IEEE P802.11  
Wireless LANs

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| Resolution for miscellaneous CIDs – part 5 | | | | |
| Date: November 14, 2023 | | | | |
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Abstract

This submission proposes resolutions for following 5 CIDs received for TGbe LB275:

19367, 19372, 19407, 19736, 19620

**Revisions:**

* Rev 0: Initial version of the document.
* Rev 1: Updated some resolutions and deferred CID 19736 and 19372.
* Rev 2: Updated resolution for CID 19736.

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** | **Section** | **Pg.Ln** | **Comment** | **Proposed Change** | **Resolution** |
| 19367 | Brian Hart | 9.4.2.235 | 239.21 | " the channel specified by the operating class" but an operating class cannot specify a channel | Try "If the operating class does not indicate a 320 MHz channel width ...". Ditto L30 | **Revised**  Agree with the commenter. The statements are revised as suggested.  **TGbe editor: please implement the changes shown in this document tagged as 19367.** |
| 19372 | Brian Hart | 9.3.3.2 | 184.30 | If the Reconfig ML element or T2LM element is present in the Beacon, add normative language that Beacon Frame Protection should be enabled by AP. Also, add normative language that a EHT non-AP should validate beacon before accepting a Reconfig ML element or T2LM element in the Beacon, and the EHT non-AP, upon receiving a Reconfig ML element or T2LM element in a Probe Reponse should attempt to receive and validate a beacon to confirm the information before accepting a Reconfig ML element or T2LM element. Ditto add normative language that a EHT non-AP STA should validate a Beacon before accepting CSA/ECSA. This is a resubmittal of CID 17627 which was rejected because "Beacon Protection is mandatory for an EHT AP to support (see 4.3.16a). Therefore, its support at the AP or STA does not depend on which elements are carried by the EHT AP. " which is non-responsive since this comment refers to enablement not support. | As in comment | **Rejected**  It is up to the STA to enable and disable the feature as required. |
| 19407 | Guogang Huang | 9.6.35.2 | 0.00 | The info on the Recommended Max Simultaneous Links also can be provided during the T2L mapping negotiation. | Add a Negotiation Control field to carry the Recommended Max Simultaneous Links within the T2L Mapping Request/Response frame. | **Rejected**  The comment fails to identify a technical issue that needs to be resolved. |
| 19736 | Abhishek Patil | 9.3.3.2 | 184.24 | Update the condition for inclusion of TWT IE in a Beacon frame transmitted by TxBSSID when at least one AP in the multiple BSSID set has at least one rTWT schedule. Same comment applies to Probe Response and (Re)Association Response frame transmitted by an AP that can include TWT IE. | As in comment | **Revised**  Agree with the commenter. Added text to specify that if the nontransmitted BSSID includes an R-TWT schedule then the TxBSSID includes the TWT element in Beacon and Probe Response frames that it transmits.  **TGbe editor: please implement the changes shown in this document tagged as 19736.** |
| 19620 | Pooya Monajemi | 9.3.3.6 | 188.54 | Per 35.3.7.2.5 a TID to Link Mapping element will also be present in (Re)Association Response if the non-AP STA does not initiate a TTLM request but AP is advertising a TTLM. Also on pages 91(L 51), 97 (L3), 188 (L 54) | Modify text to allow inclusion of the TID to Link Mapping IE in (Re) Association Response when TTLM is advertised (but not initiated in (Re) Association Request) | **Revised**  Agree with the commenter. Text is updated at the cited locations.  **Tgbe editor: please implement the changes shown in this document tagged as 19620.** |

***TGbe editor: please note that the baseline is 11be Draft 4.1.***

**9.4.2.236 OCI element**

***TGbe editor: please update the following paragraphs as shown below [CID 19367]***

If the operating class does not indicate a 320 MHz channel width (#19367), the Frequency Segment 1 Channel Number field is set to the channel center frequency index of the secondary segment (frequency segment 1) being used currently, if operating in an 80+80 MHz operating class or set to 0 otherwise. The value of the Frequency Segment 1 Channel Number field is one of the center frequency indices from the row corresponding to the operating class as defined in Annex E, or 0 if not operating in an 80+80 MHz operating class.

If the operating class indicates a 320 MHz channel width, the Frequency Segment 1 Channel Number field is set to the center frequency of the channel.

