IEEE P802.11
Wireless LANs

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| LB271 CR for subclause 36.3.23 EHT receive procedure |
| Date: 2023-04-07 |
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Abstract

This submission contains proposed comment resolutions to the following CID based on P802.11be D3.0. The changes are based on P802.11 be D3.1

CID, 15035, 17230, 17625, 17632,

Revisions:

- Rev 0: Initial version of the document.

- Rev 1: Fix UL/DL subfield instead of DL/UL subfield on 17229, 17231

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# CID 15035

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| **CID** | **Page.****Line** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 15035 | 901.33 | 36.3.23 | Regarding of equation (36-108) and (36-109), not easily look up on different pages. | It may be better to put equation (36-109) together with previous equation (36-108) for easier lookup, like (27-133) and (27-134) in HE spec. | Rejected The paragraph right before Equation (36-108) references the equation, and hence the current location is appropriate. |

***TGbe editor:***

***Please move equation (36-108) in front of equation (36-109) in P908L32 in D3.1:***

(#15035) (36-108)

where

LENGTH is the value of the LENGTH field in L-SIG.

*SignalExtension* is defined in Table 27-54 (HE PHY characteristics).

 (36-109)

# CID 17230

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| **CID** | **Page.****Line** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 17230 | 900.05 | 36.3.23 | "--The PHY entity shall not process the Disregard field". Do we need this bullet? The next bullet in fact describes in detail how Disregard fields should be handled. | Delete Bullet "--The PHY entity shall not process the Disregard field" | Revised To make this clear, it’s better to move this bullet after the end of the next bullet instead of deleting it. **Instructions to the editor:****Please make the changes to the spec as shown in 11/23-0615r2 under CID 17230.** |

***TGbe editor:***

***Please make the following changes in Page 907 Line5 in D3.1:***

—If the U-SIG field indicates a valid CRC and the U-SIG field indicates a Disregard U-SIG indication, the PHY entity shall continue processing the U-SIG. A Disregard U-SIG indication is defined as a Disregard field in the U-SIG field being set to any value or a field value of a field in the U-SIG field being set to a Disregard state. (#17230)The PHY entity shall not process the Disregard field.

# CID 17625

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| **CID** | **Page.****Line** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 17625 | 900.58 | 36.3.23 | "may" undermines the entire RX procedure. While there continues to be a valid PPDU that could be intended for the reciveer, the receiver \*shall\* continue to receive it. Otherwise the receiver could use this exception to selectively ignore any frame in an EHT MU PPDU that the receiver doesn't like by pointing to this gaping exception. | Append something along the lines of "If the STA-ID field is checked and equals the intended STA-ID or if the STA\_ID field is not checked, the receiver shall continue receiving the EHT-STF right after the EHT-SIG" | Rejected The current spec has clarified the behaviour of receiving UL PPDU. |

**Discussion**



# CID 17632

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| **CID** | **Page.****Line** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 17632 | 899.43 | 36.3.23 | A very short non-HT PPDU cannot be an 11be PPDU because the 11be preamble is just too long. | Add a long-enough LENGTH as a consideration for continuing to hunt for an EHT PPDU. And a short-enough LENGTH field as a reason to jump to the 11a RX procedure at P899L29 or similar. | RejectedDisagree with the commenter for adding two type lengths to distinguish EHT and non-HT. There are two reasons:(1) Once Rx evaluates LENGTH, the parity and RATE check are passed. The RL-SIG is detected, and the received signal can only be HE or EHT. Non-HT is impossible.(2) A long-enough LENGTH and a short-enough LENGTH can’t be used to distinguish between 11a and 11be. Because in addition to 11a, other PPDU format may have ultra short length which is shorter than the shortest EHT PPDU. E.g. 11n may have 5 symbols (SIG(2 sym)+STF/LTF/Data(3sym)) after L-SIG, which is shorter than shortest EHT (RL-SIG+U-SIG(2sym)+EHT-SIG(1sym)+STF/LTF). Similar for 11ac. Implementation is free to implement such algorithm but including in spec is not necessary. |

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