**IEEE P802.11  
Wireless LANs**

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| PDT Joint MLME SAP | | | | |
| **Date**: 2025-01-14 | | | | |
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**Abstract**

This document contains Proposed Draft Text (PDT) for the MLME interface for the Multi-AP Coordination (MAPC) feature of TGbn amendment to the 802.11 standard.

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Incorporating offline feedback related to MLME interface
* Rev 2: Converted UHR action frames to (Protected Dual of) Public Action frames

Relevant passing motion (with green tags added for context):

|  |
| --- |
| Motion 185 (MAC)  Move to add to the TGbn SFD the following:   * Define a mechanism in 11bn that defines:   + (#M185.1)AP-to-AP frame formats to enable interoperable MAPC across APs and including MLME primitive(s) so that a pair of AP’s SMEs can orchestrate the over-the-air transmission and reception of these frames   + (#M185.2)MLME primitive(s) so that a pair of AP’s SMEs may send the content of the non-real-time instances of such AP-to-AP frames over-the-DS between peer AP-MLMEs (rather than over-the-air via peer AP MACs)   Result: Approved with unanimous consent. |

***Background***

**A diagram of a software company

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***TGbn editor: please make the following changes, identified by Word track changes.***

6.3.7 Type 6

Figure 6-7 (Type 6 form of MLME SAP primitives for SME requesting MLME to perform a process not requiring a confirmation(#1114)) depicts Type 6. The Type 6 general form is used when the SME requests a process to be initiated by the MLME and the SME does not require a confirmation.

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NOTE: One usage of the Type 6 form is shown in Figure 6-7a (Example usage of the Type 6 form of MLME SAP primitives, to notify the MLMEs, of an initiating STA and peer STA, of communications between the SMEs of the STAs)



**Figure 6-7a – Example usage of the Type 6 form of MLME SAP primitives, to notify the MLMEs, of an initiating STA and peer STA, of communications between the SMEs of the STAs**

Table 6-1— MLME SAP interface(#1114)(#7082)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Service Name | MLME-XXX | Type | References | Comments |
| (#M185.1)Multi-AP Coordination Over-the-Air | MULTIAPCOORD-OVERTHEAIR | 1 | 9.6.5.55a MAPC (MAPC Request frame format [Name and semantics are TBD]), 9.6.5.55b (MAPC Response frame format [Name and semantics are TBD]) and 9.6.10 (Protected Dual of Public Action frame details) | See 37.7 (Multi-AP Coordination framework) |
| (#M185.2)Multi-AP Coordination Over-the-DS | MULTIAPCOORD-OVERTHEDS | 6 | 9.6.5.55a MAPC (MAPC Request frame format [Name and semantics are TBD]), 9.6.5.55b (MAPC Response frame format [Name and semantics are TBD]) and 9.6.10 (Protected Dual of Public Action frame details) | See 37.7 (Multi-AP Coordination framework). After SMEs at initiating and peer APs establish an agreement, each SME uses the MLME interface of Type 6 to report the agreement (expressed as the union of the contents of the request and response frames) to its respective MLME. |

***TGbn editor: please insert two new sections (here labeled 9.6.5.55a and 9.6.5.55b) after 9.6.5.55:***

9.6.5.55a (#M185.1)MAPC Request frame format [Name and semantics are TBD]

TBD

9.6.5.55b (#M185.1)MAPC Response frame format [Name and semantics are TBD]

TBD

9.6.10 Protected Dual of Public Action frame details

Table 9-516—Public Action field values defined for Protected Dual of Public Action frames

|  |  |  |
| --- | --- | --- |
| Public Action field value | Description | Defined in |
| (#M185.1)<ANA> | MAPC Request | 9.6.5.55a (MAPC Request frame format [Name and semantics are TBD]) |
| (#M185.1)<ANA> | MAPC Response | 9.6.5.55b (MAPC Response frame format [Name and semantics are TBD]) |
| ***TGbn editor: please remove the ANA-assigned values from this list of reserved values:***  35-255 | Reserved |  |