IEEE P802.11
Wireless LANs

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| LB275 CR for TWT Teardown |
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Abstract

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

19215 19441 19449 19454 19861 19875 19880 19996 (8 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.***

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| **CID** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 19215 | 35.3.24 | 578.24 | Due to the presence of the Link ID Bitmap in the TWT element, the MLO Link Information element is not included in the TWT Setup frame; however, the MLO Link Information element could be included in the TWT teardown frame for crosslink TWT teardown (if there is no modification for MLD TWT teardown). It would be good to add a NOTE explaining that crosslink TWT teardown could be done with the MLO Link Information element contained in the TWT teardown frame for clarity. | As in comment | Revised-Agree with the comment in principle. Add a note to clarify it. Apply the changes marked as #19215 in this document. |
| 19441 | 35.3.24.2.1 | 578.15 | Please add Link ID Bitmap in the TWT Teardown frame. | As in the comment. | Revised-Agree with the comment in principle. Add a note to clarify it. Apply the changes marked as #19441 in this document. |
| 19449 | 35.3.24.2.1 | 578.13 | A STA of an MLD can negotiate a TWT agreement on behalf of the other STA of the same MLD. Therefore, for functional balance, it is recommended to provide a procedure a STA affiliated with an MLD tear down the TWT agreements on behalf of the other STA of the same MLD. | Please define TWT teardown procedure for the MLD. | Revised-Agree with the comment in principle. Add a note to clarify it. Apply the changes marked as #19449 in this document. |
| 19454 | 35.3.24.2.1 | 578.14 | The iTWT procedure allows multiple TWT setup on different links. The tear-down procedure should have similar procedures by adding the link bitmap. | Complete the multi-link iTWT teardown procedures so that multiple iTWT teardown on different links can be done by similar procedures as the setup | Revised-Agree with the comment in principle. Add a note to clarify it. Apply the changes marked as #19454 in this document. |
| 19861 | 35.3.24.2.1 | 578.39 | The non-AP MLD that has multiple TWT agreements established across multple links should be able to tear down one or more agreements/schedule on a link while sending the TWT Teardown frame (or its equivalent) on a different link for efficient MLO and TWT operation. However, such mechanism is currently missing in 11be. | Please provide necessary mechanism to enhance the operation of TWT Teardown frame to make it more suitable for MLDs. | Revised-Agree with the comment in principle. Add a note to clarify it. Apply the changes marked as #19861 in this document. |
| 19875 | 35.3.24.2 | 580.20 | When a link is going to be disabled, tear down the TWT on disable link and setup new TWT on a new link will cause large signaling overhead, and introduce delay. A TWT link replacement can help to address this issue. The repleancemenet can be allowed for all broadcast TWT, or only allowed for R-TWT which is usually more urgent. | suggest to add an TWT link replacment scheme to reduce the signaling overhead and help smoothly transmit low latency traffic on a different link. | Revised-Agree with the comment in principle. Add a note to clarify it. Apply the changes marked as #19875 in this document. |
| 19880 | 35.3.24.2.1 | 578.13 | The TWT tear down operation for MLD is missing, please update the the text | please update the text | Revised-Agree with the comment in principle. Add a note to clarify it. Apply the changes marked as #19880 in this document. |
| 19996 | 35.3.24.3 | 580.22 | A non-AP MLD that has multiple TWT agreements established across multple links should be able to tear down one or more agreements/schedule on a link while sending the TWT Teardown frame (or its equivalent) on a different link for efficient MLO and TWT operation. However, such mechanism is currently missing in 11be. | Please provide necessary mechanism to enhance the operation of TWT Teardown frame to make it more suitable for MLDs. | Revised-Agree with the comment in principle. Add a note to clarify it. Apply the changes marked as #19996 in this document. |

**Discussion:** None.

***TGbe Editor: please add the following note after the first paragraph of subclause 35.3.24.2.1 (General)***

NOTE - When a TWT Teardown frame with the MLO Link Information element is successfully transmitted or received through the affiliated STAs between two MLDs, the TWT agreement corresponding to the TWT Flow Identifier field, TWT requesting STA MAC address and TWT responding STA MAC address of the TWT Teardown frame, is deleted; where the TWT requesting STA MAC address of the TWT teardown frame is the TWT requesting STA MAC address corresponding to the link indicated in the Link ID Bitmap subfield of the MLO Link Information element, and the TWT responding STA MAC address of the TWT teardown frame is the TWT responding STA MAC address corresponding to the link indicated in the Link ID Bitmap subfield of the MLO Link Information element. (#19215 19441 19449 19454 19861 19875 19880 19996)