IEEE P802.11  
Wireless LANs

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| Comment Resolutions for Sub-clause 38.2 in 11bn D0.1 CC50 | | | | |
| Date: 2025-04-10 | | | | |
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Abstract

This submission provides resolutions to the following 114 CIDs for sub-clause 38.2 regarding UHR PHY service interface in IEEE P802.11bn D0.1 in CC50, including suggested spec text modification to IEEE P802.11bn D0.2 to TGbn editor:

* 4 CIDs (38.2 &38.2.1): 137, 904, 2736, 3126;
* 6 CIDs (38.2.2): 2050, 315, 1760, 3304; 1616, 3227
* 14 CIDs (38.2.3): 139, 1106, 1107, 1108, 2049, 2238, 2737, 2738, 3296, 3342, 3343, 3483, 3750, 1371;
* 29 CIDs (38.2.5): 140, 141, 292, 563, 564, 678, 924, 925, 1109, 1110, 1111, 1112, 2051, 2052, 2239, 2718, 2719, 2720, 2739, 2740, 3228, 3357, 3358, 3359, 3360, 3484, 1372, 2240, 2438;
* 19 CIDs (38.2.6&38.2.6.1): 177, 1073, 1074, 1075, 1581, 1901, 2053, 2054, 2055, 2056, 2057, 2741, 2742, 3229, 3485, 3486, 3487, 3488, 2241;
* 24 CIDs (38.2.6.2): 119, 120, 121, 293, 294, 1076, 1077, 1113, 1114, 1115, 1116, 1373, 1929, 2058, 2059, 2242, 2743, 3370, 3489, 3490, 3491, 3492, 3493, 3496;
* 4 CIDs (38.2.6.3): 565, 2060, 2744, 3297;
* 1 CIDs (38.2.6.4): 2745;
* 6 CIDs (38.2.6.5): 1078, 2061, 2243, 2746, 2747, 3494;
* 8 CIDs (38.2.6.6): 295, 1079, 2062, 2244, 2745, 2748, 2749, 3495

Revisions:

* R0: comment resolutions initial draft.
* R1: correct the addressed CID list in Abstract section.

Interpretation of a Motion to Adopt

A motion or majority supported straw poll to approve this submission means that the editing instructions and any changed or added material are actioned in the TGbn Draft. When the baseline spec draft is an unapproved version, a majority supported straw poll to approve this submission means that the editing instructions and any changed or added material are actioned in the unapproved 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.***

***TGbn editor: The baseline for this document is P802.11bn D0.2 and P802.11REVmeD7.0***

***Comments for sub-clause 38.2.1: 4 comments***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Pg/Ln** | **Clause** | **Comment** | **Proposed Changed** | **Resolution** |
| 3126 | 90.05 | 38.2 | "UHR" font size wrong | As it says in the comment | **Accepted** |
| 904 | 90.19 | 38.2.1 | The UHR MAC uses the TRIGVECTOR to configure the UHR PHY to receive UHR TB PPDUs over each assigned RU. The definition of assigned RU is not clear : assigned to any STA, or limited to RU with triggered PPDU directed to triggering AP...? Because it seems to appear RU not destined to triggering AP as per MAP process... | please clarify. As example: Assigned RU means a RU on which the triggering STA is expecting to receive TB PPDU. | **Rejected**  **Reason:**  The context has implied the assigned RU/MRU/DRU is used for transmission of TB PPDU. |
| 137 | 90.20 | 38.2.1 | In EHT, we mentioned 'RU or MRU', not sure why UHR only 'RU'. | should be 'RU or MRU' in the last sentence | **Revised**  **Discussion:**  Agree on the comments in principle. In 11bn, we have RU, MRU and DRU which could be assigned for TB PPDU transmission.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 137 in this document. |
| 2736 | 90.20 | 38.2.1 | "RU" | "RU or MRU or DRU" | **Revised**  **Discussion:**  Agree on the comments in principle. In 11bn, we have RU, MRU and DRU which could be assigned for TB PPDU transmission.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2736 in this document. |

***TGbn editor: Please implement the following modification to subclause 38.2.1 (Introduction) to 11bn D0.2 as part of resolution to CID #137 and 2736:***

# Ultra high reliability (UHR) PHY specification

## 38.1 Introduction

## 38.2 UHR PHY service interface

### 38.2.1 Introduction

The UHR PHY provides an interface to the UHR MAC through an extension of the generic PHY service interface defined in 8.3.4 (Basic service and options). The interface includes TXVECTOR, RXVECTOR, PHYCONFIG\_VECTOR, and TRIGVECTOR.

The UHR MAC uses the TXVECTOR to supply the UHR PHY with per-PPDU transmit parameters. The UHR PHY uses the RXVECTOR to inform the UHR MAC of the received PPDU parameters. The UHR MAC uses the PHYCONFIG\_VECTOR to configure the UHR PHY for operation that is independent of PPDU transmission or reception. The UHR MAC uses the TRIGVECTOR to configure the UHR PHY to receive UHR TB PPDUs over each assigned RU, MRU or DRU. *[CID #137/2736]*

***---------------------------------- End of resolution -----------------------------------***

***Comments for sub-clause 38.2.2 (1 comments), sub-clause 38.1 (related to 38.2.2, 2 comments), and sub-clause 38.3.17.5.2 (3 comments)***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Pg/Ln** | **Clause** | **Comment** | **Proposed Changed** | **Resolution** |
| 2050 | 90.25 | 38.2.2 | The main body of sub-clause 38.2.2 is missing | The commenter will provide a resolution or updated PDT with proposed sub-clause 38.2.2 text. | **Revised**  **Discussion:**  The proposed subclause 38.2.2 in this document serves as a resolution and an updated PDT..  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2050 in this document. |
| 1616 | 88.54 | 38.1.3 | Define Table 38-1 (TXVECTOR and RXVECTOR parameters). | as in comment | **Revised**  **Discussion:**  Table 38-1 (TXVECTOR and RXVECTOR parameters) is proposed in this document as resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 1616 in this document. |
| 3227 | 89.33 | 38.1.4 | The Table 38-1 (TXVECTOR and RXVECTOR parameters) is refreed but does not exist. (The Table 38-1 in the current draft defines TRIGVECTOR parameters.) | Add The table for TXVECTOR and RXVECTOR parameters for UHR PHY. | **Revised**  **Discussion:**  Table 38-1 (TXVECTOR and RXVECTOR parameters) is proposed in this document as resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 3227 in this document. |
| 315 | 145.39 | 38.3.15.7.2 | "BSS Color 2" and "Co-BF/Co-SR Indication" should be added to TXVECTOR | See comment | **Revised**  **Discussion:**  Table 38-1 (TXVECTOR and RXVECTOR parameters) with requested parameters defined is proposed in this document as resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 315 in this document. |
| 1760 | 144.19 | 38.3.15.7.2 | There is no definition about UHR\_PPDU\_TYPE in TXVECTOR. | Please clarfy. | **Revised**  **Discussion:**  Table 38-1 (TXVECTOR and RXVECTOR parameters) with requested parameters defined is proposed in this document as resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 1760 in this document. |
| 3304 | 145.44 | 38.3.15.7.2 | The TXVECTOR parameter BSS\_COLOR\_2 is not defined. | Specify which BSS\_COLOR is defined for which BSS/AP and add definition for BSS\_COLOR\_2 in TXVECTOR. | **Revised**  **Discussion:**  Table 38-1 (TXVECTOR and RXVECTOR parameters) with requested parameters defined is proposed in this document as resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 3304 in this document. |

***TGbn editor: Please implement the following modification to subclause 38.2.2 (TXVECTOR and RXVECTOR parameters) to 11bn D0.2 as part of resolution to CID #1616/3227/2050/315/1760/3304:***

### 38.2.2 TXVECTOR and RXVECTOR parameters

The parameters in [Table 38-1 (TXVECTOR and RXVECTOR parameters)](#_bookmark4) are defined as part of the TXVECTOR parameter list in the PHY-TXSTART.request primitive for PPDU transmitting and/or as part of the RXVECTOR parameter list in the PHY-RXSTART.indication and PHY-RXEND.indication primitives for PPDU receiving. A UHR STA may receive a PPDU that contains the L-STF, L-LTF, L-SIG, RL-SIG, and U-SIG fields, but has a PHY Version Identifier field in the U-SIG field other than 0 or 1. In such cases, for forward compatibility, it shall still report the information from the version independent fields in the U-SIG field within the RXVECTOR. A value of PHY\_VER\_UNKNOWN is defined in the RXVECTOR parameter FORMAT to indicate such a PPDU format. When the RXVECTOR parameter FORMAT is PHY\_VER\_UNKNOWN, the RXVECTOR contains only six parameters – FORMAT, RSSI\_LEGACY, CH\_BANDWIDTH, TXOP\_DURATION, BSS\_COLOR, and UPLINK\_FLAG.

