IEEE P802.11
Wireless LANs

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| LB 266 CR for EHT receive procedure CID 11196 |
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**Abstract**

This submission proposes resolution for CID 11196

**Version history:**

Rev0: Initial version

***Note to TGbe editor:*** *Please follow the following notation when incorporating the proposed draft text changes*

* Regular formatted text *=> no change from the current draft*
* Underlined text *=> to be inserted into the current draft*
* ~~Strikethrough~~ text *=> to be deleted from the current draft*

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| **CID** | **Page (D2.0)** | **Line (D2.0)** | **Comment** | **Proposed Change** | Resolution |
| 11196 | 779 | 47 | EHT receive procedure should be re-worded to account for the fact that STA-ID check is not applicable for UL single-user transmission, since STA-ID is set equal to the transmitter's (non-AP STA) AID. | Modify current text at line 47 as follows:" - If the UL/DL sub-field of the U-SIG field is set to 0 and the CRCs protecting the Common field of the EHT-SIG are valid, the PHY entity shall search for intended STA-ID in each User field. ...."Insert following bullet at line 54:" - If the UL/DL sub-field of the U-SIG field is set to 1 and the CRC protecting the common encoding block of the EHT-SIG is valid and an unsupported mode or a Validate EHT-SIG indication is not indicated, the PHY entity shall continue receiving the EHT-STF right after the EHT-SIG."Modify current text at line 55 as follows:" - If the UL/DL sub-field of the U-SIG field is set to 0 and the CRCs protecting the Common field of the EHT-SIG are valid and no intended STA-ID is detected..."Modify current text at line 59 as follows:" - If the UL/DL sub-field of the U-SIG field is set to 0 and the CRCs protecting the Common field of the EHT-SIG are valid and and an intended STA-ID is detected, but an unsupported mode or a Validate EHT-SIG indication is indicated..."Insert following bullet at line 63:" - If the UL/DL sub-field of the U-SIG field is set to 1 and the CRC protecting the common encoding block of the EHT-SIG is valid, but an unsupported mode or a Validate EHT-SIG indication is indicated in EHT-SIG field, the PHY shall issue a PHY-RXSTART.indication(RXVECTOR) then issue a PHY- RXEND.indication(UnsupportedRate) primitive." | Accepted**TGbe editor:** please refer to changes below |

***TGbe editor:*** *Please make the following changes to 802.11be D2.3 clause 36.3.23 (EHT receive procedure) for CID 11196 :*

***P848, L34:***

If the received PPDU is EHT MU PPDU, the PHY entity shall begin receiving the EHT-SIG, EHT-STF, and EHT-LTF for EHT MU PPDU as shown in Figure 36-78 (PHY receive procedure for an EHT MU PPDU(#12205)). The PHY entity shall check the CRC of the Common field of EHT-SIG.

* If the CRCs protecting the Common field of EHT-SIG are valid, for all supported modes, unsupported modes and Validate indication, the PHY entity shall maintain PHY-CCA.indication(BUSY, channellist) primitive for the predicted duration of the transmitted PPDU, as defined by RXTIME in Equation (36-109), unless it receives a PHY-CCARESET.request primitive before the end of the PPDU for instance during spatial reuse operation as described in 35.10 (EHT Spatial reuse operation). A Validate EHT-SIG indication is defined as a field value of a subfield either in the EHT-SIG common field or in the receiver’s own user field being set to a Validate state.
* If the UL/DL sub-field of the U-SIG field is set to 0 and the CRCs protecting the Common field of the EHT-SIG are valid, the PHY entity shall search for intended STA-ID in each User field. If an intended STA-ID is detected in a user encoding block or in the common encoding block of EHT-SIG (STA-ID can be present in the common encoding block of EHT-SIG only if the PPDU type and compression mode and UL/DL indicate a DL non-OFDMA transmission) with valid CRC, and an unsupported mode or a Validate EHT-SIG indication is not indicated, the PHY entity shall continue receiving the EHT-STF right after the EHT-SIG.
* If the UL/DL sub-field of the U-SIG field is set to 1 and the CRC protecting the common encoding block of the EHT-SIG is valid and an unsupported mode or a Validate EHT-SIG indication is not indicated, the PHY entity shall continue receiving the EHT-STF right after the EHT-SIG.
* If the UL/DL sub-field of the U-SIG field is set to 0 and the CRCs protecting the Common field of the EHT-SIG are valid and no intended STA-ID is detected in all the User fields, the PHY entity shall issue a PHY-RXSTART.indication(RXVECTOR) then issue a PHY-RXEND.indication(Filtered).
* If the UL/DL sub-field of the U-SIG field is set to 0 and the CRCs protecting the Common field of the EHT-SIG are valid and an intended STA-ID is detected, but an unsupported mode or a Validate EHT-SIG indication is indicated in EHT-SIG field, the PHY shall issue a PHY-RXSTART.indication(RXVECTOR) then issue a PHY-RXEND.indication(UnsupportedRate) primitive.
* If the UL/DL sub-field of the U-SIG field is set to 1 and the CRC protecting the common encoding block of the EHT-SIG is valid, but an unsupported mode or a Validate EHT-SIG indication is indicated in EHT-SIG field, the PHY shall issue a PHY-RXSTART.indication(RXVECTOR) then issue a PHY- RXEND.indication(UnsupportedRate) primitive.
* If the CRCs protecting the Common field of the EHT-SIG are not valid, the PHY shall issue the error condition PHY-RXEND.indication(FormatViolation) primitive and maintain PHY- CCA.indication(BUSY, channellist) primitive for the predicted duration of the transmitted PPDU derived from the LENGTH field in L-SIG as defined in Equation (36-108) unless it receives a PHY-CCARESET.request primitive before the end of the PPDU for instance during spatial reuse operation as described in 35.10 (EHT Spatial reuse operation).