 version MIB**

|  |  |  |
| --- | --- | --- |
| **OID Number** | **mdmiKpis Name** | **mdmiKpiTraps Name** |
| 77 | plmnScanInfo | plmnScanInfoTrapEnabled |
| 78 | emmFailureCauseEvent | emmFailureCauseEventTrapEnabled |
| 79 | callEventWithRAT | callEventWithRatTrapEnabled |
| 80 | gsmEmmStateChangeEvent | gsmEmmStateChangeEventTrapEnabled |
| 81 | umtsEmmStateChangeEvent | umtsEmmStateChangeEventTrapEnabled |
| 82 | roamingIndicator | roamingIndicatorTrapEnabled |

**Table J – OIDs Changes/Additions for Additional Physical Layer KPIs MIB (v2.1)**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {ltePhyDebug 1} | lteCellTiming |
| {ltePhyPucch 3} | pucchPowerControl |
| {ltePhyPucch 4} | pucchCsf |
| {ltePhyPusch 3} | puschPowerControl |
| {ltePhyPusch 4} | puschCsf |
| {ltePhyPcfich 3} | pcfichDecodingResult |
| {ltePhyPdcch 3} | pdcchDecodingResult |
| {ltePhyPmch 3} | pmchDecodingResults |
| {ltePhyPhich 3} | phichDecodingResults |
| {ltePhyPbch 3} | pbchDecodingResults |
| {ltePhyPdsch 3} | pdschDecodingResults |
| {ltePhyPrach 1} | prachReport |
| {ltePhyMeasurements 1} | servingCellMeasurement |
| {ltePhyMeasurements 2} | neighborCellMeasurements |
| {ltePhyMeasurements 10} | pssResult |
| {ltePhyMeasurements 11} | sssResult |
| {ltePhyMeasurements 15} | srsTxPowerMeasurement |
| {ltePhyMeasurements 16} | srsTxReports |
| {ltePhyMeasurements 17} | dciInformationReports |
| {ltePhyMeasurements 18} | pagingDRX |
| {ltePhyPucch 1} | pucchReport |
| {ltePhyPusch 1} | puschReport |
| {ltePhyPdcch 1} | pdcchReport |
| {ltePhyPhich 1} | phichReport |
| {ltePhyPdsch 1} | pdschReport |
| {ltePhyPdcch 2} | pdcchStatistics |
| {ltePhyPdsch 2} | pdschStatistics |
| {lteRlcKpis 3} | rlcDlStats |
| {lteRlcKpis 4} | rlcUlStats |
| {lteRlcKpis 5} | rlcUlUmDataPdu |
| {lteRlcKpis 6} | rlcDlUmDataPdu |

**Table K – Renaming KPIs from OIDs for MIB (v2.1.1)**

|  |  |
| --- | --- |
| **OID** | **OID Name** |
| {lteRrcEvents 1} | cellReselectionEvent |
| {lteRrcEvents 2} | handoverEvent |
| {lteRrcEvents 3} | radioLinkFailureEvent |
| {lteRrcEvents 3} | rrcStateChangeEvent |
| {lteNasKpis 1} | esmContextInfo |
| {lteMacKpis 7} | srPeriod |
| {lteMacEvents 3} | macTimerExpiryEvent |
| {lteRlcKpis 3} | rlcDlStats |
| {lteRlcKpis 4} | rlcUlStats |
| {lteRlcKpis 5} | rlcUlUmDataPdu |
| {lteRlcKpis 6} | rlcDlUmDataPdu |
| {ltePdcpKpis 3} | pdcpDlStats |
| {ltePdcpKpis 4} | pdcpUlStats |
| {ltePhyMeasurements 11} | sssResult |
| {ltePhyMeasurements 12} | rachMsgReport |
| {ltePhyMeasurements 16} | srsTxReports |
| {ltePhyPbch 3} | pbchDecodingResults |
| {ltePhyPdcch 3} | pdcchDecodingResult |

**Table L – OID changes for MIB (v2.1.1)**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {lteRrcEvents 3} | rrcStateChangeEvent |
| {lteNasEvents 1} | emmStateValue |
| {lteRlcKpis 5} | rlcUlUmDataPdu |
| {ltePdcpKpis 3} | pdcpDlStats |
| {ltePhyMeasurements 10} | pssResult |

