IEEE P802.11
Wireless LANs

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| SA Ballot CR for 35.3.16.8.3 |
| Date: 2024-02-26 |
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Abstract

This submission proposes resolutions of comments received from TGbe SA Ballot based on TGbe D5.0.

22210 22211 22212 22213 (4 CIDs)

Revisions:

Rev 0: Initial version of the document.

Rev 1: Add the discussion part and fix the change as per the discussion

1. **Introduction**

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. The introduction and the explanation of the proposed changes are 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 802.11be 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** |
| 22210 | 35.3.16.8.3 | 571.41 | "The other AP affiliated with the AP MLD should transmit a Trigger frame to the other non-AP STA affiliated with the non-AP MLD to solicit an UL PPDU if ... the other AP does not have frame exchanges already scheduled with another STA." By this "should", the AP can always be irresponsible and the mechanism will be in no use. Moreover there is capability for AP to support this action and the corresponding condition (not have frame exchanges). It needs to be a shall. [m] | Change "should" to "shall" in the cited sentence. | Accepted- |
| 22211 | 35.3.16.8.3 | 571.30 | When a STA of a non-AP MLD is exchanging frames with an AP affiliated with an AP MLD on one of the EMLSR links, the other STAs affiliated with the same non-AP MLD on the EMLSR links lose medium synchronization. This is similar to the blindness issue of the NSTR non-AP MLD operation. The AP assisted medium synchronization recovery procedure has been specified for non-AP MLD with a NSTR pair in IEEE 802.11be Draft 2.0. But the AP assisted medium synchronization recovery procedure or rules for non-AP MLD in EMLSR mode need to be clarified. [m] | Suggest to specify the AP assisted medium synchronization recovery procedure or rules for non-AP MLD operating in EMLSR mode. | Revised-Agree with the comment. Apply the changes marked as #22211 in this document. |
| 22212 | 35.3.16.8.3 | 571.20 | The current text defines the AP assisted medium sync recovery for NSTR. We should add EMLSR to use this medium sync recovery procedure. [m] | please add EMLSR to use the AP assisted medium sync recovery | Revised-Agree with the comment. Apply the changes marked as #22212 in this document. |
| 22213 | 35.3.16.8.3 | 571.19 | The cases of EMLSR and EMLMR are missing. [m] | please complete the missing cases | Revised-Agree with the comment. Apply the changes marked as #22213 in this document. |

**Discussion:**

In 802.11be D5.0, The first paragraph in subclause 35.3.16.8.3 (AP assisted medium synchronization recovery procedure) as shown below already mentions AAR could be used for the case of blindness

The AP assisted medium synchronization recovery procedure is a service provided by an AP MLD to help a non-AP STA affiliated with a non-AP MLD that has lost medium synchronization to transmit a frame without causing the collision with another transmission.

However, there is mismatch between the second paragraph as shown below and the above paragraph, it only mentions the case of NSTR. It should keept the same wording, like “that has lost medium synchronization”

If a non-AP STA affiliated with a non-AP MLD with dot11AAROptionImplemented that is equal to true and that belongs to an NSTR link pair, receives a Basic Multi-Link element from its associated AP affiliated with an AP MLD, with the AAR Support subfield equal to 1 and when the other non-AP STA that belongs to the same NSTR link pair needs assistance in transmitting frames on the other link, it shall transmit the AAR Control subfield in a frame that solicits an immediate response.

Moreover, the other non-AP STA that belongs to the same NSTR link pair may not lose medium synchronization. So this issue should be fixed.

***TGbe Editor: please add the following paragraph***

**35.3.16.8.3 AP assisted medium synchronization recovery procedure**

If a non-AP STA with dot11AAROptionImplemented equal to true that is affiliated with the same non-AP MLD with which another non-AP STA that has has lost medium synchronization is affiliated, and that has received a Basic Multi-Link element from its associated AP affiliated with an AP MLDwith the AAR Support subfield equal to 1, it shall transmit the AAR Control subfield in a frame that solicits an immediate response to its associated AP when the other non-AP STA needs assistance in transmitting uplink frames. (#22211, 22212, 22213)