IEEE P802.11  
Wireless LANs

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| CC36 CR for RU\_ALLOCATION and L\_LENGTH in TXVECTOR and RXVECTOR | | | | |
| Date: 2021.08.05 | | | | |
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Abstract

This submission contains proposed 7 comment resolutions for the comments on P802.11be D1.0.

CIDs: **5459, 7980, 5461, 7125, 4892, 7652, 4898**

**Revision Notes**

|  |  |
| --- | --- |
| R0 | Initial revision |
| R1 | Editorial change |

# CIDs related to L\_LENGTH

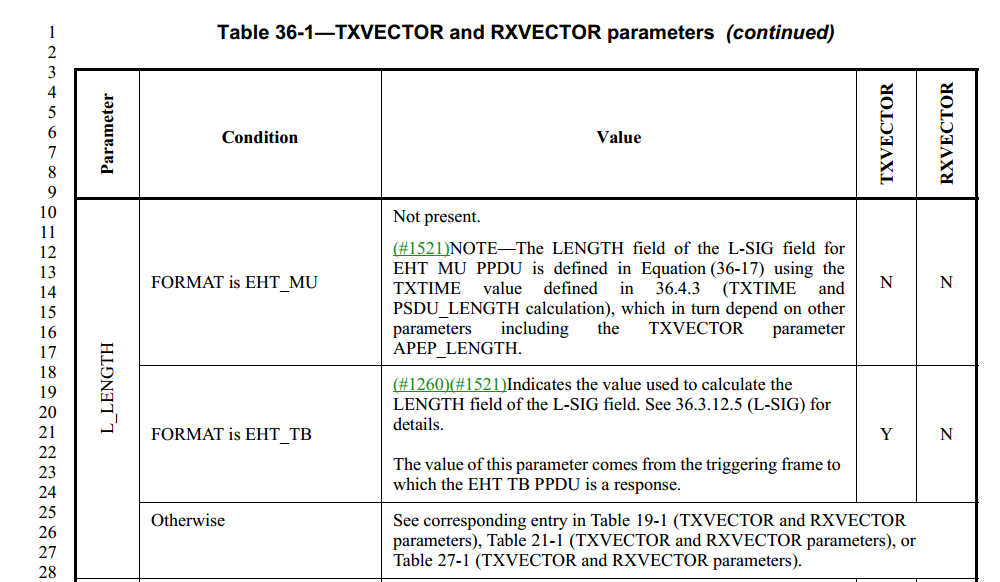
## CID 5459

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.  Line | Clause Number | Comment | Proposed Change | Resolution |
| 319.20 | 36.2.2 | TXVCECTOR for L\_LENGTH needs to be clarified. It is equal to the value in the UL length field in the trigger frame. Please refer to subclause 9.3.1.22.1.1 Common Info field for UL Length field. | As in comment | REVISED  ***Instructions to the editor:***  **Please make the changes as shown in 11/21-1302r1, under CID 7980.** |

## CID 7980

|  |  |  |  |  |
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| Page.  Line | Clause Number | Comment | Proposed Change | Resolution |
| 319.24 | 36.2.2 | "a" should be "the" | Change "EHT TB PDU is a response." to "EHT TB PPDU is the response." | REVISED  ***Instructions to the editor:***  **Please make the changes as shown in 11/21-****1302r1, under CID 7980.** |

