IEEE P802.11  
Wireless LANs

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| Clause 6.3 – Proposed New Text | | | | |
| Date: 2022-07 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Graham SMITH | SR Technology | Sunrise, FL, USA. | 916 799 9563 | [gsmith@srtrl.com](mailto:gsmith@srtrl.com) |
| Mark HAMILTON |  |  |  |  |
| Joseph LEVY | InterDigital | 111 W 33 St, NY, NY, USA | +1 631 622 4139 | jslevy@ieee.org |

Abstract

Proposed Text to replace 6.3

Note: Instructions will also be added to delete 6.3 references from main body. References to the primitives, to be left in. See 21/1822r2.

REV 1 – Work on the Table with Notes.

REV 2 – More references found for the Table

Types have been re-numbered.

Changes required for the main text has been added

REV 3 – Changes made based on TG meeting June 11, 2022.

Editor – Please note that TEXT REFERENCED TO DRAFT 802.11me 1.1

**6.3 MLME SAP interface**

**6.3.1 Introduction**

The services provided by the MLME to the SME are specified in this subclause. These services are described in an abstract way (following the model described in ITU-T Recommendation X.210 [B55]) and do not imply any particular implementation or exposed interface. MLME SAP primitives are of the general form ACTION.request primitive followed by ACTION.confirm primitive (for an exchange initiated by the SAP client) and ACTION.indication primitive followed by ACTION.response primitive (for an exchange initiated by the MLME). The SME uses the services provided by the MLME through the MLME SAP.

The primitives generally include a STA Address or a Peer STA address. The .confirm primitive generally contains a Result Code. The primitives in 6.4 may be used as a guide to the detailed formats of primitives. Parameters that are known to the MLME are not required in the primitive parameters.

There are seven general forms of MLME-SAP interface primitives.

**6.3.1.1 Type 1**

Figure 6.x depicts Type 1. The Type 1 general form is used for the exchange of request/response frames between an initiating STA and a peer STA.

**FIGURE 6.x – Type 1 form of MLME SAP primitives for request/response process**



The .request primitive is generated by the SME of the initiating STA to request that a Request frame is sent to a peer STA.

The .indication primitive is generated by the MLME of the peer STA when the Request frame is received.

The .response primitive is generated by the SME of the peer to request that a Response frame be sent to the initiating STA.

The .confirm primitive includes a Result Code reporting success or failure of the request, and is generated by the MLME of the initiating STA when the either Response frame from the peer STA is acknowledged, or the (re)transmission of the request frame fails.

**6.3.1.2 Type 2**

Figure 6.xx depicts Type 2. The Type 2 general form is used for the transmission of a frame from one STA to a peer STA that does not require a response from the peer STA but does require a confirmation that the frame was transmitted and either acknowledged or timed out.

**FIGURE 6.xx – Type 2 form of MLME SAP primitives for frame transmission not requiring a response, but requiring a confirmation**

The .request primitive is generated by the SME of the initiating STA to request that a Request frame is sent to a peer STA.

The .confirm primitive generally includes a Result Code reporting success or failure of the request, and is generated by the MLME when the requested action of process is completed, or fails.

The .indication primitive is generated by the MLME of the peer STA when the Request frame is received.

**6.3.1.3 type 3**

Figure 6.xxx depicts Type 3. The Type 3 general form is used for the transmission of a frame from one STA to a peer STA that does not require a response from the peer STA or a confirmation.

**FIGURE 6.xxx – Type 3 form of MLME SAP primitives for frame transmission not requiring a response or a confirmation**

The .request primitive is generated by the SME of the initiating STA to request that a Request frame is sent to a peer STA.

The .indication primitive is generated by the MLME of the peer STA when the Request frame is received.

**6.3.1.4 Type 4**

Figure 6.xxxx depicts Type 4. The Type 4 general form is used for the transmission of a frame that does not require a response, but does require a confirmation that it was sent.

**FIGURE 6.xxxx – Type 4 form of MLME SAP primitives for a frame transmission from a STA, but does require a confirmation that it was sent**



The .request primitive is generated by the SME to request that the MLME transmits a frame.

The .confirm primitive generally includes a Result Code reporting success or failure of the request, and is generated by the MLME when the requested frame transmission is completed, or fails.

**6.3.1.5 Type 5**

Figure 6.xxxxx depicts Type 5. The Type 5 general form is used for the SME requesting a process to be initiated or information to be provided by the MLME.

