IEEE P802.11  
Wireless LANs

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| Comment Resolutions for Clause 6.3 MLME SAP CIDs | | | | |
| Date: 2019-07-08 | | | | |
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Abstract

This submission proposes resolutions of comments received from TGba comment collection (TGba Draft 2.0).

* CIDs: 3148, 3166, 3167, 3196, 3357 (5 CIDs)

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Made changes to the function of MLME-WURDISCOVERY.request(#2513, #2592, #2694)
* Rev 2: Made changes based on feedback from Yunsong.
* Rev 3: Change > MinChannelTime to >= MinChannelTime based on feedback from Yunsong.

1. **Introduction**

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGba Draft. The introduction and the explanation of the proposed changes are not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGba Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGba Editor: Editing instructions preceded by “TGba Editor” are instructions to the TGba editor to modify existing material in the TGba draft. As a result of adopting the changes, the TGba editor will execute the instructions rather than copy them to the TGba Draft.***

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| CID | Commenter | Page.Line | Clause | Comment | Proposed Change | Resolution |
| 3148 | Joseph Levy | 32.62 | 6.3.3.3.2 | This is a resubmission of CID 2189 - The rejection states "The WUR elements are added to the BSSDescriptionSet and as such there is no need to make changes to the semantics." These WUR elements should be added to the BSSDescription table, there is no BSSDescriptionSet table. Please correct the editing direction so they make sense. | Replace "BSSDescriptionSet table" With "that lists the BSSDescription parameters" | **Revised.**  Agree with the commenter that the term “BSSDescriptionSet table” is not used in the baseline. The instruction to the editor has been revised as “Insert the following rows at the end of the table that lists the BSSDescription parameters”    TGba editor to make the changes shown in 11-19/1068r3 under all headings that include CID 3148. |
| 3166 | Lei Huang | 34.3 | 6.3.7.3.2 | "WUR Mode" is missing in MLME-ASSOCIATE.confirm | add "WUR Mode" to MLME-ASSOCIATE.confirm | **Revised.**  Agree with the commenter that WUR Mode should be present in MLME-ASSOCIATE.confim. WUR Mode is added in MLME-ASSOCIATE.confim.    TGba editor to make the changes shown in 11-19/1068r3 under all headings that include CID 3166. |
| 3167 | Lei Huang | 49.44 | 6.3.124.3.2 | Compressed SSID should be optionally present in BSSDescriptionFromWD | as in comment | **Rejected.**  Since the Compressed SSID field is always present in a WUR Discovery frame, Compressed SSID should is always present in BSSDescriptionFromWD and is not optionally present. |
| 3196 | Mark Hamilton | 47.37 | 6.3.124 | 6.3.124 seems to add the client-side ("scan") for WUR Discovery frames. But there are no MLME primitives for a WUR AP to generate the WUR Discovery frames. (Alternatively, if this is automatic, due to the MLME-START with WUR capabilities, then add text to 11.1 to specify that, similar to other "Beacon"s.) | Add subclause(s) for the primitives to generate the WUR Discovery frames. | **Rejected.**  The parameters required for the transmission of WUR Discovery frames are passed within a WUR Discovery element in the MLME-START.request primitive and as such new primitives are not required. Since WUR Discovery frames are not used for synchornization, the related text is added in 29.12 WUR Discovery instead of 11.1. |
| 3357 | Xiaofei Wang | 48.18 | 6.3.124.3.2 | MinChannelTime should be added to MLME-WURSCAN.request. Otherwise the STA cannot utilize the discovery periods that can be obtained earlier and may miss WUR Discovery frames that need to be discovered on a discovery channel. | add minchanneltime to this primitive | **Revised.**  MinChannelTime is added to MLME-WURSCAN.request.    TGba editor to make the changes shown in 11-19/1068r3 under all headings that include CID 3357. |

**Discussion:** None

**Propose:**

Revised for CIDs 3148, 3166, 3357 as per discussion and editing instructions in 11-19/1068r3.

