IEEE P802.11
Wireless LANs

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| LB266-CR-for-CID-12622 |
| Date: 2022-12-27 |
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Abstract

This submission proposes CR for CID 12622 (LB266).

Revisions:

Rev 0: Initial version of the document.

Rev 1: further modification due to 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.***

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| **CID** | **Commenter** | **Pg/Ln** | **Section** | **Comment** | **Proposed Change** | **Resolution** |
| 12622 | Arik Klein | 427/24 | 35.3.7.1.1 | The AP MLD may have more than a single associated non-AP MLD. Thus, need to emphasize that the definition of an enabled link refers to a specific link between the AP affiliated with the AP MLD and operating on that link and non-AP STA affiliated with an associated non-AP MLD and is operating on that link. This way from the AP perspective, the link on 5GHz band can be defined as enabled link with some of the affiliated non-AP STAs (operating on that link) and as disabled link for other affiliated non-AP STAs (operating on that link). | Revise the text as follows:1. Option 1: " A setup link between AP affiliated with AP MLD and non-AP STA affiliated with an associated non-AP MLD is defined as enabled if ....."2. Option 2: Add a note after the current paragraph: NOTE: the term enabled link refers to a link between specific AP affiliated with AP MLD and non-AP STA affiliated with an associated non-AP MLD (both operating on that link) | **Revised**Agree in principle with the comment. Following the proposed option 2, a note is added to emphasize the expected behavior from the AP affiliated with the AP MLD that is operating on a disabled link for an associated non-AP MLD.**TGbe editor please implement changes as shown in doc 11-22/2179r1 tagged as 12622.** |

*TGbe editor: Please note baseline is 11be D2.3 and REVme D**2.0*

* + 1. **Link management**
			1. **TID-to-link mapping**
				1. **General**

***TGbe editor: Please add NOTE 3 in this subclause as shown below:***

A setup link is defined as enabled for a non-AP MLD if at least one TID is mapped to that link either in DL or in UL and is defined as disabled if no TIDs are mapped to that link both in DL and UL. At any point in time, a TID shall always be mapped to at least one setup link both in DL and UL, which means that a TID- to-link mapping change is only valid and successful if it will not result in having (#14054)any TID for which the link set for DL or UL is made of zero setup links. By default, all setup links (#13864)are enabled (see

* + - * 1. [(Default mapping mode)](#bookmark53)).

If a link is enabled for a non-AP MLD, (#14054)then:

it may be used for individually addressed frame exchange, subject to the power state of the non-AP STA operating on that link and only MSDUs or A-MSDUs with TIDs mapped to that link may be transmitted on that link between the corresponding (#12624)non-AP STA and AP affiliated with the non-AP MLD and AP MLD, respectively, in the direction (DL/UL) corresponding to the TID-to-link mapping.

MSDUs or AMSDUs as defined in 10.23.2 (HCF contention based channel access (EDCA)) with TIDs mapped to that link may be transmitted on that link between the corresponding (#12624)non- AP STA and AP affiliated with the non-AP MLD and AP MLD, respectively, in the direction (DL/ UL) corresponding to the TID-to-link mapping.

Individually addressed Management frames(#10911), QoS Null frames, and Control frames may be sent on any enabled links between the corresponding (#12625)(#12624)non-AP MLD (#14054)and AP MLD both in DL and UL.

If a link is disabled for a non-AP MLD, it shall not be used for individually addressed frame exchange between the corresponding (#12624)non-AP STA (#14054)affiliated with the non-AP MLD and AP affiliated with the associated AP MLD, including Management (#10023)and Control frames, (#12379)except that if the link is disabled for a non-AP MLD but is not advertised as disabled by the AP MLD (see [35.3.7.1.7 (Advertised TID-to-link mapping in Beacon and Probe Response frames(#14054))](#bookmark55)), then the link may be used for class 1 and 2 Management frames, class 1 Control frames and TID-to-link Mapping Request, TID-to-link Mapping Response and TID-to-link Mapping Teardown frames, if initiated by the non-AP MLD.

(#14054)A STA affiliated with an MLD that operates on a link disabled by an advertised TID-to-link mapping (see [35.3.7.1.7 (Advertised TID-to-link mapping in Beacon and Probe Response frames(#14054))](#bookmark55)) shall suspend all wireless functionalities on that link until the link is enabled.

(#14054)NOTE 1— Suspension of wireless functionalities refers to functionalities such as frame generation, schedules, scoreboard maintenances, etc., while still preserving previously negotiated parameters with the peer EHT STA(s).

NOTE 2—Group addressed frames delivery procedure is defined in [35.3.15 (Multi-link operation group addressed](#bookmark79) [frames(#11084))](#bookmark79).

(#12622)NOTE 3 – The AP affiliated with AP MLD that operates on link which is disabled for an associated non-AP MLD (following the procedure described in 35.3.7.1 TID-to-link mapping) uses this link for any frame exchange with other non-AP STAs affiliated with other associated non-AP MLD(s) for which this link is enabled (if any such non-AP STAs exist).

Straw Poll:

Do you support to incorporate the proposed draft text in this document 11-22/2179r1 to the next revision of TGbe Draft 2.3, for addressing the following CIDs: 12622?

Result: Yes/No/Abstain