**Discussion:**

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**Discussion ends**

***Instructions to the editor, please make the following changes to P369, L23 in P802.11be D1.1:***

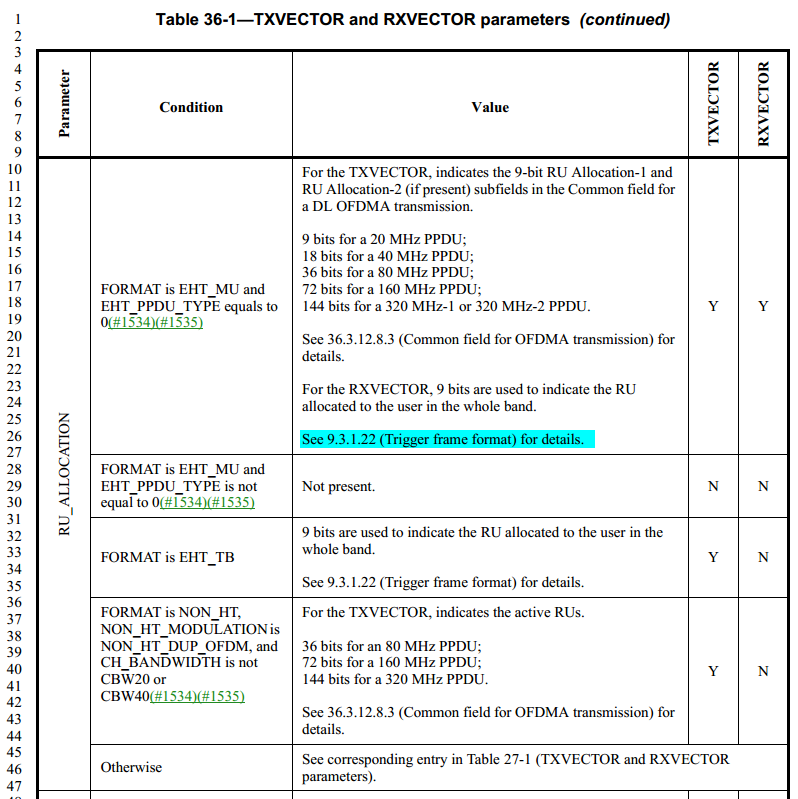
The value of this parameter comes from the triggering frame to which the EHT TB PPDU is the response (See the UL Length field in 9.3.1.22.1.1 (Common Info field) for details).

# CIDs related to RU\_ALLOCATION (EHT\_MU)

## CID 5461

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.  Line | Clause Number | Comment | Proposed Change | Resolution |
| 326.21 | 36.2.2 | Clarify that RXVECTOR uses the 9 bits from the trigger frame, not just see 9.3.1.22 (Trigger frame format) for details | as in comment | REVISED  ***Instructions to the editor:***  **Please make the changes as shown in 11/21-1302r1, under CID 5461.** |

**Discussion**



**Discussion ends**

***Instructions to the editor, please make the following changes to P376, L24 in P802.11be D1.1:***

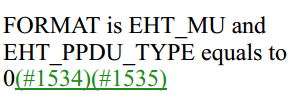
For the RXVECTOR, 9 bits using the same RU allocation encoding as in the Trigger frame are used to indicate the RU allocated to the user in the whole band.

See 9.3.1.22 (Trigger frame format) for details.

## CID 7125

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.  Line | Clause Number | Comment | Proposed Change | Resolution |
| 326.18 | 36.2.2 | Typo. Change "equals to" to "is equal to" | See comment | ACCEPTED |

Discussion:



Discussion ends

# CIDs related to RU\_ALLOCATION (NON\_HT)

## CID 4982

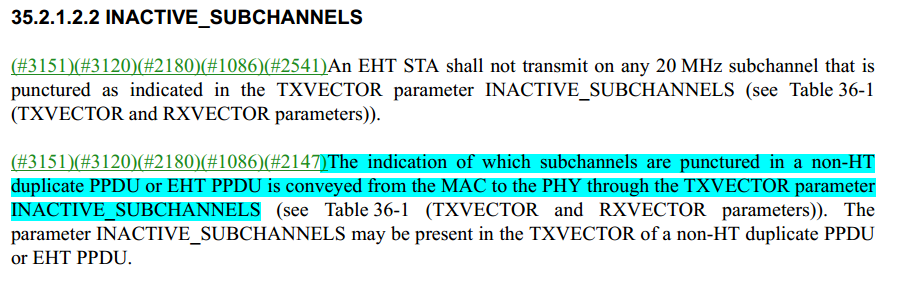
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| --- | --- | --- | --- | --- |
| Page.  Line | Clause Number | Comment | Proposed Change | Resolution |
| 326.36 | 36.2.2 | In Non-HT PPDU, the RU\_ALLOCATION parameter only indicates whether the corresponding 20 MHz channel is punctured or not. Since the punctured channel information is indicated in the INACTIVE\_SUBCHANNELS parameter, we don't have to use the RU\_ALLOCATION parameter in Non-HT PPDU. | See the comment. | REVISED  ***Instructions to the editor:***  ***Please make the following changes to P376, L40 of P802.11be D1.1:***    Change "Y" to "O" |

