IEEE P802.11
Wireless LANs

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| CC36 Resolution for CIDs related to MLO BA Procedure (Part 1) |
| Date: August 1, 2021 |
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 Abstract

This submission proposes resolutions for following 26 CID received for TGbe CC36:

5164, 7592, 5165, 7370, 4739, 7594, 6674, 7593, 4384, 7369, 6762, 4452, 6207, 6290, 6669, 7600, 6670, 7595, 6291, 6292, 4275, 6461, 7670, 7744, 5923, 7475

***TGbe editor: The baseline for this document is 11be D1.1 with exceptions as listed in-line.***

**Revisions:**

* Rev 0: Initial version of the document.

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** | **Clause** | **Pg/Ln** | **Comment** | **Proposed Change** | **Resolution** |
| 5164 | GEORGE CHERIAN | 35.3.7.1.1 | 261.42 | "A block ack agreement between two MLDs shall apply to all links to which the TID corresponding to the block ack agreement, is mapped (i.e., there are no independent block ack agreements on a per-link basis)."The above text is not accurate. Please rephrase as follows:"A block acknowledgement agreement between two MLDs for a TID ishall be applicable to all the links to which the TID is mapped to" | As in the comment | **Revised**This is a duplicate of CID 1684 (from the same commenter). The CID was addressed in doc 11-21/285r4 (Abhishek) and the changes appear in D1.1.**TGbe editor, no further changes are needed to address this comment.** |
| 7592 | Tomoko Adachi | 35.3.7.1.1 | 261.42 | A block ack agreement for a TID shall apply to all enabled links. | Change the paragraph starting from pp.ll 261.42 to read "A single block ack agreement for an TID is established between two MLDs and shall apply to all the links to which the TID is mapped to (i.e., there are no independent block ack agreements for an TID on a per-link basis)." | **Revised**The changes required to address this comment were added by doc 11-21/285r4 (Abhishek) as a resolution to CID 1684 and appears in D1.1.**TGbe editor, no further changes are needed to address this comment.** |
| 5165 | GEORGE CHERIAN | 35.3.7.1.1 | 261.42 | Does the ADDBA signaling need to take place on one of the links on which the TID is mapped to? Or the ADDBA can be sent on any links irrespective of whether the TID is mapped to the link on which the signaling is taking place or not? Please clarify | As in the comment | **Revised**This is a duplicate of CID 1686 (from the same commenter). The CID was addressed in doc 11-21/285r4 (Abhishek) and the changes appear in D1.1.**TGbe editor, no further changes are needed to address this comment.** |
| 7370 | Stephen McCann | 35.3.7.1.1 | 261.48 | What is an "originator MLD"? | Change the term "originator MLD" to "transmitting MLD". | **Revised**This is a duplicate of CID 2871 (from the same commenter). The CID was addressed in doc 11-21/285r4 (Abhishek) and the changes appear in D1.1.**TGbe editor, no further changes are needed to address this comment.** |
| 4739 | Chunyu Hu | 35.3.7.1.1 | 261.49 | In the first sentence, it's stated that the ADDBA Req can be sent over any enabled link -- "on any enabled link". I think the link should be limited to the links enabled for the TID in corresponding DL/UL direction. | As commented | **Revised**The comment is similar to CID 1446 (from the same commenter). The CID was resolved by doc 11-21/285r4 (Abhishek) and the changes appear in D1.1.**TGbe editor, no further changes are needed to address this comment.** |
| 7594 | Tomoko Adachi | 35.3.7.1.1 | 261.51 | On which link does the recipient MLD send the ADDBA Response frame? It needs to be mentioned. While understanding that there is not much meaning restricting the response frame on the same link with the request frame, it is very natural to send it on the same link, which is similar to the ML association procedure. | As in comment. | **Revised**The comment is similar to CID 1427 (from a different commenter). The topic was discussed by TGbe and CID was resolved by doc 11-21/285r4 (Abhishek). The changes appear in D1.1.**TGbe editor, no further changes are needed to address this comment.** |