**Table M – OID changes for MIB v2.2**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {debugEvents 2} | callEventWithRAT |
| {wifiIpEvents 1} | wifiToLTEHandoverEvent |
| {lteIpEvents 1} | lteToWifiHandoverEvent |
| {wifiIpMessages 1} | wifi-ip-OTA-Packet |
| {wifiIpMessages 2} | wifi-sip-OTA-Message |
| {wifiIpMessages 3} | wifi-rtp-OTA-Message |

**Table N – OID changes for MIB v2.3.0**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {lteRrcEvents 3} | radioLinkFailureEvent |
| {lteRrcEvents 5} | rrcStateChangeEvent |
| {lteRrcEvents 7} | mibSibReadEvent |
| {lteNasEvents 1} | emmStateValue |
| {lteRlcKpis 3} | rlcDlStats |
| {lteRlcKpis 4} | rlcUlStats |
| {lteRlcKpis 5} | rlcUlUmDataPdu |
| {ltePhyMeasurements 3} | dlTransmissionModeValue |
| {ltePhyMeasurements 4} | ulTransmissionModeValue |
| {ltePhyMeasurements 16} | srsTxReports |
| {ltePhyMeasurements 17} | dciInformationReports |
| {ltePhyMeasurements 18} | pagingDRX |
| {ltePhyPdsch 1} | pdschReport |
| {ltePhyPdsch 3} | pdschDecodingResults |
| {ltePhyPcfich 3} | pcfichDecodingResult |
| {ltePhyPdcch 1} | pdcchReport |
| {ltePhyPdcch 3} | pdcchDecodingResult |
| {ltePhyPhich 3} | phichDecodingResults |
| {ltePhyPucch 4} | pucchCsf |
| {ltePhyPusch 4} | puschCsf |
| {lteIpMessages 4} | ipOtaPacketWithPayload |
| {wifiIpMessages 4} | wifiIpOtaPacketWithPayload |
| {lteRrcMessages 1} | rrc-OTA-Message |
| {lteNasMessages 1} | nas-OTA-Message |
| {lteMacMessages 1} | mac-OTA-Messages |
| {lteRlcMessages 1} | rlc-OTA-Messages |
| {ltePdcpMessages 1} | pdcp-OTA-Message |
| {lteMacKpis 1} | macThroughputDL |
| {lteMacKpis 2} | macThroughputUL |
| {lteIpKpis 1} | ipThroughputDL |
| {lteIpKpis 2} | ipThroughputUL |

**Table O – OID additions/changes for MIB v2.4 VoWiFi**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {debugReserved 2} | wifiInfoHLOS |
| {lteIpMessages 5} | dns-OTA-Message |
| {wifiDebugKpis 1} | wifiInfo |
| {wifiDebugKpis 2} | wifiInternetConnectionStatus |
| {wifiDebugEvents 1} | wifiScanEvent |
| {wifiDebugEvents 2} | wifiAssociationEvent |
| {wifiDebugEvents 3} | wifiReAssociationEvent |
| {wifiDebugEvents 4} | wifiDisconnectionEvent |
| {wifiDebugEvents 5} | wifiAuthenticationEvent |
| {wifiDebugEvents 6} | wifiDeAuthenticationEvent |
| {wifiDebugEvents 7} | wifiPowerSaveEvent |
| {wifiDebugEvents 8} | wifiDhcpFailureEvent |
| {wifiDebugEvents 9} | wifiDnsQueryEvent |
| {wifiIpMessages 5} | wifi-ISAKMP-OTA-Message |
| {wifiIpMessages 6} | wifi-UDPENCAP-OTA-Message |
| {wifiIpMessages 7} | wifi-DNS-OTA-Message |
| {lteIpEvents 1} | lteToWifiHandoverEvent |
| {wifiIpEvents 1} | wifiToLTEHandoverEvent |

