IEEE P802.11
Wireless LANs

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| CC50 CR on DRU in 38.3.2.1 - Group 3 |
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Abstract

This submission proposes resolutions for 6 CIDs in subclause 38.3.2.1 in P802.11bn D0.3:

CIDs: 300, 443, 570, 927, 928, 2252

NOTE – Set the Track Changes Viewing Option in the MS Word to “All Markup” to clearly see the proposed text edits.

**Revision History:**

R0: Initial version

### CIDs: 300

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| **CID** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** | **Resolution** |
| 300 | 38.3.2.1 | 103.52 | "The relationship between DRU index i and PHY DRU index j can be found in Table 9-46m1". The notation "i" and "j" are not used in this table. Provided clearer directions on how to interpret the table. | See comment | **Revise**Agree with the comment. The equation and the text explaining the variables of the equation are both edited to make it accurate and easily readable. TGbn editor: please incorporate changes shown in 11-25/1138r0 below under the tag (#300)  |
| 443 | 38.3.2.1 | 100.01 | "A UHR UL TB PPDU using OFDMA transmission may carry a mixture of 26-, 52-, 106-, 242-, and 484-tone DRUs." This sentence is not correct if the PPDU bandwidth is 20 MHz since DRU sizes of 242-tone and 484-tone are not supported for DBW = 20 MHz. This sentence is not correct if the PPDU bandwidth is 40 MHz since DRU size of 484-tone is not supported for DBW = 40 MHz. This sentence is not correct if the PPDU bandwidth is 80 MHz since DRU size of 26-tone is not supported for DBW = 80 MHz and may not be supported for DBW = 60 MHz. | Change this sentence to " A UHR UL TB PPDU of a bandwidth 20 MHz using OFMDA transmission may carry a mixture of 26-, 52, 106-tone DRUs. A UHR UL TB PPDU of a bandwidth 40 MHz using OFMDA transmission may carry a mixture of 26-, 52-, 106-, 242- tone DRUs. A UHR UL TB PPDU of a bandwidth equal to or greater than 80 MHz using OFMDA transmission may carry a mixture of 26-, 52, 106-, 242-, 484-tone DRUs according to the puncturing pattern and the distribution bandwidth mode." | **Revise**The sentence is already edited in D0.3 and the new text satisfy the required changes suggested by the commenter TGbn editor: No further changes are required |
| 570 | 38.3.2.1 | 103.31 | Add the DBW60 case into equation 38-1. | See the comment. | **Revise**The DBW60 case is added to equation 38-1 in D0.3.TGbn editor: No further changes are required  |
| 927 | 38.3.2.1 | 102.05 | Some tables for DRU data and pilot subcarriers tables are using smaller RU indices while some uses absolute indices. Make it consistent. | As in comment | **Reject**The comment is withdrawn by the commenter.  |
| 928 | 38.3.2.1 | 104.54 | Define hybrid RRUs and DRUs | As in comment | **Revise**Agree with the comment in general. A better way to address this concern is to refer to description of the hybrid mode given in subclause (38.3.4 Transmission of DRU) and change “hybrid RRU and DRU” to “hybrid mode”TGbn editor: please incorporate changes shown in 11-25/1138r0 below under the tag (#928) |
| 2252 | 38.3.2.1 | 103.43 | "K\_DRU\_j is the DRU subcarrier indices of PHY DRU index j on the l-th frequency subblock". There is no dependency on l from K\_DRU\_j, how do you differentiate different l values? PHY DRU index j is a function of l. Please use an appropriate variable to show the dependency on l. | As in comment | **Revise**The equation is modified to reflect the proposed changeTGbn editor: please incorporate changes shown in 11-25/1138r0 below under the tag (#2252) |

