IEEE P802.11
Wireless LANs

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| **TGbe LB 275 CR for Miscellaneous CIDs** |
| Date: 2023-11-10 |
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Abstract

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

19126, 19248, 19331, 19477

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Revised for CID 19248
* Rev 1: Revised based on offline discussion

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.***

**List of CIDs**

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| **CID** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 19126 | 3.2 | 59.01 | The defition of "Affiliated STA" doesn't clearly explain "affiliated" rather than rephrase it as "within MLD". I don't think "within MLD" is a correct description of "affiliated". And as pointed out in Figure 4-30c, the affiliated STA is not completely "within" the MLD. | Please rephrase the definition of "affiliated STA" to clearly define the term, expecially "affiliated". | RejectedThe definition doesn’t have any issue since it means that MLD lower MAC sublayer and PHY services are within the MLD not that affiliated STA is within the MLD. Therefore, we don’t need to rephrase it. |
| 19248 | 35.3.4.5 | 510.44 | The text "For each requested link that does not exist, the Link Info field (if present) shall not contain the corresponding Per-STA Profile subelement" does not clarify where the subelement should be omitted. Given the phrase "requested link", it seems like this is referring to what happens in response, given presence of non-existent links in request. | "Replace with "For each requested link that does not exist, the Link Info field (if present) of the Basic Multi-Link element in the (Re)Association Response frame shall not contain the corresponding Per-STA Profile subelement." | RevisedAgree with the commenter in principle. The sentence was revised.**TGbe editor, please make changes as shown in doc 11-23/1784r2 tagged as CID 19248** |
| 19331 | 3.2 | 51.09 | The terminology "non-MLD" has been used in some places, e.g., P290L26, P514L25 and P528L20, but it has not been defined.And there is some revelant description in Caluse 1.4 Word Usage P49L9 :"Reference in this standard to "STA" means a "STA" that is not affiliated with a multi-link device (MLD) unless specified otherwise." , but it is for the compatibility and might not be clear enough. | Add a definition for "non-MLD" or "non-MLD STA" in Caluse 3 or, add some short explanations or descriptions somewhere before the first usage. | RevisedAgree with the commenter in principle. There are 29 “non-MLD non-AP STA” throughout the spec, most of which intends to differentiate between a STA not affiliated with an MLD and another STA affiliated with an MLD depending on the corresponding mechanism. Therefore, to be clear the definition of “non-MLD non-AP STA” was added**TGbe editor, please make changes as shown in doc 11-23/1784r2 tagged as CID 19931** |
| 19477 | 3.2 | 60.11 | This definition is very poor. If you remove the double negative it essentially says "A pair of links that is a simultaneous transmit and receive (STR) link pair". Not very useful. | Change the definition to the following:"[STR link pair] A pair of links corresponding to stations (STAs) affiliated with a multi-link device (MLD) for which the receiver requirements specified in Clause 36 (Extremely high throughput (EHT) PHY specification) are met on both links." | RejectedSpecifying the definition of STR was discussed several times, for which we determined to keep the definition. Note that link pair is STR link pair or NSTR link pair without another type of link pair. Therefore, the current definition is clear |

**Proposed spec text:**

***TGbe editor: The baseline for this document is 11be D4.1***

3.2 Definitions specific to IEEE 802.11

***TGbe editor: Please insert the following definition maintaining alphabetical order:***

**(#19931)non-multi-link device (MLD) non-AP station (STA):** [non-MLD non-AP STA] A station (STA) that is a non-access point (non-AP) STA (non-AP STA) and that is not affiliated with a multi-link device (MLD).

***TGbe editor: Please modify the subclause 35.3.5.4 (Usage and rules of Basic Multi-Link element in the context of multi-link (re)setup, authentication, and FT action frame exchange between two MLDs) as follows:***

**35.3.5.4 Basic Multi-Link element usage in the context of ML (re)setup, authentication, and FT action frame exchange between two MLDs**

If there are other requested link(s) in addition to the link on which the (Re)Association Request frame is transmitted, and at least one other requested link exists, the Basic Multi-Link element carried in the (Re)Association (#19248) Responseframe shall contain the Link Info field, and for each other requested link that exists, the Link Info field shall contain the corresponding Per-STA Profile subelement(s). (#19248) For each requested link that does not exist, the corresponding Per-STA Profile subelement shall not be included in the Basic Multi-Link element carried in the (Re)Association Response frame

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For each Per-STA Profile subelement included in the Link Info field, the Complete Profile subfield of the STA Control field shall be set to 1 (see 35.3.3.3 (Advertisement of complete or partial per-link information)) and the Status Code field included in the STA Profile subfield of the Per-STA Profile subelement shall indicate SUCCESS if the link is accepted or the failure cause if the link is not accepted. The Status Code field in the (Re)Association Response frame body shall indicate, as defined in 9.4.1.9 (Status Code field), whether the link on which the (Re)Association Request frame is received is accepted or not. The Status Code field included in the STA Profile subfield of the Per-STA Profile subelement shall indicate DENIED\_LINK\_ON\_WHICH\_THE\_(Re)ASSOCIATION\_REQUEST\_FRAME\_IS\_TRANSMITTED\_NOT\_ACCEPTED if the Status Code field is not set to REFUSED\_REASON\_UNSPECIFIED and the link corresponding to the Per-STA Profile subelement is not accepted only because the link on which the (Re)Association Request frame is transmitted is not accepted.

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If there is no other requested link in addition to the link on which the (Re)Association Request frame was transmitted, the Basic Multi-Link element carried in the (Re)Association Response frame shall not include the Link Info field.