**Table P – OID changes for MIB v2.4 -** **chip vendor integration**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {lteMacKpis 7} | srPeriodChangeEvent |
| {lteMacKpis 5} | macDlTransportBlock |
| {lteMacKpis 6} | macUlGrant |
| {ltePhyMeasurements 1} | servingCellMeasurement |
| {ltePhyMeasurements 2} | neighborCellMeasurements |
| {ltePhyMeasurements 10} | pssResult |
| {ltePhyMeasurements 11} | sssResult |
| {ltePhyMeasurements 15} | srsTxPowerMeasurement |
| {ltePhyMeasurements 16} | srsTxReports |
| {ltePhyMeasurements 17} | dciInformationReports |
| {ltePhyPmch 3} | pmchDecodingResults |
| {ltePhyPdsch 3} | pdschDecodingResults |
| {ltePhyPhich 3} | phichDecodingResults |
| {ltePhyPucch 3} | pucchPowerControl |
| {ltePhyPucch 4} | pucchCsf |
| {ltePhyPusch 3} | puschPowerControl |
| {ltePhyPusch 4} | puschCsf |
| {lteRlcKpis 3} | rlcDlStats |
| {lteMacKpis 7} | srPeriodChangeEvent |
| {lteRlcKpis 5} | rlcUlUmDataPdu |
| {ltePhyPdcch 1} | pdcchReport |
| {ltePhyPdcch 2} | pdcchStatistics |
| {ltePhyPdcch 3} | pdcchDecodingResult |
| {lteRrcEvents 2} | handoverEvent |
| {gsmNasEvents 1} | gsmMmStateChangeEvent |
| {umtsNasEvents 1} | umtsGmmStateChangeEvent |
| {imsRtpKpis 5} | rtpJitterBufferDelay |
| {debugEvents 3} | plmnSearchEvent |
| {lteRrcEvents 5} | rrcStateChangeEvent |

**Table Q – OID changes for MIB v2.4.1 -** **chip vendor integration**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {ltePhyEvents 1} | pagingDRXEvent |
| {ltePhyPusch 1} | puschReport |
| {lteRlcKpis 3} | rlcDlStats |
| {lteRlcKpis 4} | rlcUlStats |
| {lteRrcEvents 5} | rrcStateChangeEvent |
| {debugConfig 2} | mibVersion |

**Table R – OID additions/changes for MIB v2.5 eMBMS**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {ltePhyPmch 1} | pmchReport |
| {ltePhyPrach 1} | prachReport |
| {lteMWeMBMSKpis 1} | embmsServiceAnnouncemnet |
| {lteMWeMBMSEvents 1} | embmsSdchReceptionEvent |
| {lteMWeMBMSEvents 2} | embmsSessionStartEvent |
| {lteMWeMBMSEvents 3} | embmsSessionStopEvent |
| {lteMWeMBMSEvents 4} | embmsRejoinServiceTimerExpiredEvent |
| {lteMWeMBMSEvents 5} | embmsOutServiceAreaEvent |
| {lteMWeMBMSEvents 6} | embmsInServiceAreaEvent |
| {lteMWeMBMSEvents 7} | embmsLateSegmentArrivalEvent |
| {lteMWeMBMSEvents 8} | embmsDashHttpErrorEvent |
| {lteMWeMBMSEvents 9} | embmsFileDownloadCompleteEvent |
| {lteMWeMBMSEvents 10} | embmsDashClientLateRequestEvent |
| {lteMWeMBMSFile 1} | embmsServiceInitialization |
| {lteMWeMBMSFile 2} | embmsServiceQuality |