**FIGURE 6.xxxxx – Type 5 form of MLME SAP primitives for SME requesting MLME to perform a process**



The .request primitive is generated by the SME to request that a process is initiated by the MLME.

The .confirm primitive generally includes a Result Code reporting success or failure of the request, and is generated by the MLME when the requested action of process is completed, or fails.

**6.3.1.6 Type 6**

Figure 6.xxxxxx depicts Type 6. The Type 6 general form is used for the SME requesting a process to be initiated by the MLME and the SME does not require a confirmation

**FIGURE 6.xxxxxx – Type 6 form of MLME SAP primitives for SME requesting MLME to perform a process not requiring a confirmation**



The .request primitive is generated by the SME to request that a process is initiated by the MLME.

**6.3.1.7 Type 7**

Figure 6.xxxxxxx depicts Type 7. The Type 7 general form is used when the MAC informs the SME of an event.

**FIGURE 6.xxxxxxx – Type 7 form of MLME SAP primitives for MAC informing SME of an event**



The .indication primitive is generated by the MLME to inform the SME of an event.

**6.4 MLME-SAP Primitives**

MLME-SAP primitives are detailed in this clause when they do not directly correspond to frame exchanges described in Clause 9, 11, 12, 13 or 14, where the primitive parameters differ significantly from the fields in the respective frames, or when the primitives may not be clear from the descriptions in Clauses 9, 11, 12, 13 or 14.

***Editor: Include the following in full, renumbering the subclause:***

Old subclause New subclause

6.3.2 6.4.1 MLME-POWERMGT

6.3.3 6.4.2 MLME SCAN

MLME-SCAN-STOP

6.3.4 6.4.3 MLME-JOIN (synchronization)

6.3.5 6.4.4 MLME AUTHENTICATE

6.3.6 6.4.5 MLME DEAUTHENTICATE

6.3.7 6.4.6 MLME ASSOCIATE

6.3.8 6.4.7 MLME REASSOCIATE

6.3.9 6.4.8 MLME DISASSOCIATE

6.3.10 6.4.9 MLME RESET

6.3.11 6.4.10 MLME START

6.3.12 6.4.11 MLME STOP

6.3.13 6.4.12 Protocol layer model for spectrum management and radio

measurement

6.3.19 6.4.13 MLME SETKEYS

6.3.20 6.4.14 MLME DELETEKEYS

6.3.23 6.4.15 MLME SETPROTECTION

6.3.92 6.4.16 PN event report

Editor – delete all remaining 6.3 clauses

**6.5 Table of MLME SAP interfaces**

Table 6.4 x lists the diagnostic report name, the MLME SAP interface primitives, and the Type as defined in 6.3.1.

.

