IEEE P802.11  
Wireless LANs

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| Resolution for CID 16317 and 15950 | | | | |
| Date: October 30, 2018 | | | | |
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Abstract

This submission proposes resolutions for comments received for TGax LB233 (2 CIDs):

16317, 15950

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| **CID** | **Commenter** | **Pg / Ln** | **Section** | **Comment** | **Proposed Change** | **Resolution** |
| 16317 | Mark RISON | 91.11 | 9.3.1.23 | "A similar ordering is followed for 106-tone RU, 242-tone RU and 484-tone RU." is a cop-out | Need to specify fully, including any values not used (e.g. "The value 53 indicates 106-tone RU1 [-122:-17], the value 54 indicates 106-tone RU2 [17:122], and the values 55-60 are not used."). Ditto at line 22 | Revised  Agree with the comment. The spec should clearly call the possible combinations. Replaced Table 9-31g with a new table which lists the various permutations for RU allocation.  **TGax editor please make changes as shown in doc 11-18-2043r1 with the tag 16317** |
| 15950 | Mark RISON | 101.24 | 9.3.1.23 | "The encoding of B19-B13 of the RU Allocation subfield" -- no, it's the encoding of those bits of the User Info field | Change the heading for Table 9-25h to "The encoding of B7-B1 of the RU Allocation subfield" | Revised  Agree with the comment. The title of the (new) table reflects the change asked by the comment.  **TGax editor please make changes as shown in doc 11-18-2043r1 with the tag 15950** |

[16317]



[16317, 15950]**Table 9-31g – The encoding of B7–B1 of the RU Allocation subfield**

|  |  |  |  |
| --- | --- | --- | --- |
| **Value** | **UL BW subfield indicates** | **RU tone size** | **Description** |
| 0 – 8 | 20 MHz/40 MHz/80 MHz /80+80 or 160 MHz | 26-tone | RU1 to RU9 |
| 9 – 17 | 40 MHz/80 MHz/80+80 or 160 MHz | RU10 to RU18 |
| 18 – 36 | 80 MHz/80+80 or 160 MHz | RU19 to RU37 |
| 37 – 40 | 20 MHz/40 MHz/80 MHz/ 80+80 or 160 MHz | 52-tone | RU1 to RU4 |
| 41 – 44 | 40 MHz/80 MHz/ 80+80 or 160 MHz | RU5 to RU8 |
| 45 – 52 | 80 MHz/80+80 or 160 MHz | RU9 to RU16 |
| 53 – 54 | 20 MHz/40 MHz/80 MHz/80+80 or 160 MHz | 106-tone | RU1 to RU2 |
| 55 – 56 | 40 MHz/80  MHz/80+80 or 160 MHz | RU3 to RU4 |
| 57– 60 | 80 MHz/80+80 or 160 MHz | RU5 to RU8 |
| 61 | 20 MHz/40 MHz/80 MHz/80+80 or 160 MHz | 242-tone | RU1 |
| 62 | 40 MHz/80 MHz/80+80 or 160 MHz | RU2 |
| 63 – 64 | 80 MHz/80+80 or 160 MHz | RU3 to RU4 |
| 65 | 40 MHz/80 MHz/80+80 or 160 MHz | 484-tone | RU1 |
| 66 | 80 MHz/80+80 or 160 MHz | RU2 |
| 67 | 80 MHz/80+80 or 160 MHz | 996-tone | RU1 |
| 68 | 80+80 or 160 MHz | 2x996-tone | Value 68 denotes RU1, consists of two 996-tone RUs, each located at each half of the PPDU bandwidth |
| Otherwise | | | Reserved |
| NOTE 1—These values are in binary form in PHY (for example, see Table 28-24 (RU Allocation subfield))  NOTE 2—When UL BW subfield indicates 80+80 or 160MHz, the description indicates the RU index for the corresponding 80MHz segment as indicated by B0 of the RU Allocation subfield. | | | |

[16317]The RU Allocation subfield along with the UL BW subfield identifies the size and the location of the RU. For a 20 MHz, 40 MHz and 80 MHz PPDU, bit B0 of the RU Allocation subfield is set to 0. For an 80+80 MHz and 160 MHz PPDU, B0 of this subfield is set to 0 to indicate that the RU 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.(#11915, #Ed) [16317, 15950]The mapping of the remaining 7 bits of this subfield, B7-B1, (#12992)to the RU allocation is defined in Table 9-31g (The encoding of B7–B1 of the RU Allocation subfield).

* For a 20 MHz PPDU, the mapping of B7-B1 of the RU Allocation subfield follows the RU index in Table 28-6 (Data and pilot subcarrier indices for RUs in a 20 MHz HE PPDU) in increasing order.
* [16317]For a 40 MHz PPDU, the mapping of B7-B1 of the RU Allocation subfield follows the RU index in Table 28-7 (Data and pilot subcarrier indices for RUs in a 40 MHz HE PPDU) in increasing order.
* [16317]For an 80 MHz, 160 MHz and 80+80 MHz PPDU, the mapping of B7-B1 of the RU Allocation subfield follows the RU index in Table 28-8 (Data and pilot subcarrier indices for RUs in an 80 MHz HE PPDU) in increasing order.
* [16317]For a 160 MHz and 80+80 MHz PPDU, B7-B1 is set to 68(#12223) and B0 is set to 1 to indicate a 2996-tone-tone RU(#12165). A non-AP STA ignores B0 for 2996-tone RU indication.(#12376)