IEEE P802.11  
Wireless LANs

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| D5.0 CR for Misc. CIDs | | | | |
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Abstract

This submission proposes resolutions for following CIDs received in TGbe SA Ballot on 802.11be D5.0:

22028, 22165

**Revisions:**

* Rev 0: Initial version of the document.

***TGbe editor: The baseline for this document is 11be D5.0.***

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** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 22028 | 9.4.2.312.2.3 | 253.31 | The NOTE related to TTLM negotiation is not needed, since per definition support for TTLM Mode 3 (any TID to any link mapping) also implies support for TTLM mode 1 (all TIDs to a subset of links mapping). Also, the NOTE adds some confusion since it is not clarified whether NOTE applies for value 2 which is a non-zero value, but is reserved. | Suggest to remove the NOTE or clarify that it does not apply for value 2. | Revised  The NOTE was revised in D5.1. Revised NOTE to include value 2 as well.  TGbe editor, please make the changes tagged by CID #22028 in in 11-24/0355r0. |
| 22165 | 9.4.2.312.2.3 | 252.29 | TTLM mode 2 is more important than mode 3 because of the flexibilty afforded by the mode 2 approach, i.e. All TIDs mapped to X links and some TIDs mapped to Y links. | as in comment | Revised  Agree that TTLM mode 2 provides additional flexibility. Also, spec draft already supports mode 3 and mode 2 is a subset of that mode. Hence, it is easier to support mode 2 and spec should provide this flexibility to support either mode. Adding mode 2 does not require any extra rules on top of what is already defined for mode 3, except that TIDs mapping need to conform to mode 2 definition (a subset of TIDs map to one link, all TIDs map to other links), which is simpler than mode 3 (any TID map to any link(s)).  Also, from the spec perspective having a reserved value in the middle of other values does not make sense either. Adding mode 2 makes TTLM Negotiation Support field definition complete.  Added text related to for TTLM mode 2 support. Proposed text for mode 2 is in-line with mode 3 spec text.  Given mode 3 is included in the spec, there is no reason to not include mode 2 (since it is a subset and provides simpler solution for mapping high-QoS TIDs on one link).  TGbe editor, please make the changes tagged by CID #22165 in in 11-24/0355r0. |

9.4.2.312.2.3 Common Info field of the Basic Multi-Link element

***TGbe editor: Please update following Table as shown below.***

**Table 9-404j—Subfields of the MLD Capabilities And Operations subfield**

|  |  |  |
| --- | --- | --- |
| **Subfield** | **Definition** | **Encoding** |
| … | … | … |
| TID-To-Link Map- ping Negotiation Sup- port | Indicates support for TTLM negotia- tion. | Set to 0 if dot11TIDtoLinkMappingActivated is false and TTLM negotiation is not supported by the MLD.  Set to 1 if dot11TIDtoLinkMappingActivated is true and the MLD only supports the map- ping of all TIDs to the same link set, both for DL and UL.  (#22165)  Set to 2 if dot11TIDtoLinkMappingActivated is true and the MLD supports the mapping of a non-empty strict subset of TIDs to one of the links and the mapping of all TIDs to the remaining enabled links, both for DL and UL. TIDs of the same AC are mapped to the same link set.  Set to 3 if dot11TIDtoLinkMappingActivated is true and the MLD supports the mapping of each TID to the same or different link set.  See NOTE.  (See 35.3.7.2.3 (Negotiation of TTLM)) |
| … | … | … |
| ﻿(#22358)NOTE—Indicating support for TTLM negotiation by setting the TID-To-Link Mapping Negotiation Support subfield to a nonzero value also indicates support for negotiations applicable to values smaller than the indicated value (for instance, value 3 indicates support for value 3,(#22028) 2, 1, and 0). | | |

﻿35.3.7.2.3 Negotiation of TTLM

A successfully negotiated TTLM is active until it is torn down or until it is replaced by a negotiated TTLM

or is modified by an advertised TTLM (see 35.3.7.2.4 (Advertised TTLM in Beacon and Probe Response

frames)).

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 Duration 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.

(#22165)If the TID-To-Link Mapping Negotiation Support subfield value received from a peer MLD is equal to 2, the MLD that initiates a TTLM negotiation with the peer MLD shall send only the TID-To-Link Mapping element where a non-empty strict subset of TIDs is mapped to one of the setup links and all TIDs are mapped to the remaining setup links which are enabled, both for DL and UL, or where all TIDs are mapped to the same link set, both for DL and UL.