***TGbn editor: please make the following change in subclause 38.3.2.2, P197L56 in 11bn D0.3***

 = (#300) (#2252)

 is a DRU subcarrier(#2805) index of DRUi (#300) from DRU tone plan in Table38-6 (Data and pilot subcarrier indices for distributed RUs (DRU) in a 20 MHz UHR TB PPDU), Table38-7 (Data and pilot subcarrier indices for distributed RUs (DRU) in a 40 MHz UHR TB PPDU), and Table38-8 (Data and pilot subcarrier indices for distributed RUs (DRU) in a 60 MHz UHR TB PPDU(#1123, #1124, #2260, #2264))(#1583), Table38-9 (Data and pilot subcarrier indices for distributed RUs (DRU) in an 80 MHz UHR TB PPDU with 80 MHz DBW(#2247)) for an DRU on distribution bandwidth 20 MHz, 40 MHz, 60MHz(#1583), and 80 MHz, respectively;(#1959)

 is a subcarrier index(#2805) of PHY DRUj (#300) on the *l-th* 20 MHz, 40 MHz, or 80 MHz frequency subblock;(#1120) the relationship between   and can be found in Table 9-46m1 (Encoding of the PS160 and RU Allocation subfields in an UHR variant User Info field for DBW 20MHz), Table 9-46m2 (Encoding of the PS160 and RU Allocation subfields in an UHR variant User Info field for DBW 40MHz) and Table 9-46m3 (Encoding of the PS160 and RU Allocation subfields in an UHR variant User Info field for DBW 80MHz); (#300)

 is the constant shift value for the *l-th* frequency subblock of a 20 MHz frequency subblock size within CBW80, CBW160 or CBW320, a 40 MHz frequency subblock size within CBW80, CBW160 or CBW320, or an 80 MHz frequency subblock size within CBW160 or CBW320, as defined in Table38-10 (Constant shift value Kshift for DRU on a frequency subblock of wide bandwidth);

 (#300)

 (#300)

***TGbn editor: please make the following change in subclause 38.3.2.2, P199L36 in 11bn D0.3***

### 38.3.2.2 Tone plan for DRUs

The 20 MHz UHR TB PPDU with one or more DRUs on DBW 20 MHz has 3 DC subcarriers located at [-1:1]. The 40 MHz UHR TB PPDU with one or more DRUs on DBW 40 MHz has 5 DC subcarriers located at [-2: 2]. The 80 MHz UHR TB PPDU with one or more DRUs on DBW 80 MHz has 23 DC subcarriers located at [-11: 11]. The 80 MHz TB PPDU with DRUs on DBW20 and/or DBW 40 has 23 DC subcarriers located at [-11: 11] The 160 MHz and 320 MHz UHR TB PPDU with the hybrid DRU/RRU mode (see 38.3.4 (Transmission of DRU) (#928)) have 23 DC subcarriers located at [-11: 11].

***TGbn editor: please make the following change in subclause 38.3.2.2, P199L51 in 11bn D0.3***

The 20 MHz UHR TB PPDU with DRUs on DBW 20 MHz has 11 guard subcarriers: the the 6 lowest frequency subcarriers [-128: -123] and the 5 highest frequency subcarriers [123: 127]. The 40 MHz UHR TB PPDU with DRUs on DBW 40 MHz has 23 guard subcarriers: the the 12 lowest frequency subcarriers [-256: -245] and the 11 highest frequency subcarriers [245: 255]. The 80 MHz UHR TB PPDU with DRUs on DBW 80 MHz has 23 guard subcarriers: the the 12 lowest frequency subcarriers [-512: -501] and the 11 highest frequency subcarriers [501: 511]. The 80 MHz TB PPDU with DRUs on DBW20 and/or DBW 40 has 23 guard subcarriers: the the 12 lowest frequency subcarriers [-512: -501] and the 11 highest frequency subcarriers [501: 511]. For the 160 MHz and 320 MHz UHR TB PPDU with the hybrid DRU/RRUmode (see 38.3.4 (Transmission of DRU)) (#928), the same number of lowest frequency and highest frequency guard subcarriers as 80 MHz are defined at each edge of the 160 MHz and 320 MHz.

***TGbn editor: please make the following change in subclause 38.3.2.2, P203L46 in 11bn D0.3***

For a 160MHz UHR TB PPDU and a 320MHz UHR TB PPDU with the hybrid DRU/RRU mode (see 38.3.4 (Transmission of DRU)) (#928), the indices of the null subcarriers are the same as the indices of the null subcarriers in the corresponding 80MHz frequency

subblock.

***TGbn editor: please make the following change in subclause 38.3.2.2, P293L57 in 11bn D0.3***

### 38.3.15.11.2 UHR-LTF for DRUs

In hybrid DRU/RRU mode transmission (see (38.3.4 Transmission of DRU)) (#928). the RRU LTF follows the exact same rule as if there is no DRU.