IEEE P802.11
Wireless LANs

|  |
| --- |
| LB 275 Resolution for CIDs assigned to Abhi – Part 8 |
| Date: August 25, 2023 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Abhishek Patil | Qualcomm Technologies Inc. |  |  |  |
| Alfred Asterjadhi |  |  |  |
| George Cherian |  |  |  |

 Abstract

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

19630 19781 19329 19330 19782

**Revisions:**

* Rev 0: Initial version of the document.
* Rev 1: Updated based on feedback received when the document was present during AM1 session of TGbe MAC ad-hoc 11-9-2023.

***TGbe editor: Baseline for this document is 11be D4.0***

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.

***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** | **Commenter** | **Category** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 19630 | Yusuke Tanaka | T | 35.3.9 | 534.08 | Fragmented MSDUs should be sent on the same link for fragmentation in MLD not to chase the status of each fragment among multiple links, and such restrictions should be stated. Also, restrictions of cap related fields should be stated. Please see discussion in 23/302r0. | Please state restrictions to send fragmented MSDUs in the same link and restrictions of cap related fields for fragmentation in MLD. | RevisedAgree with the comment. The resolution provides guidance on dynamic fragmentation in MLO.TGbe editor, please make changes as shown in 11-23/1408r1 tagged 19630 |
| 19781 | Abhishek Patil | T | 35.3.9 | 534.09 | Dynamic fragmentation procedure is undefined for MLO. Also see CIDs 18311, 16279 and similar comments from LB 271). | Provide a procedure for dynamic fragmentation. | RevisedAgree with the comment. The resolution provides guidance on dynamic fragmentation in MLO.TGbe editor, please make changes as shown in 11-23/1408r1 tagged 19630 |
| 19329 | Ryuichi Hirata | T | 35.3.9 | 534.11 | Dynamic fragmentation procedure in multi-link operation is missing. | Define dynamic fragmentation procedure in multi-link operation. | RevisedAgree with the comment. The resolution provides guidance on dynamic fragmentation in MLO.TGbe editor, please make changes as shown in 11-23/1408r1 tagged 19630 |
| 19330 | Ryuichi Hirata | T | 35.3.9 | 534.12 | In dynamic fragmentation procedure in multi-link operation, sending fragments on multiple links can help to reduce latency. | Support sendinng fragments on multiple links in dynamic fragmentation procedure. | RevisedAgree with the comment. The resolution provides guidance on dynamic fragmentation in MLO.TGbe editor, please make changes as shown in 11-23/1408r1 tagged 19630 |
| 19782 | Abhishek Patil | T | 35.3.9 | 534.11 | If non-dynamic fragmentation is not supported then TXOP limits might be violated (see 10.23.2.9 of baseline spec - P1915L40 of REVme D3.0) - Also see CIDs 16681 and 16807 from LB271 | As in comment | RevisedAgree with the comment. The resolution provides guidance on how a STA while affiliated with an MLD can either perform dynamic fragmentation or reassociate as a non-MLD STA to perform static fragmentation in order to not violate the TXOP limit.TGbe editor, please make changes as shown in 11-23/1408r1 tagged 19782 |

**35.3.9 Fragmentation in multi-link operation**

***TGbe editor: Please add the following paragraphs to this subclause as shown below:***

[19630]A STA affiliated with an MLD may use dynamic fragmentation as described in 26.3 (Fragmentation and defragmentation) subject to the following additional requirements:

* The Dynamic Fragmentation Support and A-MSDU Fragmentation Support fields in the HE Capabilities elements transmitted by each STA affiliated with the same MLD shall be set to values that are identical across all STAs.
* If the first dynamic fragment of an MSDU, A-MSDU or MMPDU is sent on an enabled link then all the remaining fragments of that MSDU, A-MSDU, or MMPDU shall be sent on that same enabled link.

[19782]If a STA is required to fragment an MSDU or MMPDU so that the initial transmission of the first fragment does not cause the TXOP limit to be exceeded (see 10.23.2.9) then the STA shall either use dynamic fragmentation (while conforming to the rules described above) or reassociate as a STA that is not affiliated with an MLD (so that it can use non-dynamic fragmentation).