### **IEEE P802.11Wireless LANs**

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| CC36 CR for Trigger frame on EHT User Info field |
| Date: 2021-09-01 |
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**Abstract**

This submission proposes resolutions for following 30 comments received for TGbe CC36:

* 8074,7391,5204,7688,7689,4506,7029,4880,4882,7908,7030,4582,7354,7032,7031,7027,7033,5797,7034,5798,7402,7353,4326,4325,7897,5796,7026,7907,7904,4881

**Revisions:**

* Rev 0: Initial version of the document.

***TGbe editor: Please note Baseline is REVmd D5.0, 11ax D8.0, and 11be D1.2***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| CID | Commenter | Clause | Page | Comment | Proposed Change | Resolution |
| 8074 | yujin noh | 9.3.1.22.1.2.2 | 95.07 | two periods at the end of the sentence.Delete the one. | as in comment | RevisedDeleted the extra periods.Tgbe editor please implement changes as shown in doc 11-21/1488r1 tagged as #8074 |
| 7391 | Stephen McCann | 9.3.1.22.1.2.2 | 95.23 | Missing equals typo "If the AID12 subfield is 2007" | Change the cited text to "If the AID12 subfield is equal to 2007" | RevisedAgree with the commenter in principleAdded “is equal to”Tgbe editor please implement changes as shown in doc 11-21/1488r1 tagged as #7391 |
| 5204 | Hanqing Lou | 9.3.1.22.1.2.2 | 95.23 | A STA shall check B55 (Special User Info Field Present) in Common Info field to determine if a User Info field starting with AID12=2007 is a Special User Info field otherwise there is no need to defined B55. | Change to "If the AID12 subfield is 2007 and B55 in Common Info field is 0..." | RevisedAgree with the commenter in principleAdded the condition check of B55.Tgbe editor please implement changes as shown in doc 11-21/1488r1 tagged as #5204 |
| 7688 | Xiaofei Wang | 9.3.1.22.1.2.2 | 95.24 | Is "remaining fields" "remaining subfields"? Meaning the subfields of the current User Info field? Please clarify. | as in comment | RevisedAgree with the commenter in principleRenamed fields with subfield.Tgbe editor please implement changes as shown in doc 11-21/1488r1 tagged as #7688 |
| 7689 | Xiaofei Wang | 9.3.1.22.1.2.2 | 95.30 | A comma is needed between "frame" and "along" to make this sentence more readable. | as in comment | RevisedA comma has been added between "frame" and "along" Tgbe editor please implement changes as shown in doc 11-21/1488r1 tagged as #7689 |
| 4506 | Bin Tian | 9.3.1.22.1.2.2 | 95.30 | Sentence is too long and twisted. Need to be rephreased | as in the comment. | RevisedA comma has been added between "frame" and "along" Tgbe editor please implement changes as shown in doc 11-21/1488r1 tagged as #7689 |
| 7029 | Sigurd Schelstraete | 9.3.1.22.1.2.2 | 96.59 | "0-1: 160 MHz segment where the RU is located" is ambiguous. Replace with "0 for primary 160 MHz, 1 for secondary 160 MHz". (several instances). In fact, it would be better to always have this column shown separately, not merged with "B0 of RU allocation subfield" | See comment | RevisedD1.1 has the following context-sensitive description for the PS160 subfield: “If the size of RU/MRU is smaller than or equal to 2x996-tone, then PS160 subfield is set to 0 to indicate that RU/MRU allocation applies to the primary 160 MHz channel and set to 1 to indicate that RU/MRU allocation applies to the secondary 160 MHz channel. Otherwise, it is used to indicate the RU/MRU index along with the RU Allocation subfield.”As the PS160 subfield does not always indicate the primary 160, a NOTE has been added to Table 9-29j1 to better readability.Tgbe editor please implement changes as shown in doc 11-21/1488r1 tagged as #7029 |
| 4880 | Dong Guk Lim | 9.3.1.22.1.2.2 | 95.32 | The definition of the PS160 subfield in the EHT variant user info field is missing. to make it clear, add the description for the PS160 subfield in this subclasue. | As in comment | RevisedD1.1 has the following context-sensitive description for the PS160 subfield: “If the size of RU/MRU is smaller than or equal to 2x996-tone, then PS160 subfield is set to 0 to indicate that RU/MRU allocation applies to the primary 160 MHz channel and set to 1 to indicate that RU/MRU allocation applies to the secondary 160 MHz channel. Otherwise, it is used to indicate the RU/MRU index along with the RU Allocation subfield.”A NOTE has been added to Table 9-29j1 for clarification.Tgbe editor please implement changes as shown in doc 11-21/1488r1 tagged as #7029 |
| 4882 | Dong Guk Lim | 9.3.1.22.1.2.2 | 97.46 | 996+484+242 is only applied on 160MHz, so this equation is modified with the MRU index. | change "8xX1+ MRU index" with " MRU index" | RevisedAgree with the commenter in principleReplaced "8xX1+ MRU index" with " MRU index" in the corresponding row in Table 9-29j1Tgbe editor please implement changes as shown in doc 11-21/1488r1 tagged as #4882 |
