### IEEE P802.11 Wireless LANs

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| Comment Resolution for 9.3.1.22.6 | | | | |
| Date: 2025-04-08 | | | | |
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Abstract

This document contains comment resolutions for the following 72 CIDs related to subclause 9.3.1.22.6.

* 17, 18, 19, 20, 21, 115, 128, 129, 131, 370,
* 406, 408, 409, 468, 469, 470, 559, 560, 816, 817,
* 964, 1037, 1269, 1460, 1461, 1462, 1463, 1464, 1523, 1570,
* 1571, 1610, 1968, 2346, 2347, 2348, 2665, 2799, 2801, 2907,
* 2908, 2909, 2912, 2913, 2914, 2915, 2916, 2919, 2920, 2921,
* 2922, 2924, 2925, 2927, 2928, 2929, 2930, 2931, 3223, 3224,
* 3225, 3276, 3478, 3479, 3481, 3673, 3837, 3838, 3839, 3840,
* 2564, 2565.

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Removed CIDs 1200 & 3275, which were reassigned. Resolved CID 3225. Changed the resolution to CID 2348.

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the subsequent TGbn Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbn Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGbn Editor: Editing instructions preceded by “TGbn Editor” are instructions to the TGbn editor to modify existing material in the TGbn draft. As a result of adopting the changes, the TGbn editor will execute the instructions rather than copy them to the TGbn Draft.***

**Relevant passing motions:**

Motion #320

* Encoding of the PS160 and RU allocation subfields in a UHR variant User Info field for DBW60 is defined as follows:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| PS160 subfield | B0 of the RU Allocation subfield | B7-B1 of the RU Allocation subfield | Bandwidth (MHz) | DRU Size | DRU index | 80MHz frequency subblock index (l) | PHY DRU index |
| 0-3: 80 MHz frequency subblock where the DRU is located | | 0-36 | Reserved | Reserved | Reserved | Reserved | Reserved |
| 37-48 | 80, 160, or 320 | 52 | DRU1 to DRU12 | *N* | 16x*N* + DRU index |
| 49-52 | Reserved | Reserved | Reserved | Reserved | Reserved |
| 53-58 | 80, 160, or 320 | 106 | DRU1 to DRU6 | *N* | 8x*N* + DRU index |
| 59-60 | Reserved | Reserved | Reserved | Reserved | Reserved |
| 61-63 | 80, 160, or 320 | 242 | DRU1 to DRU3 | *N* | 4x*N* + DRU index |
| 64-127 | Reserved | Reserved | Reserved | Reserved | Reserved |

