IEEE P802.11  
Wireless LANs

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| Resolutions for Remaining CIDs on DRUs | | | | |
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Abstract

This submission proposes resolutions for following CIDs for IEEE 802.11 cc50:

1330, 2553, 2255, 2256.

**Revisions:**

* Rev 0: Initial version of the document.

**TGbe editor: The baseline for this document is 11bn D0.3.**

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| **CID** | **Clause** | **Pg/Ln** | **Comment** | **Proposed Change** | **Resolution** |
| 1330 | 38.3.2.1 | 103.27 | the expression of " kDRUi" and "kDRUj" is a little bit confuse,suggest to make change to make this clear | change "k\_DRU\_i" and "k\_DRU\_j" to "k\_DRU\_i" and "k\_DRU\_j", change DRU1, DRU2, DUR3,... to DRU\_1, DRU\_2, DRU\_3,... in Table 38-4, Table 38-5, Table 38-6. | **Revised.**  Agree with the commentor to change the DRU with index to DRU with sub-index for consistency to equation (38-1).  TGbn editor: Please change DRUi to (for example, change DRU3 to ) in Table 38-6, Table 38-7, Table 38-8, and Table 38-9 in D3.0. |

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| **CID** | **Clause** | **Pg/Ln** | **Comment** | **Proposed Change** | **Resolution** |
| 2553 | 38.3.2 | 99.40 | Suggest to add a description of tone plan for RRU with reference to the corresponding EHT subclause. | as in the comment | **Revised.**  The change in D0.3 with a new subclause 38.3.2.1 (Tone plan for RUs and MRUs) resolves the comments.  No further change is needed. |

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| **CID** | **Clause** | **Pg/Ln** | **Comment** | **Proposed Change** | **Resolution** |
| 2255 | 38.3.2.2.3 | 107.48 | "For DRUs corresponding to DBW 20MHz and 40MHz in the first 80MHz frequency subblock of a 320MHz UHR TB PPDU, the null subcarrier indices for a DRU size corresponding to a DBW on frequency subblock i are [-1547:-1525, -1035:-1025] and the null subcarrier indices for the same DRU size corresponding to the  same DBW on frequency subblock i in a 80MHz UHR TB PPDU minus 1536, in which, i [1, 2, 3, 4] for a 20MHz frequency subblock and i [1, 2] for a 40MHz frequency subblock."  [-1547:-1525, -1035:-1025] should not be included in null tone indices since they are not included in any 20/40 MHz subchannels." | As in comment | Revised.  For DBW 20 MHz and 40 MHz in the first 80 MHz subband, the shift is [-1916 -1669 -1404 -1157] for 20 MHz subchannels, and [ -1792 -1280] for 40 MHz subchannels in 320 MHz TB PPDU using DRU.  For DBW 20, the occupied tones are from [-120:-2 2:120], with each constant shift, -1547:-1525 and -1035:-1025 are outside the DBW, the null tones for DRU 26/52/106 cover only -1547 and -1035,  For DBW 40, the occupied tones are from [-244:-3 3:244], with each constant shift, -1547:-1525 and -1035:-1025 are outside the DBW, the null tones for DRU26/52/106 do not have any tones in -1547:-1525 and -1035:-1025.  TGbn editor: Please make the changes according to “Text modification for CIDs 2255 and 2256: D0.3 (Page/Line) P202/L41 to P203/L44” in doc IEEE 802.11-25/1194r0. |

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| **CID** | **Clause** | **Pg/Ln** | **Comment** | **Proposed Change** | **Resolution** |
| 2256 | 38.3.2.2.3 | 107.54 | For DRUs corresponding to DBW 80MHz in the first 80MHz frequency subblock of a 320MHz UHR TB PPDU, the null subcarrier indices for a DRU size are [-1547:-1525, -1035:-1025] and the null subcarrier indices for the same DRU size corresponding to DBW 80MHz in an 80MHz UHR TB PPDU minus 1536 [-1035:-1025] should not included in null subcarrier for the DRU spread over the first 80 MHz frequency subblock since those tones are outside in the first 80 MHz frequency subblock. Same comments apply to the following paragraphs for 2nd, 3rd and 4th 80 MHz frequency subblock, do not include the tones outside the frequency subblock as null subcarriers. | As in comment | Revised.  For 320 MHz TB PPDU using DRU, the shift for each 80 MHz subband is [-1536 -512 512 1536]. If DBW is 80 MHz, the occupied tones are from [-499: -16 17:500], for the first 80 MHz subchannel, -1035:-1025 are outside the DBW for all the DRUs, so it should not count as Null tones. The null tones are [-11:11]-1536 = -1547:-1525 (which apply to all DRUs within DBW80) and the null subcarrier indices for the same DRU size corresponding to 80 MHz DBW.  TGbn editor: Please make the changes according to “Text modification for CIDs 2255 and 2256: D0.3 (Page/Line) P202/L41 to P203/L44” in doc IEEE 802.11-25/1194r0. |

**Text modification for CIDs 2255 and 2256:**

For DRUs corresponding to DBW 20 MHz and 40 MHz in the first 80 MHz frequency subblock of a 160

MHz UHR TB PPDU, the null subcarrier indices for a DRU size corresponding to a DBW on frequency

subblock i are ~~[–523:–501] and~~ the null subcarrier indices for the same DRU size corresponding to the same

DBW on frequency subblock i in a 80 MHz UHR TB PPDU minus 512(#3519), in which, i ∈ [1, 2, 3, 4] for

a 20 MHz frequency subblock and i ∈ [1, 2] for a 40 MHz frequency subblock. For DRUs corresponding to

DBW 80 MHz in the first 80 MHz frequency subblock of a 160 MHz UHR TB PPDU, the null subcarrier

indices for a DRU size are [–523:–501] and the null subcarrier indices for the same DRU size corresponding

to DBW 80 MHz in an 80 MHz UHR TB PPDU minus 512.

