IEEE P802.11
Wireless LANs

|  |
| --- |
| Resolution for miscellaneous CIDs – part 6 |
| Date: November 10, 2023 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Gaurang Naik | Qualcomm Technologies, Inc. |  |  | gnaik@qti.qualcomm.com |
| Abhishek Patil |  |  | appatil@qti.qualcomm.com |
| Alfred Asterjadhi |  |  | aasterja@qti.qualcomm.com |
| George Cherian |  |  | gcherian@qti.qualcomm.com |
| Duncan Ho |  |  | dho@qti.qualcomm.com |

 Abstract

This submission proposes resolutions for following 4 CIDs received for TGbe LB275:

19699, 19700, 19774, 20043

**Revisions:**

* Rev 0: Initial version of the document.
* Rev 1: Modified the resolution for CID 19774
* Rev 2: Modified resolutions for CID 19699 and 19700.

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.***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Section** | **Pg.Ln** | **Comment** | **Proposed Change** | **Resolution** |
| 19699 | Arik Klein | 35.3.7.2.3 | 523.43 | According to 35.3.7.2.1 P520L7: "The TTLM mechanism allows an AP MLD and a non-AP MLD that performed or are performing ML setup to determine how Data frames belonging to TIDs 0-7 and Management frames will be assigned for transmission, on the setup links between the two MLDs in DL and UL."Therefore, the result of setting 0 in Link ID j of TID i is that MPDU corresponding to TID i shall not be assigned for transmission on the link associated with link j (rather than "shall not be mapped to link associated with link j").Please revise the sentence as suggested. | Please revise the sentence as follows: "When an MLD has successfully negotiated with a peer MLD an uplink and/or downlink TTLM in which the bit position i of the Link Mapping Of TID n field in the TID-To-Link Mapping element in the (Re)Association Request frame or TID-To-Link Mapping Request frame is set to 0, \*an MPDU corresponding to\* TID n shall not be \*assigned for transmission on\* the link associated with the link ID i in the uplink and/or downlink based on the Direction subfield in the TID-To-Link Mapping element. " | **Revised**Added a note to clarify.**TGbe editor: please implement changes shown in this document tagged as 19699.** |
| 19700 | Arik Klein | 35.3.7.2.3 | 523.53 | According to 35.3.7.2.1 P520L7: "The TTLM mechanism allows an AP MLD and a non-AP MLD that performed or are performing ML setup to determine how Data frames belonging to TIDs 0-7 and Management frames will be assigned for transmission, on the setup links between the two MLDs in DL and UL."Therefore, the result of setting 1 in Link ID j of TID i is that MPDU corresponding to TID i can be assigned for transmission on the link associated with link j (rather than the vague terminology of "shall be mapped to link associated with link j").Please revise the sentence as suggested. | Please revise the sentence as follows: "When an MLD has successfully negotiated with a peer MLD an uplink and/or downlink TTLM in which the bit position i of the Link Mapping Of TID n field in the TID-To-Link Mapping element in the (Re)Association Request frame or TID-To-Link Mapping Request frame is set to 1, \*an MPDU corresponding to\* TID n \*can\* be \*assigned for transmission on\* the link associated with the link ID i in the uplink and/or downlink based on the Direction subfield in the TID-To-Link Mapping element." | **Revised**Added a note to clarify.**TGbe editor: please implement changes shown in this document tagged as 19700.** |
| 19774 | Abhishek Patil | 35.3.7.2.3 | 522.41 | Clarify that when either MLD supports only mode 1, then only one T2LM IE is carried in the Request/Response frames and the Direction field is set to 2. | As in comment | **Revised**Agree with the commenter in principle. An existing statement in the subclause is modified to specify the aspect highlighted by the commenter.**TGbe editor: please implement the changes shown in this document tagged as 19774.** |
| 20043 | Binita Gupta | ï»¿35.3.7.2.3 | 523.32 | Following text "ï»¿In case TTLMof a specific TID is missing in the negotiation, the most recent TTLM of this TID shall remain unchangedand valid ..." conflicts with the text on pg520 ln32 "...ï»¿which means that a TTLM change is only valid and successful if it will not result inhaving any TID for which the link set for DL or UL is made of zero setup links." | Clarify text to make it consistent. | **Rejected**The two cited statements are not in conflict. The second statement implies that a TID must always be mapped to at least one of the setup links. The first statement implies that if a T2LM negotiation did not include a certain TID, then the existing mapping for that TID remains unchanged regardless of the outcome of the mapping for the other TIDs that were included in the negotiation. Thus, the TID that was not included in the negotiation satisfies the second statement both before and after the negotiation for other TIDs occurs. |

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

**35.3.7.2.3 Negotiation of TTLM**

***TGbe editor: please update the paragraph as shown below [CID 19774]***

An MLD that supports TTLM negotiation has dot11TIDtoLinkMappingActivated equal to true and shall set to a nonzero value the TID-To-Link Mapping Negotiation Support subfield in the MLD Capabilities And Operations subfield of the Basic Multi-Link element that it transmits. An MLD that does not support TTLM negotiation has dot11TIDtoLinkMappingActivated equal to false and shall set the TID-To-Link Mapping Negotiation Support subfield to 0. If the TID-To-Link Mapping Negotiation Support subfield value received from a peer MLD is equal to 1, the MLD that initiates a TTLM negotiation with the peer MLD shall send only one TID-To-Link Mapping element with the Direction field set to 2 and where all TIDs are mapped to the same link set. If the TID-To-Link Mapping Negotiation Support subfield value received from a peer MLD is equal to 3, the MLD that initiates a TTLM negotiation with the peer MLD shall send the TID-To-Link Mapping element where each TID is mapped to the same or different link set.

***TGbe editor: please update the last two paragraphs of this subclause as shown below [CID 19699, 19700]***

When an MLD has successfully negotiated with a peer MLD an uplink and/or downlink TTLM in which the bit position *i* of the Link Mapping Of TID *n* field in the TID-To-Link Mapping element in the (Re)Association Request frame or TID-To-Link Mapping Request frame is set to 0, TID *n* shall not be mapped to the link associated with the link ID *i* in the uplink and/or downlink based on the Direction subfield in the TID-To-Link Mapping element.

When an MLD has successfully negotiated with a peer MLD an uplink and/or downlink TTLM in which the bit position *i* of the Link Mapping Of TID n field in the TID-To-Link Mapping element in the (Re)Association Request frame or TID-To-Link Mapping Request frame is set to 1, the TID *n* shall be mapped to the link associated with the link ID *i* in the uplink and/or downlink based on the Direction subfield in the TID-To-Link Mapping element.

NOTE – See 35.3.7.2.1 (General) for the rules when a TID is mapped to a certain link for a non-AP MLD (#19699, 19700).