IEEE P802.11
Wireless LANs

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| Proposed Draft Text: Note in Trigger Frame RU Allocation subfield |
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Abstract

This submission provides a NOTE to the trigger frame RU allocation table on the basis of D1.0 and 21/0893r1. The following changes are made in this submission:

1. Add NOTE 2 in that table.

Discussion

Reading the trigger frame RU allocation table, maybe some people will think that all the small MRU indices listed in that table can be supported, if not checking the MRU indices tables shown in the subclause 36.3 EHT PHY. To avoid confusion in this table, this submission provides a NOTE for clarification.

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| * Indices for small size MRUs in an OFDMA 80 MHz EHT PPDU
 |
| MRU type | MRU index | MRU combination |
| 52+26-tone MRU | MRU 1 | Not defined |
| MRU 2 | 52-tone RU 2 + 26-tone RU 5 |
| MRU 3 | 52-tone RU 3 + 26-tone RU 8 |
| MRU 4 | 52-tone RU 6 + 26-tone RU 11 |
| MRU 5 | 52-tone RU 6 + 26-tone RU 14 |
| MRU 6 | Not defined |
| MRU 7 | Not defined |
| MRU 8 | 52-tone RU 10 + 26-tone RU 24 |
| MRU 9 | 52-tone RU 11 + 26-tone RU 27 |
| MRU 10 | 52-tone RU 14 + 26-tone RU 30 |
| MRU 11 | 52-tone RU 14 + 26-tone RU 33 |
| MRU 12 | Not defined |
| 106+26-tone MRU | MRU 1 | 106-tone RU 1 + 26-tone RU 5 |
| MRU 2 | Not defined |
| MRU 3 | Not defined |
| MRU 4 | 106-tone RU 4 + 26-tone RU 14 |
| MRU 5 | 106-tone RU 5 + 26-tone RU 24 |
| MRU 6 | Not defined |
| MRU 7 | Not defined |
| MRU 8 | 106-tone RU 8 + 26-tone RU 33 |

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| * Indices for small size MRUs in an OFDMA 160 MHz EHT PPDU
 |
| MRU type | MRU index | MRU combination |
| 52+26-tone MRU | MRU 1 | Not defined |
| MRU 2 | 52-tone RU 2 + 26-tone RU 5 |
| MRU 3 | 52-tone RU 3 + 26-tone RU 8 |
| MRU 4 | 52-tone RU 6 + 26-tone RU 11 |
| MRU 5 | 52-tone RU 6 + 26-tone RU 14 |
| MRU 6 | Not defined |
| MRU 7 | Not defined |
| MRU 8 | 52-tone RU 10 + 26-tone RU 24 |
| MRU 9 | 52-tone RU 11 + 26-tone RU 27 |
| MRU 10 | 52-tone RU 14 + 26-tone RU 30 |
| MRU 11 | 52-tone RU 14 + 26-tone RU 30 |
| MRU 12 | Not defined |
| MRU 13 | Not defined |
| MRU 14 | 52-tone RU 18 + 26-tone RU 42 |
| MRU 15 | 52-tone RU 19 + 26-tone RU 45 |
| MRU 16 | 52-tone RU 22 + 26-tone RU 48 |
| MRU 17 | 52-tone RU 22 + 26-tone RU 51 |
| MRU 18 | Not defined |
| MRU 19 | Not defined |
| MRU 20 | 52-tone RU 26 + 26-tone RU 61 |
| MRU 21 | 52-tone RU 27 + 26-tone RU 64 |
| MRU 22 | 52-tone RU 30 + 26-tone RU 67 |
| MRU 23 | 52-tone RU 30 + 26-tone RU 70 |
| MRU 24 | Not defined |
| 106+26-tone MRU | MRU 1 | 106-tone RU 1 + 26-tone RU 5 |
| MRU 2 | Not defined |
| MRU 3 | Not defined |
| MRU 4 | 106-tone RU 4 + 26-tone RU 14 |
| MRU 5 | 106-tone RU 5 + 26-tone RU 24 |
| MRU 6 | Not defined |
| MRU 7 | Not defined |
| MRU 8 | 106-tone RU 8 + 26-tone RU 33 |
| MRU 9 | 106-tone RU 9 + 26-tone RU 42 |
| MRU 10 | Not defined |
| MRU 11 | Not defined |
| MRU 12 | 106-tone RU 12 + 26-tone RU 51 |
| MRU 13 | 106-tone RU 13 + 26-tone RU 61 |
| MRU 14 | Not defined |
| MRU 15 | Not defined |
| MRU 16 | 106-tone RU 16 + 26-tone RU 70 |