| 7908 | Youhan Kim | 9.3.1.22.1.2.2 | 97.49 | This is a comment on https://mentor.ieee.org/802.11/dcn/21/11-21-0893-01-00be-pdt-correction-to-trigger-frame-ru-allocation-table.docxIn Table 9-29j1, row corresponding to "PS160" = 1, "B0" = Any and "B7-B1" = 96-99, the proposed text update write "Bandwidth" = Reserved.However, "Bandwidth" is an input to the Table, not an output, hence cannot be reserved. | Change the "Reserved" to "Any" in the row corresponding to "PS160" = 1, "B0" = Any and "B7-B1" = 96-99. | RevisedAgree with the commenter in principleReplaced “Reserved” with “Any” in the corresponding row in Table 9-29j1 and add a NOTE in the table that ‘Any’ in the Bandwidth column can be any value from 20, 40, 80, 160 or 320Tgbe editor please * Replaced “Reserved” with “20, 40, 80, 160 or 320” in the row corresponding to 996+484+242 in Table 9-29j1
* Replace any occurrence of ‘Any’ or ‘Reserved’ in the Bandwidth column with “20, 40, 80, 160 or 320” 1488r1 NOTE to the editor —keep the column RU/MRU size, RU/MRU index as Reserved.
 |
| 7030 | Sigurd Schelstraete | 9.3.1.22.1.2.2 | 98.40 | Formula (9-0a1). The value of N is listed for all cases in Table 9-29j2. There is no further need for a formula. This only amounts to duplication and may be a cause of errors later. | Replace formula with reference to Table 9-29j2 | RevisedAgree with the commenter in principleHowever, there is value to keep Equation (9-0a1) as it clarifies how N is calculated. Revised the text to clarify that Table 9-29j2 is derived from Equation (9-0a1).Tgbe editor please implement changes as shown in doc 11-21/1488r1 tagged as #7030 |
| 4582 | Bo Yang | 9.3.1.22.1.2.2 | 98.47 | The two sentences "For a bandwidth of 160 MHz, PS160 and X1 are set to 0, andX0 is specified in the table. For a bandwidth of 320 MHz, PS160, X0, and X1 are specified in the table. " are not clear which table those two sentences are refering to. | Change "in the table" to "in Table 9-29j2" | RevisedAgree with the commenter in principleThe revised text refers to Table 9-29j2 only.Tgbe editor please implement changes as shown in doc 11-21/1488r1 tagged as #7031 as below |
| 7354 | Stephen McCann | 9.3.1.22.1.2.2 | 98.47 | In the sentence "The configuration indicates the absolute frequency order of the primary and secondary 80 MHz and 160 MHz channels.", the word absolute is not required. Table 9-29j2 shows the frequency order, not an absolute frequency order. | Remove the word "absolute" from the cited sentence. | AcceptedTgbe editor please implement changes as shown in doc 11-21/1488r1 tagged as #7354 |
| 7032 | Sigurd Schelstraete | 9.3.1.22.1.2.2 | 99.06 | What explains the naming "Logical outputs" and "physical outputs"? Since it's hard to see what's "logical" or "physical" about them, more neutral terms would be preferred. | Replace with less confusing terminology | RevisedAgree with the commenter in principleRenamed the title and column namesTgbe editor please implement changes as shown in doc 11-21/1488r1 tagged as #7032 |
| 7031 | Sigurd Schelstraete | 9.3.1.22.1.2.2 | 99.06 | Table 9-29j2: Variable X0 is defined. Where is it actually used? Looks like only N and X1 are used in Table 9-29j1. | Clarify. Remove if not needed. | RevisedAgree with the commenter in principleRevised the text for clarity.Tgbe editor please implement changes as shown in doc 11-21/1488r1 tagged as #7031 |
| 7027 | Sigurd Schelstraete | 9.3.1.22.1.2.2 | 96.15 | "0-3: 80 MHz subblock where the RU is located". This doesn't clearly state which 80 MHz subblock corresponds to which value. | Clarify | RevisedAdded clarification that the 80 MHz subblock is derived based on the PHY RU/MRU index column, which reads N from Table 9-29j2. Tgbe editor please implement changes as shown in doc 11-21/1488r1 tagged as #7027 |
| 7033 | Sigurd Schelstraete | 9.3.1.22.1.2.2 | 99.56 | "as indicated by PS160 subfield and B0 of RU Allocation subfield" does not explain how these values indicate the index. | 7033 | RevisedAgree with the commenter in principleRevised the text for clarity.Tgbe editor please implement changes as shown in doc 11-21/1488r1 tagged as #7033 |
| 5797 | Lei Huang | 9.3.1.22.1.2.2 | 99.56 | It is better to change "80 MHz channel" to "80 MHz subblock" | as in the comment | RevisedAgree with the commenter in principleReplaced channel with subblock.Tgbe editor please implement changes as shown in doc 11-21/1488r1 tagged as #7033 |
| 7034 | Sigurd Schelstraete | 9.3.1.22.1.2.2 | 99.60 | "as indicated by PS160 subfield " does not explain how this values indicates the index. | 7034 | RevisedAgree with the commenter in principleRevised the text for clarity.Tgbe editor please implement changes as shown in doc 11-21/1488r1 tagged as #7034 |
| 5798 | Lei Huang | 9.3.1.22.1.2.2 | 99.61 | It is better to change "160 MHz channel" to "160 MHz segment" | as in the comment | RevisedAgree with the commenter in principleReplaced channel with segment.Tgbe editor please implement changes as shown in doc 11-21/1488r1 tagged as #7034 |
| 7402 | Stephen McCann | 9.3.1.22.1.2.2 | 100.40 | typo "Bandwidth" | Change "Bandwidth" to "bandwidth" and also other occurances on the same page. | AcceptedTgbe editor please implement changes as shown in doc 11-21/1488r1 tagged as #7402 |