**Table 38-1—TXVECTOR and RXVECTOR parameters**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameter** | **Condition** | **Value** | **TXVECTOR** | **RXVECTOR** |
| FORMAT |  | Determines the format of the PPDU. Enumerated type:  NON\_HT indicates Clause 15, Clause 16, Clause 17, Clause 18, or non-HT duplicate PPDU format. In this case, the modulation is determined by the NON\_HT\_MODULA- TION parameter defined in Table 19-1 (TXVECTOR and RXVECTOR parameters).  HT\_MF indicates HT-mixed format. HT\_GF indicates HT-greenfield format. VHT indicates VHT format.  HE\_SU indicates HE SU PPDU format. HE\_MU indicates HE MU PPDU format. HE\_ER\_SU indicates HE ER SU PPDU format. HE\_TB indicates HE TB PPDU format.  EHT\_MU indicates EHT MU PPDU format. EHT\_TB indicates EHT TB PPDU format.  UHR\_MU indicates UHR MU PPDU format.  UHR\_TB indicates UHR TB PPDU format.  UHR\_ELR indicates UHR ELR PPDU format.  PHY\_VER\_UNKNOWN indicates a PPDU format that contains the L-STF, L-LTF, L-SIG, RL-SIG and U-SIG fields, and has the PHY Version Identifier field in the U- SIG field set to a Validate value. Refer to [Table 38-18 (U-](#_bookmark102) [SIG field of a UHR MU PPDU)](#_bookmark102), [Table 38-20 (U-SIG](#_bookmark105) [field of a UHR TB PPDU)](#_bookmark105) and Table 38-21 (U-SIG field of a UHR ELR PPDU).  The enumerated type PHY\_VER\_UNKNOWN is not used in the TXVECTOR. | Y | Y |
| PPDU\_TYPE | FORMAT is UHR\_MU and UPLINK\_FLAG is 0 | Set to 0 to indicate a DL OFDMA transmission (including non-MU-MIMO and MU-MIMO).  Set to 1 to indicate a UHR SU transmission not addressed to an AP or a DL SU Co-SR transmission.  Set to 2 to indicate a DL non-OFDMA MU-MIMO transmission or a DL non-OFDMA Co-BF transmission.  Other values are reserved. | Y | Y |
| FORMAT is UHR\_MU and UPLINK\_FLAG is 1 | Set to 1 to indicate a UHR SU transmission addressed to an AP.  Other values are reserved. | Y | Y |
| FORMAT is UHR\_ELR | Set to 3 to indicate a UHR ELR PPDU.  Other values are reserved. | O | O |
| FORMAT is UHR\_TB | Set to 0. | O | O |
| Otherwise | See corresponding entry in Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| L\_LENGTH | FORMAT is UHR\_MU or UHR\_ELR | Not present.  NOTE—The LENGTH field of the L-SIG field for UHR MU or UHR ELR PPDU is defined in [Equation (38-6)](#_bookmark96) using the TXTIME value defined in [38.4.3 (TXTIME and PSDU\_LENGTH](#_bookmark331) [calculation)](#_bookmark331), which in turn depend on other parameters including the TXVECTOR parameter APEP\_LENGTH. | N | N |
| FORMAT is UHR\_TB | Indicates the value used to calculate the LENGTH field of the L-SIG field. See [38.3.15.5 (L-SIG)](#_bookmark95) for details.  The value of this parameter comes from the triggering frame to which the UHR TB PPDU is the response (see 9.3.1.22.2 (Common Info field) for details). | Y | N |
| Otherwise | See corresponding entry in Table 19-1 (TXVECTOR and RXVECTOR parameters), Table 21-1 (TXVECTOR and RXVECTOR parameters), Table 27-1 (TXVECTOR and RXVECTOR parameters), or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| N\_TX | FORMAT is UHR\_MU, UHR\_ELR, or UHR\_TB | Indicates the number of transmit chains. | Y | N |
| Otherwise | See corresponding entry in Table 21-1 (TXVECTOR and RXVECTOR parameters), Table 27-1 (TXVECTOR and RXVECTOR parameters), or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| EXPANSION\_MAT | FORMAT is UHR\_MU or UHR\_ELR, and APEP\_LENGTH > 0 | For each user, contains a vector in the number of all the subcarriers in an RU that is assigned to this user. The vector for each subcarrier contains feedback matrices as defined in [36.3.17.2 (EHT beamforming feedback matrix V)](#_bookmark273) based on the channel measured during the training symbols of previous EHT sounding NDPs, HE sounding NDPs or VHT NDPs. | MU | N |
| FORMAT is UHR\_TB | Contains a vector in the number of all the subcarriers in an RU that is assigned to this user. The vector for each subcarrier contains feedback matrices as defined in [36.3.17.2](#_bookmark273) [(ETH beamforming feedback matrix V)](#_bookmark273) based on the channel measured during the training symbols of previous EHT sounding NDPs, HE sounding NDPs or VHT NDPs. | O | N |
| Otherwise | See corresponding entry in Table 21-1 (TXVECTOR and RXVECTOR parameters), Table 27-1 (TXVECTOR and RXVECTOR parameters), or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
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| NO\_SIG\_EXTN | FORMAT is UHR\_MU, UHR\_ELR, or UHR\_TB | Indicates whether signal extension needs to be applied at the end of transmission.  Boolean:  *true* indicates that no signal extension is present. *false* indicates that a signal extension is present. | Y | N |
| Otherwise | See corresponding entry in Table 21-1 (TXVECTOR and RXVECTOR parameters), Table 27-1 (TXVECTOR and RXVECTOR parameters), or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| GI\_TYPE | FORMAT is UHR\_MU, UHR\_ELR, or UHR\_TB | Indicates the length of the GI for the UHR-LTF and Data fields. Enumerated type:  0u8s\_GI indicates 0.8 µs. 1u6s\_GI indicates 1.6 µs. 3u2s\_GI indicates 3.2 µs.  NOTE—The length of GI for pre-UHR modulated fields is  0.8 µs | Y | Y |
| Otherwise | See corresponding entry in Table 21-1 (TXVECTOR and RXVECTOR parameters), Table 27-1 (TXVECTOR and RXVECTOR parameters), or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| FEC\_CODING | FORMAT is UHR\_MU, UHR\_ELR, or UHR\_TB | Indicates the FEC encoding used. Enumerated type:  BCC\_CODING indicates BCC coding. LDPC\_CODING indicates LDPC coding. | MU | MU |
| Otherwise | See corresponding entry in Table 21-1 (TXVECTOR and RXVECTOR parameters), Table 27-1 (TXVECTOR and RXVECTOR parameters), or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| LDPC\_EXTRA\_SYMBOL | FORMAT is UHR\_MU, UHR\_ELR, or UHR\_TB | Indicates the presence of the LDPC extra symbol segment.  Integer:  1 indicates that an LDPC extra symbol segment is present. 0 indicates that an LDPC extra symbol segment is not present. | Y | N |
| Otherwise | See corresponding entry in Table 27-1 (TXVECTOR and RXVECTOR parameters), or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| TXPWR\_LEVEL\_INDEX | FORMAT is UHR\_MU, UHR\_ELR, or UHR\_TB | The allowed values for the TXPWR\_LEVEL\_INDEX parameter are in the range 1 to *N*/2, where *N* is the number of octets in dot11TxPowerLevelExtended. This parameter is used to indicate which of the available transmit power levels defined in dot11TxPowerLevelExtended shall be used for the current transmission. | Y | N |
| Otherwise | See corresponding entry in Table 21-1 (TXVECTOR and RXVECTOR parameters), Table 27-1 (TXVECTOR and RXVECTOR parameters), or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| RSSI | FORMAT is UHR\_MU, UHR\_ELR, or UHR\_TB | The allowed values for the RSSI parameter are in the range 0 to 255 inclusive. This parameter is a measurement by the PHY of the power observed at the antennas used to receive the current PPDU measured during the reception of the UHR-LTF field. RSSI is intended to be used in a relative manner, and it is a monotonically increasing function of the received power. | N | Y |
| Otherwise | See corresponding entry in Table 21-1 (TXVECTOR and RXVECTOR parameters), Table 27-1 (TXVECTOR and RXVECTOR parameters), or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| RSSI\_LEGACY | FORMAT is UHR\_MU, UHR\_ELR, or UHR\_TB | The allowed values for the RSSI\_LEGACY parameter are in the range 0 to 255 inclusive. This parameter is a measurement by the PHY of the power observed at the antennas used to receive the current PPDU measured during the reception of non-UHR portion of the UHR PPDU preamble.  RSSI\_LEGACY is intended to be used in a relative manner, and it is a monotonically increasing function of the received power. | N | Y |
| Otherwise | See corresponding entry in Table 27-1 (TXVECTOR and RXVECTOR parameters), or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| MCS | FORMAT is UHR\_MU, UHR\_ELR, or UHR\_TB | Indicates the modulation and coding schemes used in the transmission of the Data field of the PPDU.  Integer: range 0 to 31.  NOTE 1 – the values other than 0-13, 15, 17, 19, 20, and 23 are reserved.  NOTE 2 – for UHR\_ELR, the value 0 and 1 are allowed and the rest values are reserved. | MU | MU |
| Otherwise | See corresponding entry in Table 19-1 (TXVECTOR and RXVECTOR parameters), Table 21-1 (TXVECTOR and RXVECTOR parameters), Table 27-1 (TXVECTOR and RXVECTOR parameters), or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| MCS\_UHR\_SIG | FORMAT is UHR\_MU | Indicates the modulation and coding scheme used for the UHR\_SIG field.  Integer:   1. indicates UHR-MCS 0. 2. indicates UHR-MCS 1. 3. indicates UHR-MCS 3. | Y | N |
| Otherwise | Not present. | | |
| CH\_BANDWIDTH | FORMAT is UHR\_MU, UHR\_ELR, or UHR\_TB | Indicates the channel width of the PPDU. Enumerated type:  CBW20 for 20 MHz. CBW40 for 40 MHz. CBW80 for 80 MHz. CBW160 for 160 MHz. CBW320-1 for 320 MHz-1. CBW320-2 for 320 MHz-2.  Note, CBW20 is the only valid value for UHR\_ELR. | Y | Y |
| Otherwise | See corresponding entry in Table 19-1 (TXVECTOR and RXVECTOR parameters), Table 21-1 (TXVECTOR and RXVECTOR parameters), Table 27-1 (TXVECTOR and RXVECTOR parameters), or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| INACTIVE\_SUBCHANNELS | FORMAT is UHR\_MU, or UHR\_ELR, or UHR\_TB, or  FORMAT is NON\_HT and NON\_HT\_MODULATION is NON\_HT\_DUP\_  OFDM | Indicates the 20 MHz subchannels that are punctured.  A bitmap indexed by the 20 MHz subchannels in ascending order with the LSB indicating the lowest frequency 20 MHz subchannel. A bit is set to 1 to indicate that the corresponding 20 MHz subchannel is punctured and set to 0 to indicate the corresponding 20 MHz subchannel is not punctured.  See 37.11.5 (INACTIVE\_SUBCHANNELS) for details. | Y | N |
| Otherwise | See corresponding entry in Table 27-1 (TXVECTOR and RXVECTOR parameters) or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| APEP\_LENGTH | FORMAT is UHR\_MU, UHR\_ELR, or UHR\_TB | indicates the number of octets in the A-MPDU pre-EOF padding (see [Table 38-70 (UHR PHY characteristics)](#_bookmark345)) that is carried in the PSDU.  Integer range: 0 to aPSDUMaxLength. | MU | N |
| Otherwise | See corresponding entry in Table 21-1 (TXVECTOR and RXVECTOR parameters), Table 27-1 (TXVECTOR and RXVECTOR parameters), or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| PSDU\_LENGTH | FORMAT is UHR\_MU, UHR\_ELR, or UHR\_TB | Indicates the number of octets in the PSDU in the range 0 to aPSDUMaxLength octets (see [Table 38-70 (UHR PHY](#_bookmark345) [characteristics)](#_bookmark345)). | N | Y |
| Otherwise | See corresponding entry in Table 21-1 (TXVECTOR and RXVECTOR parameters), Table 27-1 (TXVECTOR and RXVECTOR parameters), or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| NUM\_STS | FORMAT is UHR\_MU | Indicates the number of spatial streams. Note that the terms “space-time stream” and “spatial stream” are equivalent because STBC is not supported in UHR PPDUs.  Integer in the range  1 to 4 per user in a given MU-MIMO RU or MRU in the TXVECTOR.  1 to 4 in a given MU-MIMO RU or MRU in the RXVECTOR.  1 to 8 in a given RU or MRU assigned to single user in the TXVECTOR and RXVECTOR.  In each RU or MRU, NUM\_STS summed over all users is not greater than 8. | MU | Y |
| FORMAT is UHR\_TB | Indicates the number of spatial streams. Integer in the range:  1 to 4 for an MU-MIMO RU or MRU.  1 to 8 for an RU or MRU assigned to single user.  1 to 2 for a DRU assigned to single user. | Y | N |
| FORMAT is UHR\_ELR | Not present. | | |
| Otherwise | See corresponding entry in Table 21-1 (TXVECTOR and RXVECTOR parameters), Table 27-1 (TXVECTOR and RXVECTOR parameters), or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| TXOP\_DURATION | FORMAT is UHR\_MU, UHR\_ELR, or UHR\_TB | Indicates the TXOP duration. Enumerated type or integer:  UNSPECIFIED indicates no NAV value specified. 0–8448 indicates a value in units of 1 µs that is used to update the NAV for this TXOP (see 26.2.4 (Updating two NAVs)).  The TXOP subfield in U-SIG is computed from the TXVECTOR parameter TXOP\_DURATION as follows:  TXOP\_DURATION = UNSPECIFIED: TXOP = 127. TXOP\_DURATION < 512:  TXOP = 2  TXOP\_DURATION  8  Otherwise:  TXOP = 2  TXOP\_DURATION–512  128 + 1 .  The RXVECTOR parameter TXOP\_DURATION is computed from the value of the TXOP subfield in U-SIG as follows:  TXOP = 127: TXOP\_DURATION = UNSPECIFIED.  TXOP is an even number: TXOP\_DURATION = 8  TXOP/2.  Otherwise: TXOP\_DURATION = 512 + 128  (TXOP – 1)/2. | Y | Y |
| Otherwise | See corresponding entry in Table 27-1 (TXVECTOR and RXVECTOR parameters) or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| SPATIAL\_REUSE | FORMAT is UHR\_MU | Indicates the spatial reuse parameter value. | Y | Y |
| FORMAT is UHR\_TB | Indicates the spatial reuse parameter value. | Y | Y |
| FORMAT is UHR\_ELR | Not present. | N | N |
| Otherwise | See corresponding entry in Table 27-1 (TXVECTOR and RXVECTOR parameters) or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| RU\_ALLOCATION | FORMAT is UHR\_MU and PPDU\_TYPE is equal to 0 | For the TXVECTOR, indicates the 9-bit RU Allocation-A and RU Allocation-B (if present) subfields in the Common field for a DL OFDMA transmission.  9 bits for a 20 MHz PPDU; 18 bits for a 40 MHz PPDU; 36 bits for an 80 MHz PPDU;  72 bits for every 80 MHz frequency subblock of a 160 MHz PPDU;  144 bits for every 80 MHz frequency subblock of a 320 MHz PPDU.  See [38.3.15.9.3 (Common field for OFDMA transmission)](#_bookmark120) for details.  For the RXVECTOR, 9 bits are used to indicate the RU allocated to the user in the whole band using the same encoding of PS160 (B39) and RU Allocation (B12–B19) subfields in the UHR variant User Info field of a Trigger frame. See 9.3.1.22 (Trigger frame format) for details. | Y | Y |
| FORMAT is UHR\_MU and PPDU\_TYPE is not equal to 0, or FORMAT is UHR\_ELR, | Not present. | | |
| FORMAT is UHR\_TB | 9 bits are used to indicate the RU allocated to the user in the whole band using the same encoding of PS160 (B39) and RU Allocation (B12–B19) subfields in the UHR variant User Info field of a Trigger frame.  See 9.3.1.22 (Trigger frame format) for details. | Y | N |
| FORMAT is NON\_HT, NON\_HT\_MODULATION is  NON\_HT\_DUP\_OFDM, and CH\_BANDWIDTH is not CBW20 or CBW40 | For the TXVECTOR, indicates the active RU(s).  36 bits for an 80 MHz PPDU; 72 bits for a 160 MHz PPDU; 144 bits for a 320 MHz PPDU.  For each 9 bits, only the following values are allowed: 26 (000011010 in binary representation)  64 (001000000 in binary representation)  See [38.3.15.9.3 (Common field for OFDMA transmission)](#_bookmark120) and  [38.3.18 (Non-HT duplicate transmission)](#_bookmark264) for details. | O | N |
| Otherwise | See corresponding entry in Table 27-1 (TXVECTOR and RXVECTOR parameters) or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| BEAMFORMED | FORMAT is UHR\_MU or UHR\_ELR, and UEQM equals to 0 | For an RU or MRU with a single user allocated, set to 1 if a beamforming steering matrix is applied to this non-MU MIMO allocation and set to 0 otherwise. | Y | O |
| FORMAT is UHR\_MU or UHR\_ELR, and UEQM equals to 1 | Not present | Y | O |
| FORMAT is UHR\_TB | For an RU or MRU with a single user allocated, set to 1 if a beamforming steering matrix is applied to this non-MU MIMO allocation and set to 0 otherwise. | Y | O |
| Otherwise | See corresponding entry in Table 21-1 (TXVECTOR and RXVECTOR parameters), Table 27-1 (TXVECTOR and RXVECTOR parameters), or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
|  |  |  |  |  |
| UHR\_LTF\_TYPE | FORMAT is UHR\_MU | Indicates the type of UHR-LTF. Enumerated type:  2UHR-LTF indicates a 2 UHR-LTF.  4UHR-LTF indicates a 4 UHR-LTF.  See [38.3.15.11 (UHR-LTF)](#_bookmark156) and Table 38-35 (UHR-LTF type and GI duration combinations for various UHR PPDU formats). | Y | Y |
| FORMAT is UHR\_TB | Indicates the type of UHR-LTF. Enumerated type:  1UHR-LTF indicates a 1 UHR-LTF.  2UHR-LTF indicates a 2 UHR-LTF.  4UHR-LTF indicates a 4 UHR-LTF.  See [38.3.15.11 (UHR-LTF)](#_bookmark156) and Table 38-35 (UHR-LTF type and GI duration combinations for various UHR PPDU formats). | Y | O |
| Otherwise | Not present. | | |
| NUM\_UHR\_LTF | FORMAT is UHR\_MU or UHR\_TB | Indicates the number of OFDM symbols in the UHR-LTF field. Integer in the range 1 to 8.  See [Table 38-23 (Common field for OFDMA transmission)](#_bookmark121), [Table 38-25 (Common field for a UHR SU transmission and](#_bookmark125) [non-OFDMA transmission to multiple users)](#_bookmark125), and [38.3.12.10](#_bookmark156) [(UHR-LTF)](#_bookmark156). | Y | N |
| Otherwise | Not present. | | |
| STARTING\_STS\_NUM | FORMAT is UHR\_TB | Set to the starting spatial stream number minus 1 (spatial streams in a given PPDU transmission are numbered starting from 1) | Y | N |
| FORMAT is UHR\_MU or UHR\_ELR | Not present. | | |
| Otherwise | See corresponding entry in Table 27-1 (TXVECTOR and RXVECTOR parameters) or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| NOMINAL\_ PACKET\_PADDING | FORMAT is UHR\_MU or UHR\_ELR | Indicates the nominal packing padding duration as defined in 37.6 (Nominal packet padding values selection rules).  Enumerated type: 0\_us for 0 µs; 8\_us for 8 µs; 16\_us for 16 µs; 20\_us for 20 µs. | MU | N |
| FORMAT is UHR\_TB | Not present. | | |
| Otherwise | See corresponding entry in Table 27-1 (TXVECTOR and RXVECTOR parameters) or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| TRIGGER\_METHOD | FORMAT is UHR\_TB | Indicates the method used to trigger this UHR TB PPDU transmission.  Enumerated type:  TRIGGER\_FRAME for Trigger frame. TRS for TRS Control subfield. | Y | N |
| FORMAT is UHR\_MU or UHR\_ELR | Not present. | | |
| Otherwise | See corresponding entry in Table 27-1 (TXVECTOR and RXVECTOR parameters) or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| DEFAULT\_PE\_ DURATION | FORMAT is UHR\_TB | When TRIGGER\_METHOD is TRS, indicates the duration of the PE field to be transmitted.  Enumerated type: 0\_us for 0 µs; 4\_us for 4 µs; 8\_us for 8 µs; 12\_us for 12 µs; 16\_us for 16 µs; 20\_us for 20 µs. | Y | N |
| FORMAT is UHR\_MU or UHR\_ELR | Not present. | | |
| Otherwise | See corresponding entry in Table 27-1 (TXVECTOR and RXVECTOR parameters) or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| BSS\_COLOR | FORMAT is UHR\_MU, UHR\_ELR, or UHR\_TB | Set to a value in the range 0 to 63 (see 37.y (BSS\_COLOR)). | Y | Y |
| FORMAT is PHY\_VER\_UNKNOWN | A value in the range 0 to 63 (see 37.y (BSS\_COLOR)). | N | Y |
| Otherwise | See corresponding entry in Table 27-1 (TXVECTOR and RXVECTOR parameters) or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| BSS\_COLOR\_2 | FORMAT is UHR\_MU, the UPLINK\_FLAG equals to 0, and the PPDU\_TYPE equals to 1 or 2 | Set to a value in the range 0 to 63 (see 37.y (BSS\_COLOR)) to indicate the BSS color of the second coordinated BSS in a Co-BF/Co-SR transmission. | Y | Y |
| Otherwise | Not present |  |  |
| COSR\_FLAG | FORMAT is UHR\_MU, the UPLINK\_FLAG equals to 0, and the PPDU\_TYPE equals to 1 | Indicate whether a UHR SU transmission has Co-SR enabled or not.  Set to 0 to indicate Co-SR disabled.  Set to 1 to indicate Co-SR enabled. | Y | Y |
| Otherwise | Not present | | |
| COBF\_FLAG | FORMAT is UHR\_MU, the UPLINK\_FLAG equals to 0, and the PPDU\_TYPE equals to 2 | Indicate whether current PPDU is carried in a DL non-OFDMA MU-MIMO or a DL non-OFDMA Co-BF transmission.  Set to 0 to indicate DL non-OFDMA MU-MIMO transmission.  Set to 1 to indicate DL non-OFDMA Co-BF transmission. | Y | Y |
| Otherwise | Not present | | |
| UPLINK\_FLAG | FORMAT is UHR\_MU or UHR\_ELR | Set to 1 to indicate the PPDU is addressed to an AP.  Set to 0 otherwise. | Y | Y |
| FORMAT is PHY\_VER\_UNKNOWN | A value of 1 indicates the PPDU is addressed to an AP.  A value of 0 indicates the PPDU is addressed to a non-AP STA. | N | Y |
| FORMAT is UHR\_TB | Not present. | | |
| Otherwise | See corresponding entry in Table 27-1 (TXVECTOR and RXVECTOR parameters) or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| STA\_ID | FORMAT is UHR\_MU or UHR\_ELR | Indicates the list of STA-IDs for a UHR MU PPDU (see  37.z (STA\_ID)). | MU | Y |
| FORMAT is UHR\_TB or PHY\_VER\_UNKNOWN | Not present. | | |
| Otherwise | See corresponding entry in Table 27-1 (TXVECTOR and RXVECTOR parameters) or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| UHR\_PRE\_FEC\_ PADDING\_FACTOR | FORMAT is UHR\_TB | When TRIGGER\_METHOD is TRIGGER\_FRAME,  indicates the pre-FEC padding factor used by the UHR TB PPDU transmission.  Integer in the range 0 to 3   1. for a pre-FEC padding factor of 4; 2. for a pre-FEC padding factor of 1; 3. for a pre-FEC padding factor of 2; 4. for a pre-FEC padding factor of 3;   Otherwise, not present. | Y | N |
| Otherwise | Not present. | | |
| UHR\_TB\_PE\_ DISAMBIGUITY | FORMAT is UHR\_TB, and TRIGGER\_METHOD is TRIGGER\_FRAME | Indicates PE disambiguity for the UHR TB PPDU transmission.  Set to 0 to indicate no PE disambiguity Set to 1 to indicate PE disambiguity | Y | N |
| Otherwise | Not present. | | |
| TB\_DISREGARD\_ IN\_USIG1 | FORMAT is UHR\_TB | Indicates the values to be set for the Disregard field in U-SIG- 1.  See 37.z (Allowed settings of the Trigger frame fields and TRS Control subfield). | Y | N |
| FORMAT is UHR\_MU or UHR\_ELR | Not present. | N | N |
| Otherwise | See corresponding entry in Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| NUM\_UHR\_SIG\_SYMBOL | FORMAT is UHR\_MU | Indicates the number of UHR-SIG symbols (see sub-clause 38.3.15.9 (UHR-SIG)). | Y | N |
| Otherwise | Not present | | |
| TB\_VALIDATE\_ IN\_USIG2 | FORMAT is UHR\_TB | Indicates the values to be set for the Validate field in U-SIG-2.  See [38.3.12.7.2 (Content)](#_bookmark101). | Y | N |
| FORMAT is UHR\_MU or UHR\_ELR | Not present. | N | N |
| Otherwise | See corresponding entry in Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| TB\_DISREGARD\_ IN\_USIG2 | FORMAT is UHR\_TB | Indicates the values to be set for the Disregard field in U-SIG- 2.  See 37.5.2.2.4 (Allowed settings of the Trigger frame fields and TRS Control subfield). | Y | N |
| FORMAT is UHR\_MU or UHR\_ELR | Not present. | N | N |
| Otherwise | See corresponding entry in Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| POWER\_BOOST  \_FACTOR | FORMAT is UHR\_MU | For an RU, set the power boost factor of the occupied RU according to the rules in 37.19a.1 (POWER\_BOOST\_FACTOR). | MR | N |
| FORMAT is UHR\_TB or UHR\_ELR | Not present. | N | N |
| Otherwise | See corresponding entry in Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| SCRAMBLER\_ INITIAL\_VALUE | FORMAT is UHR\_MU or UHR\_ELR | Indicates the first 11 bits of the scrambling sequence (the eleven LSB bits of the Scrambler Initialization field prior to descrambling), with the first bit of the scrambling sequence being the LSB of SCRAMBLER\_INITIAL\_VALUE. | N | Y |
| FORMAT is UHR\_TB or PHY\_VER\_UNKNOWN | Not present. | | |
| Otherwise | See corresponding entry in Table 27-1 (TXVECTOR and RXVECTOR parameters) or Table 36-1 (TXVECTOR and RXVECTOR parameters). | | |
| UEQM | FORMAT is UHR\_MU | Indicates whether EQM or UEQM is used.  Set to 0 to indicate EQM is used;  Set to 1 to indicate UEQM is used. | MU | Y |
| Otherwise | Not present. | | |
|  |  |  | | |
|  |  |  | | |
| UEQM\_PATTERN | FORMAT is UHR\_MU | Indicates the UEQM pattern bitmap for the number of spatial streams indicated by NUM\_STS.  Integer range: 0-3.  See Table 38-29 (UEQM pattern subfield encoding) for the definition of the UEQM pattern bitmap. | MU | Y |
| Otherwise | Not present. | | |
|  |  | | |
| Further TXVECTOR and RXVECTOR parameters for transmitting or receiving a DSSS, HR/DSSS, OFDM, ERP, HT, VHT, HE or EHT PPDU, as determined by the FORMAT and NON\_HT\_MODULATION parameters, are defined in:   * DSSS PPDU: Table 15-1 (TXVECTOR parameters) and Table 15-2 (RXVECTOR parameters), excepting the LENGTH and DATARATE parameters * HR/DSSS PPDU: Table 16-5 (Parameter vectors), excepting the LENGTH and DATARATE parameters * OFDM PPDU: Table 17-1 (TXVECTOR parameters) and Table 17-2 (RXVECTOR parameters), excepting the LENGTH and DATARATE parameters * ERP PPDU: Table 18-1 (TXVECTOR parameters) and Table 18-3 (RXVECTOR parameters), excepting the LENGTH and DATARATE parameters * HT PPDU: Table 19-1 (TXVECTOR and RXVECTOR parameters) * VHT PPDU: Table 21-1 (TXVECTOR and RXVECTOR parameters) * HE PPDU: Table 27-1 (TXVECTOR and RXVECTOR parameters) * EHT PPDU: Table 36-1 (TXVECTOR and RXVECTOR parameters) | | | | |
| NOTE—In the “TXVECTOR” and “RXVECTOR” columns, the following apply:  Y = Present; N = Not present; O = Optional;  MU is only present in the TXVECTOR column for a UHR MU PPDU and indicates that the TXVECTOR parameter is present per user. Parameters specified to be present per user are conceptually supplied as an array of values indexed by *u*, where *u* takes values 0 to the number of users minus 1.  MR is only present in the TXVECTOR column for a UHR MU PPDU and indicates that the TXVECTOR parameter is present per RU. Parameters specified to be present per RU are conceptually supplied as an array of values indexed by *r*, where *r* takes values 0 to the number of RU minus 1. | | | | |

