**IEEE P802.11
Wireless LANs**

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| LB266 CR for MAC Miscellaneous |
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Abstract

This submission proposes resolutions for multiple comments related to TGbe D2.0 with the following CIDs (14 CIDs):

* 12938, 12902, 10571, 12905, 12903, 12746, 12883, 12747, 10577, 12904, 13328, 10241, 13335, 11577

Revisions:

* Rev 0: Initial version of the document.

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 subsequent 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** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| --- | --- | --- | --- | --- |
| 12938 | 249.13 | In STA Info field (Figure 9-1002o) NSTR Indication Bitmap subfield can have size of one or two octets, but in TID-To-Link Mapping element (Figure 9-1002am) Link Mapping Of TID n fields can only have size of two octets. Why this field cannot have size of one octet to reduce overhead if there are less than 8 links in total? | Add an option for Link Mapping Of TID n fields to have size of one octet if there are less than 8 links in total. One of reserved bit in TID-To-Link Control field can define the size of Link Mapping Of TID n fields similar to how it is done in STA Info field. | Revised-Since the Beacon frame can include the TID-to-link Mapping element, the comment might help to reduce the Beacon overhead. TGbe editor to make the changes shown in 11-22/1836r0 under all headings that include CID 12938.  |
| **TGbe Editor: Change subclause 35.3.7.1.3 as the following:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | B0 B1 | B2 | B3 | B4 | B5 | ~~B5~~B6 B7 | B8 |  | B15 |
| Direction | Default Link Mapping | Mapping Switch Time Present | Expected Duration Present | Link Mapping Size | Reserved | Link Mapping Presence Indicator (Optional) |
| Bits: | 2 | 1 | 1 | 1 | 1 | ~~3~~2 |  | 0 or 8 |  |

**Figure 9-1002am—TID-To-Link Control field format** (#12938)The Expected Duration Present subfield is set to 1 if the Expected Duration field is present and 0 otherwise. The Link Mapping Size subfield is set to 1 if the length of the Link Mapping Of TID *n* field is 1 octet and is set to 0 if the length of the Link Mapping Of TID *n* field is 2 octets. (#12938)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element ID | Length | Element ID Extension | TID-To-Link Mapping Control | Mapping Switch Time | Expected Duration |

 Octets: 1 1 1 1 or 2 0 or 2 0 or 3

|  |  |  |
| --- | --- | --- |
| Link Mapping Of TID 0 (Optional) | … | Link Mapping Of TID 7(Optional) |