| 7353 | Stephen McCann | 9.3.1.22.1.2.2 | 101.21 | In the sentence "Otherwise, it is used to indicate the RU/MRU index along with the RU Allocation subfield.", what is "it" referring to? It seems to be the 1 bit PS160 subfield. Therefore how can it refer to the RU/MRU index? | The word "it" in the cited sentence needs to be clarified, but a suggestion cannot be determined. Therefore, the proposed change is to delete the cited sentence. | RevisedAgree with the commenter in principleReplaced ‘it’ with the PS160 subfieldTgbe editor please implement changes as shown in doc 11-21/1488r1 tagged as #7353 |
| 4326 | Arik Klein | 9.3.1.22.1.2.2 | 101.26 | Since the UL Target Receive Power subfield in the EHT variant User Info field is set as the UL Target Receive Power subfield in the HE variant User Info field , need to clarify how the UL Target Receive Power subfield in EHT variant User Info field is measured over the antennas: for the HE portion of the HE TB PPDU (as in P94L35) or for the EHT portion of the EHT TB PPDU? | As in comment | RevisedAgree with the commenter in principleAdded text to clarify that the EHT portion of the corresponding EHT TB PPDU is used for the subfield.Tgbe editor please implement changes as shown in doc 11-21/1488r1 tagged as #4326 |
| 4325 | Arik Klein | 9.3.1.22.1.2.2 | 95.06 | Need to replace "Trigger frame variants" with "Trigger frame types" in the sentence:"The EHT variant User Info field is defined in Figure 9-64f1 (EHT variant User Info field format) for all Trigger frame variants except the NFRP Trigger frame". | As in comment | RejectedThe phrase 'Trigger frame variants' has been commonly used in the 11ax spec.  |
| 7897 | Yoshio Urabe | 9.3.1.22.1.2.2 | 95.23 | It is not clear whether the Special User Info field is a kind of EHT variant User Info field or not. If it is not an EHT variant User Info field, it is not appropriate to put the sentense in this subclause (maybe explained in general description of 9.3.1.22.1.2 User Info List field). | Please clarify. | RevisedThe special User Info field is not an EHT variant User Info field. This has been clarified in document 21/1301r1 (https://mentor.ieee.org/802.11/dcn/21/11-21-1301-01-00be-cc36-cr-for-cid-4584.docx) with the following text: “There are three variants for the User Info field, which are HE variant User Info field, EHT variant User Info field and Special User Info field. ”. Tgbe editor, no further action is needed. |
| 5796 | Lei Huang | 9.3.1.22.1.2.2 | 96.21 | 26-tone RU 19 is undefined not reserved. | changing "reserved" to "undefined" for row "18" and column "RU/MRU index" | RejectedThere are many reserved values in the table, which means that they haven't been defined yet. |
| 7026 | Sigurd Schelstraete | 9.3.1.22.1.2.2 | 96.06 | Table 9-29j1. The difference and use of RU/MRU index and PHY RU/MRU index are not clearly defined. The current values shown in the column "RU/MRU index" do not have the same meaning as the columns "MRU index" in e.g. Table 36-8 to 36-12. The RU/MRU indices in e.g Table 36-8 to 36-12 cover the full BW. Given that this definition of "MRU index" exists and is used in Clause 36, this section should try to reuse this unambiguous definition of "MRU index". | See comment | RejectedThe RU/MRU index in the clause 9 inherits the convention from the 11ax spec. The PHY RU/MRU index, in the last column of the table, is only introduced in clause 36 of the 11be spec. If we were to refer to PHY RU/MRU index in this table, it would confuse a reader who is familiar with the 11ax spec but new to the 11be spec. So the proposal is to keep using the conventional RU index instead of the PHY RU index from clause 36. |
| 7907 | Youhan Kim | 9.3.1.22.1.2.2 | 97.17 | (1) There are 12 MRU2x996+484, but Table 9-29j1 has 16 entries for it.(2) Not all MRU52+26 and 106+26 are valid for 80/160/320 MHz | Implement the text updates proposed in https://mentor.ieee.org/802.11/dcn/21/11-21-0916-01-00be-pdt-additional-corrections-to-the-trigger-frame-ru-allocation-table.docx | RevisedAgree with the commenter in principleThis has been addressed in D1.1.Tgbe editor, no further action is needed. |
| 7904 | Youhan Kim | 9.3.1.22.1.2.2 | 97.44 | MRU996+484+242 is allowed only for 160 MHz non-OFDMA transmissions:- D1.0 P356L20: "The 996+484+242-tone MRU is allowed in a non-OFDMA 160 MHz EHT PPDU."- D1.0 36.3.2.2.3.2 (Large size multiple RUs for OFDMA) does not list MRU996+484+242 as an allowed MRU in OFDMA transmissions.But the RU Allocation subfield in the Trigger Frame (Table 9-29j1) allows MRU996+484+242 in 320 MHz EHT TB PPDU, which must be an OFDMA transmission. | Disallow MRU996+484+242 in 320 MHz EHT TB PPDUs by implementing the text update proposed in https://mentor.ieee.org/802.11/dcn/21/11-21-0893-01-00be-pdt-correction-to-trigger-frame-ru-allocation-table.docx | RevisedAgree with the commenter in principleThis has been addressed in D1.1.Tgbe editor, no further action is needed. |
| 4881 | Dong Guk Lim | 9.3.1.22.1.2.2 | 97.44 | 996+484+242 is defined for non-OFDMA in 160MHz. So, the PS160 subfield only sets to 0 and delete the second row in this RU size row of table 9-29j1 | As in comment | RevisedAgree with the commenter in principleThis has been addressed in D1.1. Please refer to https://mentor.ieee.org/802.11/dcn/21/11-21-0893-01-00be-pdt-correction-to-trigger-frame-ru-allocation-table.docxTgbe editor, no further action is needed, same as #7904 above |

