IEEE P802.11
Wireless LANs

|  |
| --- |
| CC36 CR for EHT\_PPDU\_TYPE |
| Date: 2021.10.28 |
| Author(s): |
| Name | Company | Address | Phone | email |
| Mengshi Hu | Huawei Technologies | F3-6-A118, Huawei Base, Bantian, Longgang, Shenzhen, Guangdong, China, 518129 |  | humengshi@huawei.com |
| Ross Yu |  |  |  |
| Ming Gan |  |  |  |
| Stephen McCann  |  |  |  |
| Eungsung | LG |  |  |  |

Abstract

This submission contains proposed 16 comment resolutions for the comments on P802.11be D1.0.

CIDs: **4526, 4527, 4896, 5456, 5457, 5458, 5804, 6097, 6911, 7644, 7645, 7646, 7978, 7979, 8084, 8085**

**Revision Notes**

|  |  |
| --- | --- |
| R0 | Initial revision |

## CID 4526

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 318.46 | 36.2.2 | Need to add a row for FORMAT is EHT\_MU and UPLINK\_FLAG is 1 | as in the comment. | REVISEDNote: Change “EHT\_TB” into “EHT\_MU”.***Instructions to the editor:*** **Please make the changes as shown in 11/21-1667r2, under CID 8085.** |

## CID 4527

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 318.50 | 36.2.2 | Format is EHT\_TB contradicts with the above row of Format is EHT\_TB and UPLink\_FLAG is 1 | as in the comment. | REVISEDNote: Change “EHT\_TB” into “EHT\_MU”.***Instructions to the editor:*** **Please make the changes as shown in 11/21-1667r2, under CID 8085.** |

## CID 4896

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 318.50 | 36.2.2 | EHT PPDU type is coupled with the Uplink \_flag. and since TB PPDU is already defined in the upper row, the third row in the EHT\_PPDU\_TYPE row does not seem to need in this table, delete this row. | As in comment | REVISEDChange the second row to avoid confusion.***Instructions to the editor:*** **Please make the changes as shown in 11/21-1667r2, under CID 8085.** |

## CID 5456

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 318.42 | 36.2.2 | There is no DL OFDMA PPDU, change to DL OFDMA transmission. Check other places too | as in comment | REVISED***Instructions to the editor:*** **Please make the changes as shown in 11/21-1667r2, under CID 8085.** |

## CID 5457

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 318.48 | 36.2.2 | There is no UL OFDMA PPDU. Also change UL SU to UL SU transmission. | as in comment  | REVISED***Instructions to the editor:*** **Please make the changes as shown in 11/21-1667r2, under CID 8085.** |

## CID 5458

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 318.50 | 36.2.2 | Always set to 0 is not clear on the definition  | Change to "set to 0 to indicate a trigger based transmission" | REVISED***Instructions to the editor:*** **Please make the changes as shown in 11/21-1667r2, under CID 8085.** |

## CID 5804

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 318.42 | 36.2.2 | Something in the EHT\_PPDU\_TYPE value is wrong  | 1. change "Set to 2 to indicate a DL non-OFDMA transmission to a single user." to"Set to 2 to indicate a DL non-OFDMA transmission to two or more users."2. change "FORMAT is EHT\_TB and UPLINK\_FLAG is 1" to "FORMAT is EHT\_MU and UPLINK\_FLAG is 1"3. delete "Set to 0 to indicate an UL OFDMA PPDU."4. change "Always set to 0" to "Set to 0 to indicate an UL OFDMA transmission or UL non-OFDMA transmission to two or more users."  | REVISED***Instructions to the editor:*** **Please make the changes as shown in 11/21-1667r2, under CID 8085.** |

## CID 6097

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 318.50 | 36.2.2 | For the shake of clarity, must be included here "FORMAT is EHT\_TB and UPLINK\_FLAG is 0"  | Add "and UPLINK\_FLAG is 0"  | REJECTEDFor EHT\_TB, the uplink flag shall be 1 instead of 0.However, because only the value of 1 is used, in UPLINK FLAG, the UPLINK\_FLAG is not present (N, N).Thus we do not need to have the UPLINK\_ FLAG there for an EHT\_TB.***Instructions to the editor:*** **Please make the changes as shown in 11/21-1667r2, under CID 8085.** |

**Discussion:**

**Discussion ends**

## CID 6911

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 318.49 | 36.2.2 | The conditions for EHT\_PPDU\_TYPE are not exclusive.  | Either delete the third row with "FORMAT is EHT\_TB" or add additional condition to make all conditions f ro EHT\_PPUD\_TYPE be exclusive.  | REVISEDThe second row has been changed.***Instructions to the editor:*** **Please make the changes as shown in 11/21-1667r2, under CID 8085.** |