**Table 6.5.x MLME SA interface**

| **Diagnostic report Name** | **MLME-** | **Type** | **References** | **Comments** |
| --- | --- | --- | --- | --- |
| Power management | POWERMGT | 2 | 6.4.1 | see 11.2 |
| Scan | SCAN | 2 | 6.4.2 |  |
| SCAN-STOP | 6 |  |  |
| Synchronization | JOIN | 5 | 6.4.3 | see 11.1 |
| Authenticate | AUTHENTICATE | 1 | 6.4.4 | see 11.3.4 |
| Deauthenticate | DEAUTHENTICATE | 2 | 6.4.5 | see 11.3.4 |
| Associate | ASSOCIATE | 1 | 6.4.6 | see 11.3.5 |
| Reassociate | REASSOCIATE | 1 | 6.4.7 |
| Disassociate | DISASSOCIATE | 2 | 6.4.8 |
| Reset | RESET | 6 | 6.4.9 |  |
| Start | START | 5 | 6.4.10 |  |
| Stop | STOP | 6 | 6.4.11 |  |
| Measurement request | MREQUEST | 3 | 6.4.12, 9.6.2, 9.6.6 |  |
| Channel measurement | MEASURE | 2 | 6.4.12,9.4.2.20, 9.4.2.21 | Contains Measurement Request elements |
| Measurement report | MREPORT | 3 | 6.4.12, 9.4.2.21 | Contains Measurement Request elements |
| Channel switch | CHANNELSWITCH | 1 | 6.4.12, 9.6.2.6, 9.4.2.18 |  |
| TPC request | TPCADAPT | 4 | 6.4.12, 9.6.2.4, 9.6.2.5, 11.7.7 | TPC request and response frames |
| SetKeys | SETKEYS | 6 | 6.4.13 |  |
| DeleteKeys | DELETEKEYS | 6 | 6.4.14 |  |
| MIC (michael) failure event | MICHAELMICFAILURE | 7 | 12.5.2.4 |  |
| EAPOL | EAPOL | 5 | 12.7.2 |  |
| SetProtection | SETPROTECTION | 6 | 6.4.15 |  |
| Protected frame dropped | PROTECTEDFRAMEDROPPED | 7 | 12.6.18 |  |
| TS management interface | ADDTS | 1 | 9.6.3.3, 9.6.3.2 | See 10.23.3 and 10.23.4 |
|  | DELTS | 7 | 9.6.3.4, 9.4.1.16 |
|  | ADDTSRESERVE | 1 | 9.6.3.7, 9.6.3.8 |
| Higher layer synchronization support | HL-SYNC | 3 | 11.6 |  |
| Block Ack | ADDBA | 1 | 9.3.1.7, 9.6.4.2, 9.6.4.3 | See 10.25  Block Ack Parameter Set 9.4.1.13  See DELBA frame parameters 9.4.1.16 |
| DELBA | 3 | 9.6.4.4, 9.4.1.16 |
| Schedule element management | SCHEDULE | 3 | 9.4.2.33 |  |
| Vendor-specific action | VSPECIFIC | 3 | 9.6.5 | Request sending a Vendor Specific frame |
| Neighbor report | NEIGHBORREPREQ | 3 | 9.6.6.6 | See 11.10.10  Element 9.4.2.36 |
| NEIGHBORREPRESP | 3 | 9.6.6.7 |
| Link Measure Request | LINKMEASUREREQ | 3 | 9.6.6.4 | See 11.10.11 |
| LINKMEASURERES | 3 | 9.6.6.5 |
| Resource request | RESOURCE-REQUEST | 1 | 13.8.4 | See 13.8 |
| RESOURCE-REQUEST-LOCAL | 5 | 13.11.2 |
| Remote request | REMOTE-REQUEST | 3 | 9.6.8 | See 13.5.3, 13.9, 13.10.1  Sends over the DS requests |
| Extended channel switch announcement | EXTCHANNELSWITCH | 1 | 9.6.7.7,  9.4.2.52 | See 11.8.8.4.3 |
| DSE power constraint announcement | DSETPC | 1 | 9.6.7.10, | See 11.11.5  See 4.3.12 |
| Enablement | ENABLEMENT | 1 | 9.6.7.4 | See 11.11.2 |
| Deenablement | DEENABLEMENT | 3 | 9.6.7.5 | See 11.11.2 |
| SA Query support | SA-QUERY | 1 | 9.6.9.2 | See 11.3.5.3  Response has same parameters as request |
| Get TSF timer | GETTSFTIME | 5 |  | Request has no parameters. |
| Timing Advertisement | TIMING-ADVERTISEMENT | 3 | 9.4.2.60 | See 11.19.2 |
| TDLS Discovery | TDLSDISCOVERY | 1 | 9.6.12.12, 9.6.7.16 | See 11.20.3 |
| TDLS direct-link establishment | TDLSSETUPREQUEST | 3 | 9.6.12.2 | See 11.20  . |
| TDLSSETUPRESPONSE | 3 | 9.6.12.3 |
| TDLSCONFIRM | 3 | 9.6.12.4 |
| TDLSPOTENTIALPEERSTA | 5 |  |
| TDLS direct link teardown | TDLSTEARDOWN | 3 | 9.6.12.5 | See 11.20 |
| TDLS peer U-APSD | TDLSSPTI | 1 | 9.6.12.6 |
| TDLS channel switch | TDLSCHANNELSWITCH | 1 | 9.6.12.7, 9.6.12.8 |
| TDLS peer PSM | TDLSPEERPSM | 1 | 9.6.12.9, 9.6.12.10 |
| Event | EVLREQUEST | 3 | *9.6.13.2,* | See 11.21.2 |
| EVLREPORT | 3 | *9.6.13.3,* |
| EVLOG | 5 |  |
