IEEE P802.11
Wireless LANs

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| **LB266 Comment Resolutions for 36.3.2.6 RU and MRU restrictions for 20 MHz operation** |
| **Date:** 2022-08-08 |
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Abstract

This submission proposes a resolution for CID 12515 and 12516.

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 D2.1 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbe D2.1 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 12515, 12516*

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 12515 | 36.3.2.6 | 601.41 | "A 20 MHz operating non-AP EHT STA does not support any 106+26-tone MRUs for 40 MHz, 80 MHz, 160 MHz, and 320 MHz EHT MU PPDU (receive) and EHT TB PPDU (transmit)" - Here it is restricting the use of 106+26 MRU , we propose to make it optional | We want the proposed change as -"A 20 MHz operating non-AP EHT STA may support any 106+26-tone MRUs for 40 MHz, 80 MHz, 160 MHz, and 320 MHz EHT MU PPDU (receive) and EHT TB PPDU (transmit)." | RejectedSince the tone plans between 20 MHz and a wider bandwidth are not aligned, some tones of 106+26-tone MRUs in a wider bandwidth fall into DC tones of 20 MHz operation which results in perforamance degradation. Hence, 11be has reached agreement on restriction of 106+26-tone MRUs in a wider bandwidth transmission. Please refer to Motion 137, #SP272. |
| 12516 | 36.3.2.6 | 601.44 | "A 20 MHz operating non-AP EHT STA does not support any 242-tone RUs for 40 MHz, 80 MHz, 160 MHz, and 320 MHz EHT TB PPDU (transmit)"- Here 242 -tone RU TB-PPDU transmission in 20 in X scenarios is restricted, we propose to make it optional. | We want the proposed change as -"A 20 MHz operating non-AP EHT STA may support any 242-tone RUs for 40 MHz, 80 MHz, 160 MHz, and 320 MHz EHT TB PPDU (transmit)" | RejectedSince the tone plans between 20 MHz and a wider bandwidth are not aligned, some tones of 242-tone RUs in a wider bandwidth fall into DC tones of 20 MHz operation which results in perforamance degradation. Since the ratio of those affected tones is less than that of 106+26-tone MRU or 106+52-tone MRU, 242-tone RUs have been optionally allowed for a wider bandwidth DL OFDMA. However, UL OFDMA is much more vulnerable since it needs more accurate synchronization. Hence, 11be has reached agreement on restriction of 242-tone RUs in a wider bandwidth UL OFDMA transmission. Please refer to Motion 144, #SP331. |