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| * Indices for small size MRUs in an OFDMA 320 MHz EHT PPDU
 |
| MRU type | MRU index | MRU combination |
| 52+26-tone MRU | MRU 1 | Not defined |
| MRU 2 | 52-tone RU 2 + 26-tone RU 5 |
|  | MRU 3 | 52-tone RU 3 + 26-tone RU 8 |
|  | MRU 4 | 52-tone RU 6 + 26-tone RU 11 |
|  | MRU 5 | 52-tone RU 6 + 26-tone RU 14 |
|  | MRU 6 | Not defined |
|  | MRU 7 | Not defined |
|  | MRU 8 | 52-tone RU 10 + 26-tone RU 24 |
|  | MRU 9 | 52-tone RU 11 + 26-tone RU 27 |
|  | MRU 10 | 52-tone RU 14 + 26-tone RU 30 |
|  | MRU 11 | 52-tone RU 14 + 26-tone RU 33 |
|  | MRU 12 | Not defined |
|  | MRU 13 | Not defined |
|  | MRU 14 | 52-tone RU 18 + 26-tone RU 42 |
|  | MRU 15 | 52-tone RU 19 + 26-tone RU 45 |
|  | MRU 16 | 52-tone RU 22 + 26-tone RU 48 |
|  | MRU 17 | 52-tone RU 22 + 26-tone RU 51 |
|  | MRU 18 | Not defined |
|  | MRU 19 | Not defined |
|  | MRU 20 | 52-tone RU 26 + 26-tone RU 61 |
|  | MRU 21 | 52-tone RU 27 + 26-tone RU 64 |
|  | MRU 22 | 52-tone RU 30 + 26-tone RU 67 |
|  | MRU 23 | 52-tone RU 30 + 26-tone RU 70 |
|  | MRU 24 | Not defined |
|  | MRU 25 | Not defined |
|  | MRU 26 | 52-tone RU 34 + 26-tone RU 79 |
|  | MRU 27 | 52-tone RU 37 + 26-tone RU 82 |
|  | MRU 28 | 52-tone RU 38 + 26-tone RU 85 |
|  | MRU 29 | 52-tone RU 38 + 26-tone RU 88 |
|  | MRU 30 | Not defined |
|  | MRU 31 | Not defined |
|  | MRU 32 | 52-tone RU 42 + 26-tone RU 98 |
|  | MRU 33 | 52-tone RU 43 + 26-tone RU 101 |
|  | MRU 34 | 52-tone RU 46 + 26-tone RU 104 |
|  | MRU 35 | 52-tone RU 46 + 26-tone RU 107 |
|  | MRU 36 | Not defined |
|  | MRU 37 | Not defined |
|  | MRU 38 | 52-tone RU 50 + 26-tone RU 116 |
|  | MRU 39 | 52-tone RU 51 + 26-tone RU 119 |
|  | MRU 40 | 52-tone RU 54 + 26-tone RU 122 |
|  | MRU 41 | 52-tone RU 54 + 26-tone RU 125 |
|  | MRU 42 | 52-tone RU 55 + 26-tone RU 128 |
|  | MRU 43 | 52-tone RU 58 + 26-tone RU 132 |
|  | MRU 44 | 52-tone RU 58 + 26-tone RU 135 |
|  | MRU 45 | 52-tone RU 59 + 26-tone RU 138 |
|  | MRU 46 | 52-tone RU 62 + 26-tone RU 141 |
|  | MRU 47 | 52-tone RU 62 + 26-tone RU 144 |
|  | MRU 48 | Not defined |
| 106+26-tone MRU | MRU 1 | 106-tone RU 1 + 26-tone RU 5 |
| MRU 2 | Not defined |
|  | MRU 3 | Not defined |
|  | MRU 4 | 106-tone RU 4 + 26-tone RU 14 |
|  | MRU 5 | 106-tone RU 5 + 26-tone RU 24 |
|  | MRU 6 | Not defined |
|  | MRU 7 | Not defined |
|  | MRU 8 | 106-tone RU 8 + 26-tone RU 33 |
|  | MRU 9 | 106-tone RU 9 + 26-tone RU 42 |
|  | MRU 10 | Not defined |
|  | MRU 11 | Not defined |
|  | MRU 12 | 106-tone RU 12 + 26-tone RU 51 |
|  | MRU 13 | 106-tone RU 13 + 26-tone RU 61 |
|  | MRU 14 | Not defined |
|  | MRU 15 | Not defined |
|  | MRU 16 | 106-tone RU 16 + 26-tone RU 70 |
|  | MRU 17 | 106-tone RU 17 + 26-tone RU 79 |
|  | MRU 18 | Not defined |
|  | MRU 19 | Not defined |
|  | MRU 20 | 106-tone RU 20 + 26-tone RU 88 |
|  | MRU 21 | 106-tone RU 21 + 26-tone RU 98 |
|  | MRU 22 | Not defined |
|  | MRU 23 | Not defined |
|  | MRU 24 | 106-tone RU 24 + 26-tone RU 107 |
|  | MRU 25 | 106-tone RU 25 + 26-tone RU 116 |
|  | MRU 26 | Not defined |
|  | MRU 27 | Not defined |
|  | MRU 28 | 106-tone RU 28 + 26-tone RU 125 |
|  | MRU 29 | 106-tone RU 29 + 26-tone RU 135 |
|  | MRU 30 | Not defined |
|  | MRU 31 | Not defined |
|  | MRU 32 | 106-tone RU 32 + 26-tone RU 144 |