## CID 7644

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 318.42 | 36.2.2 | Clarify difference between DL SU and DL non-OFDMA transmission to a single user. Also, it seems DL non-OFDMA+MU-MIMO and OFDMA+MU-MIMO are missing.  | See comment.  | REVISEDTo make it clear, use the same description shown in the table *Combination of UL/DL and PPDU Type And Compression Mode field*. To be consistent with the table, there is no SU transmission.***Instructions to the editor:*** **Please make the changes as shown in 11/21-1667r2, under CID 8085.** |

## CID 7645

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 318.47 | 36.2.2 | Clarify whether EHT\_TB format is used for UL SU or EHT sounding NDP. In my opinion, we shall use EHT\_MU format with ULPLINK\_FLAG = 1.  | See comment.  | REVISEDThe second row has been changed. EHT\_TB is shown in row 3.***Instructions to the editor:*** **Please make the changes as shown in 11/21-1667r2, under CID 8085.** |

## CID 7646

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 318.50 | 36.2.2 | Format EHT\_TB is optional? Please clarify.  | See comment.  | REVISEDNote that FORMAT is not optional. It can be found in the TXVECTOR/RXVECTOR FORMAT. Both are “Y”.Here the optional one is the TXVECTOR/RXVECTOR EHT\_PPDU\_TYPE. There is only one EHT\_PPDU\_TYPE for the FORMAT EHT\_TB (Value of EHT\_PPDU\_TYPE=0), and it is not used in other TXVECTOR or REVECTOR. Similarly, the second row can also be optional because there is only one EHT\_PPDU\_TYPE for it (Value of EHT\_PPDU\_TYPE=1). Note that the EHT\_PPDU\_TYPE in this case (FORMAT is EHT\_MU and UPLINK\_FLAG is 1) is also not used in other TXVECTOR or RXVECTOR. ***Instructions to the editor:*** **Please make the changes as shown in 11/21-1667r2, under CID 8085.** |

## CID 7978

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 318.44 | 36.2.2 | DL MU-MIMO is missing.Note that P411L16-23 says that "PPDU Type And Compression Mode"=2 in U-SIG means non-OFDMA DL MU-MIMO.  | Change"Set to 2 to indicate a DL non-OFDMA transmission to a single user."to"Set to 2 to indicate a DL non-OFDMA DL MU-MIMO transmission."  | REVISED***Instructions to the editor:*** **Please make the changes as shown in 11/21-1667r2, under CID 8085.** |

## CID 7979

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 318.47 | 36.2.2 | 1. There are two rows with FORMAT = EHT\_TB.2. UL SU and UL EHT sounding NDP are EHT\_MU, not EHT\_TB3. EHT TB is used for both UL OFDMA and UL MU-MIMO  | At P318L47, change"FORMAT is EHT\_TB and UPLINK\_FLAG is 1"to"FORMAT is EHT\_MU and UPLINK\_FLAG is 1"At P318L47, delete"Set to 0 to indicate an UL OFDMA PPDU."At P318L50, change"Always set to 0."to"Set to 0 to indicate an UL OFDMA or UL MU-MIMO PPDU."  | REVISED***Instructions to the editor:*** **Please make the changes as shown in 11/21-1667r2, under CID 8085.** |

## CID 8084

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 318.44 | 36.2.2 | When setting to 2, it indicates a DL non-OFDMA transmission to multiple users.  | as in comment  | REVISED***Instructions to the editor:*** **Please make the changes as shown in 11/21-1667r2, under CID 8085.** |

## CID 8085

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 318.47 | 36.2.2 | logically, Condition "FORMAT is EHT\_TB and UPLINK\_FLAG is 1" and "FORMAT is EHT\_TB" is overapped.In "FORMAT is EHT\_TB and UPLINK\_FLAG is 1", it should be FORMAT is EHT\_MU. Then set to 1 it indicates UL SU or EHT sounding DNP. In "FORMAT is EHT\_TB", set to 0 to indicate an UL OFDMA PPDU  | as in comment  | REVISED***Instructions to the editor:*** **Please make the changes as shown in 11/21-1667r2, under CID 8085.** |

***Instructions to the editor, please make the following changes from P418, L36 in P802.11be D1.2:***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| EHT\_PPDU\_TYPE | FORMAT is EHT\_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 DL transmission to a single user or NDP. Set to 2 to indicate a DL MU-MIMO (non-OFDMA) transmission. | Y | Y |
| FORMAT is EHT\_MU and UPLINK\_FLAG is 1 | Set to 1 to indicate an UL transmission to a single user or NDP. | O | O |
| FORMAT is EHT\_TB | Set to 0 to inidicate an UL OFDMA or UL non-OFDMA transmission (including non-MU-MIMO and MU-MIMO). | O | O |
| Otherwise | Not present. | N | N |

**Discussion:**

****

****

**End of Discussion**