IEEE P802.11
Wireless LANs

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| Resolution for MISC CIDs |
| Date: December 16, 2022 |
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 Abstract

This submission proposes resolutions for following 8 CIDs received for TGbe LB266:

11138 11844 10578 11953 12418 13428 13863 13959

Revisions:

* Rev 0: Initial version of the document.

***TGbe editor: Please note baseline is REVme D2.0 and 11be D2.3***

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 TGbe Draft. This introduction is not part of the adopted material.

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

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

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| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Pg/Ln** | **Section** | **Comment** | **Proposed Change** | **Resolution** |
| 11138 | Brian Hart | 9.4.2.312.2.3 | 223.13 | STA Profile field is defined in clause 35, not clause 9. | Move definition to clause 9. And define it properly, with traditional clause-9 figures (such as a concatenation of fixed fields and subelements). | **Revised**The contents of the STA Profile field depend on whether the reported profile carries complete or partial profile. Furthermore, the contents for a partial profile can be different as they depend on various conditions. In addition, the contents of STA Profile field are subject to inheritance when the Per-STA Profile subelement carries complete profile. All of these cases are captured in clause 35.3 in various subclauses which are references from clause 35.3.3.3. Therefore, the proposed resolution clarifies these aspects and points to clause 35.3.3.3.As part of the resolution the proposed changes also update the caption for the figures in clause 9.4.2.312.2.4 to remove any ambiguity with respect to other variants of the Multi-Link element.**TGbe editor, please make changes as shown in 11-22/1978r0 tagged 11138** |
| 11844 | Alfred Asterjadhi | 10.12.4 | 295.31 | how does a mesh STA declare that it is an EHT STA? Please clarify. | As in comment. | **Revised**Agree with the comment. EHT Cap and EHT Op are added to Mesh Peer Open and Mesh Peer Confirm frames.**TGbe editor, please make changes as shown in 11-22/1978r0 tagged 11844** |
| 10578 | Abhishek Patil | 10.12.4 | 295.31 | EHT Cap & EHT Op are missing in mesh peer open and confirm frames. | As in comment | **Revised**Agree with the comment. EHT Cap and EHT Op are added to Mesh Peer Open and Mesh Peer Confirm frames.**TGbe editor, please make changes as shown in 11-22/1978r0 tagged 11844** |
| 11953 | Jarkko Kneckt | 35.3.12.2 | 441.52 | A STA MLD operating in (a long term) power save should be able to signal to the associated AP MLD the link that it most likely uses to receive a Beacon and the buffered frames. When AP knows this link, the AP may prepare buffered frames transmission in this link. This reduces overheads and STA power consumption, because all frames are ready to be received within the same link. | Please, allow an associated STA MLD to define the link in which it likely receives a Beacon and buffered data frames. The STA MLD expects that AP prepares buffered DL frames ready for transmission in this link. | **Rejected**The spec allows a non-AP MLD to signal PM=1 on all links except one. Furthermore, an AP MLD duplicated group address frames on each link. This will achieve what the comment is asking for. Therefore, no further changes are needed to address this comment. |
| 12418 | Juseong Moon | 35.3.12.2 | 441.56 | In base spec, U-APSD can be also setup using ADDTS (TSPEC). However, 11be doesn't support TSPEC, U-APSD setup procedure using QoS characteristics element or similar element should be defined in order to be consistent with base spec. | As in comment | **Rejected**U-APSD advertisement doesn’t depend on TSPEC – as such it can be used independently of TSPEC and QoS Characteristic. Furthermore, TGbe is not deprecating TSPEC. Therefore, no further changes are needed.  |
| 13428 | Liwen Chu | 35.3.20 | 470.47 | An AP can carry the critical update of the reported AP through All Updates Included indication | Change the text per the comment. | **Rejected**The comment is unclear about the exact issue. All-Updates-Included flag is set to 1 when the transmitting AP includes all the updates in the same frame. |
| 13863 | Sanghyun Kim | 35.16.1 | 531.41 | When the EHT STA transmits the Supported Channel Width Set subfield in the Per-STA profile corresponding to the other STA, the subfield shall be set in consideration of the capabilities of the other STA. | As in comment. | **Revised**Agree with the comment. A NOTE was added to clarify that only elements that are applicable to the EHT STA are included in its frame. Furthermore, a paragraph was added to state that a reporting EHT STA includes the applicable elements in the per-STA profile of the reported STA and the values of the corresponding fields are set to the same as that advertised by the reported STA.**TGbe editor, please make changes as shown in 11-22/1978r0 tagged 13863** |
| 13959 | Geonjung Ko | 35.16.1 | 530.47 | Since (N+48) bits from 2^(MaxBSSID Indicator subfield value) can be used for group addressed frame indication, the AID range should be changed correspondingly. | (N+48) values from 2^(MaxBSSID Indicator subfield) shall not be assigned as an AID. | **Revised**The latest draft (D2.3) has incorporated text that addresses this comment. Therefore, no further changes are needed. See resolution for CIDs 13899 and 12825. |

