IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| LB275 CR for CIDs in 35.3.16.8.3 | | | | |
| Date: 2023-09-05 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Ming Gan | Huawei  Huawei |  |  | ming.gan@huawei.com |
| Jason Yuchen Guo |  |  |  |
| Yunbo Li | Huawei |  |  |  |
| Guogang Huang | Huawei |  |  |  |
| Zhi Mao | Huawei |  |  |  |
| Lan Peng | Huawei |  |  |  |
| Zhenguo Du | Huawei |  |  |  |
| Steven Qi Wang | Huawei |  |  |  |
| Yue Zhao | Huawei |  |  |  |
| Ying Li | Huawei |  |  |  |
| Maolin Zhang | Huawei |  |  |  |

Abstract

This submission proposes resolutions of comments received from TGbe comment collection LB275 based on TGbe D4.0.

19859 19437 19457 ~~19582~~ 19291 19864 (6 CIDs)

Revisions:

* Rev 0: Initial version of the document.

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.***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 19859 | 35.3.16.8.3 | 562.42 | The cases of EMLSR and EMLMR are missing | please complete the missing cases | Revised-  Agree with the comment. Apply the changes marked as #19859 in this document. |
| 19437 | 35.3.16.8.3 | 562.46 | The current text defines the AP assisted medium sync recovery for NSTR. We should add EMLSR to use this medium sync recovery procedure. | please add EMLSR to use the AP assisted medium sync recovery | Revised-  Agree with the comment. Apply the changes marked as #19437 in this document. |
| 19457 | 35.3.16.8.3 | 562.48 | 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. | 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 #19457 in this document. |
| 19291 | 35.3.16.8.3 | 563.05 | The sentence starting on line 5 is hard to parse and contains grammatical errors. | Rephrase as "An assisting AP affiliated with an AP MLD should schedule a Trigger frame for transmission to the associated non-AP STA that is requesting assistance from the assisting AP to solicit a UL frame(s) after another AP affiliated with the same AP MLD successfully receives the AAR Control subfield in a frame, if the assisting AP does not have frame exchanges already scheduled with another non-AP STA." | Revised-  Agree with the comment. Apply the changes marked as #19291 in this document. |
| 19864 | 35.3.16.8.3 | 563.06 | "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 tp support this action and the corresponding condition (not have frame exchanges). It needs to be a shall. | As in the comment | Accepted- |

**Discussion:** None.

***TGbe Editor: please modify the following paragraphs***

**35.3.16.8.3 AP assisted medium synchronization recovery procedure**

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.

An AP affiliated with an AP MLD with dot11AAROptionImplemented equal to true shall set the AAR Support subfield in the MLD Capabilities And Operations subfield in a Basic Multi-Link element it transmits to 1; otherwise, the AP shall set the AAR Support subfield to 0.

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 a MediumSyncDelay timer with nonzero value 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. (#19859, 19437, 19457)

The AAR Control subfield transmitted by the STA shall indicate the link identifier(s) of the other assisting AP(s) affiliated with the same AP MLD operating on the enabled link(s) by setting the corresponding bits of the Link ID subfield to 1.

An assisting APaffiliated with the AP MLD should schedule a Trigger frame for transmission to the associated non-AP STA that is requesting assistance from the assisting AP after another AP affiliated with the same AP MLDsuccessfully receives the AAR Control subfield in a frame, if the assisting AP does not have frame exchanges already scheduled with another non-AP STA. After receiving the trigger frame, the associated non-AP STA responds with a UL frame(s). (#19291)

An assisting AP affiliated with an AP MLD should schedule a Trigger frame for transmission to the associated non-AP STA that is requesting assistance from the assisting AP to solicit a UL frame(s) after another AP affiliated with the same AP MLD successfully receives the AAR Control subfield in a frame, if the assisting AP does not have frame exchanges already scheduled with another non-AP STA.