IEEE P802.11  
Wireless LANs

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| Resolutions for CIDs in Clause 36.3.2.2, part 3 | | | | |
| Date: July 26, 2022 | | | | |
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Abstract

This submission proposes resolutions for following 8 CIDs received for TGbe LB271:

17184, 17185, 17186, 17187, 17188, 17189,17190, 17191

**Revisions:**

* Rev 0: Initial version of the document.

**TGbe editor: The baseline for this document is 11be D3.0. In the resolution, the page and line in D3.2 are also added as a note to the editor.**

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| **CID** | **Clause** | **Pg/Ln** | **Comment** | **Proposed Change** | **Resolution** |
| 17184 | 36.3.2.2.2 | 709.19 | "For a 20 MHz operating non-AP STA, the transmission and reception of 52+26-tone and 106+26-tone MRUs that are allowed in 36.3.2.6 (RU and MRU restrictions for 20 MHz operation) shall be supported.". Is this correct for 20 MHz only with limited capabilities? | Clarify and correct if needed. | **Revised.**  A 20 MHz-Only non-AP EHT STA Limited Capabilities was added to 11be standard which has a capability to indicate if it supports 56+26-tone and 106+26-tone MRUs. So support of 56+26-tone and 106+26-tone MRUs for a STA of 20 MHz-Only Limited Capabilities is not mandatory.  **11be Editors:**  Please change the page 729 line 18-20 in D3.2 as the following:  “For a 20 MHz operating non-AP STA excluding a 20 MHz-only non-AP EHT STA with 20 MHz-Only Limited Capabilities, the transmission and reception of 52+26-tone and 106+26-tone MRUs that are allowed in 36.3.2.6 (RU and MRU restrictions for 20 MHz operation) shall be supported.”  “For a 20 MHz-only non-AP EHT STA with 20 MHz-Only Limited Capabilities Support subfield equal to 1, the transmission and reception of 52+26-tone and 106+26-tone MRUs that are allowed in 36.3.2.6 (RU and MRU restrictions for 20 MHz operation) may be supported.” |
| 17185 | 36.3.2.2.3.1 | 709.32 | "The 484+242-tone MRU is allowed when a 20 MHz subchannel is punctured in a non-OFDMA 80 MHz EHT PPDU."".  To be clear: this means both preamble and EHT-portion will have the 20 MHz channel punctured and that it's not allowed to have a PPDU where the preamble is not punctured and the EHT-portion uses a 484+242 MRU.  If this is the intention, let's make it unambiguous. Currently it does not say that the latter is disallowed.  Do we want to go as far as saying that the MRU has to match the puncturing pattern exactly (no more, no less)?" | See comment | **Revised**  It is not clear if a STA can transmit 484+242-tone MRU without preamble puncture in non-OFDMA transmissions. We need to clarify it.  **11be Editors:**  Please change the page 729 line 32-33 in D3.2 as the following:  ~~The 484+242-tone MRU is allowed when a 20 MHz subchannel is punctured in a non-OFDMA 80 MHz EHT PPDU.~~  For a non-OFDMA 80 MHz EHT PPDU, the 484+242-tone MRU is only defined when a 20 MHz subchannel is punctured. |
| 17186 | 36.3.2.2.3.1 | 709.61 | """The 996+484-tone MRU is allowed when a 40 MHz subchannel is punctured in a non-OFDMA 160 MHz EHT PPDU."".  To be clear: this means both preamble and EHT-portion will have the 40 MHz channel punctured and that it's not allowed to have a PPDU where the preamble is not punctured and the EHT-portion uses a 996+484 MRU.  If this is the intention, let's make it unambiguous. Currently it does not say that the latter is disallowed.  Do we want to go as far as saying that the MRU has to match the puncturing pattern exactly (no more, no less)?" | See comment | **Revised.**  It is not clear if a STA can transmit 996+484-tone MRU without preamble puncture in non-OFDMA transmissions. We need to clarify it.  **11be Editors:**  Please change the page 729 line 61-62 in D3.2 as the following:  ~~The 996+484-tone MRU is allowed when a 40 MHz subchannel is punctured in a non-OFDMA 160 MHz EHT PPDU.~~  For a non-OFDMA 160 MHz EHT PPDU, the 996+484-tone MRU is only defined when a 40 MHz subchannel is punctured. |
