IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| D1.0 CRs on 36.2.3 TRIGVECTOR parameters | | | | |
| Date: 2021-11-02 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Bo Gong | Huawei |  |  | [gongbo8@huawei.com](mailto:gongbo8@huawei.com) |
| Bo Sun | ZTE |  |  | [sun.bo1@ZTE.COM.CN](mailto:sun.bo1@ZTE.COM.CN) |
| Ross Jian Yu | Huawei |  |  | [ross.yujian@huawei.com](mailto:ross.yujian@huawei.com) |

This submission shows

* Resolution for a comment received from TGbe comment collection (based on TGbe Draft D1.0)
* The proposed changes are based on TGbe Draft D1.2.

The submission provides resolutions to following CIDs

4535, 5462, 5715, 5809, 5810, 6825

# Revision Notes

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

## CID 4535

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.  Line | Clause Number | Comment | Proposed Change | Resolution |
| 329.58 | 36.2.3 | For GI\_AND\_EHT\_LTF\_TYPE, need to add GI values to the enumerated types | as in the comment. | Revised  For EHT TB PPDU, three EHT-LTF type and GI duration combinations are supported, which are 1**×** EHT-LTF and 1.6 μs GI, 2**×** EHT-LTF and 1.6 μs GI, and 4**×** EHT-LTF and 3.2 μs GI.  **Instructions to the editor:**  **Please make the changes as shown in 11/21-1763r0**  Note to the editor: The resolutions for CID 4535 and CID 5715 in 11/21-1763r0 are the same. |

## CID 5715

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.  Line | Clause Number | Comment | Proposed Change | Resolution |
| 329.58 | 36.2.3 | The field name is "GI\_AND\_EHT\_LTF\_TYPE", in the description, only LTF is indicated but no GI information is provided | Add corresponding GI information for each defined LTF length | Revised  For EHT TB PPDU, three EHT-LTF type and GI duration combinations are supported, which are 1**×** EHT-LTF and 1.6 μs GI, 2**×** EHT-LTF and 1.6 μs GI, and 4**×** EHT-LTF and 3.2 μs GI.  **Instructions to the editor:**  **Please make the changes as shown in 11/21-1763r0**  Note to the editor: The resolutions for CID 4535 and CID 5715 in 11/21-1763r0 are the same. |

**Background:**

Table 36-44 summarizes the EHT-LTF type and GI duration combinations for various EHT PPDU formats. For EHT TB PPDU, three EHT-LTF type and GI duration combinations are supported, which are:

* 1**×** EHT-LTF and 1.6 μs GI
* 2**×** EHT-LTF and 1.6 μs GI
* 4**×** EHT-LTF and 3.2 μs GI



**Instructions to the editor:**

Please make the following changes in Line 58 Page 429 of TGbe Draft D1.2.

**Table 36-2—TRIGVECTOR parameters(#1539)**

|  |  |
| --- | --- |
| **Parameter** | **Value** |
| CH\_BANDWIDTH | Indicates the bandwidth in the EHT-SIG of the expected EHT TB PPDU(s).  Enumerated type:  CBW20 for 20 MHz.  CBW40 for 40 MHz.  CBW80 for 80 MHz.  CBW160 for 160 MHz.  CBW320-1 for 320-1 MHz.  CBW320-2 for 320-2 MHz. |
| UL\_LENGTH | Indicates the value of the L-SIG LENGTH field of the expected EHT TB PPDU(s). |
| GI\_AND\_EHT\_LTF\_TYPE | Indicates the EHT-LTF type and GI duration combination of the expected EHT TB PPDU(s).  Enumerated type:  1EHT-LTF + 1.6μs GI .  2EHT-LTF + 1.6μs GI .  4EHT-LTF + 3.2μs GI . |

## CID 5462

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.  Line | Clause Number | Comment | Proposed Change | Resolution |
| 329.56 | 36.2.3 | Add a clarification that the UL\_LENGTH is equal to the one indicated in the trigger frame plus 2 | as in comment. | REVISED  Agreed in principle. Reflect the detailed explanation.  **Instructions to the editor**  **Please make the changes as shown in 11/21-1763r0**  Note to the editor: The resolutions for CID 5462 and CID 6825 in 11/21-1763r0 are the same. |

## CID 6825

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.  Line | Clause Number | Comment | Proposed Change | Resolution |
| 329.56 | 36.2.3 | Incorrect description: "Indicates the value of the L-SIG LENGTH field of the expected EHT TB PPDU(s)."  UL\_LENGTH is the L-SIG LENGTH according to the 'HE' definition, ie, with m=2, and the L-SIG LENGTH of the EHT TB PPDU is calculated with m=0 | Provide a reference to the correct relationship between L-SIG length of the EHT TB PPDU and UL\_LENGTH. | REVISED  Agreed in principle. Reflect the detailed explanation.  **Instructions to the editor**  **Please make the changes as shown in 11/21-1763r0**  Note to the editor: The resolutions for CID 5462 and CID 6825 in 11/21-1763r0 are the same. |

**Discussion:**

In the process that a trigger frame solicits an EHT TB PPDU, there exists four similar indications. Their values are summarized as follows for clarification.

* The UL LENGTH subfield in a Trigger Frame shall be set as the value given by Equation (27-11) with m=2. (Line 12 Page 378 in TGbe Draft 1.2)
* For the non-AP EHT STA, the L\_LENGTH of the TXVECTOR is set to the value indicated by the UL LENGTH subfield in the Common Info field of the Trigger frame. (Line 5 Page 379 in TGbe Draft 1.2)
* For an EHT TB PPDU, the LENGTH field in L-SIG is set to the TXVECTOR parameter L\_LENGTH + 2. (Line 10 Page 507 in TGbe Draft 1.2)

Moreover, in the current spec, the UL\_LENGTH in TRIGVECTOR indicates the value of the L-SIG LENGTH field of the expected EHT TB PPDU. Since TRIGVECTOR provides the PHY of the AP with the parameters needed to receive an EHT TB PPDU, the UL\_LENGTH in TRIGVECTOR is equal to the value of the UL LENGTH subfield in a Trigger Frame plus 2. Thus, we propose to add a NOTE for clarification.

**Instructions to the editor:**

Please insert the following sentence in Line 56, Page 429 of TGbe Draft D1.2.

|  |  |
| --- | --- |
| UL\_LENGTH | Indicates the value of the L-SIG LENGTH field of the expected EHT 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. |

## CID 5809

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.  Line | Clause Number | Comment | Proposed Change | Resolution |
| 329.35 | 36.2.3 | "each assigned RU" should be changed to "each assigned RU or MRU" | as in the comment | ACCEPTED |

## CID 5810

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Page.  Line | Clause Number | Comment | Proposed Change | Resolution |
| 329.46 | 36.2.3 | EHT TB PPDU does not include EHT-SIG | change "Indicates the bandwidth in the EHT-SIG of the expected EHT TB PPDU(s)"  to "Indicates the bandwidth in the U-SIG of the expected EHT TB PPDU(s)" | ACCEPTED |