***---------------------------- End of resolutions for 38.2.2 -----------------------------------***

***Comments for sub-clause 38.2.3: 13 comments***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Pg/Ln** | **Clause** | **Comment** | **Proposed Changed** | **Resolution** |
| 139 | 90.31 | 38.2.3 | should be assigned 'RU or MRU' | should be assigned 'RU or MRU' | **Revised**  **Discussion:**  Agree on the comment. A proposed change with minor editorial difference serves as resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 139 in this document. |
| 1106 | 90.31 | 38.2.3 | Either RRU or DRU can be applied for TB PPDU. So, please change "assigned RU" with " assigned RRU or DRU" | As the comment. | **Revised**  **Discussion:**  Agree on the comment. A proposed change with minor editorial difference serves as resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 1106 in this document. |
| 2737 | 90.31 | 38.2.3 | "RU" | "RU or MRU or DRU" | **Revised**  **Discussion:**  Agree on the comment. A proposed change with minor editorial difference serves as resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID2737 in this document. |
| 2738 | 90.31 | 38.2.3 | "38-2" | "38-1" | **Revised**  **Discussion:**  The issue is caused by the missing of Table 38-1 (TXVECTOR and RXVECTOR parameters). By adding Table 38-1 as resolutions to other CIDs, this issue will be resolved consequently.  **Instruction to TGbn Editor:**  No further modification is needed. |
| 1107 | 90.39 | 38.2.3 | TRIGVECTOR parameters for receiving an HE TB PPDU are defined in 27.2.3 TRIGVECTOR parameters | the text should be changed with the below " HE TB PPDU : Table 27-2--TRIGVECTOR parameters " | **Revised**  **Discussion:**  Agree on the comment. A proposed change with minor editorial difference serves as resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID1107 in this document. |
| 2049 | 90.39 | 38.2.3 | Table27-2 doesn't include TRIGVECTOR parameters for EHT. | Change to "Table 36-2" | **Rejected**  **Reason:**  The reference to EHT is described in the following paragraph. So the commented issue doesn’t exist. |
| 3483 | 91.05 | 38.2.3 | Table 38-1 "TRIGVECTOR parameters" does not include new UHR-variant features signaled in the trigger frame such as DRU/RRU Indication and 2xLDPC | Include entries corresponding to "DRU/RRU Indication" and "2xLDPC" in Table 38-1 "TRIGVECTOR parameters". | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to D0.2 serves as a resolution to this CID as in this document.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID3483 in this document. |
| 2238 | 91.09 | 38.2.3 | New parameters need to be added to Tabel 38-1 TRIGVECTOR parameters for UL TB PPDU, such as DRU/RRU indication, Distribution\_BW, 2x LDPC | As in comment | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to D0.2 serves as a resolution to this CID as in this document.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID2238 in this document. |
| 3342 | 91.18 | 38.2.3 | Add indent to the paragraph. | Refer to the comment. | **Accepted** |
| 3296 | 91.29 | 38.2.3 | Change "1.UHR-LTF + 1.6 s GI" to "1xUHR-LTF + 1.6 s GI." | as in comment. Similar for 2x and 4x cases. Same for page 162 ln 30 and page 170 line 30. | **Rejected**  **Reason:**  The addressed text is well described in D0.1. So the commented issue is not identified. |
| 1108 | 91.33 | 38.2.3 | EHT PPDU should be replaced with EHT TB PPDU. | As the comment. | **Rejected**  **Reason:**  The addressed text is well described in D0.1. So the commented issue is not identified. |
| 3750 | 91.33 | 38.2.3 | For TB PPDU using DRU, having additional LTFs (i.e. more than necessary for the number of spatial streams transmitted) may be necessary due to the reduced effectiveness of channel smoothing when DRUs are very sparse. Instead of averaging between adjacent tones, the AP can average using the additional LTFs. | Some descriptions regarding use of additinal LTFs by the AP as a function of DRU sparseness. | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to D0.2 serves as a resolution to this CID as in this document.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID3750 in this document. |
| 3343 | 91.43 | 38.2.3 | Break the paragraph into two paragraphs, each with one sentence. | Refer to the comment. | **Accepted** |
| 1371 | 92.13 | 38.2.2 | The FEC\_CODING type is jointly determined by the FEC coding type subfield and the 2xLDPC subfeild as defined in the UHR variant user info field | change "Each entry of FEC\_CODING\_LIST indicates the coding type of the corresponding UHR TB PPDU from a UHR STA. See the UL FEC Coding Type subfield description in 9.3.1.22.6 (UHR variant User Info field) for more information of each entry." to " Each entry of FEC\_CODING\_LIST indicates the coding type of the corresponding UHR TB PPDU from a UHR STA. See the UL FEC Coding Type and 2xLDPC subfields description in 9.3.1.22.6 (UHR variant User Info field) for more information of each entry. | **Revised**  **Discussion:**  Agree in principle. While the addressed issue belongs to subclause 38.2.3, instead of 38.2.2.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 1371 in this document. |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

***TGbn editor: Please implement the following modification to subclause 38.2.3 (TRIGVECTOR parameters) to 11bn D0.2 as part of resolution to CID #139/1106/1371/2737/1107/1108/2049/2238/3483/3750:***

### 38.2.3 TXIGVECTOR parameters

The TRIGVECTOR is carried in a PHY-TRIGGER.request primitive and provides the PHY of the AP with the parameters needed to receive a TB PPDU over each assigned RU, MRU or DRU.*[CID #139/1106/2737]* The parameters in [Table 38-2 (TRIGVECTOR parameters)](#_bookmark5) are defined as part of the TRIGVECTOR parameter list in the PHY-TRIGGER.request primitive for receiving an UHR TB PPDU.