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| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 17 | Jialing Li (Alice Chen) | 9.3.1.22.6 | 47.36 | Change "except the NFRP Trigger frame and the MU-RTS TXS Trigger frame" to "except the NFRP Trigger frame, MU-RTS TXS Trigger frame, and individually addressed BSRP Trigger Frame with the GI And HE/UHR-LTF Type subfield set to 3". | Refer to the comment. | Revised –  Agree to the comment but use the new name of “BSRP NTB Trigger frame” for the “individually addressed BSRP Trigger Frame with the GI And HE/UHR-LTF Type subfield set to 3”.  TGbn editor to make changes shown in 11-25/0635r1 under all headings that include CID 17. |
| 18 | Jialing Li (Alice Chen) | 9.3.1.22.6 | 48.06 | Correct the title of Table 9-46l by replacing "UHR" with "EHT". | Refer to the comment. | Accepted |
| 19 | Jialing Li (Alice Chen) | 9.3.1.22.6 | 50.18 | Remove "+0". Same comment to P50L32, P50L44, P51L18, P51L26, and P51L38. | Refer to the comment. | Accepted |
| 20 | Jialing Li (Alice Chen) | 9.3.1.22.6 | 51.14 | In the title of the 6th column of Table 9-46m2, change "Table 38-4" to "Table 38-5" as in 11-24/2133r4 PDT Joint Trigger Frame. | Refer to the comment. | Accepted |
| 21 | Jialing Li (Alice Chen) | 9.3.1.22.6 | 52.09 | In Table 9-46m3, the first row should be underlined. In the title of the 6th column of Table 9-46m3, change "Table 38-4" to "Table 38-6" as in 11-24/2133r4 PDT Joint Trigger Frame. | Refer to the comment. | Revised –  Agree there is inconsistency of underlined text and text not underlined. The contents in 9.3.1.22.6 should not be underlined since this is a new subclause.  TGbn editor to remove underlining in 9.3.1.22.6. |
| 115 | Ke Zhong | 9.3.1.22.6 | 48.06 | "Allo-cation" in "RU Allo-cation subfields" is a typo. | Replace "RU Allo-cation subfields" with "RU Allocation subfields" to fix the typo. | Accepted.  Note that it has already been fixed in D0.2.  TGbn editor to make no change. |
| 128 | Ke Zhong | 9.3.1.22.6 | 49.14 | "sub-fields" is not aligned with other expression "subfields" in this paragraph. | Replace "sub-fields" with "subfields" to align the expression in this paragraph. | Accepted  Note that it has already been fixed in D0.2.  TGbn editor to make no change. |
| 129 | Ke Zhong | 9.3.1.22.6 | 49.21 | "sub-block " is not aligned with other expression "subblock" in this paragraph. | Replace "sub-block" with "subblock" to align the expression in this paragraph. | Accepted  Note that it has already been fixed in D0.2.  TGbn editor to make no change. |
| 131 | Ke Zhong | 9.3.1.22.6 | 54.09 | "Allo-cation" in "RU Allo-cation subfields" is a typo. | Replace "RU Allo-cation subfields" with "RU Allocation subfields" to fix the typo. | Revised –  The typo in this location should be “Alloca-tion”, different from the comment.  TGbn editor to make changes shown in 11-25/0635r1 under all headings that include CID 131. |
| 370 | Jiyang Bai | 9.3.1.22.6 | 48.06 | In statement "(Encoding of the PS160 and RU Allo-cation ...)" where "Allo-cation" should be replaced as "Allocation" | As in comment. | Accepted.  Note that it has already been fixed in D0.2.  TGbn editor to make no change. |
| 406 | Shuang Fan | 9.3.1.22.6 | 47.52 | Replace 'an UHR' with 'a UHR' through all the draft | as in comment | Accepted.  Note that it has already been fixed in D0.2.  TGbn editor to make no change. |
| 408 | Shuang Fan | 9.3.1.22.6 | 49.08 | add the definitions for DBW in clause 3, or replace the DBW with Distribution BW in this clause | as in comment | Revised –  Added an abbreviation in 3.4.  TGbn editor to make changes shown in 11-25/0635r1 under all headings that include CID 408. |
| 409 | Shuang Fan | 9.3.1.22.6 | 54.06 | Change 'Alloca-tion' to Allocation | as in comment | Accepted |
| 468 | Peshal Nayak | 9.3.1.22.6 | 47.56 | an UHR variant User Info field should be 'a' UHR variant User Info field | Correct the article in other relevant locations as well. | Accepted.  Note that it has already been fixed in D0.2.  TGbn editor to make no change. |
| 469 | Peshal Nayak | 9.3.1.22.6 | 48.20 | Indicate instead of indicates | Correct to - the values of PS160 subfield indicate... | Rejected –  Agree that the sentence has a grammar mistake, but the resolution is to change “values” to “value”. So, no need to change “indicates” to “indicate”. |
| 470 | Peshal Nayak | 9.3.1.22.6 | 52.64 | "are set to all 1s" should be "is set to all 1s" | Correct to - is set to all 1s | Rejected –  The sentence is “… bits. … are set to all 1s”. |
| 559 | Eunsung Park | 9.3.1.22.6 | 52.36 | Add a table for "Encoding of the PS160 and RU Allocation subfields in an UHR variant User Info field for DBW 60 MHz". | See the comment. | Revised –  Agree. Added the table based on Motion #320. Also referred to Table 38-5a (Data and pilot subcarrier indices for Distributed-tone RUs (DRU) in a 60 MHz DBW) for the tone plan. Note that Table 38-5a is in 11-25/612.  TGbn editor to make changes shown in 11-25/0635r1 under all headings that include CID 559. |
| 560 | Eunsung Park | 9.3.1.22.6 | 54.09 | Delete "-" in "Alloca-tion". | See the comment. | Accepted |
| 816 | Oren Kedem | 9.3.1.22.5 | 47.45 | What does Kshift stand for ? | Please provide a reference | Rejected –  The spec text here refers to a frequency shift and then refer to Table 38-7. Kshift is part of the name of Table 38-7. No need to further provide a reference for Kshifr. |
| 817 | Oren Kedem | 9.3.1.22.5 | 47.53 | Does there are limitation which DBW can be assigned to 20MHz STA ? | Please clarify | Rejected –  Clause 9 is about frame format not about behaviour. Refer to 38.3.3 (RU and MRU restrictions for 20 MHz operation) for behaviour. |
| 964 | Mahmoud Kamel | 9.3.1.22.6 | 47.56 | The sentence "The RU Allocation subfield in an UHR variant User Info field in a Trigger frame that is not an MU-RTS Trigger frame, along with the UL BW subfield in the Common Info field, the UL BW Extension subfield in the Special User Info field, and the PS160 subfield in the UHR variant User Info field, identifies the size and location of an RU or MRU." is not correct if the trigger frame is transmitted on an NPCA PCH. | Change to "The RU Allocation subfield in an UHR variant User Info field in a Trigger frame that is not an MU-RTS Trigger frame, along with the UL BW subfield in the Common Info field, the UL BW Extension subfield in the Special User Info field, the PS160 subfield in the UHR variant User Info field, the distribution bandwidth mode and whether the trigger frame is transmitted on the BSS primary channel or the NPCA primary channel, identifies the size and location of an RU, MRU or DRU." OR Change to  "The size and location of an RU, MRU or DRU is identified based on the following:  - The RU Allocation subfield in an UHR variant User Info field in a Trigger frame that is not an MU-RTS Trigger frame. - The UL BW subfield in the Common Info field. - The UL BW Extension subfield in the Special User Info field. - The PS160 subfield in the UHR variant User Info field. - The distribution bandwidth mode - Whether the trigger frame is transmitted on the BSS primary channel or the NPCA primary channel." | Revised –  Agree to the comment in general that the sentence needs to be revised. Note that the NPCA Primary Channel Indication field is defined in 11-25/0634r1.  TGbn editor to make changes shown in 11-25/0635r1 under all headings that include CID 964. |
| 1037 | Matthew Fischer | 9.3.1.22.6 | 47.26 | The editorial markings are incorrect. The new 9.3.1.22.6 is shown as an insertion, yet the text for this entire new subclause is shown as underlined - it should not be underlined. And the new 9.3.1.22.7 is shown as not underlined, which is correct. However, the editing instruction that precedes both the new 9.3.1.22.6 and the new 9.3.1.22.7 indicates the insertion of only one new subclause - it needs to note that two new subclauses are being inserted. | Modify the editing instruction that immediately precedes the new 9.3.1.22.6 subclause to indicate that two new subclauses are being added instead of one and remove the underlining of all text in the new 9.3.1.22.6, also, because you have an editing instruction that says to insert the two new subclauses, you no longer need the editing instruction that immediately follows the new 9.3.1.22.6 header. | Revised –  Agree that the contents in 9.3.1.22.6 should not be underlined. Another instruction is added to add a new child clause in 11-25/0636r3. So, no need to revise the instruction here.  TGbn editor to remove underlining in 9.3.1.22.6. |
| 1269 | Hong Won Lee | 9.3.1.22.6 | 47.29 | UHR Special User Info field subclause should be added to apply Motion 261 | As in the comment | Revised –  Agree that the Feedback User Info field (for the user info field with AID12 value of 2008) needs to be added to the Trigger frame subclause. But it doesn’t belong to the UHR variant User Info field subclause. It is in a separate subclause 9.3.1.22.6a. PDT on details of the subclause is under preparation.  TGbn editor to make no change. |
| 1460 | Akira Kishida | 9.3.1.22.6 UHR variant User Info field | 47.52 | "an UHR" -> "a UHR" | "a UHR" should be correct. (Or please clarify which expression is correct, "a UHR" and "an UHR") | Accepted.  Note that it has already been fixed in D0.2.  TGbn editor to make no change. |
