IEEE P802.11  
Wireless LANs

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| LB266 CR for 36.3.2.1 | | | | |
| Date: 2022-11-08 | | | | |
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This submission includes the resolutions for 8 CIDs:

10332, 10823, 11197, 11689, 11690, 11691, 12129, 12141

on subclause 36.3.2.1 of P802.11be D2.0.

The baseline document is P802.11be D2.2.

##### Revision history:

##### R0 – initial version

**CID: 10332**

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| CID | Clause | Page | Line | Comment | Proposed Change | Proposed resolution |
| 10332 | 36.3.2.1 | 570 | 35 | Somewhere it uses "null", and somewhere it uses "Null subcarriers". Suggest being consistent | Use the term with more appearances for the sake of consistency. | REJECTED  Since in 802.11ax and 802.11be, the terms of “guard” and “DC” are interchangeable to “guard subcarriers” and “DC subcarriers” respectively when defining RU allocation, similarly the term “null” and “Null subcarriers” can also be considered to be interchangeable. |

**CID: 10823**

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| CID | Clause | Page | Line | Comment | Proposed Change | Proposed resolution |
| 10823 | 36.3.2.1 | 570 | 25 | Two arrows were used to indicate the null subcarriers on the right side of DC in Figures 36-4. so, delete one arrow | As in the comment. | REJECTED  Discussion is as below. |

*Discussion:*

RU locations in an 80 MHz EHT PPDU is shown in Figure 36-4 in P802.11be D2.0. As defined in Table 36-5—Data and pilot subcarrier indices for RUs in an 80 MHz EHT PPDU, for the 26-, 52- and 106-tone RU, the null subcarriers include the subcarriers with indices [-259: -253]; for the 242- and 484-tone RU, the null subcarriers include the subcarriers with indices [-258: -254]. The three arrows highlighted in the circle for the first 40 MHz in 80 MHz EHT PPDU indicate the null subcarrier with indices -259, [-258: -254] and [-253], respectively. There is no need to change Figure 36-4. Similarly, this applies to the case for the second 40 MHz in 80 MHz EHT PPDU.



**CID: 11197, 11691, 12129**

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| CID | Clause | Page | Line | Comment | Proposed Change | Proposed resolution |
| 11197 | 36.3.2.1 | 570 | 44 | Should explicitly mention that 996 RU is for "non-OFDMA transmission" in 80MHz | Modify as: "The tone plan and RU allocation of a nonpunctured 80 MHz EHT PPDU using non-OFDMA transmission, that is not an EHT MU PPDU in EHT DUP mode, are defined by a 996-tone RU as shown in  Figure 36-4 (RU locations in an 80 MHz EHT PPDU)" | REVISED  Note to TGbe editor: For your convenience, please revise the text in P570L44 in 802.11be D2.0 (P617L44 in 802.11be D2.2) as modified in 11-22/1875r0. |
| 11691 | 36.3.2.1 | 570 | 44 | The last sentence of this paragraph is only true for an EHT PPDU using non-OFDMA transmission. I understand that the entire paragraph is supposed dedicated to the case for an EHT PPDU using non-OFDMA transmission. But ambiguity may still exist. Better rephrase this sentence by adding the condition. | Please refer to the comment. | REVISED  To TGbe Editor: The same text change as for CID11197. |
| 12129 | 36.3.2.1 | 570 | 44 | not an EHT MU PPDU in EHT DUP mode' is not clear. There's no EHT PPDU that is not an EHT MU PPDU but EHT DUP mode. So modify the text as 'that is not EHT DUP mode' | Modify '~ a nonpunctured 80 MHz EHT PPDU that is not an EHT MU PPDU in EHT DUP mode are~' to '~ a nonpunctured 80 MHz EHT PPDU that is not DUP mode are~' | REJECTED  The NOTE following Figure 36-4 relates to two cases for the EHT DUP mode. It is better to keep its text structure in the NOTE as it is now. |

TGbe editor: Please revise the text in P570L44 in 802.11be D2.0 (P617L44 in 36.3.2.1 in 802.11be D2.2) as follows:

NOTE—For an EHT PPDU using non-OFDMA transmission, the tone plan and RU allocations of a nonpunctured 80 MHz EHT MU PPDU in EHT DUP mode (described in 36.3.5 (EHT DUP transmission)) are identical to those of a DL-OFDMA transmission comprising two 484-tone RUs as shown in Figure 36-4 (RU locations in an 80 MHz EHT PPDU). The tone plan and RU allocations of a nonpunctured non-OFDMA 80 MHz EHT PPDU, that is not an EHT MU PPDU in EHT DUP mode, are defined by a 996-tone RU as shown in Figure 36-4 (RU locations in an 80 MHz EHT PPDU).