**Version history:**

Rev 0: Initial PDT

***TGbe editor: Please make the following changes in Table 9-29j1—Encoding of PS160 and RU Allocation subfields in an EHT variant User Info field:***

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| * Encoding of PS160 and RU Allocation subfields in an EHT variant User Info field
 |
| PS160 subfield | B0 of the RU Allocation subfield | B7–B1 of the RU Allocation subfield | Bandwidth (MHz) | RU/MRU size | RU/MRU index | PHY RU/MRU index |
| 0–3: 80 MHz segment where the RU is located | 0–8 | 20, 40, 80, 160, or 320 | 26 | RU1 to RU9, respectively | 37**+ RU index |
| 9–17 | 40, 80, 160, or 320 | RU10 to RU18, respectively |
| 18 | 80, 160, or 320 | Reserved |
| 19–36 | 80, 160, or 320 | RU20 to RU37 respectively |
| 37–40 | 20, 40, 80, 160, or 320 | 52 | RU1 to RU4, respectively | 16**+ RU index |
| 41–44 | 40, 80, 160, or 320 | RU5 to RU8, respectively |
| 45–52 | 80, 160, or 320 | RU9 to RU16, respectively |
| 53, 54 | 20, 40, 80, 160, or 320 | 106 | RU1 and RU2, respectively | 8**+ RU index |
| 55, 56 | 40, 80, 160, or 320 | RU3 and RU4, respectively |
| 57–60 | 80, 160, or 320 | RU5 to RU8, respectively |
| 61 | 20, 40, 80, 160, or 320 | 242 | RU1 | 4**+ RU index |
| 62 | 40, 80, 160, or 320 | RU2 |
| 63, 64 | 80, 160, or 320 | RU3 and RU4, respectively |
| 65 | 40, 80, 160, or 320 | 484 | RU1 | 2**+ RU index |
| 66 | 80, 160, or 320 | RU2 |
| 67 | 80, 160, or 320 | 996 | RU1 | **+ RU index |
| 0–1: 160 MHz segment where the RU is located | 0 | 68 | Reserved | Reserved |
| 1 | 160 or 320 | 2996 | RU1 | X1+ RU index |
| 0 | 0 | 69 | Reserved | Reserved |
| 0 | 1 |
| 1 | 0 |
| 1 | 1 | 320 | 4996 | RU1 | RU1 |
| 0–3: 80 MHz segment where the RU is located | 70–72 | 20, 40, 80, 160, or 320 | 52+26 | MRU1 to MRU3, respectively | 12**+ MRU index |
| 73–75 | 40, 80, 160, or 320 | 52+26 | MRU4 to MRU6, respectively |
| 76–81 | 80, 160, or 320 | 52+26 | MRU7 to MRU12, respectively |
| 82, 83 | 20, 40, 80, 160, or 320 | 106+26 | MRU1 and MRU2, respectively | 8**+ MRU index |