Further TRIGVECTOR parameters for receiving an HE or EHT TB PPDU, as determined by the FORMAT and NON\_HT\_MODULATION parameters, are defined in:

* HE TB PPDU*[CID #1107]*: Table 27-2 (~~TXVECTOR and RXVECTOR parameters~~TRIGVECTOR parameters) *[CID #2049]*
* EHT TB PPDU*[CID #1108]*: Table 36-2 (TRIGVECTOR parameters)

**Table 38-2—TRIGVECTOR parameters**

|  |  |
| --- | --- |
| **Parameter** | **Value** |
| CH\_BANDWIDTH | Indicates the bandwidth in the U-SIG of the expected UHR TB PPDU(s). Enumerated type:  CBW20 for 20 MHz. CBW40 for 40 MHz. CBW80 for 80 MHz. CBW160 for 160 MHz.  CBW320-1 for 320 MHz, corresponding to 320 MHz-1 defined in  [38.3.24.2 (Channelization for 320 MHz channel)](#_bookmark328).  CBW320-2 for 320 MHz, corresponding to 320 MHz-2 defined in  [38.3.24.2 (Channelization for 320 MHz channel)](#_bookmark328). |
| UL\_LENGTH | Indicates the value of the L-SIG LENGTH field of the expected UHR TB PPDU(s).  NOTE—The UL\_LENGTH in TRIGVECTOR is equal to the value of the UL LENGTH subfield in a Trigger frame plus 2. |
| GI\_AND\_UHR\_LTF\_TYPE | Indicates the UHR-LTF type and GI duration combination of the expected UHR TB PPDU(s).  Enumerated type:  1UHR-LTF + 1.6 µs GI.  2UHR-LTF + 1.6 µs GI.  4UHR-LTF + 3.2 µs GI. |
| NUM\_UHR\_LTF\_SYMBOLS | Indicates the number of OFDM symbols present in the UHR-LTF field of the expected UHR TB PPDU(s).  Set to 0 for 1 OFDM symbol. Set to 1 for 2 OFDM symbols. Set to 2 for 4 OFDM symbols. Set to 3 for 6 OFDM symbols. Set to 4 for 8 OFDM symbols. |
| LDPC\_EXTRA\_SYMBOL | Indicates the status of the LDPC extra symbol segment in the expected UHR TB PPDU(s).  Set to 1 if LDPC extra symbol segment is present. Set to 0 otherwise. |
| PRE\_FEC\_PADDING\_FACTOR | Indicates the pre-FEC padding factor for the expected UHR TB PPDU. Value range:  Set to 0 to indicate a pre-FEC padding factor of 4. Set to 1 to indicate a pre-FEC padding factor of 1. Set to 2 to indicate a pre-FEC padding factor of 2. Set to 3 to indicate a pre-FEC padding factor of 3. |
| PE\_DISAMBIGUITY | Indicates the PE disambiguity of the expected UHR TB PPDU. Value range:  Set to 0 to indicate no PE disambiguity. Set to 1 to indicate PE disambiguity. |
| AID12\_LIST | Each entry of AID12\_LIST is (12-bit) AID of the corresponding UHR TB PPDU.  See the AID12 subfield description in 9.3.1.23.5 (UHR variant User Info field) and Table 9-46i (AID12 subfield encoding) for more information of each entry. |
| RU\_ALLOCATION\_LIST | 9 bits are used per STA to indicate the RU allocated in the whole bandwidth using the same encoding of PS160 (B39) and RU Allocation (B12–B19) subfields in the UHR variant User Info field of a Trigger frame. See the RU Allocation subfield description in 9.3.1.23.5 (UHR variant User Info field) for more information of each entry. |
| FEC\_CODING\_LIST | Each entry of FEC\_CODING\_LIST indicates the coding type of the corresponding UHR TB PPDU from an UHR STA. See the UL FEC Coding Type and 2xLDPC subfield *[CID #1371]*description in 9.3.1.23.5 (UHR variant User Info field) for more information of each entry. |
| UHR\_MCS\_LIST | Each entry of UHR\_MCS\_LIST indicates the UHR-MCS of the corresponding UHR TB PPDU from an UHR STA. See the UL UHR-MCS subfield description in 9.3.1.23.5 (UHR variant User Info field) for more information of each entry. |
| SS\_ALLOCATION\_LIST | Each entry of SS\_ALLOCATION\_LIST indicates the spatial streams of the corresponding UHR TB PPDU from an UHR STA. See the SS Allocation subfield description in 9.3.1.23.5 (UHR variant User Info field) for more information of each entry. |
| DRU\_LIST  *[CID #2238/3483/3750]* | Each entry of DRU\_LIST indicates whether a DRU is used in the expected UHR TB PPDU from a UHR STA.  Value range:  Set to 0 to indicate no DRUs.  Set to 1 to indicate DRU is used. |
| 2X\_LDPC  *[CDI #2238/3483]* | Each entry of 2X\_LDPC indicates whether 2X LDPC is used in the expected UHR TB PPDU from a UHR STA.  Value range:  Set to 0 to indicate no 2X LDPC.  Set to 1 to indicate 2X LDPC is used. |

***--------------------------- End of resolutions for 38.2.3 -----------------------------------***

***Comments for sub-clause 38.2.5 (29 comments) and sub-clause 38.1.1 (related to 38.2.5, 1 comment):***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Pg/Ln** | **Clause** | **Comment** | **Proposed Changed** | **Resolution** |
| 2739 | 93.03 | 38.2.5 | "38-3" | "38-2" | **Revised**  **Discussion:**  The issue is caused by the missing of Table 38-1 (TXVECTOR and RXVECTOR parameters). By adding Table 38-1 as resolutions to other CIDs, this issue will be resolved consequently.  **Instruction to TGbn Editor:**  No further modification is needed. |
| 140 | 93.06 | 38.2.5 | 'Other combinations are reserved.' is duplicated in line 6 and 8. | remove the sentence in line8. | **Accepted** |
| 3228 | 93.06 | 38.2.5 | The sentence of "Other combinations are reserved." appear twice. | Delete either of them. | **Revised**  **Discussion:**  Agree on the comment. Propose to remove line 8 as requested by CID 140 and 2740.  **Instruction to TGbn Editor:**  Remove the 2nd paragraph under sub-clause 38.2.5. |
| 2740 | 93.08 | 38.2.5 | "Other combinations are reserved" delete due to duplication | see comments | **Accepted** |
| 3357 | 93.08 | 38.2.5 | This paragraph is duplicated from the last sentence of the previous paragraph. Remove this paragraph. | Refer to the comment. | **Accepted** |
| 141 | 93.12 | 38.2.5 | ELR should only 20MHz; also the last row of table should add EHT. | please fixed the table 38-2 | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to remove ELR PPDU from entries supporting BWs other than CBW20 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID141 in this document. |
| 292 | 93.12 | 38.2.5 | In Table 38-2: UHR\_ELR is only defined for 20 MHz, it should not be included in rows 3 and higher. | Fix | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to remove ELR PPDU from entries supporting BWs other than CBW20 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID292 in this document. |
| 563 | 93.12 | 38.2.5 | ELR PPDU is not defined in wider than 20 MHz. Delete UHR-ELR for CBW40, CBW80, CBW160 and CBW320-1/2 in Table 38-2. | See the comment. | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to remove ELR PPDU from entries supporting BWs other than CBW20 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID563 in this document. |
| 564 | 93.12 | 38.2.5 | If NPCA is applied, the transmission in not performed in the primary channel so it's not always right that "the transmission shall use the primay 20/40/80/160 MHz channel" in Table 38-2. Modify the text considering NPCA. | See the comment. | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to address the case when NPCA is activated serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 564 in this document. |
| 2051 | 93.18 | 38.2.5 | ELR PPDUs have a fixed bandwidth of 20 MHz. For CBW40/80/160/320-1/320-2, "UHR ELR" should be removed from the Format (1st column of Table 38-2). | For CBW40/80/160/320-1/320-2, "UHR ELR" should be removed from the Format (1st column of Table 38-2). | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to remove ELR PPDU from entries supporting BWs other than CBW20 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2051 in this document. |
| 678 | 93.20 | 38.2.5 | A UHR ELR PPDU is defined only for 20 MHz PPDU bandwidth. Therefore, "UHR\_ELR" format in Table 38-2 should only exist in the first row, i.e., when "CH\_BANDWIDTH" equals to "CBW20". | Remove "UHR\_ELR" format when "CH\_BANDWIDTH" equals to "CBW40", "CBW80","CBW160" and "CBW320" in Table 38-2. Only keep "UHR\_ELR" format when "CH\_BANDWIDTH" equals to "CBW20" in Table 38-2. | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to remove ELR PPDU from entries supporting BWs other than CBW20 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 678 in this document. |
| 1372 | 93.23 | 38.2.2 | UHR ELR PPDU is only transmitted with 20MHz bandwdith, suggest to remove "UHR ELR" in the first column when CH\_BANDWIDTH is equal to CBW40,CBW80, CBW160 and CBW320-1,CBW320-2 | See comment | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to remove ELR PPDU from entries supporting BWs other than CBW20 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 1372 in this document. |
| 924 | 93.24 | 38.2.5 | UHR\_ELR is defined only for 20 MHz. | Remove UHR\_ELR for CBW 40, 80, 160 and 320 | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to remove ELR PPDU from entries supporting BWs other than CBW20 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 924 in this document. |
| 1109 | 93.25 | 38.2.5 | ELR PPDU is defined as a 20MHz PPDU. So, this PPDU does not transmit using 40MHz PPDU | Delete the UHR\_ELR | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to remove ELR PPDU from entries supporting BWs other than CBW20 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 1109 in this document. |
| 2239 | 93.25 | 38.2.5 | In Table 38-2, Format UHR\_ELR should be removed from the rows with CH\_BANDWIDTH CBW40, CBW80, CBW160 and CBW320. | As in comment | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to remove ELR PPDU from entries supporting BWs other than CBW20 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2239 in this document. |
| 2718 | 93.25 | 38.2.5 | In Table 38-2, delete UHR-ELR in rows other than CBW20 | see comments | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to remove ELR PPDU from entries supporting BWs other than CBW20 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2718 in this document. |
| 3358 | 93.25 | 38.2.5 | ELR PPDU is only for 20MHz. Remove UHR\_ELR in the first column. Same comment to P93L29, P93L34, P93L39. | Refer to the comment. | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to remove ELR PPDU from entries supporting BWs other than CBW20 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 3358 in this document. |
| 3484 | 93.25 | 38.2.5 | Table 38-2 includes UHR\_ELR format for CBW40, CBW80, etc. while UHR\_ELR format is only defined for PPDU of 20MHz bandwidth, and UHR\_ELR transmission always uses primary 20 MHz channel if BSS bandwidth is wider than 20MHz. | In Table 38-2 "Interpretation of FORMAT, NON\_HT\_MODULATION, and CH\_BANDWIDTH parameters": - Remove UHR\_ELR under "FORMAT" column for CH\_BANDWIDTH values CBW40, CBW80, CBW160, CBW320-1, CBW320-2. | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to remove ELR PPDU from entries supporting BWs other than CBW20 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 3484 in this document. |
| 1110 | 93.30 | 38.2.5 | ELR PPDU is defined as a 20MHz PPDU. So, this PPDU does not transmit using 80MHz PPDU | Delete the UHR\_ELR | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to remove ELR PPDU from entries supporting BWs other than CBW20 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 1110 in this document. |
| 1111 | 93.34 | 38.2.5 | ELR PPDU is defined as a 20MHz PPDU. So, this PPDU does not transmit using 160MHz PPDU | Delete the UHR\_ELR | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to remove ELR PPDU from entries supporting BWs other than CBW20 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 1111 in this document. |
| 1112 | 93.39 | 38.2.5 | ELR PPDU is defined as a 20MHz PPDU. So, this PPDU does not transmit using 320MHz PPDU. | Delete the UHR\_ELR | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to remove ELR PPDU from entries supporting BWs other than CBW20 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 1112 in this document. |
| 3359 | 93.43 | 38.2.5 | Change "EHT" to "UHR". | Refer to the comment. | **Revised**  **Discussion:**  Agree on the comment. A proposed modification of changing “an EHT” to “a UHR” serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 3359 in this document. |
| 3360 | 94.33 | 38.2.5 | There is no interpretation for EHT\_MU and EHT\_TB as 'Format'. Change this row in Table 38-2 to include interpretation for EHT\_MU and EHT\_TB. Add EHT\_MU and EHT\_TB in the first column ('Format'). Change Table 27-4 to Table 36-3 in the second column. | Refer to the comment. | **Revised**  **Discussion:**  Agree on the comment. A proposed modification serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 3360 in this document. |
| 925 | 94.46 | 38.2.5 | Need to include EHT PPDU in table 38-2 | Add EHT PPDU in the last row of table 38-2 | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to add EHT PPDU formats and corresponding reference in the last row serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 925 in this document. |
| 2719 | 94.46 | 38.2.5 | In Table 38-2, add "Table 36.3" in the 2nd column of last row | see comments | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to add EHT PPDU formats and corresponding reference in the last row serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2719 in this document. |
| 2052 | 94.47 | 38.2.5 | The formats and the reference tables in the last row of UHR Table (Interpretation of FORMAT, NON\_HT\_MODULATION, and CH\_BANDWIDTH parameters) are incomplete. | Add the EHT related formats and reference table to the last row of UHR Table (Interpretation of FORMAT, NON\_HT\_MODULATION, and CH\_BANDWIDTH parameters) | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to add EHT PPDU formats and corresponding reference in the last row serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2052 in this document. |
| 2720 | 94.53 | 38.2.5 | In Table 38-2, add "EHT\_MU" and "EHT\_TB" in the 1st column of last row | see comments | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to add EHT PPDU formats and corresponding reference in the last row serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2720 in this document. |
| 2241 | 94.56 | 38.2.5 | "38.2.6 Support for non-HT, HT, VHT, and HE formats" missing EHT formats in the title | As in comment | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to add EHT PPDU formats and corresponding reference in the last row serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2241 in this document. |
| 2240 | 94.53 | 38.2.6.1 | EHT\_MU and EHT\_TB should be included in the last row of Table 38-2 | As in comment | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to add EHT PPDU formats and corresponding reference in the last row serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2240 in this document. |
| 2438 | 88.07 | 38.1.1 | "ELR PPDUs have a fixed bandwidth of 20 MHz" is contradicting to Table 38-2, where a UHR\_ELR PPDU with up to 320 MHz bandwidth exists | Please fix | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to remove ELR PPDU from entries supporting BWs other than CBW20 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2438 in this document. |