**Table S – OID additions/changes for MIB v2.6 3G Fall Back**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {gsmDebug 1} | gsmStatusReport |
| {gsmNasEvents 2} | gsmGmmStateChangeEvent |
| {gsmPhyKpis 1} | gsmRrCellSelectionAndReselection |
| {gsmPhyKpis 2} | gsmRrRachParameters |
| {gsmPhyKpis 3} | gsmRrServingCellInformation |
| {gsmPhyKpis 4} | gsm3gCellMeasurements |
| {gsmPhyMessages 1} | gsmL1EnhancedMessageMetrics |
| {gsmDataLinkMessages 1} | l2TransmissionStatus |
| {gsmRrKpis 1} | gsmRrChannelConfiguration |
| {gsmRrKpis 2} | gsmRrNeighborCells |
| {gsmRrMessages 1} | gsmRrSignalingMessage |
| {umtsNasKpis 1} | umtsUeOperationConfig |
| {umtsNasKpis 2} | umtsUeDynamicId |
| {umtsNasKpis 3} | umtsUeStaticId |
| {umtsNasKpis 4} | umtsNasEplmnList |
| {umtsNasKpis 5} | umtsNasMmConfig |
| {umtsNasKpis 6} | umtsNasPsConnectionManagementConfig |
| {umtsNasKpis 7} | umtsNasCallQos |
| {umtsNasKpis 8} | umtsNasConnectionBearerConfig |
| {umtsNasKpis 9} | umtsNasCsConnectionManagementCallReleaseInfo |
| {umtsNasKpis 10} | umtsNasCsConnectionManagementCallChangeInfo |
| {umtsNasKpis 11} | umtsNasCsConnectionManagementCallSetupInfo |
| {umtsNasEvents 1} | umtsGmmStateChangeEvent |
| {umtsNasEvents 2} | umtsMmStateChangeEvent |
| {umtsNasMessages 1} | umtsNasOtaMessage |
| {wcdmaRrcKpis 1} | wcdmaRrcProtocolStates |
| {wcdmaRrcKpis 2} | wcdmaSystemInfomation |
| {wcdmaRrcEvents 1} | wcdmaRrcErrorReport |
| {wcdmaRrcMessages 1} | wcdmaRrcSignalingMessages |
| {wcdmaRlcKpis 1} | wcdmaRlcAmUlStatistics |
| {wcdmaRlcKpis 2} | wcdmaRlcAmDlStatistics |
| {wcdmaRlcKpis 3} | wcdmaRlcAmUlConfig |
| {wcdmaRlcKpis 4} | wcdmaRlcAmDlConfig |
| {wcdmaRlcKpis 5} | wcdmaRlcUlState |
| {wcdmaRlcKpis 6} | wcdmaRlcDlState |
| {wcdmaRlcKpis 7} | wcdmaRlcAmUlDataPdu |
| {wcdmaRlcKpis 8} | wcdmaRlcAmUlSignalingPdu |
| {wcdmaRlcKpis 9} | wcdmaRlcAmDlSignalingPdu |
| {wcdmaRlcKpis 10} | wcdmaRlcTmUl |
| {wcdmaRlcKpis 11} | wcdmaRlcUmUl |
| {wcdmaRlcKpis 12} | wcdmaRlcTmDl |
| {wcdmaRlcKpis 13} | wcdmaRlcUmDl |
| {wcdmaRlcKpis 14} | wcdmaRadioBearersThroughput |
| {wcdmaMacKpis 1} | wcdmaMacUlLogicalChannels |
| {wcdmaMacKpis 2} | wcdmaMacUlTrafficMeasurement |
| {wcdmaMacKpis 3} | wcdmaMacDlLogicalChannels |
| {wcdmaMacKpis 4} | wcdmaUlTransportFormatCombinations |
| {wcdmaPhyEvents 1} | wcdmaRachParameters |
| {wcdmaPhyEvents 2} | wcdmaPrach |
| {wcdmaPhyMeasurements 1} | wcdmaCellReselection |
| {wcdmaPhyMeasurements 2} | wcdmaActiveCellSet |
| {wcdmaPhyMeasurements 3} | wcdmaNeighborCellSet |
| {wcdmaPhyMeasurements 4} | wcdmaBler |
| {wcdmaPhyMeasurements 5} | wcdmaDrxCycle |
| {wcdmaPhyMeasurements 6} | wcdmaCrcStatus |
| {wcdmaPhyPhysicalChannels 1} | wcdmaActivePhysicalChannelsUl |
| {wcdmaPhyPhysicalChannels 2} | wcdmaActiveCommonPhysicalChannelsDl |
| {wcdmaPhyPhysicalChannels 3} | wcdmaActiveDedicatedPhysicalChannelsDl |
| {wcdmaPhyTransportChannels 1} | wcdmaActiveTransportChannelsDl |
| {wcdmaPhyTransportChannels 2} | wcdmaActiveTransportChannelsUl |
| {wcdmaPhyTransportChannels 3} | wcdmaDlTransportChannelsConfig |
| {hsupaRlcKpis 1} | hsupaRlcAmUl |
| {hsupaMacKpis 1} | hsupaMacL1 |
| {hsupaMacKpis 2} | hsupaMacL1Stat |
| {hsupaMacKpis 3} | hsupaMac-e-es-Config |
| {hsupaMacKpis 4} | hsupaMac-i-is-Config |
| {hsupaPhyKpis 1} | hsupaDlChannelsConfig |
| {hsupaPhyKpis 2} | hsupaUlChannelsConfig |
| {hsupaPhyKpis 3} | hsupaUlEdpcchConfig |
| {hsupaPhyKpis 4} | hsupaUlEtfc |
| {hsdpaPhyKpis 1} | hsdpaConfig |
| {hsdpaPhyKpis 2} | hsdpaDecodeResults |
| {hsdpaPhyKpis 3} | hsdpaHsscchStat |
| {hsdpaPhyKpis 4} | hsdpaHsdschHarq |
| {hsdpaPhyKpis 5} | hsdpaMacHsConfig |