| Diagnostic request report | DIAGREQUEST | 3 | *9.6.13.4, 9.4.2.69* | See 11.21.3 |
| DIAGREPORT | 3 | *9.6.13.5, 9.4.2.69* |
| Location configuration request | LOCATIONCFG | 1 | *9.6.13.6, 9.6.13.7,*  *9.4.2.70* | See 11.21.4 |
| Location track notification | LOCATIONTRACKNOTIF | 3 | *9.6.13.6, 9.4.2.70* |
| Timing measurement | TIMINGMSMTRQ | 3 | *9.6.13.28* | See 11.21.5 |
| TIMINGMSMT | 2 | *9.6.14.3* |
| Fine timing measurement (FTM) | FINETIMINGMSMTRQ | 3 | *9.6.7.32* | See 11.21.6 |
| FINETIMINGMSMT | 2 | *9.6.7.33* |
| BSS transition management | BTMQUERY | 3 | *9.6.13.8* | See 11.21.7.2 |
| BTM | 1 | *9.6.13.9, 9.6.13.10* | See 11.21.7.3 and 11.21.7.4 |
| FMS setup | FMS | 1 | *9.4.2.75, 9.4.2.76* | See 11.21.8 |
| Collocated Interference request report | CLINTERFERENCEREQUEST | 3 | *9.6.13.13* | See 11.21.9 |
| CLINTERFERENCEREPORT | 3 | *9.6.13.14, 9.4.2.84* |
| TFS setup | TFS | 1 | *9.6.13.15, 9.6.13.16, 9.4.2.79, 9.4.2.80* | See 11.21.12 |
| WNM sleep mode request | SLEEPMODE | 1 | *9.4.2.79, 9.4.2.80* | See 11.2.3.16 |
| TIM broadcast setup | TIMBROADCAST | 1 | *9.4.2.82, 9.4.2.83* | See 11.2.3.15 |
| QoS traffic capability update | QOSTRAFFICCAPUPDATE | 3 | *9.6.13.23,* | See 11.21.10 |
| Channel Usage request | CHANNELUSAGE | 1 | *9.6.13.24, 9.6.13.25, 9.4.2.85,* | See 11.21.15 |
| DMS or GCR request and response procedure | GATS | 1 | *9.6.12.26, 9.4.2.87, 9.6.12.2, 9.4.2.88* | See 11.21.16  . |
| GATS-TERM | 3 | *9.6.12.2, 9.4.2.88* |
| WNM notification request response | WNMNOTIFICATIONREQUEST | 3 | *9.6.13.29* | See 11.21.17 |
|  | WNMNOTIFICATIONRESPONSE | 3 | *9.6.13.30* |
| Network discovery and selection support | GAS | 1 | 9.6.7.12  9.6.7.13 | See 11.22.3, 11.23 |
| QoS Map element management | QOS-MAP | 3 | 9.6.3.6 | See 11.22.9 |
| Mesh peering management | MESHPEERINGMANAGEMENT | 1 | 9.6.15.2, 9.6.15.3,  9.6.15.4 | See 14.3, 14.4 |
| Mesh power management | MESHPOWERMGT | 5 |  | See 14.14.2, 14.14.3 |
| Mesh neighbor offset synchronization | MESHNEIGHBOROFFSETSYNCSTART | 5 |  | See 14.13 |
| MESHNEIGHBOROFFSETCALCULATE | 5 |  |
| MESHNEIGHBOROFFSETSYNCSTOP | 5 |  |
| Mesh TBTT adjustment | MESHTBTTADJUSTMENT | 1 | 9.6.16.11, 9.6.16.12, | See 14.13.4 |
| MCCA management interface | ACTIVATEMCCA | 6 | 10.24.3.2 |  |
| MCCASETUP | 1 | 9.6.16.6, 9.6.16.7, | See 10.24.3.6 |
| MCCAADVERTISEMENT | 1 | 9.6.16.8, 9.6.16.9, | See 10.24.3.7 |
| MCCATEARDOWN | 3 | 9.6.16.10, | See 10.24.3.8 |
| MBSS congestion control | MBSSCONGESTIONCONTROL | 3 | 9.6.16.5, | See 14.12.2 |
| MBSS proxy update | MBSSPROXYUPDATE | 1 | 9.6.17.2, 9.6.17.3, | See 14.11.4.3 |
| MBSS mesh gate announcement | MBSSGATEANNOUNCEMENT | 3 | 9.6.16.4 | See 14.11.2 |
| Mesh link metric | MESHLINKMETRICREAD | 5 |  | 14.9.2 |
| MESHLINKMETRICREPORT | 3 | 9.6.16.2, | See 14.8.3, 14.9 |
| HWMP mesh path selection | HWMPMESHPATHSELECTION | 3 | 9.6.16.3, | See 14.10 |
| QMF policy | QMFPOLICY | 3 | 9.6.7.18, | See 11.24.2 |
| QMFPOLICYCHANGE | 3 | 9.6.7.19, |
| QMFPOLICYSET | 6 |  |
| SCS request and response procedure | SCS | 1 | 9.6.18.2, 9.6.18.3, | See 11.25.2. |
| SCS-TERM | 3 |  | See 11.25.2 |
| QLoad report management | QLOAD | 1 | 9.6.7.20, 9.6.7.21, | See 11.26.2 |
| HCCA TXOP advertisement management | TXOPADVERTISEMENT | 1 | 9.6.7.22, 9.6.7.23, | See 11.26.3 |
| GCR group membership management | GROUP-MEMBERSHIP | 1 | 9.6.18.4, 9.6.18.5, | See 11.21.16.3.2 |
| AP PeerKey management | APPEERKEY | 3 | 9.6.7.24, | See 12.10.2 |
| On-channel Tunneling operation | OCTunnel | 7 | 9.6.7.47, 9.6.20.7, | See 11.31.5 |