x-x-x-x-x-x Begin changes for CID 11138 x-x-x-x-x-x

**9.4.2.312.2.4 Link Info field of the Basic Multi-Link element**

***TGbe editor: Please update the contents of the following paragraph in this subclause as shown below:***

The contents of the STA Profile field depend on whether the Per-STA Profile subelement carries complete or partial profile. When carrying partial profile, the contents of the STA Profile field depend on the elements requested by a non-AP MLD (see 35.3.4.2) or if the reported AP is advertising certain elements (see 35.3.11). When carrying complete profile, the contents of the STA Profile field are subject to inheritance rules. See 35.3.3.3 (Advertisement of complete or partial per-link information).

***TGbe editor: Please update the following figure captions as shown below in this section:***

**Figure 9-1002m—Per-STA Profile subelement format of the Basic Multi-Link element**

**Figure 9-1002n—STA Control field format of the Basic Multi-Link element**

**Figure 9-1002o—STA Info field format of the Basic Multi-Link element**

**35.3.3.3 Advertisement of complete or partial per-link information**

***TGbe editor: Please update the contents of the following NOTE in this subclause as shown below:***

NOTE 1—Only Management frames belonging to subtypes (Re)Association Request or (Re)Association Response can include complete profile of a reported STA (see 35.3.5.4 (Usage and rules of Basic Multi-Link element in the context of multi-link (re)setup and authentication between two MLDs)). A multi-link probe response can include complete profile of a reported AP (see 35.3.4.2 (Use of multi-link probe request and response)).

x-x-x-x-x-x End of changes for CID 11138 x-x-x-x-x-x

**9.6.15.2 Mesh Peering Open frame format**[11844]

**9.6.15.2.2 Mesh Peering Open frame details**

***TGbe editor: Please add the following two rows to Table 9-519 as shown below:***

**Table 9-519 – Mesh Peering Open frame Action field format**

|  |  |  |
| --- | --- | --- |
| **Order** | **Information** | **Notes** |
| <ANA> | EHT Capabilities | The EHT Capabilities element is present when dot11EHTOptionImplemented is true; otherwise, it is not present. |
| <ANA> | EHT Operation | The EHT Operation element is present when dot11EHTOptionImplemented is true; otherwise, it is not present. |

**9.6.15.3 Mesh Peering Confirm frame format**

**9.6.15.3.2 Mesh Peering Confirm frame details**

***TGbe editor: Please add the following two rows to Table 9-520 as shown below:***

**Table 9-520 – Mesh Peering Confirm frame Action field format**

|  |  |  |
| --- | --- | --- |
| **Order** | **Information** | **Notes** |
| <ANA> | EHT Capabilities | The EHT Capabilities element is present when dot11EHTOptionImplemented is true; otherwise, it is not present. |
| <ANA> | EHT Operation | The EHT Operation element is present when dot11EHTOptionImplemented is true; otherwise, it is not present. |

**35.15.1 Basic EHT BSS operation**

***TGbe editor: Please update the contents of the following paragraph in this subclause as shown below:***

An EHT STA shall set the Supported Channel Width Set subfield in the HT Capabilities element, Supported Channel Width Set and the Extended NSS BW Support subfields in the VHT Capabilities element, Supported Channel Width Set subfield in the HE Capabilities element, and the Support For 320 MHz in 6 GHz subfield in the EHT Capabilities element it transmits as shown in Table 35-7 (Indication of supported channel widths by an EHT STA) to include the channel widths it is capable of supporting.

[13863]NOTE – An EHT STA includes only the elements applicable to its BSS. For example, a STA 6G does not include HT Capabilities element and VHT Capabilities element.

[13863]A reporting EHT STA shall include the applicable capabilities element for a reported STA in the reported STA’s Per-STA Profile subelement of the Basic Multi-Link element and set the value of the corresponding fields to the same value as that transmitted by the reported STA on the link on which it operates.