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 TGbe Draft. This introduction is not part of the adopted material.

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

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

***TGbe editor: Please update subclause 9.3.1.22.1.2 (Starting from P122L5 in D1.2) as follows:***

**9.3.1.22.1.2 EHT variant User Info field**

The EHT variant User Info field is defined in [Figure 9-64f1 (EHT variant User Info field format)](#bookmark32) for all Trigger frame variants except the NFRP Trigger frame.(#8074)

B0 B11 B12 B19 B20 B21 B24 B25 B26 B31 B32 B38 B39

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AID12 | RUAllocation | UL FECCoding Type | UL EHT- MCS | Reser ved | SS Allocation/ RA-RUInformation | UL Target Receive Power | PS160 | Trigger Dependent User Info |

Bits: 12 8 1 4 1 6 7 1 variable

**Figure 9-64f1—EHT variant User Info field format**

If the AID12 subfield is equal to 2007(#7391), the Trigger frame containing this User Info field is generated by an EHT AP, and B55 of the Common Info field of the Trigger frame is equal to 0, (#5204)then the remaining subfields(#7688) of the User Info field are defined in [9.3.1.22.1.3 (Special User Info field)](#bookmark36). Oth- erwise, the AID12 subfield in the EHT variant User Info field is encoded as defined in [Table 9-29h (AID12](#bookmark27) [subfield encoding)](#bookmark27).