| 1461 | Akira Kishida | 9.3.1.22.6 UHR variant User Info field | 49.08 | "an UHR" -> "a UHR" | "a UHR" should be correct. (Or please clarify which expression is correct, "a UHR" and "an UHR") | Accepted.  Note that it has already been fixed in D0.2.  TGbn editor to make no change. |
| 1462 | Akira Kishida | 9.3.1.22.6 UHR variant User Info field | 50.04 | "an UHR" -> "a UHR" | "a UHR" should be correct. (Or please clarify which expression is correct, "a UHR" and "an UHR") | Accepted.  Note that it has already been fixed in D0.2.  TGbn editor to make no change. |
| 1463 | Akira Kishida | 9.3.1.22.6 UHR variant User Info field | 51.04 | "an UHR" -> "a UHR" | "a UHR" should be correct. (Or please clarify which expression is correct, "a UHR" and "an UHR") | Accepted.  Note that it has already been fixed in D0.2.  TGbn editor to make no change. |
| 1464 | Akira Kishida | 9.3.1.22.6 UHR variant User Info field | 52.04 | "an UHR" -> "a UHR" | "a UHR" should be correct. (Or please clarify which expression is correct, "a UHR" and "an UHR") | Accepted.  Note that it has already been fixed in D0.2.  TGbn editor to make no change. |
| 1523 | Xiandong Dong | 9.3.1.22.6 | 52.49 | need to clarify whether a UHR non-AP STA supports 2X LDPC or not. | as in comment | Rejected –  A general rule, which is usually not stated in the spec, is the signaling should be compliant with the STA’s capability. It is wordy to add “if the STA supports …” in all signaling fields. |
| 1570 | Jinsoo Choi | 9.3.1.22.6 | 49.06 | The decription for encoding of the PS160 and RU Allocation subfields for DBW 60MHz is missing. We can design it as inherited from DBW 80MHz. | Need to add the text and related table for the encoding of the PS160 and RU Allocation subfields for DBW 60MHz case. | Revised –  Agree to the comment in general that need to add the description. Added the table based on Motion #320. Also referred to Table 38-5a (Data and pilot subcarrier indices for Distributed-tone RUs (DRU) in a 60 MHz DBW) for the tone plan. Note that Table 38-5a is in 11-25/612.  TGbn editor to make changes shown in 11-25/0635r1 under all headings that include CID 1570. |
| 1571 | Jinsoo Choi | 9.3.1.22.6 | 49.35 | The decription for mapping of the PHY DRU index to DRU for DBW 60MHz is missing. We can design it as inherited from DBW 80MHz. | Need to add the text and related table for the mapping of the PHY DRU index to DRU for DBW 60MHz case. | Revised –  Agree to the comment in general that need to add the description. Referred to Table 38-5a (Data and pilot subcarrier indices for Distributed-tone RUs (DRU) in a 60 MHz DBW) for the tone plan. Note that Table 38-5a is in 11-25/612.  TGbn editor to make changes shown in 11-25/0635r1 under all headings that include CID 1571. |
| 1610 | Jian Yu | 9.3.1.22.6 | 47.42 | Redefine the name SS Allocation to reflect the DBW indication function | as in comment | Revised –  Agree to the comment. Changed it to “SS Allocation/SS Allocation And DBW”.  TGbn editor to make changes shown in 11-25/0635r1 under all headings that include CID 1610. |
| 1968 | Michael Grigat | 9.3.1.22.6 | 50.52 | "57-58" and "59-60" | "57, 58" and 59, 60" respectively | Accepted |
| 2346 | Yan Zhang | 9.3.1.22.6 | 48.16 | "52+26-tone RU, and 106+26-tone RU" should be "52+26-tone MRU, and 106+26-tone MRU". Please correct it. | As in comment | Accepted |
| 2347 | Yan Zhang | 9.3.1.22.6 | 49.13 | "where the bandwidth is obtained from the combination of the UL BW subfield and UL Bandwidth Extension sub-fields as defined 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)" This is wrong. "bandwidth is is obtained from the combination of the UL BW subfield and UL Bandwidth Extension subfields as defined in Table 9-46l (Encoding of the PS160 and RU Allocation subfields in an EHT variant User Info field). Please correct it. | As in comment | Revised –  Agree to the comment. There might be a copy and paste error in the sentence. Revised.  TGbn editor to make changes shown in 11-25/0635r1 under all headings that include CID 2347. |
| 2348 | Yan Zhang | 9.3.1.22.6 | 49.40 | "and Equation (38-1) through the frequency shift in Table 38-7 (Constant shift value Kshift for DRU on a frequency subblock of wide bandwidth)." is not needed. The tone shift only defines the exact tone indices location. But to know which tone shift to use, 20/40/80 subblock index is required. "PHY DRU index mapping to DRU index and 20MHz frequency subblock index" is sufficient to find the exact tone locations. Same comments apply to "If the bandwidth indicates 80 MHz, 160 MHz or 320 MHz and the DRU Distribution BW subfield indicates 40 MHz distribution bandwidth" and "If the bandwidth indicates 160 MHz or 320 MHz and the DRU Distribution BW subfield indicates 80 MHz distribution bandwidth,". | Change the sentences to "If the bandwidth indicates 80 MHz, 160 MHz or 320 MHz and the DRU Distribution BW subfield indicates 20 MHz distribution bandwidth, the mapping of the PHY DRU index to DRU index and 20 MHz frequency subblock index is defined in Table 9-46m1 (Encoding of the PS160 and RU Allocation subfields in an UHR variant User Info field for DBW 20MHz)", "If the bandwidth indicates 80 MHz, 160 MHz or 320 MHz and the DRU Distribution BW subfield indicates 40 MHz distribution bandwidth, the mapping of the PHY DRU index to DRU index and 40 MHz frequency subblock index is defined in Table 9-46m2 (Encoding of the PS160 and RU Allocation subfields in an UHR variant User Info field for DBW 40MHz)". "If the bandwidth indicates 160 MHz or 320 MHz and the DRU Distribution BW subfield indicates 80 MHz distribution bandwidth, the mapping of the PHY DRU index to DRU index and 80 MHz frequency subblock index is defined in Table 9-46m3 (Encoding of the PS160 and RU Allocation subfields in an UHR variant User Info field for DBW 80MHz)". | Revised –  Not entirely agree to the comment but acknowledge that revisions are needed in these sentences. Tables 9-46m1, 9-46m2, 9-46m2a, and 9-46m3 describe how to map the trigger frame signaling (including RU Allocation, PS160, etc.) to the PHY DRU index. Still need to refer to the tone plan table to find the mapping from the PHY DRU index to the DRU’s subcarrier indices. For 20MHz TB PPDUs with 20MHz DBW, 40MHz TB PPDUs with 40MHz DBW, 80MHz TB PPDUs with 60MHz or 80MHz DBW, can directly refer to the tone plan Tables 38-4, 38-5, 38-5a and 38-6. For 80MHz TB PPDUs with 20MHz or 40MHz DBW, 160MHz or 320MHz TB PPDUs with 20MHz, 40MHz, 60MHz or 80MHz DBW in an 80MHz frequency subblock, need to use equation (38-1) to derive the subcarrier indices for a given PHY DRU index.  TGbn editor to make changes shown in 11-25/0635r1 under all headings that include CID 2348. |
| 2665 | Xiaofei Wang | 9.3.1.22.6 | 54.10 | "-" should be removed | as in comment | Accepted |
| 2799 | RUI YANG | 9.3.1.22.6 | 40.36 | Remove "distribution bandwidth" | As in Comment | Rejected –  The encoding of the field uses “a distribution bandwidth of XMhz”. So, nothing wrong to say “distribution bandwidth” here. |
| 2801 | RUI YANG | 9.3.1.22.6 | 53.53 | Change "The DRU Distribution BW subfield indicates the distribution bandwidth of the assigned DRU and is encoded as follows" to "The DRU Distribution BW subfield indicates the bandwidth of the assigned DRU and is encoded as follows" | As in Comment | Rejected –  “Distribution bandwidth” is more suitable, since it is defined in 38.3.2.1 (Tone plan for DRUs). |
| 2907 | Mark RISON | 9.3.1.22.6 | 47.56 | "The RU Allocation subfield in an UHR variant User Info field in a Trigger frame that is not an MU-RTS Trigger frame, along with the UL BW subfield in the Common Info field, the UL BW Extension subfield in the Special User Info field, and the PS160 subfield in the UHR variant User Info field, identifies the size and location of an RU or MRU. " -- identifies it how? | As it says in the comment | Rejected –  The two big paragraphs (each with many bullets) following this paragraph explain how to identify them. |
| 2908 | Mark RISON | 9.3.1.22.6 | 47.62 | "If the RU Allocation of " missing "field". Also 52.60 | As it says in the comment | Revised –  Agree. Made the change to more locations.  TGbn editor to make changes shown in 11-25/0635r1 under all headings that include CID 2908. |
| 2909 | Mark RISON | 9.3.1.22.6 | 47.64 | "more than one 80 MHz frequency subblocks" should be "... subblock" | As it says in the comment | Revised –  Agree. Made the change to more locations.  TGbn editor to make changes shown in 11-25/0635r1 under all headings that include CID 2909. |
| 2912 | Mark RISON | 9.3.1.22.6 | 48.14 | "for 26-tone RU" missing article. Also line 22 | As it says in the comment | Revised –  Agree. Made the change to more locations.  TGbn editor to make changes shown in 11-25/0635r1 under all headings that include CID 2912. |
| 2913 | Mark RISON | 9.3.1.22.6 | 48.19 | "The values of PS160 subfield" should be "The value of the PS160 subfield" | As it says in the comment | Accepted |
| 2914 | Mark RISON | 9.3.1.22.6 | 48.22 | "the description of RU or MRU index" is not clear | As it says in the comment | Revised –  Agree. Removed “description of” for clarity.  TGbn editor to remove “description of”. |
| 2915 | Mark RISON | 9.3.1.22.6 | 48.27 | "the PHY RU index to RU" missing article (also other bullets) | As it says in the comment | Revised –  Agree. Made changes to all such cases.  TGbn editor to make changes shown in 11-25/0635r1 under all headings that include CID 2915. |