**Table T – OID changes for MIB v2.6.1**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {lteRrcEvents 1} | cellReselectionEvent |
| {ltePhyPdsch 3} | pdschDecodingResults |
| {ltePhyMeasurements 1} | servingCellMeasurement |
| {ltePhyDebug 1} | lteCellTiming |
| {ltePhyMeasurements 7} | timingAdvanceEvent |
| {ltePhyMeasurements 8} | txPowerHeadroomEvent |
| {ltePhyPdcch 1} | pdcchReport |
| {ltePhyPcfich 3} | pcfichDecodingResults |

**Table U – Comments added/changed for MIB v2.6.1**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {ltePhyDebug 1} | lteCellTiming |
| {ltePhyPdsch 3} | pdschDecodingResults |
| {ltePhyPdsch 1} | pdschReport |
| {ltePhyMeasurements 2} | neighborCellMeasurements |
| {lteRrcEvents 7} | mibSibReadEvent |

**Table V – OID removed from previous MIB (v2.6) in v2.6.1**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {ltePhyMeasurements 3} | dlTransmissionModeValue |
| {ltePhyMeasurements 4} | ulTransmissionModeValue |
| {ltePhyMeasurements 9} | ulMCSValue |

**Table W – OID Changes for MIB v2.6.2**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {ltePhyMeasurements 1} | servingCellMeasurement |
| {lteMacKpis 5} | macDlTransportBlock |
| {ltePhyPusch 4} | puschCsf |
| {ltePhyPucch 4} | pucchCsf |
| {ltePhyPdsch 2} | pdschStatistics |
| {ltePhyPdsch 1} | pdschReport |
| {ltePhyMeasurements 15} | srsTxPowerMeasurement |
| {ltePhyPmch 1} | pmchReport |
| {ltePhyMeasurements 2} | neighborCellMeasurements |
| {ltePhyPcfich 3} | pcfichDecodingResults |
| {ltePhyPbch 3} | pbchDecodingResults |
| {ltePhyMeasurements 10} | pssResult |
| {ltePhyPhich 1} | phichReport |
| {ltePhyPdcch 3} | pdcchDecodingResult |
| {ltePhyPdcch 2} | pdcchStatistics |
| {ltePhyPdcch 1} | pdcchReport |

**Table X – OID Added for MIB v2.6.3**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {imsSipEvents 2} | sipRegistrationEvent |
| {imsSipEvents 3} | sipPublishEvent |
| {imsSipEvents 4} | sipSubscriptionEvent |
| {imsSipEvents 5} | volteCallStateChangeEvent |

**Table Y – OID Changes for MIB v2.7**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {lteRrcEvents 1} | cellReselectionEvent |
| {lteRrcEvents 2} | handoverEvent |
| {lteNasKpis 1} | esmContextInfo |
| {lteMacKpis 5} | macDlTransportBlock |
| {lteMacEvents 1} | macRachAttemptEvent |
| {lteMacEvents 2} | macRachAttemptReason |
| {ltePdcpKpis 3} | pdcpDlStats |
| {ltePdcpKpis 4} | pdcpUlStats |
| {ltePhyPdsch 1} | pdschReport |
| {ltePhyPucch 1} | pucchReport |
| {ltePhyPusch 1} | puschReport |

