**IEEE P802.11  
Wireless LANs**

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| LB266 CR for 35.3.16.5 (PPDU end time alignment) | | | | |
| Date: 2023-06-18 | | | | |
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Abstract

This submission proposes resolutions for multiple comments related to TGbe D3.0 with the following CIDs ( 10 CIDs):

* 15699, 16317, 16335, 15827, 16881, 16712, 16882, 18312, 16884, 16885

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 subsequent 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.***

| **CID** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| --- | --- | --- | --- | --- | --- |
| 15699 | 35.3.16.5 | 555.16 | When an AP MLD transmits to a non-AP MLD on one NSTR link pair for that non-AP MLD, the AP MLD needs to do PPDU end time alignment. But on the non-AP MLD's side, when it receives a PPDU from its associated AP MLD on one link of the NSTR link pair, it may need to be awake on the NSTR link pair where the PPDU is transmitted until the reception of the PPDU is finished. This may result in a waste of power for non-AP MLD. Need a simplified operation mode for NSTR operations that can save more power for non-AP MLD. | the commenter will bring a contribution to resolve it. | Rejected-  “But on the non-AP MLD's side, when it receives a PPDU from its associated AP MLD on one link of the NSTR link pair, it may need to be awake on the NSTR link pair where the PPDU is transmitted until the reception of the PPDU is finished.”  There is no such requirement to be awake state for the padding time. |
| 16317 | 35.3.16.5 | 555.16 | Name of the subclause 35.3.16.5, "PPDU end time alignment on a NSTR link pair" is not correct. | Please change the subclause name as: "PPDU end time alignment on an NSTR link pair". | Revised-  TGbe editor replaces “a NSTR” with “an NSTR throughout the TGbe Draft 3.2. |
| 16335 | 35.3.16.5.1 | 555.20 | End time alignment by non-AP MLD is also needed in case of non-AP MLDs' sync transmission. In subclause 35.3.16.7, there is a description about non-AP MLD's end time alignment but there is no text in subclause 35.3.16.5 If end time is not aligned, APs' BA frames reception can be interrupted by NSTR interference. Clear description on the end time alignment of sync transmission needs to be added. | Please add non-AP MLD's end time alignment rule. | Rejected-  Current spec does not prohibit that the non-AP MLD obtaining a TXOP performs an ending time alignment.  Any other rule is not needed. |
| 15827 | 35.3.16.5.1 | 555.23 | "TB PPDU is triggered on more than one link": should be "TB PPDUs are triggered ..." | as in comment | Accepted |
| 16881 | 35.3.16.5.1 | 555.25 | The term "concurrently transmits" is used here but nowhere else. I presume it's the same as "simultaneous transmit" explicitly defined at the start of the same para | Change to "simultaneously transmits" | Rejected-  That term is used on the other place.  E.g., “NOTE—If an MLD supports transmission on link 1 concurrently with reception on link 2, but cannot support transmission on link 2 concurrently with reception on link 1, this pair of links is NSTR for that MLD.” |
| 16712 | 35.3.16.5.1 | 555.37 | It is improper to use 'than' after 'when' clause and before conditions. | Change 'at least one of the PPDUs carries a frame that is soliciting an immediate response, then' to 'at least one of the PPDUs carries a frame that is soliciting an immediate response, it shall satisfy the following condition:' | Revised-  Agree in principle.  TGbe editor removes “then” in the followins sentence.  “at least one of the PPDUs carries a frame that is soliciting an immediate response, then” |
| 16882 | 35.3.16.5.1 | 555.59 | "the timing margin is set to half of SIFS" -- but SIFS is 10 us in the 2G4 band | Change to "the timing margin is set to half of (non-2.4 GHz) SIFS" | Rejected-  “The SIFS is the time from the end of the previous PPDU[+SigExt] to the beginning of the preamble of the subsequent PPDU as seen on the WM (#1570)at the STA transmitting the subsequent PPDU.”  aSIFSTime is 10us in 2.4 GHz. But, SIFS is 16 regardless of the band. |
| 18312 | 35.3.16.5.1 | 556.01 | Aggregating fragmented MSDU can be used for padding to align the end time. | Please add aggregating fragmented MSDU as a mean of padding to align the end time. | Rejected-  Fragementation can’t be used for the padding purpose. |
| 16884 | 35.3.16.5.1 | 556.55 | In the figure, DATA should be Data and ACK should be Ack | As it says in the comment | Accept |
| 16885 | 35.3.16.5.1 | 556.55 | What is the purpose of the faint blue mist in this figure? | Remove the blue mist | Accepted |