| Multi-band operation | FST-SETUP | 1 | 9.6.20.2, 9.6.20.3, | See 11.31.3  . |
| FST-ACK | 1 | 9.6.20.5, 9.6.20.6, | See 11.31.3 |
| FST-TEARDOWN | 3 | 9.6.20.4 | See 11.31.4 |
| FST-INCOMING | 6 |  | See 11.31.3.2 |
| DMG relay operation | RELAY-SEARCH | 1 | 9.6.19.8, 9.6.19.9, | See 11.34.2  . |
| RLS | 1 | 9.6.19.12, 9.6.19.13, | See 11.34.2.4 |
| RLS-TEARDOWN | 3 | 9.6.19.15, | See 11.34.4 |
| Quieting adjacent BSS operation | QAB | 1 | 9.6.7.34, 9.6.7.35 | See 11.35 |
| DMG beamforming | BF-TRAINING | 2 | 10.42 | . |
| SU-MIMO-BF-TRAINING | 2 |  |
| MLME-MU-MIMO-BF-TRAINING | 2 |  |
| SU-MIMO-HYBRID-BF-PROTOCOL | 2 |  |
| MU-MIMO-HYBRID-BF-PROTOCOL | 2 |  |
| PN event report | PN-EXHAUSTION | 7 | *6.4.16* | See 12.5.3.3.2  12.5.4.4  12.5.5.3.2  12.6.1.18 |
| PN-WARNING | 7 | See 12.6.21 |
| Channel Availability Query | CHANNELAVAILABILITYQUERY | 1 | 9.6.7.25 | See 11.42.4  . |
| Channel schedule management | CHANNELSCHEDULEMANAGEMENT | 1 | 9.6.7.26 | See 11.42.5 |
| Contact verification signal | CVS | 3 | 9.6.7.27 | See 11.42.6 |
| GDD Enablement | GDDENABLEMENT | 1 | 9.6.7.28, 9.6.7.29 | See 11.42.2, 11.42.3 |
| Network channel control management | NETWORKCHANNELCONTROL | 1 | 9.6.7.30 | See 11.42.7 |
| White space map (WSM) | WSM | 3 | 9.6.7.31, | See 11.42.8 |
| Estimated Throughput | ESTIMATED-THROUGHPUT | 5 |  | See 11.44  . |
| Get authentication and association state | GETAUTHASSOCSTATE | 5 |  | See 11.3.1 |
| FILS Container | FILSContainer | 1 | 9.6.23.2  9.4.2.184 | See 11.45.3.3 |
| Dynamic AID assignment operation | AIDSWITCH | 1 | 9.6.24.2  9.6.24.3 | See 10.20 |
| Sync Control | SYNCCONTROL | 3 | 9.6.24.4 | See 10.49 |
| STA Information Announcement | STAINFORMATION | 3 | 9.6.24.5 | See 10.20 and 10.54.5.3 |
| EDCA Parameter Set update | EDCAPARAMETERSET | 3 | 9.6.24.6 | See 10.2.3.2 |
| EL Operation | ELOPERATION | 3 | 9.6.24.7 | See 10.62 |
| TWT Setup | TWTSETUP | 1 | 9.6.24.8 | See 10.47.7 |
| TWT Teardown | TWTTEARDOWN | 3 | 9.6.24.9 | See 10.47.8 |
| Sectorized Group ID List management | SECTORIZEDGROUPID | 3 | 9.6.24.10 | See 10.53.3 |
| Header Compression procedure | HEADERCOMPRESSION | 1 | 9.6.25.5 | See 10.58 |
| Reachable Address Update | REACHABLEADDRESSUPDATE | 3 | 9.6.25.2 | See 10.54.2 |
| Control response MCS negotiation operation | CONTROLRESPONSEMCS | 1 | 9.6.27.2  9.6.27.3 | See 10.6.5.3 |
| S1G relay (de)activation | S1GRELAYACTIVATE | 1 | 9.6.25.3  9.6.25.4 | See 10.54.2 |
| DCS procedure | DCSMEASUREMENT | 1 | 9.6.7.37  9.6.7.38 | See 11.47 |
| Update | UPDATE | 5 |  | ServiceHint and ServiceHash |
| MSCS request and response procedure | MSCS | 1 | 9.6.18.6  9.6.18.7 | See 11.25.3 |
| MSCS-TERM | 3 | 9.6.18.7 |
| MAC Address Update | UPDATEMACADDRESS | 5 | 12.2.10 | MAC address change required |
| Quiet time period | QTP | 1 | 9.6.31.3 | See 26.17.5.2,  26.17.5.3 |
| TDD beamforming | TDD-BF-TRAINING | 2 | 10.42 | TDD beamforming training procedures |
| TDD sector switch | TDD-SECTOR-SWITCH | 2 |  | See 11.36.3 |
| TDD beam measurement | TDD-BEAM-MEASUREMENT | 2 | 10.42.11 | See 11.36.4  TDD beamforming  TDD beam measurment |
| TDD structure and schedule | TDD-SLOT-STRUCTURE | 5 | 9.4.2.281 | See 10.39.6.2.2  See 11.54 |
| TDD-SLOT-SCHEDULE | 5 | 9.4.2.282 |
| TDD-SLOT-ANNOUNCE | 2 | 9.4.2.281  9.4.2.282 |
| TDD-BANDWIDTH | 2 | 9.4.2.285 |
| WUR mode setup | WURMODESETUP | 1 | 9.6.33.2 | See 29.8.2, |
| WUR mode teardown | WURMODETEARDOWN | 3 | 9.6.33.3 | See 29.8.2 |
| WUR Discovery | WURDISCOVERY | 5 | 9.9.3.3 | See 29.12 |