***TGbn editor: Please implement the following modification to subclause 38.2.5 (Effect of CH\_BANDWIDTH parameter on PPDU format) to 11bn D0.2 as part of resolution to CID #140/2740/3228/3357/141/292/563/678/924/1109/1110/1111/1112/1372/2051/2239/2718/3358/3359/3484/2438/2240/2241:***

### 38.2.5 Effect of CH\_BANDWIDTH parameter on PPDU format

[Table 38-3 (Interpretation of FORMAT, NON\_HT\_MODULATION, and CH\_BANDWIDTH parameters)](#_bookmark7) shows the valid combinations of the FORMAT, NON\_HT\_MODULATION, and CH\_BANDWIDTH parameters and the corresponding PPDU format. Other combinations are reserved.

~~Other combinations are reserved.~~*[CID #140/2740/3228/3357/]*

**Table 38-3—Interpretation of FORMAT, NON\_HT\_MODULATION, and CH\_BANDWIDTH parameters**

*[CID #141/292/563/564/678/924/1109/1110/1111/1112/1372/2051/2239/2718/3358/3359/3484/2438/2240/2241]*

|  |  |  |  |
| --- | --- | --- | --- |
| **FORMAT** | **NON\_HT\_ MODULATION** | **CH\_BANDWIDTH** | **PPDU format** |
| UHR\_MU, UHR\_ELR, UHR\_TB | N/A | CBW20 | The STA transmits an UHR PPDU of 20 MHz bandwidth. If the BSS bandwidth is wider than  20 MHz and NPCA is not activated, then the transmission shall use the primary 20 MHz channel. If the BSS bandwidth is wider than 20 MHz and NPCA is activated , then the transmission may use a valid 20 MHz channel within the BSS bandwidth. *[CID #564]* |
| UHR\_MU, ~~UHR\_ELR,~~ UHR\_TB | N/A | CBW40 | The STA transmits an UHR PPDU of 40 MHz bandwidth. If the BSS bandwidth is wider than  40 MHz and NPCA is not activated, then the transmission shall use the primary 40 MHz channel. If the BSS bandwidth is wider than 40 MHz and NPCA is activated , then the transmission may use a valid 20 MHz channel within the BSS bandwidth. *[CID #564]* |
| UHR\_MU, ~~UHR\_ELR,~~ UHR\_TB | N/A | CBW80 | The STA transmits an UHR PPDU of 80 MHz bandwidth. If the BSS bandwidth is wider than  80 MHz and NPCA is not activated, then the transmission shall use the primary 80 MHz channel. If the BSS bandwidth is wider than 80 MHz and NPCA is activated , then the transmission may use a valid 20 MHz channel within the BSS bandwidth. *[CID #564]* |
| UHR\_MU, ~~UHR\_ELR,~~ UHR\_TB | N/A | CBW160 | The STA transmits an UHR PPDU of 160 MHz bandwidth. If the BSS bandwidth is wider than 160 MHz and NPCA is not activated, then the transmission shall use the primary 160 MHz channel. If the BSS bandwidth is wider than 160 MHz and NPCA is activated , then the transmission may use an valid 20 MHz channel within the BSS bandwidth. *[CID #564]* |
| UHR\_MU, ~~UHR\_ELR,~~ UHR\_TB | N/A | CBW320-1 CBW320-2 | The STA transmits an UHR PPDU of 320 MHz bandwidth.  NOTE—The CH\_BANDWIDTH of CBW320-1  and CBW320-2 is interpreted as 320 MHz bandwidth for the transmission of a~~n~~ UHR ~~EHT~~ PPDU *[CID #3359]* of 320 MHz bandwidth. |
| NON\_HT | OFDM | CBW20 | See Table 21-2 (Interpretation of FORMAT, NON\_HT\_MODULATION, CH\_BANDWIDTH,  and CH\_OFFSET parameters). |
| NON\_HT | NON\_HT\_DUP\_ OFDM | CBW40 | See Table 21-2 (Interpretation of FORMAT, NON\_HT\_MODULATION, CH\_BANDWIDTH,  and CH\_OFFSET parameters). |
| NON\_HT | NON\_HT\_DUP\_ OFDM | CBW80 | If INACTIVE\_SUBCHANNELS is not present, see Table 21-2 (Interpretation of FORMAT, NON\_HT\_MODULATION, CH\_BANDWIDTH,  and CH\_OFFSET parameters).  If INACTIVE\_SUBCHANNELS is present (see  35.11.5 (INACTIVE\_SUBCHANNELS) and  26.11.7 (INACTIVE\_SUBCHANNELS and  RU\_ALLOCATION)), the STA transmits a punctured NON-HT PPDU of 80 MHz bandwidth. If the BSS bandwidth is wider than 80 MHz, then the transmission shall use the primary 80 MHz channel. Primary 20 MHz is not punctured. |
| NON\_HT | NON\_HT\_DUP\_ OFDM | CBW160 | If INACTIVE\_SUBCHANNELS is not present, see Table 21-2 (Interpretation of FORMAT, NON\_HT\_MODULATION, CH\_BANDWIDTH,  and CH\_OFFSET parameters).  If INACTIVE\_SUBCHANNELS is present (see  35.11.5 (INACTIVE\_SUBCHANNELS) and  26.11.7 (INACTIVE\_SUBCHANNELS and  RU\_ALLOCATION)), the STA transmits a punctured NON-HT PPDU of 160 MHz bandwidth. If the BSS bandwidth is wider than 160 MHz, then the transmission shall use the primary 160 MHz channel. Primary 20 MHz is not punctured. |
| NON\_HT | NON\_HT\_DUP\_ OFDM | CBW320 | If INACTIVE\_SUBCHANNELS is not present, the STA transmits a NON-HT PPDU of 320 MHz bandwidth using sixteen adjacent 20 MHz channels as defined in [36.3.15 (Non-HT duplicate](#_bookmark264) [transmission)](#_bookmark264).  If INACTIVE\_SUBCHANNELS is present (see  35.11.5 (INACTIVE\_SUBCHANNELS)), the STA  transmits a punctured NON-HT PPDU of 320 MHz bandwidth. Primary 20 MHz is not punctured. |
| HT\_MF, HT\_GF, VHT, HE\_SU, HE\_MU, HE\_ER\_SU, HE\_TB  EHT\_MU  EHT\_TB | See Table 36-3 (Interpretation of FORMAT, NON\_HT\_MODULATION, CH\_BANDWIDTH, and CH\_OFFSET parameters), *[CID #925/2052/2240/2241/2719/2720/3360]*Table 27-4 (Interpretation of FORMAT, NON\_HT\_MODULATION, CH\_BANDWIDTH, and CH\_OFFSET parameters), Table 21-2 (Interpretation of FORMAT, NON\_HT\_MODULATION, CH\_BANDWIDTH, and CH\_OFFSET parameters), and Table 19-2 (Interpretation of FORMAT, CH\_BANDWIDTH, and CH\_OFFSET parameters). | | |

***--------------------------- End of resolutions for 38.2.5 ----------------------------------***

***Comments for sub-clause 38.2.6 (6 comments) and 38.2.6.1 (13 comments):***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Pg/Ln** | **Clause** | **Comment** | **Proposed Changed** | **Resolution** |
| 1581 | 94.56 | 38.2.6 | The title should be 38.2.6 Support for non-HT, HT, VHT, HE, EHT formats. | See the comment. | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the title of sub-clause 38.2.6 to include EHT formats serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 1581 in this document. |
| 1901 | 94.56 | 38.2.6 | The name of the subclause should include EHT format | Please replace 'Support for non-HT, HT, VHT, and HE formats' with 'Support for non-HT, HT, VHT, HE and EHT formats'. | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the title of sub-clause 38.2.6 to include EHT formats serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 1901 in this document. |
| 2053 | 94.56 | 38.2.6 | The title of Section 38.2.6 is incorrect. | Change to "38.2.6 Support for non-HT, HT, VHT, HE, and EHT formats" | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the title of sub-clause 38.2.6 to include EHT formats serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2053 in this document. |
| 2241 | 94.56 | 38.2.5 | "38.2.6 Support for non-HT, HT, VHT, and HE formats" missing EHT formats in the title | As in comment | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the title of sub-clause 38.2.6 to include EHT formats serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2241 in this document. |
| 2741 | 94.56 | 38.2.6 | Add EHT in the title of 38.2.6 | see comments | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the title of sub-clause 38.2.6 to include EHT formats serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2741 in this document. |
| 3485 | 94.56 | 38.2.6 | Title of section 38.2.6 is missing "EHT" | Change title to "Support for non-HT, HT, VHT, HE and EHT formats" | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the title of sub-clause 38.2.6 to include EHT formats serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 3485 in this document. |
| 3229 | 95.16 | 38.2.6.1 | This figure is too small to be confirmed. Ditto Figures 38-2 and 38-3. | Replace them with larger ones. | **Revised**  **Discussion:**  Agree on the comment. All those addressed figures are updated for a more friendly reading.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 3229 in this document. |
| 177 | 95.17 | 38.2.6.1 | some section number in Fig38-1, may want to change '36' to '38' | change number from '36' to '38' in the figure | **Revised**  **Discussion:**  Agree on the comment. Figure 38-1 is updated to correct the wrong references.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 177 in this document. |
| 3486 | 95.20 | 38.2.6.1 | Various errors in Fig 38-1 | Fix following errors in Figure 38-1 "PHY interaction on transmit for various PPDU formats": - Change 38.2.6.5 to 38.2.6.6 (EHT) - Change 36.2.6.5 to 38.2.6.5 (HE) - Change 36.2.6.4 to 38.2.6.4 (VHT) - Change 36.2.6.3 to 38.2.6.3 (HT) - Change 36.2.6.2 to 38.2.6.2 (non HT) - Change "UHR\_ER" to "UHR\_ELR" | **Revised**  **Discussion:**  Agree on the comment. Figure 38-1 is updated to correct the wrong references.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 3486 in this document. |
| 1073 | 95.23 | 38.2.6.1 | Figure 38-1, above Format=EHT\_MU and EHT\_TB, "38.2.6.5"should be "38.2.6.6 Support for EHT format". "36.2.6.5" should be "38.2.6.5". "36.2.6.4" should be "38.2.6.4". "36.2.6.3" should be "38.2.6.3". "36.2.6.2" should be "38.2.6.2". "Clause 38 EHT PPDU" should be "Clause 38 UHR PPDU" | See comment | **Revised**  **Discussion:**  Agree on the comment. Figure 38-1 is updated to correct the wrong references.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 1073 in this document. |
| 2054 | 95.23 | 38.2.6.1 | The section number of Section (Support for EHT format) in Figure 38-1 is incorrect. | The section number is 38.2.6.6 instead of 38.2.6.5 | **Revised**  **Discussion:**  Agree on the comment. Figure 38-1 is updated to correct the wrong references.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2054 in this document. |
| 1074 | 95.42 | 38.2.6.1 | Figure 38-2, above EHT--> Clause 36, then "38.2.6.5" should be "38.2.6.6". Above UHR-->"Clause 36" should be "Clause 38" | See comment | **Revised**  **Discussion:**  Agree on the comment. Figure 38-2 is updated to correct the wrong references.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 1074 in this document. |
| 2055 | 95.43 | 38.2.6.1 | The section number of Section (Support for EHT format) in Figure 38-2 is incorrect. | The section number is 38.2.6.6 instead of 38.2.6.5 | **Revised**  **Discussion:**  Agree on the comment. Figure 38-2 is updated to correct the wrong references.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2055 in this document. |
| 2056 | 95.44 | 38.2.6.1 | The clause number of UHR Clause in Figure 38-2 is incorrect. | The Clause Number is 38 instead of 36. | **Revised**  **Discussion:**  Agree on the comment. Figure 38-2 is updated to correct the wrong references.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2056 in this document. |
| 2742 | 95.44 | 38.2.6.1 | Change from Clause 36 to Clause 38 in Figure 38-2 when describing UHR path | see comments | **Revised**  **Discussion:**  Agree on the comment. Figure 38-2 is updated to correct the wrong references.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2742 in this document. |
| 3487 | 95.44 | 38.2.6.1 | Various errors in Fig 38-2 | Fix following errors in Figure 38-2 "PHY interaction on receive for various PPDU formats": - Change 38.2.6.5 to 38.2.6.6 (EHT) - For UHR, change "Clause 36 receive procedure" to "Clause 38 receive procedure" | **Revised**  **Discussion:**  Agree on the comment. Figure 38-2 is updated to correct the wrong references.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 3487 in this document. |
| 1075 | 95.59 | 38.2.6.1 | Figure 38-3, above Clause 36 PHY CONFIG request, should be "38.2.6.6" instead of "38.2.6.5" | See comment | **Revised**  **Discussion:**  Agree on the comment. Figure 38-3 is updated to correct the wrong references.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 1075 in this document. |
| 2057 | 95.59 | 38.2.6.1 | The section number of Section (Support for EHT format) in Figure 38-3 is incorrect. | The section number is 38.2.6.6 instead of 38.2.6.5 | **Revised**  **Discussion:**  Agree on the comment. Figure 38-3 is updated to correct the wrong references.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2057 in this document. |
| 3488 | 95.60 | 38.2.6.1 | Various errors in Fig 38-3 | Fix following errors in Figure 38-3 "PHY-CONFIG and CCA interaction with various PPDU formats": - Under "PHY-CONFIG.request", change 38.2.6.5 to 38.2.6.6 (EHT), - Under "PHY-CONFIG.confirm", change "Clause 35 PHY" to "Clause 36 PHY" (EHT) | **Revised**  **Discussion:**  Agree on the comment. Figure 38-3 is updated to correct the wrong references.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 3488 in this document. |
|  |  |  |  |  |  |