| 2916 | Mark RISON | 9.3.1.22.6 | 48.29 | " in increasing order" -- not clear what this means. Also other bullets. Also page 49 | As it says in the comment | Revised –  Agree that the phrase “in increasing order” doesn’t carry useful information. Removed it.  TGbn editor to make changes shown in 11-25/0635r1 under all headings that include CID 2916. |
| 2919 | Mark RISON | 9.3.1.22.6 | 49.09 | It is not clear what things like "DBW 20MHz" (firt appearance here) mean | As it says in the comment | Revised –  Agree. Defined DBW.  TGbn editor to change “DBW” to “distribution bandwidth (DBW)” in its first appearance here. |
| 2920 | Mark RISON | 9.3.1.22.6 | 50.23 | If the DRU index etc. are reserved then the bandwidth must be too. Ditto 51.20 | Change " 80, 160, or  320 " to "Reserved" | Rejected –  The first 4 columns in the table (including bandwidth) are inputs and the last 4 columns are outputs. The values in the last 4 columns are derived based on the combinations of the first 4 columns. Can’t make the bandwidth values reserved. |
| 2921 | Mark RISON | 9.3.1.22.6 | 51.32 | "DRU 4" should not have a space (for consistency). Ditto line 34 | As it says in the comment | Revised –  Agree. Made changes to more locations.  TGbn editor to make changes shown in 11-25/0635r1 under all headings that include CID 2921. |
| 2922 | Mark RISON | 9.3.1.22.6 | 49.18 | I can see N being used in the tables on page 50 etc. but not X1. Also 48.10 | As it says in the comment | Revised –  Agree that X1 is not used in the DRU cases. Deleted “X1 and” in the DRU cases. But X1 is used in the RRU and MRU cases.  TGbn editor to make changes shown in 11-25/0635r1 under all headings that include CID 2922. |
| 2924 | Mark RISON | 9.3.1.22.6 | 52.38 | "code type" -- undefined terminology | Call it "FEC coding" or whatever the canonical terminology is | Rejected –  “code type” was used in both 11ax and 11be spec to explain the UL FEC Coding Type field. |
| 2925 | Mark RISON | 9.3.1.22.6 | 52.57 | "B26 is reserved and set to 1." -- reserved means set to 0 so this doesn't work | Change to "B26 is set to 1 and ignored on reception" | Accepted |
| 2927 | Mark RISON | 9.3.1.22.6 | 53.20 | "with a maximum value of 7 for the Starting Spatial Stream subfield" -- it's a 3-bit field so this is duplication. Ditto " with a maximum value of 3" at line 27 | Delete the cited text | Rejected –  This is for clarity and necessary. For argument purpose, in general, in a 3-bit field, the maximum value may be less than 7, if certain entries are reserved (not used). |
| 2928 | Mark RISON | 9.3.1.22.6 | 53.19 | "indicates the starting spatial stream and is set to the starting spatial stream minus 1" is too verbose. Ditto line 26 and line 63 | Change to "is set to the starting spatial stream minus 1" | Rejected –  This is a typical sentence to define the meaning of a field and how to set/interpret the field value. |
| 2929 | Mark RISON | 9.3.1.22.6 | 53.36 | ", where B2-B3 are reserved and set to 0" -- duplicates figure | Delete the cited text | Revised –  Deleted “reserved and” which duplicates figure. Still keep how the values are set.  TGbn editor to delete “reserved and”. |
| 2930 | Mark RISON | 9.3.1.22.6 | 54.02 | "averaged over the antennas" -- do we have to specify averaged in the linear domain? | As it says in the comment | Rejected –  The phrase is necessary for the understanding of the field. |
| 2931 | Mark RISON | 9.3.1.22.6 | 54.05 | "If the size of RU or MRU is smaller than or equal to 2996-tones, then the PS160 subfield is set to 0 to indi-cate that the RU or MRU allocation applies to the primary 160 MHz channel and set to 1 to indicate that the RU or MRU allocation applies to the secondary 160MHz channel. Otherwise, the PS160 subfield is used to indicate the RU or MRU index along with the RU Alloca-tion subfield. The PS160 subfield is set as defined in Table 9-46l (Encoding of the PS160 and RU Allocation subfields in an EHT variant User Info field)." -- last sentence is confusing because appears to contradict first sentence | Change to "If the size of RU or MRU is smaller than or equal to 2996-tones, then the PS160 subfield is set to 0 to indi-cate that the RU or MRU allocation applies to the primary 160 MHz channel and set to 1 to indicate that the RU or MRU allocation applies to the secondary 160MHz channel. Otherwise, the PS160 subfield is used to indicate the RU or MRU index along with the RU Allocation subfield, as defined in Table 9-46l (Encoding of the PS160 and RU Allocation subfields in an EHT variant User Info field)." | Accepted |
| 3223 | Yusuke Asai | 9.3.1.22.6 | 47.34 | There is no need to apply underline when whole new subclause is inserted. | Delete underline in this subclause. | Accepted |
| 3224 | Yusuke Asai | 9.3.1.22.6 | 52.38 | "code type" -> "coding type" | As in comment. | Rejected –  “code type” was used in both 11ax and 11be spec to explain the UL FEC Coding Type field. |
| 3225 | Yusuke Asai | 9.3.1.22.6 | 53.22 | It is seemed that the subclause 38.1.1 may not be an appropriate subclause for detailed normative text. Ditto P53L27. | Please refer to the subclause that includes the normative text. | Revised –  Agree to the comment. Referred to 38.2.2 (TXVECTOR and RXVECTOR parameters) in three locations in this subclause. Note that the latest 38.2.2 is in 11-25/718.  TGbn editor to make changes shown in 11-25/0635r1 under all headings that include CID 3225. |
| 3276 | Hanqing Lou | 9.3.1.22.6 | 54.10 | "RU Alloca-tion" should be "RU Allocation" | See Comment | Accepted |
| 3478 | ron porat | 9.3.1.22.6 | 47.52 | typo | EHT --> UHR | Rejected –  Typo not found. |
| 3479 | ron porat | 9.3.1.22.6 | 47.56 | typo | EHT --> UHR | Rejected –  Typo not found. |
| 3480 | ron porat | 9.3.1.22.6 | 53.42 | must be a mistake | Figure 9-90j3, B0-B1 should be "Distribution BW" | Rejected –  Figure 9-90j3 has no such issue as described. |
| 3481 | ron porat | 9.3.1.22.6 | 54.10 | typo | Alloca-tion --> Allocation | Accepted |
| 3673 | Sherief Helwa | 9.3.1.22.6 | 47.29 | I can't see the details for the Special USer Info field using an AID12 value of 2008 to report CoEx unavailability information. Please refer to Motion 261.  Move to add to the TGbn SFD the following: Include the CoEx unavailability information in a new "Special User Info" field with AID12 set to 2008 of the BSRP Trigger frame when used as an ICF to report CoEx unavailability information A feedback type field (name TBD) (4 bits field - B12 to B15 of the "Special User Info" field) which is set to 0 to indicate that the "Special User Info" field is carrying CoEx unavailability information CoEx unavailability information includes two parameters: Unavailability Target Start Time and Unavailability Duration (these fields are already defined) | Explained in the comment | Revised –  Agree that the Feedback User Info field (for the user info field with AID12 value of 2008) needs to be added to the Trigger frame subclause. But it doesn’t belong to the UHR variant User Info field subclause. It is in a separate subclause 9.3.1.22.6a. PDT on details of the subclause is under preparation.  TGbn editor to make no change. |
| 3837 | Abhishek Patil | 9.3.1.22.6 | 47.53 | Update the description in this paragraph and in Table 9-46i to include AP ID when the trigger frame is an ICF for a MAPC operation. | As in comment |  |
| 3838 | Abhishek Patil | 9.3.1.22.6 | 47.57 | Is there a purpose for the RU Allocation field when the trigger is an ICF that solicits a non-TB response? Please clarify. | Mark RU Allocation field as Reserved or repurpose it to carry other information when the TF solicits a non-TB response. | Revised –  Added the BSRP NTB Trigger frame as one of the exceptions in the paragraph above Figure 9-90j1. Note that the UHR variant user info field format in Figure 9-90j1 is not applicable to trigger types that solicits a non-TB response.  TGbn editor to make changes shown in 11-25/0635r1 under all headings that include CID 3838. |
| 3839 | Abhishek Patil | 9.3.1.22.6 | 54.01 | Is there a purpose for the UL Target Receive Power subfield when the trigger is an ICF that solicits a non-TB response? Please clarify. | Clarify if this field provides any value; else, repurpose it to carry other information or mark it as reserved when solicited PPDU is non-TB. | Revised –  Added the BSRP NTB Trigger frame as one of the exceptions in the paragraph above Figure 9-90j1. Note that the UHR variant user info field format in Figure 9-90j1 is not applicable to trigger types that solicits a non-TB response.  TGbn editor to make changes shown in 11-25/0635r1 under all headings that include CID 3839. |
| 2564 | Yan Xin | 9.3..1.22.6 | 50.04 | In EHT, "80 MHz frequency subblock" has been defined. In Table 9-46m1, the usage of "20 MHz frequency subblock" cannot be well-distinguished from "80 MHz frequency subblock" shown in the same table. | Modify the definition of "20 MHz frequency subblock" to another one, e.g., "20 MHz frequency segment" |  |
| 2565 | Yan Xin | 9.3..1.22.6 | 51.04 | In EHT, "80 MHz frequency subblock" has been defined. In Table 9-46m2, the usage of "40 MHz frequency subblock" cannot be well-distinguished from "80 MHz frequency subblock" shown in the same table. | Modify the definition of "40 MHz frequency subblock" to another one, e.g., "40 Mhz frequency segment" |  |