For DRUs corresponding to DBW 20 MHz and 40 MHz in the second 80 MHz frequency subblock of a 160

MHz UHR TB PPDU, the null subcarrier indices for a DRU size corresponding to a DBW on frequency

subblock i are ~~[501:523]~~ the null subcarrier indices for the same DRU size corresponding to the same

DBW on frequency subblock i-N/2 in a 80 MHz UHR TB PPDU plus 512, in which, i ∈ [5, 6, 7, 8] for a 20

MHz frequency subblock, i ∈ [3, 4] for a 40 MHz frequency subblock, and N = max(i). For DRUs

corresponding to DBW 80 MHz in the second 80 MHz frequency subblock of a 160 MHz UHR TB PPDU,

the null subcarrier indices for a DRU size are [501:523] and the null subcarrier indices for the same DRU

size corresponding to DBW 80 MHz in an 80 MHz UHR TB PPDU plus 512.

*For DRUs corresponding to DBW 20 MHz and 40 MHz in the first 80 MHz frequency subblock of a 320*

*MHz UHR TB PPDU, the null subcarrier indices for a DRU size corresponding to a DBW on frequency*

subblock i are ~~[–1547:–1525, –1035:–1025] and~~ the null subcarrier indices for the same DRU size

corresponding to the same DBW on frequency subblock i in a 80 MHz UHR TB PPDU minus 1536, in

which, i ∈ [1, 2, 3, 4] for a 20 MHz frequency subblock and i ∈ [1, 2] for a 40 MHz frequency subblock.

For DRUs corresponding to DBW 80 MHz in the first 80 MHz frequency subblock of a 320 MHz UHR TB

PPDU, the null subcarrier indices for a DRU size are [–1547:–1525~~, –1035:–1025~~] and the null subcarrier

indices for the same DRU size corresponding to DBW 80 MHz in an 80 MHz UHR TB PPDU minus 1536.

For DRUs corresponding to DBW 20 MHz and 40 MHz in the second 80 MHz frequency subblock of a 320

MHz UHR TB PPDU, the null subcarrier indices for a DRU size corresponding to a DBW on frequency

subblock i are ~~[–1024:–1013, –523:–501] and~~ the null subcarrier indices for the same DRU size

corresponding to the same DBW on frequency subblock i-N/2 in a 80 MHz UHR TB PPDU minus 512, in

which, i ∈ [5, 6, 7, 8] for a 20 MHz frequency subblock, i ∈ [3, 4] for a 40 MHz frequency subblock, and N

= max(i). For DRUs corresponding to DBW 80 MHz in the second 80 MHz frequency subblock of a 320

MHz UHR TB PPDU, the null subcarrier indices for a DRU size are [~~–1024:–1013,~~ –523:–501] and the null

subcarrier indices for the same DRU size corresponding to DBW 80 MHz in an 80 MHz UHR TB PPDU

minus 512.

For DRUs corresponding to DBW 20 MHz and 40 MHz in the third 80 MHz frequency subblock of a 320

MHz UHR TB PPDU, the null subcarrier indices for a DRU size corresponding to a DBW on frequency

subblock i are ~~[501:523, 1013:1023] and~~ the null subcarrier indices for the same DRU size corresponding to

the same DBW on frequency subblock i-2/3´N in a 80 MHz UHR TB PPDU plus 512, in which, i ∈ [9, 10,

11, 12] for a 20 MHz frequency subblock, i ∈ [5, 6] for a 40 MHz frequency subblock, and N = max(i). For

DRUs corresponding to DBW 80 MHz in the third 80 MHz frequency subblock of a 320 MHz UHR TB

PPDU, the null subcarrier indices for a DRU size are [501:523~~, 1013:1023~~] and the null subcarrier indices

for the same DRU size corresponding to DBW 80 MHz in an 80 MHz UHR TB PPDU plus 512.

For DRUs corresponding to DBW 20 MHz and 40 MHz in the fourth 80 MHz frequency subblock of a 320

MHz UHR TB PPDU, the null subcarrier indices for a DRU size corresponding to a DBW on frequency

subblock i are ~~[1024:1035, 1525:1547] and~~ the null subcarrier indices for the same DRU size corresponding

to the same DBW on frequency subblock i-3/4´N in a 80 MHz UHR TB PPDU plus 1536, in which, i ∈ [13,

14, 15, 16] for a 20 MHz frequency subblock and i ∈ [7, 8] for a 40 MHz frequency subblock, and N =

max(i). For DRUs corresponding to DBW 80 MHz in the fourth 80 MHz frequency subblock of a 320 MHz

UHR TB PPDU, the null subcarrier indices for a DRU size are [~~1024:1035,~~ 1525:1547] and the null

subcarrier indices for the same DRU size corresponding to DBW 80 MHz in an 80 MHz UHR TB PPDU

plus 1536.