| 17187 | 36.3.2.2.3.1 | 710.30 | """The 996+484+242-tone MRU is allowed when a 20 MHz subchannel is punctured in a non-OFDMA 160 MHz EHT PPDU."".  To be clear: this means both preamble and EHT-portion will have the 20 MHz channel punctured. It's not allowed to have a PPDU where the preamble is not punctured and the EHT-portion uses a 996+484+242 MRU.  If this is the intention, let's make it unambiguous. Currently it does not say that the latter is disallowed.  Do we want to go as far as saying that the MRU has to match the puncturing pattern exactly (no more, no less)?" | See comment | **Revised.**  It is not clear if a STA can transmit 996+484+242-tone MRU without preamble puncture in non-OFDMA transmissions. We need to clarify it.  **11be Editors:**  Please change the page 730 line 30-31 in D3.2 as the following:  ~~The 996+484+242-tone MRU is allowed when a 20 MHz subchannel is punctured in a non-OFDMA 160 MHz EHT PPDU.~~  For a non-OFDMA 160 MHz EHT PPDU, the 996+484+242-tone MRU is only defined when a 20 MHz subchannel is punctured. |
| 17188 | 36.3.2.2.3.1 | 711.38 | """The 2x996+484-tone MRU is allowed when either 996-tone RU1 or 996-tone RU4 in a non-OFDMA 320 MHz EHT PPDU is punctured and any one of the 40 MHz subchannels in the remaining 240 MHz is punctured."".  To be clear: this means both preamble and EHT-portion will have the 40 and 80 MHz channel punctured and that it's not allowed to have a PPDU where the preamble is not punctured and the EHT-portion uses a 2x996+484 MRU.  If this is the intention, let's make it unambiguous. Currently it does not say that the latter is disallowed.  Do we want to go as far as saying that the MRU has to match the puncturing pattern exactly (no more, no less)?" | See comment | **Revised.**  It is not clear if a STA can transmit 2x996+484-tone MRU without preamble puncture in non-OFDMA transmissions. We need to clarify it.  **11be Editors:**  Please change the page 731 line 38-40 in D3.2 as the following:  ~~The 2x996+484-tone MRU is allowed when either 996-tone RU1 or 996-tone RU4 in a non-OFDMA 320 MHz EHT PPDU is punctured and any one of the 40 MHz subchannels in the remaining 240 MHz is punctured.~~  For a non-OFDMA 320 MHz EHT PPDU, the 2x996+484-tone MRU is only defined when either 996-tone RU1 or 996-tone RU4 is punctured and any one of the 40 MHz subchannels in the remaining 240 MHz is punctured. |
| 17189 | 36.3.2.2.3.1 | 711.49 | "if any one of the 2x996+484-tone MRU 1 to the 2x996+484-tone MRU 6 exists". "exists" is a confusing choice of words here. This is for SU, so only one MRU is present. | "Change ""exist"" to ""is used"".  Same change on P712L2" | **Accepted.** |
| 17190 | 36.3.2.2.3.1 | 712.39 | """The 3x996-tone MRU is allowed when an 80 MHz subchannel is punctured in a non-OFDMA 320 MHz EHT PPDU."".  To be clear: this means both preamble and EHT-portion will have the 80 MHz channel punctured and that it's not allowed to have a PPDU where the preamble is not punctured and the EHT-portion uses a 3x996-tone MRU.  If this is the intention, let's make it unambiguous. Currently it does not say that the latter is disallowed.  Do we want to go as far as saying that the MRU has to match the puncturing pattern exactly (no more, no less)?" | See comment | **Revised.**  It is not clear if a STA can transmit 3x996-tone MRU without preamble puncture in non-OFDMA transmissions. We need to clarify it.  **11be Editors:**  Please change the page 732 line 39-40 in D3.2 as the following:  ~~The 3x996-tone MRU is allowed when an 80 MHz subchannel is punctured in a non-OFDMA 320 MHz EHT PPDU.~~  For a non-OFDMA 320 MHz EHT PPDU, the 3x996-tone MRU is only defined when an 80 MHz subchannel is punctured. |
| 17191 | 36.3.2.2.3.1 | 713.01 | """The 3x996+484-tone MRU is allowed when a 40 MHz subchannel is punctured in a non-OFDMA 320 MHz EHT PPDU."".  To be clear: this means both preamble and EHT-portion will have the 40 MHz channel punctured and that it's not allowed to have a PPDU where the preamble is not punctured and the EHT-portion uses a 3x996+484-tone MRU.  If this is the intention, let's make it unambiguous. Currently it does not say that the latter is disallowed.  Do we want to go as far as saying that the MRU has to match the puncturing pattern exactly (no more, no less)?" | See comment | **Revised.**  It is not clear if a STA can transmit 3x996+484-tone MRU without preamble puncture in non-OFDMA transmissions. We need to clarify it.  **11be Editors:**  Please change the page 733 line 1-2 in D3.2 as the following:  ~~The 3x996+484-tone MRU is allowed when a 40 MHz subchannel is punctured in a non-OFDMA 320 MHz EHT PPDU.~~  For a non-OFDMA 320 MHz EHT PPDU, the 3x996+484-tone MRU is only defined when a 40 MHz subchannel is punctured. |