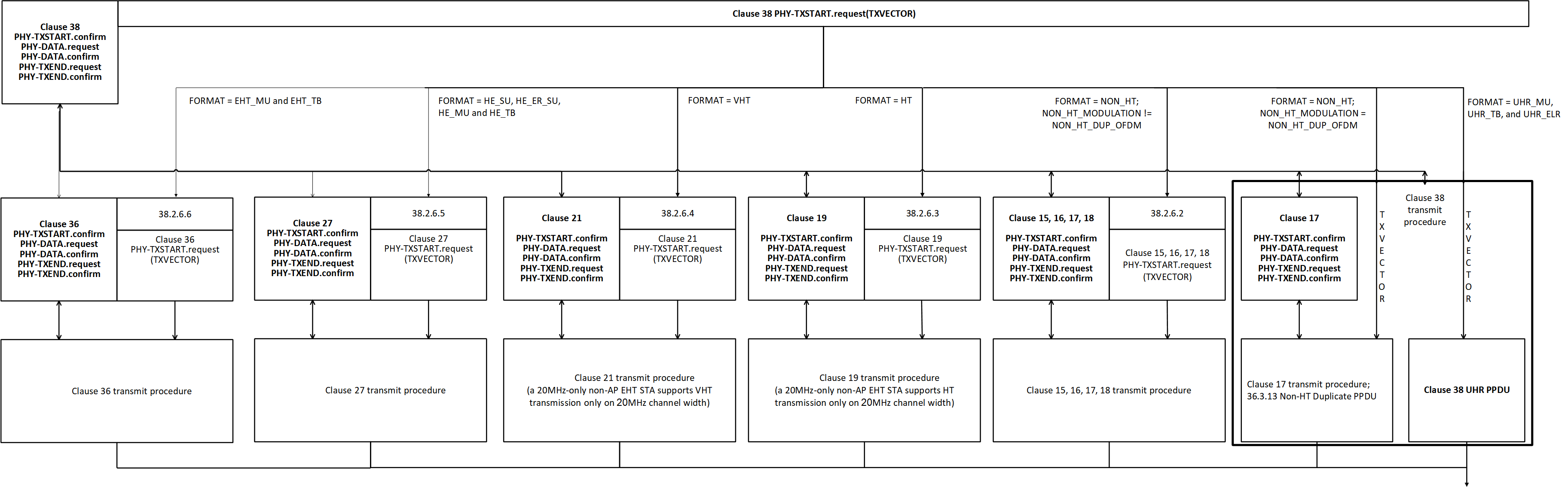
***TGbn editor: Please implement the following modification to the title of subclause 38.2.6 (Effect of CH\_BANDWIDTH parameter on PPDU format) to 11bn D0.2 as part of resolution to CID # 1581/1901/2053/2241/2741/3485 and the content of subclause 38.2.6.1 to 11bn D0.2 as part of resolution to CID #3229/177/3486/1073/2054/1074/2055/2056/2742/3487/1075/2057/3488:***

### 38.2.6 Support for non-HT, HT, VHT, ~~and~~ HE, and EHT formats *[CID #1581/1901/2053/2241/2741/3485]*

#### 38.2.6.1 General

When an UHR STA is working on a frequency band that is applicable to a PHY clause, the UHR STA logically contains Clause 15 (DSSS PHY specification for the 2.4 GHz band designated for ISM applications), Clause 16 (High rate direct sequence spread spectrum (HR/DSSS) PHY specification), Clause 17 (Orthogonal frequency division multiplexing (OFDM) PHY specification), Clause 18 (Extended Rate PHY (ERP) specification), Clause 19 (High Throughput (HT) PHY specification), Clause 21 (Very High Throughput (VHT) PHY specification), Clause 27 (High Efficiency (HE) PHY specification), [Clause 36 (Extremely high throughput (EHT) PHY specification)](#_bookmark0) and Clause 38 (Ultra High Reliability (UHR) PHY specification) PHYs. The MAC interacts with the PHYs via the [Clause 38 (Ultra High Reliability (UHR) PHY specification)](#_bookmark0) PHY service interface, which in turn interacts with the Clause 15 (DSSS PHY specification for the 2.4 GHz band designated for ISM applications), Clause 16 (High rate direct sequence spread spectrum (HR/DSSS) PHY specification), Clause 17 (Orthogonal frequency division multiplexing (OFDM) PHY specification), Clause 18 (Extended Rate PHY (ERP) specification), Clause 19 (High Throughput (HT) PHY specification), Clause 21 (Very High Throughput (VHT) PHY specification), Clause 27 (High Efficiency (HE) PHY specification) and [Clause 36 (Extremely high throughput (EHT) PHY specification)](#_bookmark0) PHY service interfaces when applicable as shown in [Figure 38-1 (PHY interaction on transmit for various PPDU](#_bookmark9) [formats)](#_bookmark9), [Figure 38-2 (PHY interaction on receive for various PPDU formats)](#_bookmark10), and [Figure 38-3 (PHY-](#_bookmark11) [CONFIG and CCA interaction with various PPDU formats)](#_bookmark11).

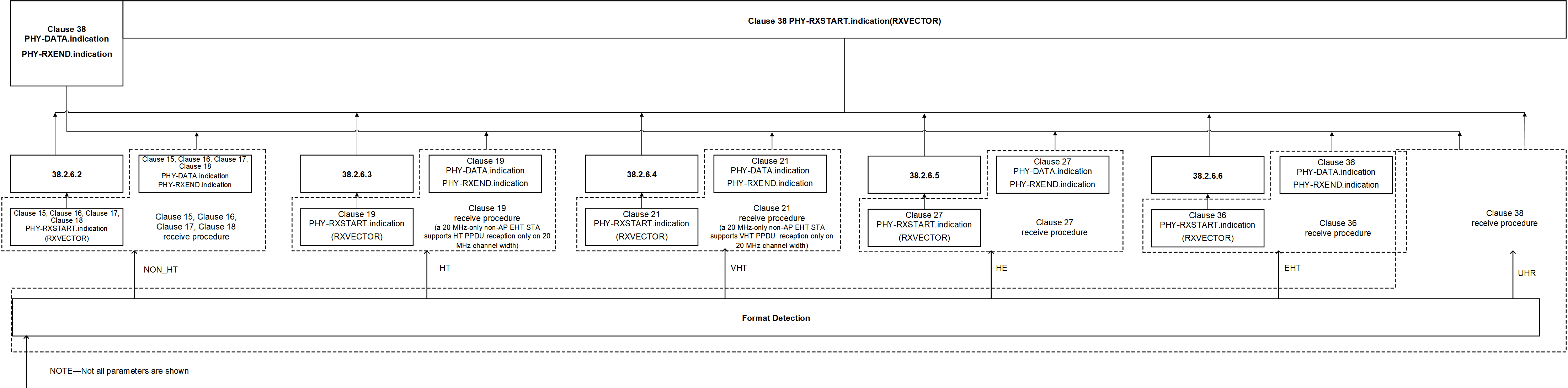
**~~~~**

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**Figure 38-1—PHY interaction on transmit for various PPDU formats**

*[CID #3229/177/1073/2054/3486]*

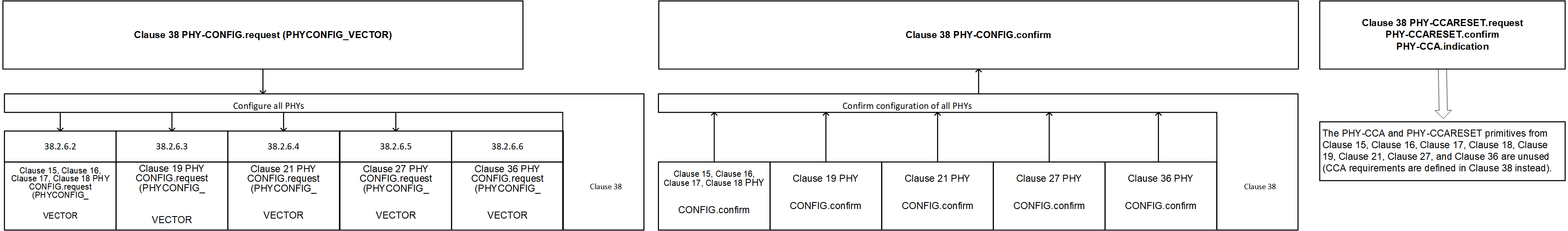




**Figure 38-2—PHY interaction on receive for various PPDU formats**

*[CID #3229/1074/2055/2056/2742/3487]*





**Figure 38-3—PHY-CONFIG and CCA interaction with various PPDU formats**

*[CID #3229/1075/2057/3488]*

NOTE—[Figure 38-1 (PHY interaction on transmit for various PPDU formats)](#_bookmark9), [Figure 38-2 (PHY interaction on receive](#_bookmark10) [for various PPDU formats)](#_bookmark10), and [Figure 38-3 (PHY-CONFIG and CCA interaction with various PPDU formats)](#_bookmark11) show all possible PHY clauses, not all of which are applicable to any given band.