**CID: 11689**

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| CID | Clause | Page | Line | Comment | Proposed Change | Proposed resolution |
| 11689 | 36.3.2.1 | 570 | 13 | Change "80 MHz subblocks" to "80 MHz frequency subblocks". Please check other instances in the related subclauses. | Please refer to the comment. | ACCEPTED  Note to TGbe editor: For your convenience, please conduct a global search to replace “80 MHz subblock” with “80 MHz frequency subblock” |

**CID: 11690**

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| CID | Clause | Page | Line | Comment | Proposed Change | Proposed resolution |
| 11690 | 36.3.2.1 | 570 | 15 | Change "used as part of an RU or MRU" to "used as an RU or part of an RU or MRU". | Please refer to the comment. | ACCEPTED  Note to TGbe editor: For your convenience, please revise the text in P570L15 in 802.11be D2.0 (P617L15 in 802.11be D2.2) as modified in 11-22/1875r0. |

TGbe editor: Please revise the text in P570L15 in 802.11be D2.0 (P617L15 in 36.3.2.1 in 802.11be D2.2) as follows:

The EHT tone plan and RU locations for a 20 MHz PPDU and 40 MHz PPDU are identical to those of HE PHY defined in 27.3.2 (Subcarrier and resource allocation). The EHT tone plan and RU locations for an 80 MHz PPDU are given in Figure 36-4 (RU locations in an 80 MHz EHT PPDU). An EHT PPDU spanning 160 MHz or wider is composed of multiple 80 MHz subblocks. The tone plan and RU allocations for each of the 80 MHz subblocks are identical to those of an 80 MHz EHT PPDU. If an 80 MHz subblock in a 160 MHz or 320 MHz EHT PPDU is nonpunctured and the entire 80 MHz subblock is used as an RU, or part of an RU or MRU, the 80 MHz subblock uses a 996-tone RU as shown in Figure 36-4 (RU locations in an 80 MHz EHT PPDU). If an 80 MHz subblock contains RUs smaller than 996 tones or if parts of the 80 MHz subblock are punctured, the 80 MHz subblock uses the tone plan and RU allocations as shown in Figure 36-4 (RU locations in an 80 MHz EHT PPDU) excluding the 996-tone RU.

**CID: 12141**

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| CID | Clause | Page | Line | Comment | Proposed Change | Proposed resolution |
| 12141 | 36.3.2.1 | 577 | 29 | reference to data and pilot subcarrier indices for RUs in an 20 MHz and 40 MHz PPDUs need to be added. | change at P577L28  "The subcarrier indices of an MRU consist of the indices of the corresponding RUs shown in Table 36-5 (Data and pilot subcarrier indices for RUs in an 80 MHz EHT PPDU), ...  to "The subcarrier indices of an MRU consist of the indices of the corresponding RUs shown in Table 27-7(Data and pilot subcarrier indices for RUs in a 20 MHz HE PPDU and in a non-OFDMA 20 MHz HE PPDU), Table 27-8 (Data and pilot subcarrier indices for RUs in a 40 MHz HE PPDU and in a non-OFDMA 40 MHz HE PPDU), Table 36-5 (Data and pilot subcarrier indices for RUs in an 80 MHz EHT PPDU), | ACCEPTED  Note to TGbe editor: For your convenience, please add references in P577L29 in 802.11be D2.0 (P624L29 in 802.11be D2.2) as modified in 11-22/1875r0. |

TGbe editor: Please revise the text in P577L29 in 802.11be D2.0 (P624L29 in 36.3.2.1 in 802.11be D2.2) as follows:

Multiple RUs can be assigned to an EHT STA (see 36.3.2.2 (Subcarriers and resource allocation for multiple RUs)). The subcarrier indices of an MRU consist of the indices of the corresponding RUs shown in Table 27-7 (Data and pilot subcarrier indices for RUs in a 20 MHz HE PPDU and in a non-OFDMA 20 MHz HE PPDU), Table 27-8 (Data and pilot subcarrier indices for RUs in a 40 MHz HE PPDU and in a non-OFDMA 40 MHz HE PPDU), Table 36-5 (Data and pilot subcarrier indices for RUs in an 80 MHz EHT PPDU), Table 36-6 (Data and pilot subcarrier indices for RUs in a 160 MHz EHT PPDU), and Table 36-7 (Data and pilot subcarrier indices for RUs in a 320 MHz EHT PPDU) from which the MRU is built and are defined in 36.3.2.2 (Subcarriers and resource allocation for multiple RUs).