 Octets: 0, 1 or 2 0, 1 or 2  **Figure 9-1002al—TID-To-Link Mapping element format** (#12938) |
| 12902 | 249.37 | Shorten the paragraph -- many extra words. | Change the paragraph to: "The Direction subfield is set to 0 if the TID-to-link mapping indicated by the element is for downlink transmissions, set to 1 if the mapping is for uplink transmissions, and set to 2 if the mapping is for both downlink and uplink transmissions. The value of 3 is reserved." | Rejected- Current paragraph is clearer than the proposed changes. |
| 10571 | 249.44 | Per 35.3.7.1.2, default mapping applies to DL and UL. Therefore, the Direction subfield should be ignored when Default Link Mapping subfield is set to 1. | Revise the description of Direction subfield to say it is set to reserved when Default Mapping subfield is set to 1 | Rejected-Section 35.3.7.1.2. is for the default mapping mode. In the TID-to-link mapping negotiation mode, the default mapping should be unidirectional. |
| 12905 | 249.52 | It is accepted baseline convention to write "bit n" instead of "bit position n", "bit number n" or similar; keep it short. | Change "bit position n" to "bit n". Also change "bit position i" to "bit i" in the next paragraph (2 instances). | Rejected-Please see the baseline convention. For example, “If bit position n of the Block Ack Bitmap subfield is 1…”“If bit position n of the Block Ack Bitmap subfield is 0…”If you disagree, please submit a comment to REVme. |
| 12903 | 249.59 | Change "the TID n" to "TID n" in the paragraph (2 instances). | As in comment | Revised-Agree in principle with the comment. TGbe editor to make the changes shown in 11-22/1836r0 under all headings that include CID 12903.  |
| **TGbe Editor: Replaces “the TID *n*“ to “TID *n*“ in the subclause 35.3.7.1.3 (Negotiation of TID-to-link mapping) and 9.4.2.314 (TID-To-Link Mapping element). (5 instances). (#12903)** |
| 12746 | 267.10 | Whether the TID-to-link Mapping Request is mandatory, prefered to change, or strongly prefered to change for the TID-to-link Mapping requester is unclear. | Suggest to further specify the types of TID-to-link Mapping Request to increase the efficiency of the TID-to-link mapping negotiation | Rejected-The CRC could not reach consensus the changes (11-22/1509r4) necessary to address the comment. SP: Do you agree to resolve the following CIDs listed in 11-22/1509r4 and incorporate the text changes into the latest TGbe draft?14055, 10488, 11106, 11108, 11763, 12632Result: 52Y, 34N, 28A |
| 12883 | 267.42 | "The TID-To-Link Mapping field contains one or two TID-To-Link Mapping elements as specified in 9.4.2.314 (TID-To-Link Mapping element)" may imply that the reference contains additional rules of how many and which TID-To-Link Mapping elements are included in the TID-To-Link Mapping field, which is not true. | Change "The TID-To-Link Mapping field contains one or two TID-To-Link Mapping elements as specified in 9.4.2.314 (TID-To-Link Mapping element)." to "The TID-To-Link Mapping field contains one or two TID-To-Link Mapping elements, specified in 9.4.2.314 (TID-To-Link Mapping element)." | Accepted |
| 12747 | 267.48 | Currently specified TID-To-Link Mapping Response frame contains a field of status code, which only includes DENIED\_TID\_TO\_LINK\_MAPPING and SUCCESS for the response to the request. If the response MLD rejects the TID-TO-LINK mapping request sended by the request MLD only the status code of DENIED\_TID\_TO\_LINK\_MAPPING can be used, and the request MLD is still unable to know what TID-to-link mapping can be potentially accepted by the response MLD. The limited types of TID-To-Link Mapping Response and status codes would reduce the efficiency of the TID-to-link mapping negotiation | Suggest to further specify the types of TID-to-link Mapping Response and extend the specification of the field of status codes to increase the efficiency of the TID-to-link mapping negotiation | Rejected- When the Status Code in the TID-to-link Mapping Response frame is 134(PREFERRED\_TID\_TO\_LINK\_MAPPING\_SUGGESTED), the responding MLD is suggesting a preferred mapping as indicated in the TID-to-link Mapping element included in the frame.Also, the extension of the status code was considered in the 11-22/1509r4. But the CRC could not reach consensus the changes necessary to address the comment. SP: Do you agree to resolve the following CIDs listed in 11-22/1509r4 and incorporate the text changes into the latest TGbe draft?14055, 10488, 11106, 11108, 11763, 12632Result: 52Y, 34N, 28A |
| 10577 | 268.27 | The paragraph is confusing to read. The normative text in 35.3.7.1.3 explains when the IE is included in the frame. | Delete all of the content and say '0 or 1 or 2 IEs are present as described in 35.3.7.1.3'. Then mention if two IEs are carried in the frame, then the Direction field blah blah blah. | Rejected-The TID-To-Link Mapping field contains zero, one, or two TID-To-Link Mapping elements. And 35.3.7.1.3 is referring the TID-To-Link Mapping element carried in the TID-To-Link Mapping field. |
| 12904 | 268.40 | "have" --> "has" | As in comment | Accepted |
| 13328 | 428.25 | replace "ï»¿negotiation to the peer MLD" --> "ï»¿negotiation with the peer MLD" in entire subclause | as in comment | Revised-Agree in principle with the comment. TGbe editor to make the changes shown in 11-22/1836r0 under all headings that include CID 13328.  |
| **TGbe Editor: Replaces “negotiation to the peer MLD” with “negotiation with the peer MLD”in the 1st paragraph in the subclause 35.3.7.1.3 (Negotiation of TID-to-link mapping).** (#13328) |
| 10241 | 429.49 | The concept that MLDs should continue to use the most recent TID-to-link mapping after a failed negotiation should be described using normative language to ensure that it is treated as a mandatory requirement. | Revise final sentence in this paragraph to say "If a TID-to-link mapping negotiation ends in anything other than success, an MLD shall continue to use the most recent TID-to-link mapping for every TID." | Revised-Agree in principle with the comment.“shall” is added. TGbe editor to make the changes shown in 11-22/1836r0 under all headings that include CID 10241.  |
| **TGbe Editor: Change subclause 35.3.7.1.3 as the following:**If an MLD has successfully negotiated the TID-to-link mapping with a peer MLD, both the MLD and the peer MLD shall update uplink and/or downlink TID-to-link mapping information according to the negotiated TID-to-link mapping. In case TID-to-link mapping of a specific TID is missing in the negotiation, the most recent TID-to-link mapping of this TID shall remains unchanged and valid. If an MLD has failed to negotiate the TID-to-link mapping with a peer MLD, the most recent TID-to-link mapping of all TID shall remains unchanged and valid. (#10241) |
| 13335 | 455.19 | "ï»¿When an AP MLD simultaneously transmits to the STAs of a non-AP MLD operating on a pair of NSTRlinks for that MLD...". A pair of NSTR links is not specific as to the links belong to the same pair. Should be replaced by "operating on links which are part of the same NSTR link pair" | as in comment | Rejected- A pair of NSTR links is one link belong to one or more NSTR link between STAs affiliated with a MLD. “the same NSTR link pair” that the commenter suggested is very unclear.  |
| 11577 | 455.60 | the sentence "An AP affiliated with the AP MLD shall not transmit a Trigger frame with the CS Required subfield set to 1 to a STA affiliated with a non-AP MLD and operating on a link that is part of NSTR link pair for that MLD, when at least one PPDU from other STAs operating on the other link that is part of the same NSTR link pair is scheduled for transmission before a timer with a value of 12Î¼s (see NOTE 4) has expired after the PPDU containing the Trigger frame." is very unclear and confusing; please rephrase and clarify | as in comment | Rejected-The comment fails to identify a specific issue (which part is unclear) to be addressed. It fails to identify changes in sufficient detail so that the specific wording of the changes that will satisfy the commenter can be determined. |