IEEE P802.11
Wireless LANs

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| D1.0 CRs on 36.2.3 TRIGVECTOR parameters |
| Date: 2021-11-02 |
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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

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| R0 | Initial revision |
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## CID 4535

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| 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. | RevisedFor 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

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| 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 | RevisedFor 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)**

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| **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

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| 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. | REVISEDAgreed 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

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| 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. | REVISEDAgreed 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.

|  |  |
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| 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

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| 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

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| 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 |