*At the following locations edit as shown*

**10.3.1 DCF General P2084.37**

All non-DMG STAs that are members of a BSS are able to receive and transmit at all of the data rates in the BSSBasicRateSet parameter of the MLME-START.request primitive or BSSBasicRateSet parameter of the SelectedBSS parameter of the MLME-JOIN.request primitive; see ~~6.3.4.2.4~~ 6.4.3.2.4 (Effect of receipt) and ~~6.3.11.2.4~~ 6.4.10.2.4 (Effect of receipt).

P2084.34

All DMG STAs that are members of a BSS are able to receive and transmit using all of the MCSs in the OperationalRateSet parameter of the MLME-START.request primitive or OperationalRateSet parameter of the SelectedBSS parameter of the MLME-JOIN.request primitive; see ~~6.3.4.2.4~~ 6.4.3.2.4 (Effect of receipt) and ~~6.3.11.2.4~~ 6.4.10.2.4 (Effect of receipt).

**11.1.4.3.4 - Criteria for sending a response P2675.51**

A FILS STA shall not respond to a Probe Request frame if….

7) If the OUI Response Criteria field is present in the FILS Request Parameters element and if any of the OUIs specified by the OUI Response Criteria field are not in the list of known OUIs configured in the AP (see Known OUIs, ~~6.3.5.2.2~~ 6.4.10.2.2 (Semantics of the service primitive)).

**11.1.4.5. Synchronizing with a BSS** P2685.63

In addition to adopting the synchronization parameters as described in the first paragraph of this subclause, a STA joining an IBSS shall adopt each of the parameters found in the SelectedBSS parameter of the MLMEJOIN.request primitive according to the rule found for that parameter in the “IBSS adoption” column of the matching row of the BSSDescription table found in ~~6.3.3.3.2~~ 6.4.2.3.2 (Semantics of the service primitive) when those parameters exist at the STA.