| 84, 85 | 40, 80, 160, or 320 | 106+26 | MRU3 and MRU4, respectively |
| 86–89 | 80, 160, or 320 | 106+26 | MRU5 to MRU8, respectively |
| 90–93 | 80, 160, or 320 | 484+242 | MRU1 to MRU4, respectively | 4**+ MRU index |
| 0–1: 160 MHz segment where the MRU is located | 0 | 94, 95 | 160 or 320 | 996+484 | MRU1 and MRU2, respectively | 4X1+ MRU index |
| 1 | MRU3 and MRU4, respectively |
| 0: MRU is located in the Primary 160 MHz | 0 | 96–99 | 160  | 996+484+242 | MRU1 to MRU4, respectively | 8X1+ MRU index |
| 1 | MRU5 to MRU8, respectively |
| 1 | Any | 96-99 | Reserved | Reserved | Reserved | Reserved |
| 0 | 0 | 100–103 | 320 | 2996 +484 | MRU1 to MRU4, respectively | MRU index |
| 0 | 1 | MRU5 and MRU6, respectively |
| 1 | 0 | MRU7 and MRU8, respectively |
| 1 | 1 | MRU9 to MRU12, respectively |
| 0 | 0 | 104 | 320 | 3996 | MRU1 | MRU index |
| 0 | 1 | MRU2 |
| 1 | 0 | MRU3 |
| 1 | 1 | MRU4 |
| 0 | 0 | 105, 106 | 320 | 3996 +484 | MRU1 and MRU2, respectively | MRU index |
| 0 | 1 | MRU3 and MRU4, respectively |
| 1 | 0 | MRU5 and MRU6, respectively |
| 1 | 1 | MRU7 and MRU8, respectively |
| Any | Any | 107–127 | Any | Reserved | Reserved | Reserved |
| NOTE 1—B0 of the RU Allocation subfield is set to 0 to indicate that the RU/MRU allocation applies to the primary 80 MHz channel and set to 1 to indicate that the RU allocation applies to the secondary 80 MHz channel in the primary 160 MHz. B0 of the RU Allocation subfield is set to 0 to indicate that the RU/MRU allocation applies to the lower 80 MHz in the secondary 160 MHz and is set to 1 to indicate that the RU allocation applies to upper 80 MHz in the secondary 160 MHz.NOTE 2—The PHY MRU index of a 52+26-tone MRU is not defined in the case of the MRU index equal to 1, 6, 7, or 12, if the Bandwidth indicates 80, 160, or 320 MHz. The PHY MRU index of a 106+26-tone MRU is not defined in the case of the MRU index equal to 2, 3, 6, or 7, if the Bandwidth indicates 80, 160, or 320 MHz. |