**Table Z – OID Added for MIB v2.7**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {lteRrcEvents 9} | outOfService |
| {lteRrcEvents 10} | mobilityFromEutranStart |
| {lteRrcEvents 11} | mobilityFromEutranFailed |
| {lteRrcEvents 12} | sibReadFailure |
| {lteRrcEvents 13} | embmsOutOfService |
| {lteRrcEvents 14} | cellBlacklist |
| {lteRrcEvents 15} | caConfiguration |
| {lteRrcEvents 16} | cellReselectionStart |
| {lteRrcEvents 17} | measurementReport |
| {lteRrcEvents 18} | rrcTimerStatus |
| {lteMacKpis 8} | macUlTransportBlock |
| {lteMacKpis 9} | macUlTxStatistics |
| {lteMacEvents 4} | macReset |
| {lteMacEvents 5} | macConfiguration |
| {lteMacEvents 6} | macRachConfiguration |
| {lteMacEvents 7} | macUlConfiguration |
| {lteMacEvents 8} | macTimerStatus |
| {lteMacEvents 9} | macTimingAdvance |
| {lteMacEvents 10} | bsrAndSrEvent |
| {ltePhyMeasurements 18} | ulGrantMcsIndex |
| {ltePhyMeasurements 19} | radioLinkMonitoring |
| {ltePhyEvents 2} | txPowerBackOff |
| {ltePhyEvents 3} | message3Report |
| {lteSuplKpis 1} | suplStatistics |
| {lteSuplMessages 1} | suplMessage |
| {lteLppKpis 1} | lppStatistics |
| {lteLppMessages 1} | lppMessage |
| {lteE911Kpis 1} | emergencyCallStatistics |

**Table AA – OID Changes for MIB v2.7.1**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {lteIpEvents 1} | lteToWifiHandoverEvent |
| {wifiIpEvents 1} | wifiToLTEHandoverEvent |
| {umtsNasKpis 1} | umtsUeOperationConfig |
| {ltePdcpMessages 1} | pdcp-OTA-Message |
| {ltePhyPusch 1} | puschReport |
| {ltePhyPucch 1} | pucchReport |
| {ltePhyPusch 4} | puschCsf |

**Table AB – OID Added for MIB v2.7.1**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {wifiDebugEvents 10} | wifiNatKeepAliveEvent |
| {wifiDebugEvents 11} | wifiDpdIntervalEvent |

**Table AC – OID Removed from previous MIB (v2.7) in MIB v2.7.1**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {wifiIpMessages 6} | wifi-UDPENCAP-OTA-Message |

**Table AD –Comments added/changed in MIB v2.7.1**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {ltePhyMeasurements 2} | neighborCellMeasurements |
| {ltePhyMeasurements 10} | pssResult |
| {ltePhyMeasurements 11} | sssResult |
| {lteMWeMBMSEvents 5} | embmsOutServiceAreaEvent |
| {lteMWeMBMSEvents 6} | embmsInServiceAreaEvent |
| {ltePhyDebug 1} | lteCellTiming |
| {debugConfig 1} | deviceName |
| {debugConfig 2} | mibVersion |
| {ltePhyPusch 4} | puschCsf |
| {ltePhyPucch 4} | pucchCsf |
| {ltePhyMeasurements 1} | servingCellMeasurement |
| {ltePhyPusch 1} | puschReport |
| {ltePhyPucch 1} | pucchReport |
| {umtsNasKpis 1} | umtsUeOperationConfig |
| {wcdmaPhyMeasurements 1} | wcdmaCellReselection |

**Table AE – OID Changes for MIB v2.7.2**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {lteRlcKpis 3} | rlcDlStats |
| {lteRlcKpis 4} | rlcUlStats |
| {ltePhyPmch 3} | pmchDecodingResults |
| {lteMacKpis 5} | macDlTransportBlock |

**Table AF –Comments added/changed in MIB v2.7.2**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {lteRrcEvents 15} | caConfigurationEvent |
| {lteMacEvents 1} | macRachAttemptEvent |
| {lteMacEvents 2} | macRachAttemptReasonEvent |