P2686.7

In addition to the table entries in ~~6.3.3.3.2~~ 6.4.2.3.2 (Semantics of the service primitive), if dot11MultiDomainCapabilityActivated is true, a S TA that is joining an IBSS and receives a Beacon or Probe Response frame containing a Country element shall adopt the applicable parameters included in that Country element, and the dot11RegDomainsSupportedEntry shall be set to Other

**11.2.3.16.1 WNM sleep mode capability** 2715.12

To prevent key reinstallation attacks, a non-AP STA in which dot11WNMSleepModeActivated is true shall maintain a copy of the most recent GTK, most recent IGTK and most recent BIGTK installed when exiting WNM sleep mode and shall not install a GTK, IGTK or BIGTK when the key to be set upon exiting WNM sleep mode matches either of the two maintained keys (see 6.3.~~19~~13(SetKeys)).

2769.13

The contents of the TSPEC or DMG TSPEC field, TCLAS element(s) (if present), TCLAS Processing element (if present), and ResultCode field ~~contain values specified in 6.3.25.5.2 (Semantics of the service primitive).~~ are contained in theMLME-ADDTS.response primitive.

**11.20.1 General**

Editor - Add at end of 11.20.1 following sentences and then the Figure

Figure 11-xx (TDLS direct-link establishment) depicts the TDLS direct-link establishment process. The figure is an example of only the basic procedure and is not meant to be exhaustive of all possible uses of the protocol.

Editor - Add FIG 6-7, renumbered as FIG 11-xx

**11.21.5 Timing Measurement procedure** P2891.55

The receiving STA captures the time at which the Timing Measurement frame arrives (t2) and the time at which the Ack frame response is transmitted (t3). The sending STA captures the time at which the Ack frame arrives (t4). ~~See Figure 6-16 (Timing measurement primitives and timestamps capture) in 6.3.55 (Timing measurement).~~

2892.1

The offset of the clock at the receiving STA with respect to the clock at the sending STA is calculated using Equation (11-4) (assuming a symmetric wireless channel). ~~See Figure 6-16 (Timing measurement primitives and timestamps capture) in 6.3.55 (Timing measurement).~~

**11.24.2.2 QMF policy change in an infrastructure BSS or in an MBSS** P2967.57

The SME of a peer QMF STA uses the MLME-QMFPOLICY primitives ~~(see 6.3.81.2 (MLMEQMFPOLICY.request) to 6.3.81.3 (MLME-QMFPOLICY.indication))~~ to transmit a QMF Policy frame to a peer STA

2968.1

The SME of a peer QMF STA uses the MLME-QMFPOLICYCHANGE primitives ~~(see 6.3.81.4 (MLMEQMFPOLICYCHANGE. request) to 6.3.81.7 (MLME-QMFPOLICYCHANGE.response))~~ to exchange the QMF Policy Change and QMF Policy frames

**11.31.5 On-channel Tunneling (OCT) operation** P3011.10

Figure 11-57 (On-channel tunneling procedure) depicts the overall OCT procedure. In this figure, <primitive> refers to the name of any of the MLME primitives defined in ~~6.3~~ 6.4(MLME SAP interface) that meets all of the following conditions:

**12.7.1.5 Integrity group key hierarchy** P3198.58

The IGTK is configured via the MLME-SETKEYS.request primitive; see ~~6.3.19~~ 6.4.13(SetKeys). IGTK configuration is described in the EAPOL-Key state machines; see 12.7.9 (RSNA Supplicant key management state machine) and 12.7.10 (RSNA Authenticator key management state machine).

**12.7.1.7 Beacon protection key hierarchy P3205.56**

The BIGTK is configured via the MLME-SETKEYS.request primitive; see ~~6.3.19~~ 6.4.13(SetKeys). The BIGTK configuration is described in the EAPOL-Key state machines; see 12.7.9 (RSNA Supplicant key management state machine) and 12.7.10 (RSNA Authenticator key management state machine).

**12.7.1.8 Wake-up radio integrity group temporal key (WIGTK) hierarchy** P3206.11

The WIGTK is configured via the MLME-SETKEYS.request primitive; see ~~6.3.19~~ 6.4.13 (SetKeys). The WIGTK configuration is described in the EAPOL-Key state machines