***--------------------------- End of resolutions for 38.2.6.1 ----------------------------------***

***Comments for sub-clause 38.2.6.2 (23 comments) :***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Pg/Ln** | **Clause** | **Comment** | **Proposed Changed** | **Resolution** |
| 293 | 96.09 | 38.2.6.2 | "FORMAT parameter equal to NON\_HT and the NON\_HT\_MODULATION parameter not equal to NON\_HT\_DUP\_OFDM". Should this be "FORMAT parameter equal to NON\_HT and the NON\_HT\_MODULATION parameter not equal to NON\_HT\_DUP\_OFDM or OFDM"? | See comment | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to D0.2 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 293 in this document. |
| 1929 | 96.19 | 38.2.6.2 | The layout of the subbullets of additional requirements is not correct. There seems to be some additional line breaks. | As in comment. | **Revised**  **Discussion:**  Agree on the comment. This is a wrong implementation of passed PDT 11-24/2027r1.  **Instruction to TGbn Editor:**  Please implement the corresponding text under sub-clause 38.2.6.2 in 11-24/2027r1 correctly. |
| 3496 | 0.0 | 38.2.6.2, 38.2.6.3, 38.2.6.4, 38.2.6.5, 38.2.6.6 | Missing description of UHR STA behavior for non-HT/HT/VHT/HE/EHT formats when operating on NPCA primary channel | Within each sub-clause, insert the appropriate behavior for the UHR PHY following the receipt of a PHY-CONFIG.request(PHYCONFIG\_VECTOR) primitive where the PHYCONFIG\_VECTOR NPCA\_PRIMARY\_CHANNEL parameter indicates operation on the NPCA primary channel.  If this requires further technical discussion, suggest inserting a place-holder clause, e.g., "Following the receipt of a PHY-CONFIG.request(PHYCONFIG\_VECTOR) primitive where the PHYCONFIG\_VECTOR NPCA\_PRIMARY\_CHANNEL parameter indicates operation on the NPCA primary channel, the UHR PHY behaves in TBD manner". | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to add description for NPCA operation to D0.2 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 3496 in this document. |
| 1076 | 96.23 | 38.2.6.2 | Shouldn't be bullet points. Same on line 26, 30,33 | Remove bullets | **Revised**  **Discussion:**  Agree on the comment. This is a wrong implementation of passed PDT 11-24/2027r1.  **Instruction to TGbn Editor:**  Please implement the corresponding text under sub-clause 38.2.6.2 in 11-24/2027r1 correctly. |
| 1373 | 96.23 | 38.2.6.2 | suggest to remove "--" at the beginning of the line | See comment | **Revised**  **Discussion:**  Agree on the comment. This is a wrong implementation of passed PDT 11-24/2027r1.  **Instruction to TGbn Editor:**  Please implement the corresponding text under sub-clause 38.2.6.2 in 11-24/2027r1 correctly. |
| 2058 | 96.23 | 38.2.6.2 | Wrong segmentation. | Change to "-- The requirements in 21.3.17.1 (Transmit spectrum mask) and 38.3.23.1 (Transmit spectral mask) instead of the requirements in 17.3.9.3 (Transmit spectrum mask) -- The requirements in 38.3.23.3 (Transmit center frequency and symbol clock frequency tolerance) instead of the requirements in 17.3.9.5 (Transmit center frequency tolerance) and 17.3.9.6 (Symbol clock frequency tolerance) -- The requirements in 38.3.23.4.2 (Transmit center frequency leakage) instead of the requirements in 17.3.9.7.2 (Transmitter center frequency leakage) -- The requirements in 38.3.23.2 (Spectral flatness) and the requirements in 17.3.9.7.3 (Transmitter spectral flatness)" | **Revised**  **Discussion:**  Agree on the comment. This is a wrong implementation of passed PDT 11-24/2027r1.  **Instruction to TGbn Editor:**  Please implement the corresponding text under sub-clause 38.2.6.2 in 11-24/2027r1 correctly. |
| 294 | 96.35 | 38.2.6.2 | "The requirements in 38.3.20.1.3 (Additional restrictions of preamble puncturing for non-HT duplicate PPDU)". No such clause. | Fix | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to correct the referred subclause serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 294 in this document. |
| 1113 | 96.35 | 38.2.6.2 | The reference is wrong and since the equal preamble puncturing is applied to 11bn, we can reuse the definition defined in 11be. | Change the reference subclause with "36.3.20.1.3 (Additional restrictions of preamble puncturing for non-HT duplicate PPDU) " | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to correct the referred subclause serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 294 in this document. |
| 3489 | 96.35 | 38.2.6.2 | Reference to missing sub-clause 38.3.20.1.3 | Sub-clause "38.3.20.1.3 (Additional restrictions of preamble puncturing for non-HT duplicate PPDU)" doesn't exist in D0.1. Either replace with "TBD sub-clause" or create a place-holder sub-clause for the same | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to correct the referred subclause serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 294 in this document. |
| 1077 | 96.42 | 38.2.6.2 | "When the TXVECTOR parameter FORMAT equals to HT\_MF or HT\_GF" should be "FORMAT parameter equal to NON\_HT and the NON\_HT\_MODULATION parameter not equal to NON\_HT\_DUP\_OFDM" | See comment | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 1077 in this document. |
| 3490 | 96.42 | 38.2.6.2 | Incorrect TXVECTOR FORMAT value | Change "HT\_MF or HT\_GF" to "NON\_HT" | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 3490 in this document. |
| 3491 | 96.42 | 38.2.6.2 | Missing Table references | Insert missing table references for clauses 15-18. | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 3491 in this document. |
| 1114 | 96.43 | 38.2.6.2 | Add the reference | As the comment. | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 1114 in this document. |
| 3370 | 96.44 | 38.2.6.2 | Fill in the reference for the table in red. Same comment to P96L46, P96L47. | Refer to the comment. | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 3370 in this document. |
| 119 | 96.45 | 38.2.6.2 | the Clause 15 (DSSS PHY specification for the 2.4 GHz band designated for ISM applications) TXVECTOR parameters defined in Table 15- | the Clause 15 (DSSS PHY specification for the 2.4 GHz band designated for ISM applications) TXVECTOR parameters defined in Table 15-1 (TXVECTOR parameters) | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 119 in this document. |
| 2059 | 96.45 | 38.2.6.2 | Several Table numbers and titles are missing. | Change to "When the TXVECTOR parameter FORMAT equals to HT\_MF or HT\_GF, the Clause 15 (DSSS PHY specification for the 2.4 GHz band designated for ISM applications) TXVECTOR parameters defined in Table 15-1 (TXVECTOR parameters), the Clause 16 (High rate direct sequence spread spectrum (HR/DSSS) PHY specification) TXVECTOR parameters defined in Table 16-5 (Parameter vectors), the Clause 17 (Orthogonal frequency division multiplexing (OFDM) PHY specification) TXVECTOR parameters defined in Table 17-1 (TXVECTOR parameters), and the Clause 18 (Extended Rate PHY (ERP) specification) TXVECTOR parameters defined in Table 18-1 (TXVECTOR parameters) are directly used, depending on the parameter NON\_HT\_MODULATION. The TXVECTOR parameters not listed in those tables are not present." | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2059 in this document. |
| 2242 | 96.45 | 38.2.6.2 | Please add the missing Table numbers in each Clause | As in comment | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2242 in this document. |
| 120 | 96.46 | 38.2.6.2 | the Clause 16 (High rate direct sequence spread spectrum (HR/DSSS) PHY specification) TXVECTOR parameters defined in Table | the Clause 16 (High rate direct sequence spread spectrum (HR/DSSS) PHY specification) TXVECTOR parameters defined in Table 16-5 (Parameter vectors) | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 120 in this document. |
| 1115 | 96.46 | 38.2.6.2 | Add the reference | As the comment. | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 1115 in this document. |
| 121 | 96.47 | 38.2.6.2 | the Clause 17 (Orthogonal frequency division multiplexing (OFDM) PHY specification) TXVECTOR parameters defined in Table | the Clause 17 (Orthogonal frequency division multiplexing (OFDM) PHY specification) TXVECTOR parameters defined in Table 17-1 (TXVECTOR parameters) | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 121 in this document. |
| 1116 | 96.47 | 38.2.6.2 | Add the reference | As the comment. | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 1116 in this document. |
| 2743 | 96.64 | 38.2.6.2 | Add "NPCA\_PRIMARY\_CHANNEL" | see comments | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2743 in this document. |
| 3492 | 96.64 | 38.2.6.2 | "DISABLED\_SUBCHANNEL\_BITMAP" should not be removed from PHYCONFIG\_VECTOR parameters for a UHR PHY in the context of supporting non\_HT. E.g., Clause 36 does not have this restriction. | Remove ", and DISABLED\_SUBCHANNEL\_BITMAP." | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 3492 in this document. |
| 3493 | 97.11 | 38.2.6.2 | Missing table reference: "... and the PHY parameters not listed in the table are not  present." Not clear what "the table" refers to. | Include appropriate Table reference | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 3493 in this document. |

***TGbn editor: Please implement the following modification to the content of subclause 38.2.6.2 (Support for non-HT format) to 11bn D0.2 as part of resolution to following CIDs:***

***CID #293/294/1076/1113/1114/1115/1116/1929/1373/2058/3489/119/120/121/295***

***CID #1077/2059/2242/3370/3490/3491/3496/2743/3492/3493:***

#### 38.2.6.2 Support for non-HT format

The behavior of the UHR PHY on receipt of a PHY-TXSTART.request(TXVECTOR) primitive with the FORMAT parameter equal to NON\_HT and the NON\_HT\_MODULATION parameter not equal to NON\_HT\_DUP\_OFDM or OFDM *[CID #293]* is defined in Clause 15 (DSSS PHY specification for the 2.4 GHz band designated for ISM applications), Clause 16 (High rate direct sequence spread spectrum (HR/DSSS) PHY specification), Clause 17 (Orthogonal frequency division multiplexing (OFDM) PHY specification), and Clause 18 (Extended Rate PHY (ERP) specification) and depends on the parameter NON\_HT\_MODULATION. If the parameter NON\_HT\_MODULATION is OFDM or NON\_HT\_DUP\_OFDM, then the following additional requirements apply:

* The requirements in 21.3.9.1 (Transmission of 20 MHz non-HT PPDUs with more than one transmit chain)
* The requirements in 21.3.17.1 (Transmit spectrum mask) and [36~~8~~.3.20.1 (Transmit spectral mask)](#_bookmark276) instead of the requirements in 17.3.9.3 (Transmit spectrum mask)
* The requirements in [36~~8~~.3.20.3 (Transmit center frequency and symbol clock frequency tolerance)](#_bookmark298) instead of the requirements in 17.3.9.5 (Transmit center frequency tolerance) and 17.3.9.6 (Symbol clock frequency tolerance)
* The requirements in [36~~8~~.3.20.4.2 (Transmit center frequency leakage)](#_bookmark300) instead of the requirements in

17.3.9.7.2 (Transmitter center frequency leakage)

* The requirements in [36~~8~~.3.20.2 (Spectral flatness)](#_bookmark295) and the requirements in 17.3.9.7.3 (Transmitter spectral flatness)
* The requirements in [36~~8~~.3.20.1.3 (Additional restrictions of preamble puncturing for non-HT](#_bookmark290) [duplicate PPDU)](#_bookmark290)

The modulation equation for non-HT duplicate transmission is defined in [38.3.18~~5~~ (Non-HT duplicate](#_bookmark264) [transmission)](#_bookmark264).*[CID #294/1076/1113/1373/2058/3489]*

~~When the TXVECTOR parameter FORMAT equals to HT\_MF or HT\_GF, the Clause 15 (DSSS PHY specification for the 2.4 GHz band designated for ISM applications) TXVECTOR parameters defined in Table 15-1 , the Clause 16 (High rate direct sequence spread spectrum (HR/DSSS) PHY specification) TXVECTOR parameters defined in Table, the Clause 17 (Orthogonal frequency division multiplexing (OFDM) PHY specification) TXVECTOR parameters defined in Table () , and the Clause 18 (Extended Rate PHY (ERP) specification) TXVECTOR parameters are directly used, depending on the parameter NON\_HT\_MODULATION.~~ The EHT TXVECTOR parameters in Table 36-1 (TXVECTOR and RXVECTOR parameters) are mapped to Clause 15 (DSSS PHY specification for the 2.4 GHz band designated for ISM applications), Clause 16 (High rate direct sequence spread spectrum (HR/DSSS) PHY specification), Clause 17 (Orthogonal frequency division multiplexing (OFDM) PHY specification), and Clause 18 (Extended Rate PHY (ERP) specification) TXVECTOR parameters according to Table 38-XX (Mapping of the EHT PHY parameters for non-HT operation). The UHR PHY parameters not listed in the table are not present.

**Table 38-XX—Mapping of the UHR PHY parameters for non-HT operation**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **UHR PHY parameter** | **2.4 GHz operation defined by Clause 15 (DSSS PHY specification for the 2.4 GHz band**  **designated for ISM**  **applications)** | **2.4 GHz operation defined by Clause 16 (High rate direct sequence spread spectrum (HR/DSSS) PHY specification)** | **2.4 GHz operation defined by Clause 18 (Extended Rate PHY (ERP) specification)** | **5 GHz and 6 GHz operation defined by Clause 17 (Orthogonal frequency division multiplexing (OFDM) PHY specification)** | **Parameter List** |
| L\_LENTH | LENGTH | LENGTH | LENGTH | LENGTH | TXVECTOR/RXVECTOR |
| L-DATA | DATARATE | DATARATE | DATARATE | DATARATE | TXVECTOR/RXVECTOR |
| TXPWR\_LEVEL\_INDEX | TXPWR\_LEVEL\_INDEX | TXPWR\_LEVEL\_INDEX | TXPWR\_LEVEL\_INDEX | TXPWR\_LEVEL\_INDEX | TXVECTOR |
| RSSI | RSSI | RSSI | RSSI | RSSI | RXVECTOR |
| RCPI | RCPI | RCPI | RCPI | RCPI | RXVECTOR |

*[CID # 119/120/121/295/1077/1114/1115/1116/2059/2242/3370/3490/3491/]*

The behavior of the UHR PHY on receipt of a PHY-TXSTART.request(TXVECTOR) primitive with the FORMAT parameter equal to NON\_HT and the NON\_HT\_MODULATION parameter equal to NON\_HT\_DUP\_OFDM is defined in [38.3.15 (Non-HT duplicate transmission)](#_bookmark264).

On receipt of a PHY-CONFIG.request(PHYCONFIG\_VECTOR) primitive, the UHR PHY behaves as if it were a Clause 15 (DSSS PHY specification for the 2.4 GHz band designated for ISM applications), Clause 16 (High rate direct sequence spread spectrum (HR/DSSS) PHY specification), Clause 17 (Orthogonal frequency division multiplexing (OFDM) PHY specification), or Clause 18 (Extended Rate PHY (ERP) specification) PHY that had received a PHY-CONFIG.request(PHYCONFIG\_VECTOR) primitive but without the PHYCONFIG\_VECTOR parameters CHANNEL\_WIDTH, CENTER\_FREQUENCY\_SEGMENT\_0, and ~~DISABLED\_SUBCHANNEL\_BITMAP~~ NPCA\_PRIMARY\_CHANNEL*[CID #3496/2743/3492]*.

As defined in [38.3.23 (UHR receive procedure)](#_bookmark322), once a PPDU is received and detected as a non-HT PPDU, the behavior of the UHR PHY is defined in Clause 15 (DSSS PHY specification for the 2.4 GHz band designated for ISM applications), Clause 16 (High rate direct sequence spread spectrum (HR/DSSS) PHY specification), Clause 17 (Orthogonal frequency division multiplexing (OFDM) PHY specification), or Clause 18 (Extended Rate PHY (ERP) specification) depending on the PPDU format. The RXVECTOR parameters from Clause 15 (DSSS PHY specification for the 2.4 GHz band designated for ISM applications), Clause 16 (High rate direct sequence spread spectrum (HR/DSSS) PHY specification), Clause 17 (Orthogonal frequency division multiplexing (OFDM) PHY specification), and Clause 18 (Extended Rate PHY (ERP) specification) are directly used, and the PHY parameters not ~~listed in the table~~defined in above clauses are not present.*[CID #3493]*

