IEEE P802.11  
Wireless LANs

|  |
| --- |
| **CC36 Comment Resolutions for 36.3.4 EHT PPDU formats** |
| **Date:** 2021-07-xx |
| **Author(s):** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Affiliation** | **Address** | **Phone** | **Email** |
| Dongguk Lim | LG Electronics | 19, Yangjae-daero 11gil, Seocho-gu, Seoul 137-130, Korea |  | dongguk.lim@lge.com |
| Eunsung Park |  | esung.park@lge.com |
| Jinyoung Chun |  | jiny.chun@lge.com |
| Jinsoo Choi |  | js.choi@lge.com |

Abstract

This submission proposes the resolutions for following 9 CIDs:

4689, 4690, 4803, 4943, 5399, 5470, 7179, 7180, and 7749

Revisions:

* Rev 0: Initial version of the document.

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGbe D1.0 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbe D1.0 Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGbe Editor: Editing instructions preceded by “TGbe Editor” are instructions to the TGbe editor to modify existing material in the TGbe draft. As a result of adopting the changes, the TGbe editor will execute the instructions rather than copy them to the TGbe Draft.***

#### *CID 7179*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 7179 | 36.3.4 | 373.25 | Change "is defined as in Figure ..." to "is defined in Figure ...". | See comment. Also on line 37. | Revised.  I agree with the commenter.  The text can be modified to clarify.  TGbe Editor: incorporate the changes in https://mentor.ieee.org/802.11/dcn/21/ 11-21-1097-00-00be-cc36-cr-for-36-3-4-EHT-PPDU-formats.docx |

***TGbe Editor: please modify the text at P395L25 and P395L38 of 11be D1.01 as follows.***

The format of the EHT MU PPDU is defined ~~as~~ in Figure 36-22 (#7179)

The format of the EHT TB PPDU is defined ~~as~~ in Figure 36-23 (#7179)

#### *CID 4943, and 5470*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 4943 | 36.3.4 | 373.26 | "This format is used for transmission to one or more users if the PPDU is not a response to a triggering frame." It is confusing that the multiple user PPDU format is used for single user. The names for the PPDU formats should be triggered and non-triggered. | as in comment | Rejected.  Only two PPDU formats, ie., EHT MU PPDU and EHT TB PPDU are defined in 11be. |
| 5470 | 36.3.4 EHT PPDU formats | 373.26 | "the PPDU is not a response to a tirggering frame" is not a condition but a statement. | Change to: "This format is used for transmission to one or more users. The PPDU is not a response to a triggering frame." | Revised.  I agree with the commenter.  TGbe Editor: incorporate the changes in https://mentor.ieee.org/802.11/dcn/21/ 11-21-1097-01-00be-cc36-cr-for-36-3-4-EHT-PPDU-formats.docx |

***TGbe Editor: please modify the text at P395L26 of 11be D1.01 as follows***

This format is used for transmission to one or more users ~~if t~~.The PPDU is not a response to a triggering frame. (#5470)

#### *CID 4690*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 4690 | 36.3.4 | 374.30 | The pre-EHT modulated fields are duplicated with phase rotations | the pre-EHT modulated fields are duplicated over multiple 20 MHz channels with phase rotations | Rejected.  I agree that phase rotation is applied to the pre-EHT modulated field of EHT-PPDU. However, since this clause introduces the frame format of EHT, it does not seem to need to add the phase rotation. Also, the Phase rotation is already described in other clauses |

#### *CID 4803*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 4803 | 36.3.4 | 373.33 | The size of the EHT-SIG is inconsistent with the size of the other fields in Figure 36-22. | Please make the size of the fields in the Figure 36-22 consistent. If the size of the fields does not relate to their duration then place them all with equal size (at least in the preamble). If the size of the fields are representing their duration (e.g., 8us is double than 4us), then EHT-SIG is wrong and needs to be smaller, also, the EHT-STF field should match the 4us field size. | Rejected.  In figure 36-22, the size of each field is based on the duration of one OFDM (i.e., 4us). Since the EHT-SIG field can be configured with a various number of OFDM symbols according to transmission mode, it can also have a large size than the size of one OFDM symbol. |

#### *CID 4689*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 4689 | 36.3.4 | 373.31 | In figure 36-22 and 36-23, EHT-LTF symbol duration depends on the GI + LTF type instead of LTF size | replace LTF size with LTF type | Rejected,  The duration of the LTF symbol is indicated by using the GI + LTF size subfield of the common field in EHT-SIG. so, it is reasonable to use the GI+LTF size for clear understanding. |

#### *CID 5399 and 7180*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 5399 | 36.3.4 | 374.42 | There is a blank row in the paragraph. | Remove the blank row. | Accepted |
| 7180 | 36.3.4 | 374.42 | Remove empty line | See comment | Accepted |

#### *CID 7749*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 7749 | 36.3.4 | 374.26 | Description of EHT TB PPDU is provided in P374L27. Description of EHT MU PPDU is missing. | Add description on EHT MU PPDU. | Rejected  Since TB PPDU is transmitted based on the allocated RU assigned by the trigger frame, it needs to be described how to configure the pre-EHT modulated field. However, the pre-EHT modulated field of MU-PPDU is configured based on the PPDU BW, it does not need to add the additional description for EHT MU PPDU. |