| 6674 | Rajat Pushkarna | 35.3.7.1.1 | 261.49 | "A STA of the originator MLD sends an ADDBA request frame, on any enabled link". There is no description on which link the response will be received. | Replace with "A STA of the recipient MLD shall respond with an ADDBA response frame on the link where ADDBA resquest frame has been received" | **Revised**The comment is similar to CID 1427 (from a different commenter). The topic was discussed by TGbe and CID was resolved by doc 11-21/285r4 (Abhishek). The changes appear in D1.1.**TGbe editor, no further changes are needed to address this comment.** |
| 7593 | Tomoko Adachi | 35.3.7.1.1 | 261.48 | When there is no Ack frame sent in response to the ADDBA Request frame, the originator should be able to choose a different enabled link for retransmission. It should be covered somewhere. | As in comment. | **Revised**The changes required to address this comment were added by doc 11-21/285r4 (Abhishek). As a result, a NOTE clarifying that an MLD can attempt a retransmission of the ADDBA Request or ADDBA Response frame on any enabled link appears in D1.1.**TGbe editor, no further changes are needed to address this comment.** |
| 4384 | Arik Klein | 35.3.7.1.1 | 261.51 | Add the Extended Buffer Size field to the following sentence (as an additional advisory parameter) : "The Buffer Size and Block Ack Timeout fields in the ADDBA Request frame are advisory" | The revised sentence shall be: "The Buffer Size, \*Extended buffer Size\* and Block Ack Timeout fields in the ADDBA Request frame are advisory" | **Revised**This is a duplicate of CID 1199 (from the same commenter). The CID was addressed in doc 11-21/285r4 (Abhishek) and the changes appear in D1.1.**TGbe editor, no further changes are needed to address this comment.** |
| 7369 | Stephen McCann | 35.3.7.1.1 | 261.52 | What is a "recipient MLD"? | Change the term "recipient MLD" to "receiving MLD" throughout the document. | **Revised**This is a duplicate of CID 2870 (from the same commenter). The CID was addressed in doc 11-21/285r4 (Abhishek) and the changes appear in D1.1.**TGbe editor, no further changes are needed to address this comment.** |
| 6762 | Romain GUIGNARD | 35.3.7.1 | 261.61 | Self reference seems not really useful | If an MLD has established a block ack agreement with another MLD, then QoS Data frames for the TID associated with the block ack agreement may be exchanged between the two MLDs on any link to which the TID is mapped and subject to existing restrictions for transmissions of frames that apply to those enabled links, following the procedure described in this paragraph | **Revised**The incorrect (self) reference was fixed in doc 11-21/285r4 (Abhishek) as a resolution to CID 1065. The changes appear in D1.1.**TGbe editor, no further changes are needed to address this comment.** |
| 4452 | Arik Klein | 35.3.7.1.1 | 262.01 | Use unified terminology of non-AP STA affiliated with non-AP MLD rather than STA of MLD, as in the sentence: "A STA of a recipient MLD may provide (if available) information on successful reception ..." | The revised sentence shall be "A non-AP STA affiliated with a recipient non-AP MLD may provide (if available) information on successful reception ..." | **Revised**The terminology was fixed in doc 11-21/285r4 (Abhishek). The changes appear in D1.1.**TGbe editor, no further changes are needed to address this comment.** |
| 6207 | Michael Montemurro | 35.3.7.1.1 | 262.01 | "STA if a recipient MLD" really means a STA affiliated with a receipient MLD. | Change "STA of a recipient MLD" to "STA affiliated with a receipient MLD" at 262.1 and 262.6Change "another STA of that MLD" to "another STA affiliated with that MLD" at 262.7 | **Revised**The incorrect terminology was fixed at multiple locations in doc 11-21/285r4 (Abhishek). The changes appear in D1.1.**TGbe editor, no further changes are needed to address this comment.** |
| 6290 | Ming Gan | 35.3.7.1.1 | 262.01 | Change "receive status" to "reception status" such that it is aligned with REVmd D5.0 | as in the comment | **Revised**The terminology was fixed in doc 11-21/285r4 (Abhishek). The changes appear in D1.1.**TGbe editor, no further changes are needed to address this comment.** |
| 6669 | Rajat Pushkarna | 35.3.7.1.1 | 262.01 | "A STA of a recipient MLD shall provide the receive status...." it is not conclusively understood that where is the receive status being provided | Please add, "The receive status on the link where the STA in originator MLD is operating" | **Revised**The comment is similar to CID 3339 (from a different commenter). The topic was discussed by TGbe and CID was resolved by doc 11-21/285r4 (Abhishek). The changes appear in D1.1.**TGbe editor, no further changes are needed to address this comment.** |