***Insert a new child subclause of 9.3.1.22 as follows:***

* **UHR variant User Info field**

***TGbn editor to change the following contents including removing underlining [#17, 18, 19, 20, 21, 131, 408, 409, 559, 560, 964, 1037, 1570, 1571, 1610, 1968, 2346, 2347, 2348, 2665, 2908, 2909, 2912, 2913, 2914, 2915, 2916, 2919, 2921, 2922, 2925, 2931, 3223, 3225, 3276, 3481, 3838, 3839]:***

subfield of the User Info field indicates the UHR-MCS of the solicited UHR TB PPDU. The UL UHR-MCS subfield in the UHR variant User Info field format has 5 bits. The encoding of the UL UHR-MCS subfield is defined in 38.3.8 (UHR modulation and coding schemes (UHR-MCSs) and unequal modulation (UEQM)) and the value is set as defined in 37.x.x (UHR UL MU operation).***Insert the following paragraphs, figures, and tables:***

The UHR variant User Info field is defined in Figure9-90j1 (UHR variant User Info field format) for all Trigger frame variants except the NFRP Trigger frame, the MU-RTS TXS Trigger frame and the BSRP NTB Trigger frame*[#17, 3838, 3839]*.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | B0   B11 | B12    B19 | B20 | B21  B25 | B26 | B27          B31 | B32     B38 | B39 |  |
|  | AID12 | RU Allocation | UL FEC Coding Type | UL UHR-MCS | 2xLDPC | SS Allocation/SS Allocation And DBW*[#1610]* | UL Target Receive Power | PS160 | Trigger Dependent User Info |
| Bits: | 12 | 8 | 1 | 5 | 1 | 5 | 7 | 1 | variable |
| * **UHR variant User Info field format** | | | | | | | | | |

The AID12 subfield of a UHR variant User Info field is encoded as defined in Table 9-46i (AID12 subfield encoding) and has a value between 1 and 2006.

The RU Allocation subfield in a UHR variant User Info field in a Trigger frame that is not an MU-RTS Trigger frame, along with the UL BW subfield and DRU/RRU Indication subfield in the Common Info field, the UL BW Extension subfield and NPCA Primary Channel Indication subfield *[#964]*in the Special User Info field, and the PS160 subfield in the UHR variant User Info field, identifies the size and location of an RU or MRU.

If the RU Allocation subfield *[#2908]*of the User Info field indicates the assigned RU is located in an 80 MHz frequency subblock where the corresponding bit in the DRU/RRU Indication subfield in the UHR variant Common Info field is set to 1, or located in more than one 80 MHz frequency subblock*[#2909]* where the corresponding bits in the DRU/RRU Indication subfield in the UHR variant Common Info field are set to all 1s, the assigned RU is an RRU or an MRU.

* The mapping of B7-B1 of the RU Allocation subfield along with the settings of B0 of the RU Allocation subfield and the PS160 subfield in the UHR variant User Info field is defined in Table 9-46l (Encoding of the PS160 and RU Allocation subfields in a EHT*[#18]* variant User Info field), where the bandwidth is obtained from the combination of the UL BW subfield and UL Bandwidth Extension subfields*[#2347]*, and X1 and N are obtained from Table 9-46m (Lookup table for X1 and N). See 9.3.1.22.5 (EHT variant User Info field).
* The values of the PS160 subfield and B0 of the RU Allocation subfield indicate the 80 MHz frequency subblock in which the RU or MRU is located for each *[#2912]*26-tone RU, 52-tone RU, 106-tone RU, 242-tone RU, 484- tone RU, 996-tone RU, 52+26-tone MRU, and 106+26-tone M*[#2346]RU*. The 80 MHz frequency subblock is derived based on the corresponding PHY RU or MRU index column in Table 9-46l (Encoding of the PS160 and RU Allocation subfields in an EHT variant User Info field).
* The value*[#2913]* of PS160 subfield indicates the 160 MHz segment in which the RU or MRU is located for 2×996-tone RU, 996+484-tone MRU, and 996+484+242-tone MRU.
* For each *[#2912]*4×996-tone RU, 2×996+484-tone MRU, 3×996-tone MRU, and 3×996+484-tone MRU, the *[#2914]*RU or MRU index is the same as that of the PHY RU or MRU index for the 320 MHz channel.
* If the bandwidth indicates 20 MHz, the mapping of the PHY RU index to the *[#2915]*RU is defined in Table 27-8 (Data and pilot subcarrier indices for RUs in a 20 MHz HE PPDU and in a non-OFDMA 20 MHz HE PPDU)*[#2916]*.
* If the bandwidth indicates 40 MHz, the mapping of the PHY RU index to the *[#2915]*RU is defined in Table 27-9 (Data and pilot subcarrier indices for RUs in a 40 MHz HE PPDU and in a non-OFDMA 40 MHz HE PPDU)*[#2916]*.
* If the bandwidth indicates 80 MHz, the mapping of the PHY RU index to the *[#2915]*RU is defined in Table 36-5 (Data and pilot subcarrier indices for RUs in an 80 MHz EHT PPDU)*[#2916]*.
* If the bandwidth indicates 160 MHz, the mapping of the PHY RU index to the *[#2915]*RU is defined in Table 36-6 (Data and pilot subcarrier indices for RUs in a 160 MHz EHT PPDU)*[#2916]*.
* If the bandwidth indicates 320 MHz, the mapping of the PHY RU index to the *[#2915]*RU is defined in Table 36-7 (Data and pilot subcarrier indices for RUs in a 320 MHz EHT PPDU)*[#2916]*.
* If the bandwidth indicates 20 MHz, the mapping of the PHY MRU index to the *[#2915]*MRU is defined in Table 36-8 (Indices for small size MRUs in an OFDMA 20 MHz EHT PPDU)*[#2916]*.
* If the bandwidth indicates 40 MHz, the mapping of the PHY MRU index to the *[#2915]*MRU is defined in Table 36-9 (Indices for small size MRUs in an OFDMA 40 MHz EHT PPDU) *[#2916]*.
* If the bandwidth indicates 80 MHz, the mapping of the PHY MRU index to the *[#2915]*MRU is defined in Table 36-10 (Indices for small size MRUs in an OFDMA 80 MHz EHT PPDU) and Table 36-13 (Indices for large size MRUs in an OFDMA 80 MHz EHT PPDU and in a non-OFDMA 80 MHz EHT PPDU) *[#2916]*.
* If the bandwidth indicates 160 MHz, the mapping of the PHY MRU index to the *[#2915]*MRU is defined in Table 36-11 (Indices for small size MRUs in an OFDMA 160 MHz EHT PPDU) and Table 36-14 (Indices for large size MRUs in an OFDMA 160 MHz EHT PPDU and in a non-OFDMA 160 MHz EHT PPDU) *[#2916]*.
* If the bandwidth indicates 320 MHz, the mapping of the PHY MRU index to the *[#2915]*MRU is defined in Table 36-12 (Indices for small size MRUs in an OFDMA 320 MHz EHT PPDU) and Table 36-15 (Indices for large size MRUs in an OFDMA 320 MHz EHT PPDU and in a non-OFDMA 320 MHz EHT PPDU) *[#2916]*.