## CID 7652

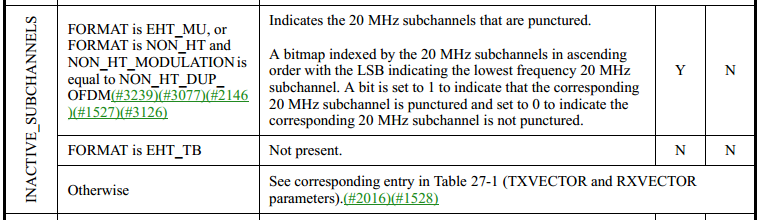
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.  Line | Clause Number | Comment | Proposed Change | Resolution |
| 326.36 | 36.2.2 | What is use of RU\_ALLOCATION in NON\_HT\_DUP? Please clarify. | See comment. | REVISED  ***Instructions*** ***to the editor:***  ***Please make the following changes to P376, L40 of P802.11be D1.1:***  Change "Y" to "O".  Note to the editor: The resolutions for CIDs 7652 and 4982 are the same. |

**Discussion：**

In 11be, we have the following descriptions on the TXVECTOR for the puncturing in Non-HT and EHT PPDU:

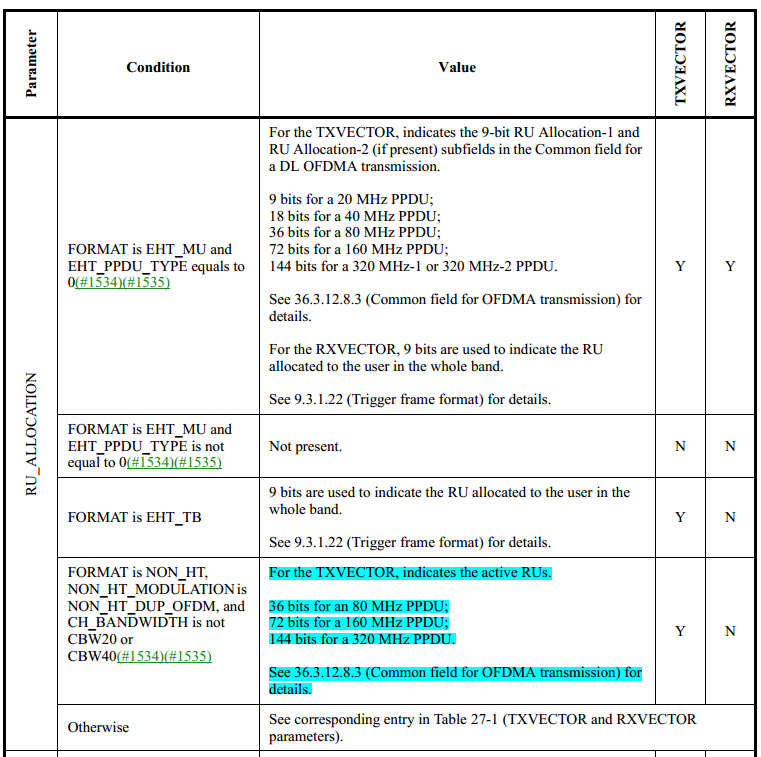


It shows that the INACTIVE\_SUBCHANNELS shows the puncturing information for the non-HT duplicate PPDU.