* Layer management
* Overview of management model
* Generic management primitives
* MLME SAP interface

6.3.3.3 MLME-SCAN.confirm (CID 3148)

6.3.3.3.2 Semantics of the service primitive

***TGba editor: Modify the following sections in 802.11ba D3.0 as below (Track Change ON):***

Insert the following rows at the end of the table that lists the BSSDescription parameters:

**6.3.7.3 MLME-ASSOCIATE.confirm** (CID 3166)

**6.3.7.3.2 Semantics of the service primitive**

***TGba editor: Modify the following sections in 802.11ba D3.0 as below (Track Change ON):***

***Change the primitive parameters as follows (not all parameters are shown):***

The primitive parameters are as follows:

MLME-ASSOCIATE.confirm(

...,

WUR Capabilities,

WUR Operation,

WUR Mode,

VendorSpecificInfo

)

* WUR Discovery(#2592,#2694)
* General

The following MLME primitives support the WUR discovery procedure described in 29.12 (WUR Discovery).

* MLME-WURDISCOVERY.request(#2513, #2592, #2694) **(CID 3357)**
* Function

This primitive requests to initiate WUR scanning.

* Semantics of the service primitive

***TGba editor: Modify the following sections in 802.11ba D3.0 as below (Track Change ON):***

This primitive parameters are as follows:

MLME-WURDISCOVERY.request(

WURDiscoveryChannelList,

MinChannelTime,

MaxChannelTime,

Transmitter ID,

CompressedBSSID\_MSB,

Compressed SSID)

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| --- | --- | --- | --- |
| Name | Type | Valid range | Description |
| WURDiscoveryChannelList | A set of operating class and channel information as defined in 9.4.1.22  (Operating Class and Channel field). | Each channel is  selected from the  valid channel range  for the appropriate  PHY and carrier set. | Specifies the WUR discovery channels that are examined when scanning for a WUR Discovery frame. |
| MinChannelTime | Integer | NA | The minimum time (in TU) to spend on  each WUR discovery channel when scanning for WUR Discovery frames. |
| MaxChannelTime | Integer | ≥ MinChannelTime | The maximum time (in TU) to spend on  each WUR discovery channel when scanning for WUR Discovery frames. |
| Transmitter ID | Integer | As defined in 29.5.3 (Transmitter ID) | The Transmitter ID of the WUR AP to be discovered. This parameter is optionally present. |
| CompressedBSSID\_MSB | Integer | As defined in 9.10.3.3 (WUR Discovery frame format) | The 12 MSBs of the compressed BSSID of the WUR AP to be discovered. This parameter is optionally present. (#Ed) |
| Compressed SSID | Integer | As defined in 9.10.3.3 (WUR Discovery frame format) | The 16 LSBs of the Short-SSID of the WUR AP to be discovered. This parameter is optionally present. |

* WUR Discovery (CID 3357)

***TGba editor: Modify the following sections in 802.11ba D3.0 as below (Track Change ON):***

…

A WUR non-AP STA with dot11WURDiscoveryImplemented equal to true may perform WUR scanning to discover WUR APs. Upon receipt of the MLME-WURDISCOVERY.request primitive, the WUR non-AP STA performs WUR scanning according to the parameters given in the primitive. The WURDiscoveryChannelList parameter indicates the WUR discovery channel(s) to be scanned. The WUR non-AP STA shall scan a WUR discovery channel for a period of time no less than MinChannelTime. The MaxChannelTime parameter indicates the maximum time (in TU) to spend on each WUR discovery channel within the WURDiscoverChannelList parameter when scanning for WUR Discovery frames. The Transmitter ID parameter, if present in the primitive, indicates the Transmitter ID of the WUR AP to be discovered. The CompressedBSSID\_MSB parameter, if present in the primitive, indicates the 12 MSBs of the compressed BSSID of the WUR AP to be discovered. The Compressed SSID parameter, if present in the primitive, indicates the 16 LSBs of the Short-SSID of the WUR AP to be discovered. When none of the Transmitter ID, CompressedBSSID\_MSB, and Compressed SSID parameters are present in the MLME-WURDISCOVERY.request primitive, the WUR non-AP STA scans for WUR Discovery frames from any WUR APs. After scanning one WUR discovery channel, the WUR non-AP STA initiates scanning in another WUR discovery channel if at least one WUR discovery channel within the WURDiscoveryChannelList parameter has not yet been scanned. When the WUR non-AP STA has completed scanning all indicated WUR discovery channels, it returns the scan results via an MLME-WURDISCOVERY.confirm primitive.

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