| 7600 | Tomoko Adachi | 35.3.7.1.1 | 262.01 | The STA here is the one operating on the same link with the STA affiliated with the originator MLD. Such clarification should be made. | As in comment. | **Revised**The comment is similar to CID 3339 (from a different commenter). The topic was discussed by TGbe and CID was resolved by doc 11-21/285r4 (Abhishek). The changes appear in D1.1.**TGbe editor, no further changes are needed to address this comment.** |
| 6670 | Rajat Pushkarna | 35.3.7.1.1 | 262.06 | "A STA of a recipient MLD may provide" same as above | Please add, "The STA of a recipient MLD may provide information to the Originator MLD on successful..." | **Revised**The comment is similar to CID 3339 (from a different commenter). The topic was discussed by TGbe and CID was resolved by doc 11-21/285r4 (Abhishek). The changes appear in D1.1.**TGbe editor, no further changes are needed to address this comment.** |
| 7595 | Tomoko Adachi | 35.3.7.1.1 | 262.06 | The STA here is the one operating on the same link with the STA affiliated with the originator MLD. Such clarification should be made. | As in comment. | **Revised**The comment is similar to CID 3339 (from a different commenter). The topic was discussed by TGbe and CID was resolved by doc 11-21/285r4 (Abhishek). The changes appear in D1.1.**TGbe editor, no further changes are needed to address this comment.** |
| 6291 | Ming Gan | 35.3.7.1.1 | 262.09 | Change "receive status" to "reception status" such that it is aligned with REVmd D5.0 . The similar change for "received status" is needed, or make them aligned with each other | as in the comment | **Revised**The terminology was fixed in doc 11-21/285r4 (Abhishek). The changes appear in D1.1.**TGbe editor, no further changes are needed to address this comment.** |
| 6292 | Ming Gan | 35.3.7.1.1 | 262.13 | Change "receive status" to "reception status" such that it is aligned with REVmd D5.0 | as in the comment | **Revised**The terminology was fixed in doc 11-21/285r4 (Abhishek). The changes appear in D1.1.**TGbe editor, no further changes are needed to address this comment.** |
| 4275 | Alfred Asterjadhi | 35.3.7.1.1 | 262.29 | This paragraph should be in a separate subclause that covers PPDU formats for EHT STAs (see simialr subclause of 11ax). As usual inherit as many rules as possible from 11ax. | As in comment. | **Revised**The changes required to address this comment were added by doc 11-21/285r4 (Abhishek) as a resolution to CID 1752 and appears in D1.1.**TGbe editor, no further changes are needed to address this comment.** |
| 6461 | Oded Redlich | 35.3.7.1 | 262.31 | There is no EHT SU PPDU | Change to "EHT MU PPDU" (twice in the same paragraph) | **Revised**The comment is similar to CIDs 2756 & 2838 which were resolved by doc 11-21/285r4 (Abhishek). The changes appear in D1.1.**TGbe editor, no further changes are needed to address this comment.** |
| 7670 | Wookbong Lee | 35.3.7.1.1 | 262.31 | There is no EHT SU PPDU. Please correct. | See comment. | **Revised**The comment is similar to CIDs 2756 & 2838 which were resolved by doc 11-21/285r4 (Abhishek). The changes appear in D1.1.**TGbe editor, no further changes are needed to address this comment.** |
| 7744 | Xiaogang Chen | 35.3.7.1.1 | 262.31 | change EHT SU PPDU to EHT MU PPDU because EHT doesn't define SU PPDU | as commented | **Revised**The comment is similar to CIDs 2756 & 2838 which were resolved by doc 11-21/285r4 (Abhishek). The changes appear in D1.1.**TGbe editor, no further changes are needed to address this comment.** |
| 5923 | Li-Hsiang Sun | 35.3.7.1.1 | 262.32 | No EHT SU PPDU is defined in PHY | change to EHT MU PPDU | **Revised**The comment is similar to CIDs 2756 & 2838 which were resolved by doc 11-21/285r4 (Abhishek). The changes appear in D1.1.**TGbe editor, no further changes are needed to address this comment.** |
| 7475 | Tianyu Wu | 35.3.7.1.1 | 262.32 | "EHT SU PPDU" is not defined. | Change to "EHT MU PPDU to a single user" | **Revised**The comment is similar to CIDs 12756 & 2838 which were resolved by doc 11-21/285r4 (Abhishek). The changes appear in D1.1.**TGbe editor, no further changes are needed to address this comment.** |