**9.3.3.2 Beacon frame format**

***Tgbe editor: please update the table 9-60 as shown below [CID 19736]***

**Table 9-60 – Beacon frame body**

|  |  |  |
| --- | --- | --- |
| **Order** | **Information** | **Notes** |
| 79 | TWT | The TWT element is optionally present if dot11TWTOptionActivated is true. The TWT element is present if dot11RestrictedTWTOptionImplemented is true and the AP has at least one R-TWT schedule to announce (#19736) as described in 35.8.3 (R-TWT announcement); otherwise, it is not present. |

**9.3.3.10 Probe Response frame format**

***Tgbe editor: please update the table 9-67 as shown below [CID 19736]***

**Table 9-67 – Probe Response frame body**

|  |  |  |
| --- | --- | --- |
| **Order** | **Information** | **Notes** |
| 96 | TWT | The TWT element is optionally present within broadcast Probe Response frames if dot11TWTOptionActivated, dot11HEOptionImplemented and dot11FILSOmitReplicateProbeResponses are true~~; otherwise, it is not present~~.  The TWT element is present if the dot11RestrictedTWTOptionImplemented is true and the AP has at least one R-TWT schedule to announce (#19736) as described in 35.8.3 (R-TWT announcement). Otherwise, the TWT element is not present.  If the TWT element is present, then the Negotiation Type subfield of the TWT element is 2. |

**9.3.3.6 Association Response frame format**

***Tgbe editor: please update the table 9-63 as shown below [CID 19620]***

**Table 9-63 – Association Response frame body**

|  |  |  |
| --- | --- | --- |
| **Order** | **Information** | **Notes** |
| <Last  assigned +  4> | TID-To-Link Mapping | One or two TID-To-Link Mapping elements are present if dot11MultiLinkActivated is true, dot11TIDtoLinkMappingActivated is true, and the AP sends an Association Response frame in response to a received Association Request frame that is initiating both an ML setup and a TTLM negotiation. A TID-To-Link Mapping element is optionally present if dot11MultiLinkActivated is true, dot11TIDtoLinkMappingActivated is true, and the AP has advertised a TID-To-Link Mapping as described in 35.3.7.2.4 (Advertised TTLM in Beacon and Probe Response frames) #(19620).  Otherwise, it is not present. |

**9.3.3.8 Reassociation Response frame format**

***Tgbe editor: please update the table 9-63 as shown below [CID 19620]***

**Table 9-65 – Reassociation Response frame body**

|  |  |  |
| --- | --- | --- |
| **Order** | **Information** | **Notes** |
| <Last  assigned +  4> | TID-To-Link Mapping | One or two TID-To-Link Mapping elements are present if dot11- MultiLinkActivated is true, dot11TIDtoLinkMappingActivated is true, and the AP sends a Reassociation Response frame in response to a received Reassociation Request frame that is initiating both an ML resetup and a TTLM negotiation.  A TID-To-Link Mapping element is optionally present if dot11MultiLinkActivated is true, dot11TIDtoLinkMappingActivated is true, and the AP has advertised a TID-To-Link Mapping as described in 35.3.7.2.4 (Advertised TTLM in Beacon and Probe Response frames) #(19620).  Otherwise, it is not present. |

**6.5.7.5.2 Semantics of the service primitive**

***Tgbe editor: please update the table as shown below [CID 19620]***

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| TID-To-Link Mapping | TID-To-Link Mapping element | As defined in 9.4.2.314 (TID-To-Link Mapping element) | Indicates links on which frames belonging to each TID can be exchanged. This parameter is present if dot11MultiLinkActivated is true, dot11TIDtoLinkMappingActivated is true, and the STA affiliated with an MLD initiates both an association with an AP MLD and a TTLM negotiation. This parameter is optionally present if dot11MultiLinkActivated is true, dot11TIDtoLinkMappingActivated is true, and the AP has advertised a TID-To-Link Mapping as described in 35.3.7.2.4 (Advertised TTLM in Beacon and Probe Response frames) #(19620). Otherwise, it is not present. |

**6.5.8.5.2 Semantics of the service primitive**

***Tgbe editor: please update the table as shown below [CID 19620]***

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| TID-To-Link Mapping | TID-To-Link Mapping element | As defined in 9.4.2.314 (TID-To-Link Mapping element) | Indicates links on which frames belonging to each TID can be exchanged. This parameter is present if dot11MultiLinkActivated is true, dot11TIDtoLinkMappingActivated is true, and the STA affiliated with an MLD initiates both an association with an AP MLD and a TTLM negotiation. This parameter is optionally present if dot11MultiLinkActivated is true, dot11TIDtoLinkMappingActivated is true, and the AP has advertised a TID-To-Link Mapping as described in 35.3.7.2.4 (Advertised TTLM in Beacon and Probe Response frames) #(19620). Otherwise, it is not present. |