***--------------------------- End of resolutions for 38.2.6.2 ----------------------------------***

***Comments for sub-clause 38.2.6.3 (4 comments), 38.2.6.4 (1 comment), 38.2.6.5 (6 comments), and 38.2.6.6 (8 comments) :***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Pg/Ln** | **Clause** | **Comment** | **Proposed Changed** | **Resolution** |
| 565 | 97.26 | 38.2.6.3 | Delete one of two "the". | See the comment. | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to D0.2 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 565 in this document. |
| 2060 | 97.31 | 38.2.6.3 | "38-2" should be "Table 38-2". | As in comment | **Accepted** |
| 2744 | 97.40 | 38.2.6.3 | Add "NPCA\_PRIMARY\_CHANNEL" | see comments | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to D0.2 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2744 in this document. |
| 3297 | 97.44 | 38.2.6.3 | The inequation should be "f\_{P20,idx}<f\_{S20,idx}" | as in comment. | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to D0.2 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 3297 in this document. |
| 2745 | 98.13 | 38.2.6.4 | Add "NPCA\_PRIMARY\_CHANNEL" | see comments | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to D0.2 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2745 in this document. |
| 1078 | 98.36 | 38.2.6.5 | "When the TXVECTOR parameter FORMAT equals to VHT" should be "When the TXVECTOR parameter FORMAT equal to HE\_SU, HE\_ER\_SU, HE\_MU, or HE\_TB" | See comment | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text in D0.2 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 1078 in this document. |
| 2061 | 98.36 | 38.2.6.5 | The TXVECTOR parameter FORMAT should be HE\_SU, HE\_ER\_SU, HE\_MU or HE\_TB instead of VHT | Replace "VHT" with "HE\_SU, HE\_ER\_SU, HE\_MU or HE\_TB" | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text in D0.2 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2061 in this document. |
| 2243 | 98.36 | 38.2.6.5 | Change "When the TXVECTOR parameter FORMAT equals to VHT," to "When the TXVECTOR parameter FORMAT equals to HE". | As in comment | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text in D0.2 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2243 in this document. |
| 2746 | 98.36 | 38.2.6.5 | Change "VHT" to "HE\_SU, HE\_ER\_SU, HE\_MU, HE\_TB" | see comments | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text in D0.2 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2746 in this document. |
| 3494 | 98.36 | 38.2.6.5 | Typo: TXVECTOR FORMAT "VHT" should be replaced by HE variants | Replace "When the TXVECTOR parameter FORMAT equals to VHT.." with "When the TXVECTOR parameter FORMAT equals HE\_SU, HE\_ER\_SU, HE\_MU, or HE\_TB .." | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text in D0.2 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 3494 in this document. |
| 2747 | 98.47 | 38.2.6.5 | Add "NPCA\_PRIMARY\_CHANNEL" | see comments | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text in D0.2 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2747 in this document. |
| 295 | 99.10 | 38.2.6.6 | "When the TXVECTOR parameter FORMAT equals to VHT". Typo. Change "equals to" to "equals" | See comment | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text in D0.2 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 295 in this document. |
| 1079 | 99.10 | 38.2.6.6 | "When the TXVECTOR parameter FORMAT equals to VHT" should be "When the TXVECTOR parameter FORMAT equal to EHT\_MU or EHT\_TB" | See comment | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text in D0.2 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 1079 in this document. |
| 2062 | 99.10 | 38.2.6.6 | The TXVECTOR parameter FORMAT should be EHT\_MU or EHT\_TB instead of VHT | Replace "VHT" with "EHT\_MU or EHT\_TB" | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text in D0.2 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2062 in this document. |
| 2244 | 99.10 | 38.2.6.6 | Change "When the TXVECTOR parameter FORMAT equals to VHT," to "When the TXVECTOR parameter FORMAT equals to HE". | As in comment | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text in D0.2 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2244 in this document. |
| 2748 | 99.10 | 38.2.6.6 | Change "VHT" to "EHT\_MU, EHT\_TB" | see comments | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text in D0.2 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2748 in this document. |
| 3495 | 99.10 | 38.2.6.6 | Typo: TXVECTOR FORMAT "VHT" should be replaced by EHT variants | Replace "When the TXVECTOR parameter FORMAT equals to VHT.." with "When the TXVECTOR parameter FORMAT equals EHT\_MU or EHT\_TB .." | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text in D0.2 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 3495 in this document. |
| 2745 | 99.13 | 38.2.6.6 | Add "NPCA\_PRIMARY\_CHANNEL" | see comments | **Rejected**  **Reason:**  NPCA\_PRIMARY\_CHANNEL is a PHYCONFIG\_VECTOR parameter and will not appear as a TXVECTOR parameter. |
| 2749 | 99.18 | 38.2.6.6 | Add "with NPCA\_PRIMARY\_CHANNEL ignored" | see comments | **Revised**  **Discussion:**  Agree on the comment. A proposed modification to the addressed text in D0.2 serves as the resolution to this CID.  **Instruction to TGbn Editor:**  Please implement the proposed modification to 11bn D0.2 as resolution to CID 2749 in this document. |

***TGbn editor: Please implement the following modification to the content of subclause 38.2.6.3 (Support for HT format) to 11bn D0.2 as part of resolution to the following CIDs:***

***- CID #565/2060/2744/2745/3297/3496/1078/2061/2243/2746/3494/2747/295/1079***

***- CID #2062/2244/2748/3495/2749***

#### 38.2.6.3 Support for HT format

The behavior of a UHR PHY on receipt of a PHY-TXSTART.request(TXVECTOR) primitive with the TXVECTOR parameter FORMAT equal to HT\_MF or HT\_GF is defined in Clause 19 (High Throughput (HT) PHY specification) with the following additional requirements:

* The requirements in 21.3.9.2 (Transmission of HT PPDUs with more than four transmit chains)
* The requirements in [38.3.20.3 (Transmit center frequency and symbol clock frequency tolerance)](#_bookmark298) instead of the requirements in 19.3.18.4 (Transmit center frequency tolerance)

The UHR TXVECTOR parameters in Table 38-1 (TXVECTOR and RXVECTOR parameters) are mapped directly to Clause 19 (High Throughput (HT) PHY specification) TXVECTOR parameters in Table 19-1 (TXVECTOR and RXVECTOR parameters). The ~~When the TXVECTOR parameter FORMAT equals to HT\_MF or HT\_GF, the the Clause 19 (High Throughput (HT) PHY specification) TXVECTOR parameters in~~ [~~Table 19-1 (TXVECTOR and RXVECTOR parameters)~~](#_bookmark4) ~~are directly used, and the~~ *[CID #565]*TXVECTOR parameters not listed in Table 19- 1 (TXVECTOR and RXVECTOR parameters) are not present. The PHY shall use a value of CH\_OFFSET in the Clause 19 (High Throughput (HT) PHY specification) TXVECTOR that is consistent with [Table *[CID #2060]*38-3](#_bookmark7) [(Interpretation of FORMAT, NON\_HT\_MODULATION, and CH\_BANDWIDTH parameters)](#_bookmark7). A 20 MHz- only non-AP UHR STA supports HT transmission only on 20 MHz channel width.

On receipt of a PHY-CONFIG.request(PHYCONFIG\_VECTOR) primitive, the UHR PHY behaves, for the purposes of HT PPDU transmission and reception, as if it were a Clause 19 (High Throughput (HT) PHY specification) PHY that had received PHY-CONFIG.request (PHYCONFIG\_VECTOR) primitive but without the PHYCONFIG\_VECTOR parameters CHANNEL\_WIDTH, CENTER\_FREQUENCY\_SEGMENT\_0, NPCA\_PRIMARY\_CHANNEL,*[CID #2744/3496]* and DISABLED\_SUBCHANNEL\_BITMAP, and with the PHYCONFIG\_VECTOR parameter SECONDARY\_CHANNEL\_OFFSET set to SECONDARY\_CHANNEL\_NONE if dot11CurrentChannelWidth indicates 20 MHz, to SECONDARY\_CHANNEL\_ABOVE if *fP20,idx* < *fS20,idex[CID #3297]*, or to SECONDARY\_CHANNEL\_BELOW otherwise.

As defined in [38.3.23 (UHR receive procedure)](#_bookmark322), once a PPDU is received and detected as an HT PPDU, the behavior of the UHR PHY is defined in Clause 19 (High Throughput (HT) PHY specification). The RXVECTOR parameters in Table 19-1 (TXVECTOR and RXVECTOR parameters) are directly used, and the RXVECTOR parameters not listed in Table 19-1 (TXVECTOR and RXVECTOR parameters) are not present. A 20 MHz-only non-AP UHR STA supports HT reception only on 20 MHz channel width.

#### 38.2.6.4 Support for VHT format

The behavior of a UHR PHY on receipt of a PHY-TXSTART.request(TXVECTOR) primitive with the TXVECTOR parameter FORMAT equal to VHT is defined in Clause 21 (Very High Throughput (VHT) PHY specification) except that the requirements in [38.3.20.3 (Transmit center frequency and symbol clock](#_bookmark298) [frequency tolerance)](#_bookmark298) apply instead of the requirements in 21.3.17.3 (Transmit center frequency and symbol clock frequency tolerance).

The UHR TXVECTOR parameters in Table 38-1 (TXVECTOR and RXVECTOR parameters) are mapped directly to Clause 21 (Very High Throughput (VHT) PHY specification) TXVECTOR parameters in Table 21-1 (TXVECTOR and RXVECTOR parameters). The~~When the TXVECTOR parameter FORMAT equals to VHT, the Clause 21 (Very High Throughput (VHT) PHY specification) TXVECTOR parameters in Table 21-1 (TXVECTOR and RXVECTOR parameters) are directly used, and the~~ *[CID #565]*TXVECTOR parameters not listed in Table 21- 1 (TXVECTOR and RXVECTOR parameters) are not present. The 20 MHz-only non-AP UHR STA supports VHT transmission only on 20 MHz channel width.

On receipt of a PHY-CONFIG.request(PHYCONFIG\_VECTOR) primitive, the UHR PHY behaves, for the purposes of VHT PPDU transmission and reception, as if it were a Clause 21 (Very High Throughput (VHT) PHY specification) PHY that received the PHY-CONFIG.request(PHYCONFIG\_VECTOR) primitive except that:

* the PHYCONFIG\_VECTOR parameters DISABLED\_SUBCHANNEL\_BITMAP and NPCA\_PRIMARY\_CHANNEL are~~is~~ ignored *[CID #2745/3496]*
* the CHANNEL\_WIDTH parameter, if it is equal to 320 MHz, is replaced by 160 MHz
* the CENTER\_FREQUENCY\_SEGMENT\_0 parameter, if the CHANNEL\_WIDTH parameter is equal to 320 MHz, is replaced by the center of the primary 160 MHz channel.

As defined in [38.3.23 (UHR receive procedure)](#_bookmark322), once a PPDU is received and detected as an VHT PPDU, the behavior of the UHR PHY is defined in Clause 21 (Very High Throughput (VHT) PHY specification). The RXVECTOR parameters in Table 21-1 (TXVECTOR and RXVECTOR parameters) are directly used, and the UHR PHY parameters not listed in Table 21-1 (TXVECTOR and RXVECTOR parameters) are not present. A 20 MHz-only non-AP UHR STA supports VHT reception only on 20 MHz channel width.

#### 38.2.6.5 Support for HE format

The behavior of a UHR PHY on receipt of a PHY-TXSTART.request(TXVECTOR) primitive with the TXVECTOR parameter FORMAT equal to HE\_SU, HE\_ER\_SU, HE\_MU, or HE\_TB is defined in Clause 27 (High Efficiency (HE) PHY specification) except that the requirements in [38.3.20.3 (Transmit](#_bookmark298) [center frequency and symbol clock frequency tolerance)](#_bookmark298) apply instead of the requirements in 27.3.21.3 (Transmit center frequency and symbol clock frequency tolerance).

The UHR TXVECTOR parameters in Table 38-1 (TXVECTOR and RXVECTOR parameters) are mapped directly to Clause 27 (High Efficiency (HE) PHY specification) TXVECTOR parameters in Table 27-1 (TXVECTOR and RXVECTOR parameters). ~~When the TXVECTOR parameter FORMAT equals to VHT, the Clause 27 (High Efficiency (HE) PHY specification) TXVECTOR parameters in Table 27- 1 (TXVECTOR and RXVECTOR parameters) are directly used.~~ *[CID #1078/2061/2243/2746/3494]*The TXVECTOR parameters not listed in Table 27- 1 (TXVECTOR and RXVECTOR parameters) are not present.

On receipt of a PHY-CONFIG.request(PHYCONFIG\_VECTOR) primitive, the UHR PHY behaves, for the purposes of HE PPDU transmission and reception, as if it were a Clause 27 (High Efficiency (HE) PHY specification) PHY that received the PHY-CONFIG.request(PHYCONFIG\_VECTOR) primitive except that:

* the PHYCONFIG\_VECTOR parameters DISABLED\_SUBCHANNEL\_BITMAP and NPCA\_PRIMARY\_CHANNEL are~~is~~ ignored *[CID #2747/3496]*
* the CHANNEL\_WIDTH parameter, if it is equal to 320 MHz, is replaced by 160 MHz
* the CENTER\_FREQUENCY\_SEGMENT\_0 parameter, if the CHANNEL\_WIDTH parameter is equal to 320 MHz, is replaced by the center of the primary 160 MHz channel.

As defined in [38.3.23 (UHR receive procedure)](#_bookmark322), once a PPDU is received and detected as an HE PPDU, the behavior of the UHR PHY is defined in Clause 27 (High Efficiency (HE) PHY specification). The RXVECTOR parameters in Table 27-1 (TXVECTOR and RXVECTOR parameters) are directly used, and the RXVECTOR parameters not listed in Table 27-1 (TXVECTOR and RXVECTOR parameters) are not present.

#### 38.2.6.6 Support for EHT format

The behavior of a UHR PHY on receipt of a PHY-TXSTART.request(TXVECTOR) primitive with the TXVECTOR parameter FORMAT equal to EHT\_MU or EHT\_TB is defined in Clause 36 (Extremely high throughput (EHT) PHY specification) except that the requirements in [38.3.20.3 (Transmit](#_bookmark298) [center frequency and symbol clock frequency tolerance)](#_bookmark298) apply instead of the requirements in 36.3.20.3 (Transmit center frequency and symbol clock frequency tolerance).

The UHR TXVECTOR parameters in Table 38-1 (TXVECTOR and RXVECTOR parameters) are mapped directly to Clause 36 (Extremely High Throughput (EHT) PHY specification) TXVECTOR parameters in Table 36-1 (TXVECTOR and RXVECTOR parameters). ~~When the TXVECTOR parameter FORMAT equals to VHT, the Clause 36 (Extremely high throughput (EHT) PHY specification) TXVECTOR parameters in Table 36-1 (TXVECTOR and RXVECTOR parameters) are directly used.~~ *[CID #295/1079/2062/2244/2748/3495]*The TXVECTOR parameters not listed in Table 36-1 (TXVECTOR and RXVECTOR parameters) are not present.

On receipt of a PHY-CONFIG.request(PHYCONFIG\_VECTOR) primitive, the UHR PHY behaves, for the purposes of EHT PPDU transmission and reception, as if it were a Clause 36 (Extremely high throughput (EHT) PHY specification) PHY that received the PHY-CONFIG.request(PHYCONFIG\_VECTOR) primitive with the PHYCONFIG\_VECTOR parameter NPCA\_PRIMARY\_CHANNEL ignored.*[CID #2749/3496]*.

As defined in [38.3.23 (UHR receive procedure)](#_bookmark322), once a PPDU is received and detected as an EHT PPDU, the behavior of the UHR PHY is defined in Clause 36 (Extremely high throughput (EHT) PHY specification). The RXVECTOR parameters in Table 36-1 (TXVECTOR and RXVECTOR parameters) are directly used, and the RXVECTOR parameters not listed in Table 36-1 (TXVECTOR and RXVECTOR parameters) are not present.

***--------------------------- End of resolutions for 38.2.6 ----------------------------------***

**References:**

1. **IEEE P802.11bn/D0.1, Jan 2025**
2. **IEEE P802.11bn/D0.2, Mar 2025**