The RU Allocation subfield in an EHT variant User Info field in a Trigger frame that is not an MU-RTS Trigger frame, (#7689) 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 EHT variant User Info field, identifies the size and the location of the RU/MRU. The mapping of B7–B1 of the RU Allocation subfield along with the settings of B0 of the RU Allocation subfield and PS160 subfield in the EHT variant User Info field are defined in [Table 9-29j1 (Encoding of PS160 and RU Allocation subfields in an EHT variant User Info field)](#bookmark33), where the bandwidth is obtained from the combination of the UL BW subfield and UL Bandwidth Extension subfields as defined in [Table 9-29j3 (UL Bandwidth Extension subfield encoding)](#bookmark38) and *N* is obtained from(#7030) [Table 9-29j2 (](#bookmark34) [Lookup table for X1 and N (#7032))](#bookmark34) that is derived from Equation (9-0a1).

***TGbe editor: Please update the 3 rows with ’96-99’ in the 3rd column (starting from P125L17 in D1.2) and the footnote of Table 9-29j1 as follows:***

**Table 9-29j1—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: MRU islocated in the primary160 MHz | 0 | 96–99 | 160 | 996+484+242 | MRU1 to MRU4,respectively | (#4882)MRU index |
| 1 | MRU5 to MRU8,respectively |
| 1 | Any | 96–99 | 20, 40, 80, 160, or 320 (#7908) | 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 pri- mary 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/MRU 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. Refer to 36.3.2.2.2 (Small size MRUs(#2024)) for details.NOTE 3--If the size of RU/MRU is smaller than or equal to 2x996-tone, then PS160 subfield is set to 0 to indicate that RU/MRU allocation applies to the primary 160 MHz channel and set to 1 to indicate that RU/MRU allocation applies to the secondary 160 MHz channel. Otherwise, the PS160 subfield is used to indicate the RU/MRU index along with the RU Allocation subfield. (#7029) |

The parameter *N* in the Trigger Frame RU Allocation table is calculated using Equation (9-0a1).

*N* = 2  X1 + X0 (9-0a1)

[Table 9-29j2 (Lookup table for X1 and N (#7032))](#bookmark34) summarizes how to use Equation (9-0a1) to calculate *N* for different configurations. For a bandwidth less than or equal to 80 MHz, PS160, B0, X0, and X1 are set to 0. For a bandwidth of 160 MHz, PS160 and X1 are set to 0, while X0 is set to 0 to indicate that the RU/MRU allocation applies to the lower 80 MHz subblock and set to 1 to indicate that the RU/MRU allocation applies to the upper 80 MHz subblock. For a bandwidth of 320 MHz, X1 is set to 0 to indicate that the RU/MRU allocation applies to the lower 160 MHz segment and set to 1 to indicate that the RU/MRU allocation applies to the upper 160 MHz segment. Within the indicated 160 MHz segment, X0 is set to 0 to indicate that the RU/MRU allocation applies to the lower 80 MHz subblock and set to 1 to indicate that the RU/MRU allocation applies to the upper 80 MHz subblock.(#7031) The configuration indicates the(#7354) frequency order of the primary and secondary 80 MHz and 160 MHz channels. The order from left to right indicates the order from lower frequency to higher frequency. The primary 80 MHz channel is indicated by P80, the secondary 80 MHz channel is indicated by S80, and the secondary 160 MHz channel is indicated by S160.

**Table 9-29j2—****Lookup table for X1 and N (#7032)**

|  |  |  |
| --- | --- | --- |
| **Bandwidth (MHz)** | **Inputs (#7032)** | **Outputs (#7032)** |
| **Configuration** | **PS160** | **B0** | **X0** | **X1** | **N** |
| 20/40/80 | [P80] | 0 | 0 | 0 | 0 | 0 |
| 160 | [P80 S80] | 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 1 | 0 | 1 |
| [S80 P80] | 0 | 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 0 | 0 |
| 320 | [P80 S80 S160] | 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 1 | 0 | 1 |
| 1 | 0 | 0 | 1 | 2 |
| 1 | 1 | 1 | 1 | 3 |
| [S80 P80 S160] | 0 | 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 0 | 0 |
| 1 | 0 | 0 | 1 | 2 |
| 1 | 1 | 1 | 1 | 3 |
| [S160 P80 S80] | 0 | 0 | 0 | 1 | 2 |
| 0 | 1 | 1 | 1 | 3 |
| 1 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 0 | 1 |
| [S160 S80 P80] | 0 | 0 | 1 | 1 | 3 |
| 0 | 1 | 0 | 1 | 2 |
| 1 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 0 | 1 |