If the RU Allocation of the User Info field indicates the assigned RU is located in an 80 MHz frequency subblock where the corresponding bit in the DRU/RRU Indication subfield in the UHR variant Common Info field is set to 0, the assigned RU is a DRU.

* The mapping of B7–B1 of the RU Allocation subfield along with the settings of B0 of the RU Allocation subfield and the PS160 subfield in the UHR variant User Info field is defined in Table 9-46x1 (Encoding of the PS160 and RU Allocation subfields in an UHR variant User Info field for DBW 20MHz) for DBW 20MHz, Table 9-46x2 (Encoding of the PS160 and RU Allocation subfields in an UHR variant User Info field for DBW 40MHz) for DBW 40MHz, and Table 9-46x3 (Encoding of the PS160 and RU Allocation subfields in an UHR variant User Info field for DBW 80MHz) for DBW 80MHz, where the bandwidth is obtained from the combination of the UL BW subfield and UL Bandwidth Extension sub-fields as defined in Table 9-46x1 (Encoding of the PS160 and RU Allocation subfields in an UHR variant User Info field for DBW 20MHz), Table 9-46x2 (Encoding of the PS160 and RU Allocation subfields in an UHR variant User Info field for DBW 40MHz) and Table 9-46x3 (Encoding of the PS160 and RU Allocation subfields in a UHR variant User Info field for DBW 80MHz), and *X1* and *N* are obtained from Table 9-46m (Lookup table for X1 and N).

The values of the PS160 subfield and B0 of the RU Allocation subfield indicate the 80 MHz frequency sub-block in which the DRU is located for 26-tone RU, 52-tone RU, 106-tone RU, 242-tone RU and 484-tone RU. The 80 MHz frequency subblock is derived based on the corresponding PHY RU or MRU index column in Table 9-46l (Encoding of the PS160 and RU Allocation subfields in an EHT variant User Info field

If the bandwidth indicates 20 MHz, the mapping of the PHY DRU index to DRU is defined in Table 38-C (Data and pilot subcarrier indices for Distributed-tone RUs (DRUs) in a 20 MHz UHR TB PPDU) in increasing order.

* If the bandwidth indicates 40 MHz, the mapping of the PHY DRU index to DRU is defined in Table 38-D (Data and pilot subcarrier indices for Distributed-tone RUs (DRUs) in a 40 MHz UHR TB PPDU) in increasing order.
* If the bandwidth indicates 80 MHz and the DRU Distribution BW subfield indicates 80 MHz distribution bandwidth, the mapping of the PHY DRU index to DRU is in Table 38-E (Data and pilot subcarrier indices for Distributed-tone RUs (DRUs) in an 80 MHz UHR TB PPDU) in increasing order.
* If the bandwidth indicates 80 MHz, 160 MHz or 320 MHz and the DRU Distribution BW subfield indicates 20 MHz distribution bandwidth, the mapping of the PHY DRU index to DRU is defined in Table 9-46x1 (Encoding of the PS160 and RU Allocation subfields in an UHR variant User Info field for DBW 20MHz) and Equation (38-x) through the frequency shift in Table 38-y1 (Constant shift value *Kshift* for DRU on a frequency subblock of wide bandwidth).
* If
* the bandwidth indicates 80 MHz, 160 MHz or 320 MHz and the DRU Distribution BW subfield indicates 40 MHz distribution bandwidth, the mapping of the PHY DRU index to DRU is defined in Table 9-46x2 (Encoding of the PS160 and RU Allocation subfields in an UHR variant User Info field for DBW 40MHz) and Equation (38-x) through the frequency shift in Table 38-y1 (Constant shift value *Kshift* for DRU on a frequency subblock of wide bandwidth).
* If the bandwidth indicates 160 MHz or 320 MHz and the DRU Distribution BW subfield indicates 80 MHz distribution bandwidth, the mapping of the PHY DRU index to DRU is defined in Table 9-46x3 (Encoding of the PS160 and RU Allocation subfields in a UHR variant User Info field for DBW 80MHz) and Equation (38-x) through the frequency shift in Table 38-y1 (Constant shift value *Kshift* for DRU on a frequency subblock of wide bandwidth).
* If

the bandwidth indicates 80 MHz, 160 MHz or 320 MHz and the DRU Distribution BW subfield indicates 60 MHz distribution bandwidth, the mapping of the PHY DRU index to DRU is TBD.If the RU Allocation subfield *[#2908]*of the User Info field indicates the assigned RU is located in an 80 MHz frequency subblock where the corresponding bit in the DRU/RRU Indication subfield in the UHR variant Common Info field is set to 0, the assigned RU is a DRU.

