IEEE P802.11  
Wireless LANs

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| [CR for clause 36.3.4] | | | | |
| Date: 2020-02-24 | | | | |
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Abstract

This submission proposes resolutions for follwing 10 CIDs: 1309, 1311, 1963, 1964, 2762, 3043, 3156, 3157, 3158, and 3168

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Editorial error fixed
* Rev 2: modified the resolution for #3109 and #3043

## CID 1309, 1311, 1963, 1964, 2762, 3043, 3156, 3157, 3158, 3168

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| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 1309 | 197.52 | 36.3.4 | "Variable durations per EHT-LTF symbol" in Figure 36-22 (EHT MU PPDU format) implies that each symbol can have a different duration, which is not the intent. | Perhaps write "Multiple EHT-LTF symbols of the same duration". Ditto P198L5 | Revised.  In principle, the commenter is right. In a PPDU, EHT-LTF symbols have the same duration and this duration is dependent on the combination of LTF type and GI.  TGbe Editor: Incorporate the changes in https://mentor.ieee.org/802.11/dcn/21/11-21-0293-02-00be-CR-for-36-3-4.docx |
| 1311 | 198.48 | 36.3.4 | Incorrect noun in "the EHT modulated fields of the STA are located" | Change "STA" to "PPDU" | Revised.  To make it clear, the sentence is modified.  TGbe Editor: Incorporate the changes in https://mentor.ieee.org/802.11/dcn/21/11-21-0293-02-00be-CR-for-36-3-4.docx |
| 1963 | 197.54 | 36.3.4 | in Figure 36-22, change the 8us of U-SIG to "8us: 4us per symbol". It is better to indicate U-SIG coontains two symbols. | as comment | Accepted |
| 1964 | 198.07 | 36.3.4 | in Figure 36-23, change the 8us of U-SIG to "8us: 4us per symbol". It is better to indicate U-SIG coontains two symbols. | as comment | Accepted |
| 2762 | 198.50 | 36.3.4 | On p.198, it is stated that for a TB PPDU, U-SIG is duplicated on every used 20 MHz channel. However, on p. 241 it is clear from the description that for both MU and TB PPDUs, U-SIG can be encoded separately for each 80 MHz. | Need to clarify in subclause 36.3.4 if for TB PPDU, U-SIG is duplicated for each 20 MHz across entire BW or separately for each 80 MHz. If the former, then the description on p. 241 needs to be modified accordingly. | Revised.  For a TB PPDU, the U-SIG per STA carries the same information across the BW. For the encoding comment, it should be directed to CR of subclause 36.3.11.7.4.  TGbe Editor: Incorporate the changes in https://mentor.ieee.org/802.11/dcn/21/11-21-0293-02-00be-CR-for-36-3-4.docx |
| 3043 | 198.65 | 36.3.4 | signal extension is only present in 2.4GHz for HT/HE/EHT/etc. why receiver shall always assume the presence? | explain or add the condition of in the 2.4GHz transmission | Rejected.  Signal extension is always present and the duration of signal extension is 0 for 5 and 6GHz transmission. |
| 3156 | 197.51 | 36.3.4 | "Variable durations per EHT-LTF symbol" sounds like each EHT-LTF symbol can have different duration | Change "Variable durations per EHT-LTF symbol" to "Variable duration" or "EHT-LTF symbol duration is variable" or simply delete "Variable durations per EHT-LTF symbol"  Same change for P198L4 | Revised.  In principle, the commenter is right. In a PPDU, EHT-LTF symbols have the same duration and this duration is dependent on the combination of LTF type and GI.  Please refer the resolution for CID 1309 in 11-21/0293r0  Note to editor: Same resolution for CID 1309 in https://mentor.ieee.org/802.11/dcn/21/11-21-0293-02-00be-CR-for-36-3-4.docx. |
| 3157 | 198.45 | 36.3.4 | Is PE part of the EHT modulated fields? | Change "EHT-LTF, and Data fields" to "EHT-LTF, Data and PE fields" | Accepted. |
| 3158 | 198.48 | 36.3.4 | Change "If the EHT modulated fields are located in more than one 20 MHz channel" to "If the EHT modulated fields occupy more than one 20 MHz channel" | Change "If the EHT modulated fields are located in more than one 20 MHz channel" to "If the EHT modulated fields occupy more than one 20 MHz channel" | Accepted |
| 3168 | 198.53 | 36.3.4 | P198L53 says Signal Extension is present if NO\_SIG\_EXTN is false. P198L57 says Signal Extension is present if NO\_SIG\_EXTN is false AND "one of the following conditions applies".  So, the two paragraphs seem not aligned with each other. | Consolidate the two paragraphs at P198L53 and P198L57 into one coherent rule. | Revised.  Referred clause10.3.8 (Signal extension) includes the same conditions described in the second paragraph.  So, to make it clear, two paragraphs can be modified as in DCN 11-21/293.  TGbe Editor: Incorporate the changes in https://mentor.ieee.org/802.11/dcn/21/11-21-0293-02-00be-CR-for-36-3-4.docx |

Propose :

***TGbe editor: please modify the figure 36-22 and 36-23 as follows***

 Figure 36-22—EHT MU PPDU format (#1309, #1963, and #3156)

 Figure 36-23—EHT TB PPDU format (#1309, #1964, and #3156)

***TGbe editor: please modify the sentence in P198L48 as follows***

In the EHT TB 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 ~~of the STA~~ are ~~located~~present. If the STA’s EHT modulated fields ~~are located in~~ occupy more than one 20 MHz channel, the pre-HE modulated fields are duplicated over multiple 20 MHz channels (#1311, #2762, #3158)

***TGbe editor: please modify the sentence in P198L45 as follows***

while the EHT-STF, EHT-LTF, ~~and~~ Data, and PE fields are referred to as the EHT modulated fields (#3157)

***TGbe editor: please modify the senstence in P198L53 as follows***

~~A PPDU transmitted with the TXVECTOR parameter NO\_SIG\_EXTN set to false is followed by a period of duration aSignalExtension without transmission. See 10.3.8 (Signal extension).~~ (#3168)

A signal extension as described in 10.3.8 (Signal extension) (#3168) shall be present in a transmitted PPDU if the TXVECTOR parameter NO\_SIG\_EXTN is false and one of the following conditions applies:

—The TXVECVTOR parameter FORMAT is EHT, HE, HT\_MF, or HT\_GF.

—The TXVECTOR parameter FORMAT is NON\_HT and the TXVECTOR parameter NON\_HT\_MODULATION is ERP-OFDM or NON\_HT\_DUP\_OFDM.

**References:**

**[1] 802.11be D0.3**