(#7033)The values of PS160 subfield and B0 of RU Allocation subfield indicate the 80 MHz subblock in which the RU/MRU is located for 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 MRU. (#7027) The 80 MHz subblock is derived based on the corresponding PHY RU/MRU index column in Table 9-29j1 (**Encoding of PS160 and RU Allocation subfields in an EHT variant User Info field**).

(#7034)The value of PS160 subfield indicates the 160 MHz segment in which the RU/MRU is located for 2x996-tone RU, 996+484-tone MRU, and 996+484+242-tone MRU.

… …

If the bandwidth(#7402) indicates 160 MHz, the mapping of the PHY MRU index to 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 a 160 MHz EHT PPDU and in a non-OFDMA 160 MHz EHT PPDU(#2398)) in increasing order.

If the bandwidth(#7402) indicates 320 MHz, the mapping of the PHY MRU index to 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 320 MHz EHT PPDU and in a non-OFDMA 320 MHz EHT PPDU(#2398)) in increasing order.

The UL FEC Coding Type subfield of the User Info field indicates the code type of the solicited EHT TB

PPDU. The UL FEC Coding Type subfield is set to 0 to indicate BCC and set to 1 to indicate LDPC.

***Discussion:***

***Background****: we need to clarify that MCS15 is not allowed based on the following motion, but there is no spec text to reflect this motion for UL MU-MIMO yet. In addition, MCS14 is intended just for SU transmission using EHT MU PPDU.*

*DL and UL MU-MIMO are disallowed over MCS 15.*

*[Motion 146, #SP335, [23] and [45]]*

***Proposal****: clarify that MCS14/15 are not allowed for UL MU-MIMO in the following paragraph*

***TGbe editor: please revise the paragraph in subclause 9.3.1.22.1.2 (Starting from P128L59 in D1.2) as follows:***

The UL EHT-MCS subfield of the User Info field indicates the EHT-MCS of the solicited EHT TB PPDU.

In an EHT variant User Info field, the encoding of the UL EHT-MCS subfield is defined in 36.3.8 (EHT

modulation and coding schemes (EHT-MCSs)). EHT-MCS 15 cannot be indicated in the UL EHT-MCS subfield for UL MU-MIMO. EHT-MCS 14 cannot be indicated in an EHT variant User Info field in a Trigger frame.

… …

***TGbe editor: Please insert the following paragraph as the 4th last paragraph in subclause 9.3.1.22.1.2 (Starting from P129L17 in D1.2) as revise the 2nd and 3rd last paragraphs as follows:***

 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 EHT portion of the EHT TB PPDU transmitted on the assigned RU and is defined in Table 9-29j (UL Target Receive Power subfield in Trigger frame).(#4326)

If the size of RU/MRU is smaller than or equal to 2996-tone, then PS160 subfield is set to 0 to indicate that RU/MRU allocation applies to the primary 160 MHz channel and set to 1 to indicate that RU/MRU allocation applies to the secondary 160 MHz channel. Otherwise, the PS160 subfield(#7353) is used to indicate the RU/MRU index along with the RU Allocation subfield. The PS160 subfield is set as defined in [Table 9-29j1 (Encoding of PS160](#bookmark33) [and RU Allocation subfields in an EHT variant User Info field)](#bookmark33).

The RA-RU Information(#4326) and Trigger Dependent User Info subfields are set as defined in [9.3.1.22.1.2.1 (HE variant User Info field)](#bookmark25).

(#5901)The RA-RU Information subfield is reserved in the EHT variant User Info field.

**35.4.2 EHT UL MU operation(#1088)**

**35.4.2.1 General**

***TGbe editor: Please append the following paragraph to clause 35.4.2.1 (Starting from P376L26 in D1.2)***

An EHT AP shall not set the UL EHT MCS subfield of an EHT variant User Info field to 14 or 15 in a transmitted Trigger frame if the RU assigned by that User Info field is used for UL MU MIMO transmission.