* The mapping of B7–B1 of the RU Allocation subfield along with the settings of B0 of the RU Allocation subfield and the PS160 subfield in the UHR variant User Info field is defined in Table9-46m1 (Encoding of the PS160 and RU Allocation subfields in a UHR variant User Info field for DBW 20 MHz) for distribution bandwidth (DBW)*[#2919]* 20 MHz, Table9-46m2 (Encoding of the PS160 and RU Allocation subfields in a UHR variant User Info field for DBW 40 MHz) for DBW 40 MHz, Table9-46m2a (Encoding of the PS160 and RU Allocation subfields in a UHR variant User Info field for DBW 60 MHz) for DBW 60 MHz, *[#559, 1570, 1571]*and Table9-46m3 (Encoding of the PS160 and RU Allocation subfields in a UHR variant User Info field for DBW 80 MHz) for DBW 80 MHz, where the bandwidth is obtained from the combination of the UL BW subfield and UL Bandwidth Extension subfields*[#2347]*, and *[#2922]*N are obtained from Table 9-46m (Lookup table for X1 and N). The values of the PS160 subfield and B0 of the RU Allocation subfield indicate the 80 MHz frequency subblock in which the DRU is located for each *[#2912]*26-tone RU, 52-tone RU, 106-tone RU, 242-tone RU and 484-tone RU. The 80 MHz frequency subblock is derived based on the corresponding PHY RU or MRU index column in Table 9-46l (Encoding of the PS160 and RU Allocation subfields in an EHT variant User Info field).
* If the bandwidth indicates 20 MHz, the mapping of the PHY DRU index to the *[#2915]*DRU is defined in Table 38-4 (Data and pilot subcarrier indices for Distributed-tone RUs (DRU)  in a 20 MHz UHR TB PPDU)*[#2916]*.
* If the bandwidth indicates 40 MHz, the mapping of the PHY DRU index to the *[#2915]*DRU is defined in Table 38-5 (Data and pilot subcarrier indices for Distributed-tone RUs (DRU)  in a 40 MHz UHR TB PPDU)*[#2916]*.
* If the bandwidth indicates 80 MHz and the DRU Distribution BW subfield indicates 60 MHz distribution bandwidth, the mapping of the PHY DRU index to the DRU is in Table 38-5a (Data and pilot subcarrier indices for Distributed-tone RUs (DRU) in a 60 MHz DBW).*[#559, 1570, 1571]*
* If the bandwidth indicates 80 MHz and the DRU Distribution BW subfield indicates 80 MHz distribution bandwidth, the mapping of the PHY DRU index to the *[#2915]*DRU is in Table 38-6 (Data and pilot subcarrier indices for Distributed-tone RUs (DRU)  in a 80 MHz UHR TB PPDU)*[#2916]*.
* If the bandwidth indicates 80 MHz, 160 MHz or 320 MHz and the DRU Distribution BW subfield indicates 20 MHz distribution bandwidth, the mapping of the PHY DRU index to the *[#2915]*DRU is defined in 38.3.2.1 (Tone plan for DRUs) by using Table 38-4 (Data and pilot subcarrier indices for Distributed-tone RUs (DRU)  in a 20 MHz UHR TB PPDU)*[#2348]*and Equation (38-1) through the frequency shift in Table 38-7 (Constant shift value Kshift for DRU on a frequency subblock of wide bandwidth).
* If the bandwidth indicates 80 MHz, 160 MHz or 320 MHz and the DRU Distribution BW subfield indicates 40 MHz distribution bandwidth, the mapping of the PHY DRU index to the *[#2915]*DRU is defined in 38.3.2.1 (Tone plan for DRUs) by using Table 38-5 (Data and pilot subcarrier indices for Distributed-tone RUs (DRU)  in a 40 MHz UHR TB PPDU) *[#2348]*and Equation (38-1) through the frequency shift in Table 38-7 (Constant shift value Kshift for DRU on a frequency subblock of wide bandwidth).
* If the bandwidth indicates 80 MHz, 160 MHz or 320 MHz and the DRU Distribution BW subfield indicates 60 MHz distribution bandwidth, the mapping of the PHY DRU index to the DRU is defined in 38.3.2.1 (Tone plan for DRUs) by using Table 38-5a (Data and pilot subcarrier indices for Distributed-tone RUs (DRU) in a 60 MHz DBW) and Equation (38-1) through the frequency shift in Table 38-7 (Constant shift value Kshift for DRU on a frequency subblock of wide bandwidth).*[#559, 1570, 1571]*
* If the bandwidth indicates 160 MHz or 320 MHz and the DRU Distribution BW subfield indicates 80 MHz distribution bandwidth, the mapping of the PHY DRU index to the *[#2915]*DRU is defined in 38.3.2.1 (Tone plan for DRUs) by using Table *[#2348]*38-6 (Data and pilot subcarrier indices for Distributed-tone RUs (DRU)  in a 80 MHz UHR TB PPDU) and Equation (38-1) through the frequency shift in Table 38-7 (Constant shift value Kshift for DRU on a frequency subblock of wide bandwidth).
* *[#559, 1570, 1571]*

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| --- | --- | --- | --- | --- | --- | --- | --- |
| * **Encoding of the PS160 and RU Allocation subfields in a UHR variant User Info field for DBW 20 MHz** | | | | | | | |
| **PS160 subfield** | **B0 of the RU Allocation subfield** | **B7–B1 of the RU Allocation subfield** | **Bandwidth (MHz)** | **DRU size** | **DRU index (corresponding to Table 38-4 for DBW20)** | **20 MHz frequency subblock index (l)** | **PHY DRU index** |
| 0–3:  80 MHz frequency subblock where the DRU is located | | 0–8 | 20, 80, 160, or 320 | 26 | DRU1 to DRU9 | 4´*N* *[#19]* | 37´*N*  +  DRU index |
| 9–17 | 80, 160, or 320 | DRU1 to DRU9 | 4´*N* +1 | 37´*N*  + 9 +  DRU index |
| 18 | 80, 160, or 320 | Reserved | Reserved | Reserved |
| 19–27 | 80, 160, or 320 | DRU1 to DRU9 | 4´*N* +2 | 37´*N*  + 19 +  DRU index |
| 28-36 | 80, 160, or 320 | DRU1 to DRU9 | 4´*N* +3 | 37´*N*  + 28 +  DRU index |
| 37–40 | 20, 80, 160, or 320 | 52 | DRU1 to DRU4 | 4´*N* *[#19]* | 16´*N*  +  DRU index |
| 41–44 | 80, 160, or 320 | DRU1 to DRU4 | 4´*N* +1 | 16´*N*  + 4 + DRU index |
| 45–48 | 80, 160, or 320 | DRU1 to DRU4 | 4´*N* +2 | 16´*N*  + 8 + DRU index |
| 49-52 | 80, 160, or 320 | DRU1 to DRU4 | 4´*N* +3 | 16´*N*  + 12 + DRU index |
| 53, 54 | 20, 80, 160, or 320 | 106 | DRU1 and DRU2 | 4´*N* *[#19]* | 8´*N*  +  DRU index |
| 55, 56 | 80, 160, or 320 | DRU1 and DRU2 | 4´*N* +1 | 8´*N*  +  2 +  DRU index |
| 57, *[#1968]*58 | 80, 160, or 320 | DRU1 and DRU2 | 4´*N* +2 | 8´*N*  +  4 +  DRU index |
| 59, *[#1968]*60 | 80, 160, or 320 | DRU1 and DRU2 | 4´*N* +3 | 8´*N*  +  6 +  DRU index |
| 61-127 | Reserved | Reserved | Reserved | Reserved | Reserved |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| * **Encoding of the PS160 and RU Allocation subfields in a UHR variant User Info field for DBW 40 MHz** | | | | | | | |
| **PS160 subfield** | **B0 of the RU Allocation subfield** | **B7–B1 of the RU Allocation subfield** | **Bandwidth (MHz)** | **DRU size** | **DRU index (corresponding to Table 38-5*[#20]* for DBW40)** | **40 MHz frequency subblock index (l)** | **PHY DRU index** |
| 0–3:  80 MHz frequency subblock where the DRU is located | | 0–17 | 40, 80, 160, or 320 | 26 | DRU1 to DRU18 | 2´*N* *[#19]* | 37´*N*  +  DRU index |
| 18 | 80, 160, or 320 | Reserved | Reserved | Reserved |
| 19–36 | 80, 160, or 320 | DRU1 to DRU18 | 2´*N* +1 | 37´*N*  + 19 +  DRU index |
| 37–44 | 40, 80, 160, or 320 | 52 | DRU1 to DRU8 | 2´*N* *[#19]* | 16´*N*  +  DRU index |
| 45-52 | 80, 160, or 320 | DRU1 to DRU8 | 2´*N* +1 | 16´*N*  + 8 + DRU index |
| 53-56 | 40, 80, 160, or 320 | 106 | DRU1 to DRU*[#2921]*4 | 2´*N* *[#19]* | 8´*N*  +  DRU index |
| 57-60 | 80, 160, or 320 | DRU1 to DRU*[#2921]*4 | 2´*N* +1 | 8´*N*  +  4 +  DRU index |
| 61,62 | 40, 80, 160, or 320 | 242 | DRU1 and DRU2 | 2´*N* *[#19]* | 4´*N*  +  DRU index |
| 63,64 | 80, 160, or 320 | DRU1 and DRU2 | 2´*N* +1 | 4´*N*  + 2 +  DRU index |
| 65-127 | Reserved | Reserved | Reserved | Reserved | Reserved |

