IEEE P802.11  
Wireless LANs

|  |
| --- |
| **LB226 Comment Resolutions for clause 36.3.4 EHT PPDU Format** |
| **Date:** 2022-08-30 |
| **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 |
| Insik Jung |  | insik0618.jung@lge.com |
| Jinsoo Choi |  | js.choi@lge.com |

Abstract

This submission proposes the resolutions for CID: 10097, 10336, 11633, 10377, 12841, 12888, and 12583

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 D2.0 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbe D2.0 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 10097*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 10097 | 36.3.4 | 606.08 | 11be added support for a 320MHz BW, this should also be expanded to support FTM | Add an NDP for ranging with 320MHz bandwidth, the format should be EHT Ranging NDP and EHT TB Ranging NDP used for TB and NTB FTM measurement exchange. | Rejected  Actually, 11az does not support the 320MHz bandwidth and the EHT PPDU format for the ranging. Therefore, we don’t need to add the PPDU format for the ranging in the 11be spec draft. |

#### *CID 10336, 11633*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 10336 | 36.3.4 | 606.20 | Regarding the words above U-SIG, there should have a blank space before the "4us". | Add a blank space before the "4us". | Accepted |
| 11633 | 36.3.4 | 606.20 | In figure 36-17 need to add a space in a description of USIG duration | Change text to 8us: 4us per symbol | Accepted |

P606L20 at D2.0



#### *CID 10377*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 10337 | 36.3.4 | 606.63 | "extension" should be "Extension" | Replace "extension" with "Extension". | Accepted |

P606L63 at D2.0



#### *CID 12841,* *12888*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 12841 | 36.3.4 | 607.04 | How to transmit the pre-EHT modulated fileds including L-STF, L-LTF, L-SIG, RL-SIG and U-SIG over 20 MHz in the EHT TB-PPDU is summarized in Subclause 36.3.4. However, a summary on how to transmit the pre-EHT modulated fields including L-STF, L-LTF, L-SIG, RL-SIG, U-SIG and EHT-SIG for EHT MU PPDU with the bandwidth > 20 MHz is missing in subclause 36.3.4 (the related text is in 36.3.6 (Transmitter block diagram) and 36.3.12.8 (EHT-SIG)). | add a summary on the transmission of the pre-EHT modulated fields for EHT MU PPDU with the bandwidth > 20 MHz in Subclause 36.3.4. | Rejected  EHT TB PPDU is transmitted by using the allocated RU/MRU and the preamble is sent on the 20Mhz channel where the allocated RU/MRU is present. So, to indicate this, we need a description of that. However, each pre-EHT modulate field in MU-PPDU is transmitted by using the occupied BW, and L-STF, L-LTF, L-SIG, RL-SIG, and U-SIG are duplicated per 20MHz channel within the occupied BW. The details are described in each sub-clause for each field. Therefore since it is self-evident, we don’t need to add additional description for EHT MU-PPDU. |
| 12888 | 36.3.4 | 607.08 | This rule for the pre-EHT modulated fields is stated only for EHT TB PPDU and not for EHT MU PPDU. According to Figure 36-19, L-SIG, RL-SIG, and U-SIG fields are duplicated over multiple 20 MHz as well. | Please add athe following rule: "In the EHT MU PPDU, the pre-EHT modulated fields, which include L-STF, L-LTF, L-SIG, RL-SIG, and U-SIG fields, are sent only on the 20 MHz channels where the STA's EHT modulated fields are present. If the STA's EHT modulated fields occupy more than one 20 MHz channel, the pre-EHT modulated fields are duplicated over multiple 20 MHz channels." | Rejected  EHT TB PPDU is transmitted by using the allocated RU/MRU and the preamble is sent on the 20Mhz channel where the allocated RU/MRU is present. So, to indicate this, we need a description of that. However, each pre-EHT modulate field in MU-PPDU is transmitted by using the occupied BW, and L-STF, L-LTF, L-SIG, RL-SIG, and U-SIG are duplicated per 20MHz channel within the occupied BW. The details are described in each sub-clause for each field. Therefore, since it is self-evident, we don’t need to add additional description for EHT MU PPDU |

P607L04



#### *CID 12583*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 12583 | 36.3.4 | 607.12 | The pre-EHT modulated fields are duplicated over multiple non-punctured 20 MHz channels. | As in comment. | Revised.  Principle I agree with the commenter.  To clarify it, the text can be modified.  Instruction to TGbe Editor: incorporate the changes in https://mentor.ieee.org/802.11/dcn/22/ 11-22-1384-00-00be-LB266-CR-for-clause 36.3.4 EHT PPDU Format.docx. |

P607L12



***TGbe Editor: please modify the following at P619L12 of 11be D2.1 as follows***

“ … duplicated over multiple non-punctured 20 MHz channels. (#12583)