**Table AG – OID Added for MIB v2.8**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {lteMWeMBMSEvents 11} | embmsBootconfigFileEvent |
| {lteMWeMBMSEvents 12} | embmsSAFileEvent |
| {lteMWeMBMSEvents 13} | embmsRegisteredAppListEvent |
| {lteMWeMBMSEvents 14} | embmsServiceAnnouncementEvent |
| {lteMWeMBMSEvents 15} | embmsAppRegisteredEvent |
| {lteMWeMBMSEvents 16} | embmsOffsetTimeFREvent |
| {lteMWeMBMSEvents 17} | embmsRandomTimePeriodFREvent |
| {lteMWeMBMSEvents 18} | embmsOffsetTimeRREvent |
| {lteMWeMBMSEvents 19} | embmsRandomTimePeriodRREvent |
| {lteMWeMBMSEvents 20} | embmsChannelChangeTimeEvent |

**Table AH – OID Changes for MIB v2.8**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {ltePhyDebug 1} | lteCellTiming |
| {ltePhyPbch 3} | pbchDecodingResults |
| {ltePhyPmch 1} | pmchReport |
| {ltePhyMeasurements 17} | dciInformationReports |
| {ltePhyPusch 1} | puschReport |
| {lteRrcEvents 7} | mibSibReadEvent |
| {ltePhyPdsch 3} | pdschdecodingresults |

**Table AI –Comments added/changed in MIB v2.8**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {lteMWeMBMSEvents 2} | embmsSessionStartEvent |
| {lteMWeMBMSEvents 3} | embmsSessionStopEvent |
| {lteMWeMBMSEvents 8} | embmsDashHttpErrorEvent |
| {lteMacEvents 1} | macRachAttemptEvent |

**Table AJ – OID removed from previous MIB (v2.7.2) in MIB v2.8**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {lteMWeMBMSKpis 1} | ServiceAnnouncemnet |
| {lteMWeMBMSFile 1} | ServiceInitialization |

**Table AK – OID Changes for MIB v2.8.1**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {ltePdcpKpis 3} | pdcpDlStats |
| {ltePdcpKpis 4} | pdcpUlStats |
| {ltePhyPmch 1} | pmchReport |
| {lteMWeMBMSEvents 2} | embmsSessionStartEvent |
| {lteMWeMBMSEvents 3} | embmsSessionStopEvent |
| {lteMWeMBMSEvents 7} | embmsLateSegmentArrivalEvent |
| {lteMWeMBMSEvents 8} | embmsDashHttpErrorEvent |
| {lteMWeMBMSEvents 9} | embmsFileDownloadCompleteEvent |
| {lteMWeMBMSEvents 10} | embmsDashClientLateRequestEvent |
| {lteMWeMBMSEvents 14} | embmsServiceAnnouncementEvent |
| {lteMWeMBMSEvents 16} | embmsOffsetTimeFREvent |
| {lteMWeMBMSEvents 17} | embmsRandomTimePeriodFREvent |
| {lteMWeMBMSEvents 18} | embmsOffsetTimeRREvent |
| {lteMWeMBMSEvents 19} | embmsRandomTimePeriodRREvent |
| {lteMWeMBMSEvents 20} | embmsChannelChangeTimeEvent |
| {lteMWeMBMSFile 2} | embmsServiceQuality |
| {lteRrcEvents 7} | mibSibReadEvent |
| {hsdpaPhyKpis 5} | hsdpaMacHsConfig |

**Table AL – OID Changes for MIB v2.8.2**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {ltePhyPdsch 1} | pdschReport |
| {ltePhyPdsch 3} | pdschDecodingResults |
| {ltePhyPucch 1} | pucchReport |
| {ltePhyPusch 1} | puschReport |
| {ltePhyPdcch 1} | pdcchReport |
| {ltePhyPdcch 3} | pdcchDecodingResult |
| {ltePdcpKpis 3} | pdcpDlStats |
| {ltePdcpKpis 4} | pdcpUlStats |

**Table AM –Comments added/changed in MIB v2.8.2**

|  |  |
| --- | --- |
| **Category** | **OID Name** |
| {ltePhyPdcch 2} | pdcchStatistics |
| {ltePhyPusch 4} | puschCsf |
| {ltePhyPucch 4} | pucchCsf |