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| **Table 9-46m2a -- Encoding of the PS160 and RU Allocation subfields in a UHR variant User Info field for DBW 60 MHz*[#559, 1570, 1571, M#320]*** | | | | | | |
| PS160 subfield | B0 of the RU Allocation subfield | B7-B1 of the RU Allocation subfield | Bandwidth (MHz) | DRU Size | DRU index (corresponding to Table 38-5a for DBW60) | 80MHz frequency subblock index (l) | | PHY DRU index |
| 0-3: 80 MHz frequency subblock where the DRU is located | | 0-36 | Reserved | Reserved | Reserved | Reserved | | Reserved |
| 37-48 | 80, 160, or 320 | 52 | DRU1 to DRU12 | *N* | | 16x*N* + DRU index |
| 49-52 | Reserved | Reserved | Reserved | Reserved | | Reserved |
| 53-58 | 80, 160, or 320 | 106 | DRU1 to DRU6 | *N* | | 8x*N* + DRU index |
| 59-60 | Reserved | Reserved | Reserved | Reserved | | Reserved |
| 61-63 | 80, 160, or 320 | 242 | DRU1 to DRU3 | *N* | | 4x*N* + DRU index |
| 64-127 | Reserved | Reserved | Reserved | Reserved | | Reserved |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| * **Encoding of the PS160 and RU Allocation subfields in a UHR variant User Info field for DBW 80 MHz** | | | | | | | |
| **PS160 subfield** | **B0 of the RU Allocation subfield** | **B7–B1 of the RU Allocation subfield** | **Bandwidth (MHz)** | **DRU size** | **DRU index (corresponding to Table 38-6 for DBW80)** | **80 MHz frequency subblock index (l)** | **PHY DRU index** |
| 0–3:  80 MHz frequency subblock where the DRU is located | | 0–36 | Reserved | Reserved | Reserved | Reserved | Reserved |
| 37–52 | 80, 160, or 320 | 52 | DRU1 to DRU16 | *N* | 16´*N*  +  DRU index |
| 53-60 | 80, 160, or 320 | 106 | DRU1 to DRU*[#2921]*8 | *N* | 8´*N*  +  DRU index |
| 61-64 | 80, 160, or 320 | 242 | DRU1 to DRU4 | *N* | 4´*N*  +  DRU index |
| 65,66 | 80, 160, or 320 | 484 | DRU1 and DRU2 | *N* | 2´*N*  +  DRU index |
| 67-127 | Reserved | Reserved | Reserved | Reserved | Reserved |

The UL FEC Coding Type subfield of the User Info field indicates the code type of the solicited UHR TB PPDU. The UL FEC Coding Type subfield is set to 0 to indicate BCC and set to 1 to indicate LDPC.

The UL UHR-MCS subfield of the User Info field indicates the UHR-MCS of the solicited UHR TB PPDU. In a UHR variant User Info field, the encoding of the UL UHR-MCS subfield is defined in 38.3.12 (UHR-SIG modulation and coding schemes (UHR-SIG-MCSs)) and is set as defined in 37.3a.2 (UHR UL MU operation).

If the UL FEC Coding Type subfield is set to 1, the 2xLDPC subfield of the User Info field indicates whether nominal LDPC codeword length of 3888 is used:

* Set to 0 to indicate the nominal LDPC codeword length of 648, 1296 or 1944 is used.
* Set to 1 to indicate the nominal LDPC codeword length of 3888 is used.

If the UL FEC Coding Type subfield is set to 0, B26 is *[#2925]*set to 1.

If the RU Allocation subfield *[#2908]*of the User Info field indicates the assigned RU is located in an 80 MHz frequency subblock where the corresponding bit in the DRU/RRU Indication subfield in the UHR variant Common Info field is set to 1, or located in more than one 80 MHz frequency subblock*[#2909]* where the corresponding bits in the DRU/RRU Indication subfield in the UHR variant Common Info field are set to all 1s, the SS Allocation subfield of the UHR variant User Info field associated with an RRU indicates the spatial streams of the solicited UHR TB PPDU and the format is defined in Figure9-90j2 (SS Allocation subfield format of a UHR variant User Info field associated with an RRU).

|  |  |  |
| --- | --- | --- |
|  | B0                     B2 | B3                     B4 |
|  | Starting Spatial Stream | Number Of Spatial Streams |
| Bits: | 3 | 2 |
| * **SS Allocation subfield format of a UHR variant User Info field associated with an RRU** | | |

The Starting Spatial Stream subfield indicates the starting spatial stream and is set to the starting spatial stream minus 1 (see 37.3a.2.3.2 (TXVECTOR parameters for UHR TB PPDU response to Trigger frame)) with a maximum value of 7 for the Starting Spatial Stream subfield (see 38.2.2 (TXVECTOR and RXVECTOR parameters)*[#3225]*). The Starting Spatial Stream subfield is set to 0 if the corresponding RU or MRU is not allocated for MU-MIMO.

The Number Of Spatial Streams subfield indicates the number of spatial streams, and is set to the number of spatial streams minus 1 with a maximum value of 3 (see 38.2.2 (TXVECTOR and RXVECTOR parameters)*[#3225]*).

If the RU Allocation subfield *[#2908]*of the User Info field indicates the assigned RU is located in an 80 MHz frequency subblock where the corresponding bit in the DRU/RRU Indication subfield in the UHR variant Common Info field is set to 0, the SS Allocation And DBW *[#1610]*subfield of the UHR variant User Info field associated with a DRU indicates the DRU distribution bandwidth and spatial streams of the solicited UHR TB PPDU and the format is defined in Figure9-90j3 (SS Allocation And DBW*[#1610]* subfield format of a UHR variant User Info field associated with a DRU), where B2-B3 are *[#2929]*set to 0.

|  |  |  |  |
| --- | --- | --- | --- |
|  | B0                     B1 | B2                     B3 | B4 |
|  | DRU Distribution BW | Reserved | Number Of Spatial Streams |
| Bits: | 2 | 2 | 1 |
| * **SS Allocation And DBW *[#1610]*subfield format of a UHR variant User Info field associated with a DRU** | | | |

The DRU Distribution BW subfield indicates the distribution bandwidth of the assigned DRU and is encoded as follows:

* 0 for a distribution bandwidth of 20 MHz.
* 1 for a distribution bandwidth of 40 MHz.
* 2 for a distribution bandwidth of 80 MHz.
* 3 for a distribution bandwidth of 60 MHz.

The Number Of Spatial Streams subfield indicates the number of spatial streams, and is set to the number of spatial streams minus 1 with a maximum value of 1 (see 38.2.2 (TXVECTOR and RXVECTOR parameters)*[#3225]*).

The UL Target Receive Power subfield indicates the expected receive signal power, measured at the AP's antenna connector and averaged over the antennas, for the UHR portion of the UHR TB PPDU transmitted on the assigned RU and is defined in Table 9-46k (UL Target Receive Power subfield in Trigger frame).

If the size of RU or MRU is smaller than or equal to 2´996-tones, then the PS160 subfield is set to 0 to indicate that the RU or MRU allocation applies to the primary 160 MHz channel and set to 1 to indicate that the RU or MRU allocation applies to the secondary 160 MHz channel. Otherwise, the PS160 subfield is used to indicate the RU or MRU index along with the RU Allocation*[#131, 409, 560, 2665, 3276, 3481]* subfield*[#2931]* as defined in Table 9-46l (Encoding of the PS160 and RU Allocation subfields in an EHT variant User Info field).

The Trigger Dependent User Info subfield is set as defined in 9.3.1.22.4 (HE variant User Info field).

***TGbn editor: Add one abbreviation as follows [#408]:***

**3.4 Abbreviations and acronyms**

***Insert the following acronym definitions (maintaining alphabetical order):***

DBW distribution bandwidth*[#408]*

DSO dynamic subband operation

MAPC multi-AP coordination

UHR ultra high reliability