Thus to indicate the puncturing information, the RU\_ALLOCATION for the case FORMAT is NON\_HT, NON\_HT\_MODULATION is NON\_HT\_DUP\_OFDM, and CH\_BANDWIDTH is not CBW20 or CBW40 is not mandatorily required. Two options can be chosen for the above CIDs:

1. RU\_ALLOCATION in this case: Not present; N, N
2. Make the RU\_ALLOCATION in this case Optional (Change “Y” to “O”) (This is the resolution for the CIDs)



Note that in 11ax, the puncturing information for non-HT duplicate PPDU is conveyed from the MAC to the PHY through the TXVECTOR parameters INACTIVE\_SUBCHANNELS and RU\_ALLOCATION.

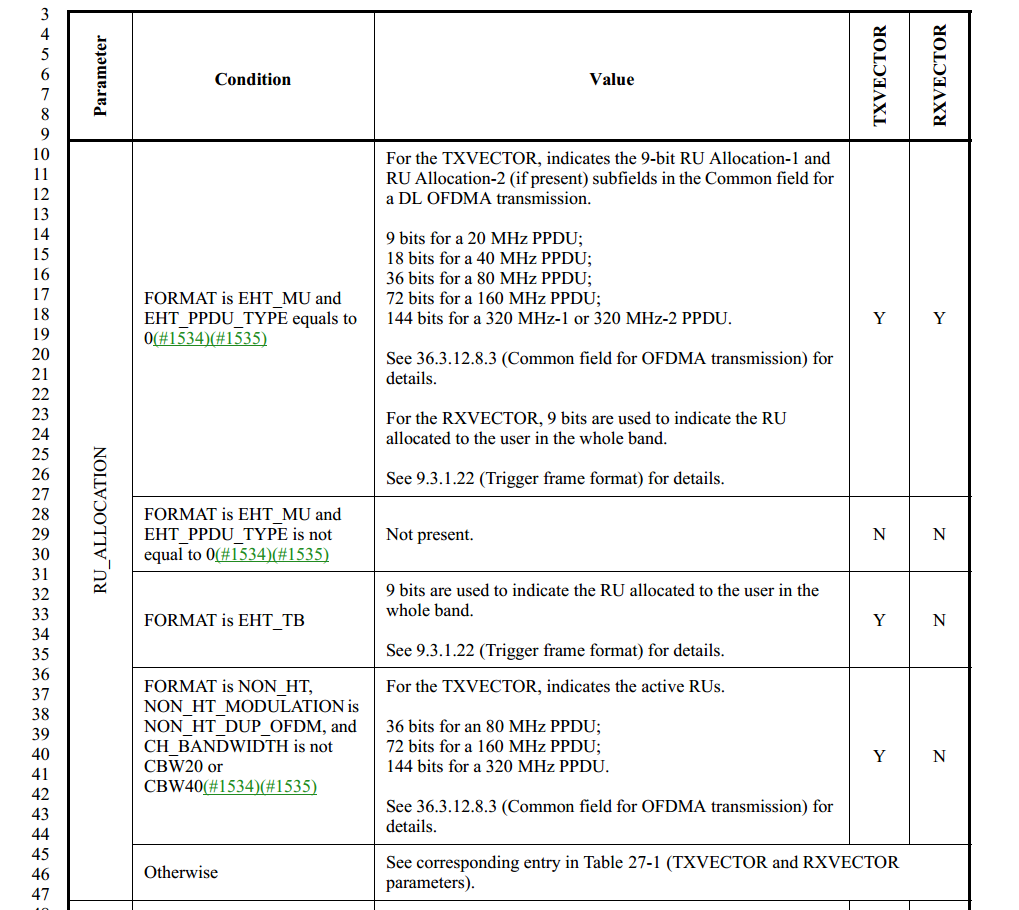
**Discussion ends**

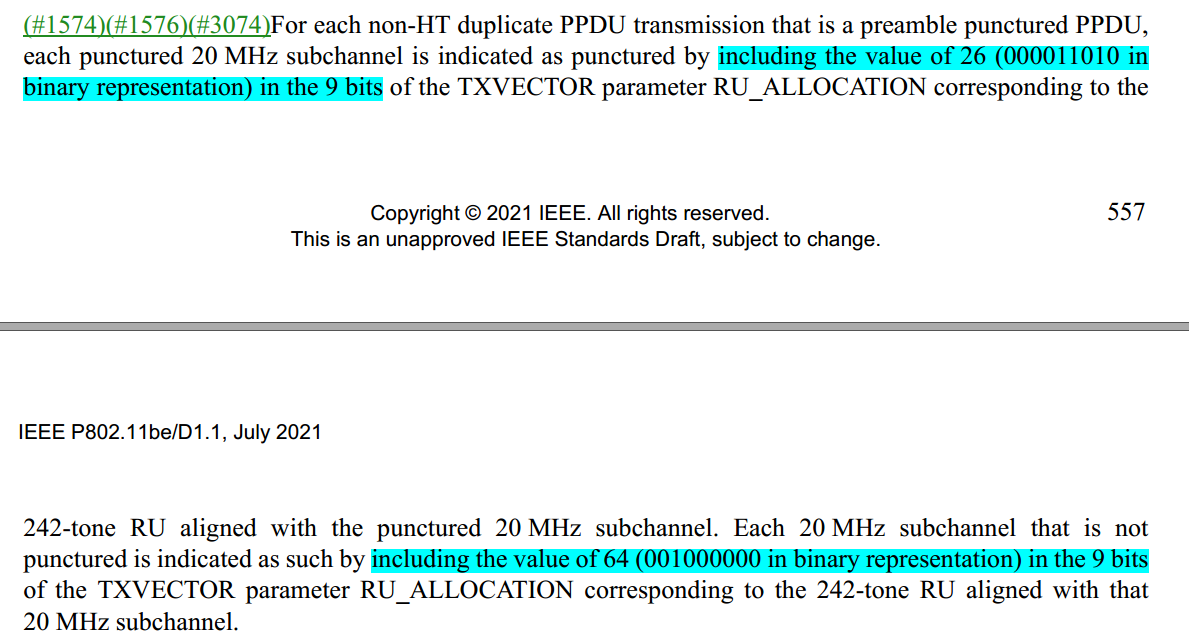
## CID 4898

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| --- | --- | --- | --- | --- |
| Page.  Line | Clause Number | Comment | Proposed Change | Resolution |
| 326.37 | 36.2.2 | In the Non-HT duplicate transmission, each 9bit of RU allocation just use to indicate whether the 20MHz subchannel is available or not. therefore, in this case, for the 9bit, the following two cases only are used.  26 (000011010)  64 (001000000) | Add the following text in the row of value when FORMAT is Non-HT in RU allocation parameter of table 36-1  "For each 9 bits, only the following values are allowed:  26 (000011010 in binary  representation)  64 (001000000 in binary representation)" | REVISED  ***Instructions to the editor:***  **Please make the changes as shown in 11/21-1302r1, under CID 4898.** |

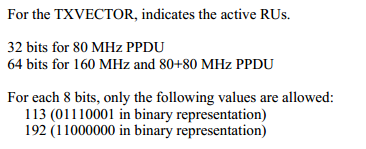
**Discussion:**

The resolution is based on that the





In 11ax, we have:



**Discussion ends**

***Instructions to the editor, please make the following changes to P376, L42 in P802.11be D1.1:***

For each 9 bits, only the following values are allowed:

26 (000011010 in binary representation)

64 (001000000 in binary representation)

See 36.3.12.8.3 (Common field for OFDMA transmission) and 36.3.15 (Non-HT duplicate transmission) for details.