IEEE P802.11
Wireless LANs

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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 17631

Revisions:

- Rev 0: Initial version of the document.

# CID 17631

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| **CID** | **Page.****Line** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 17631 | 899.30 | 36.3.23 | 11me has added a new primitive PHY-RXEARLYSIG.ind and made changes to aRxPHYStartDelay (see 23/138) | Update 11be with this new approach. | Revised Agree with the commenter to add the PHY-RXEARLYSIG.indication primitive in EHT receive procedure.In addition, by checking the Figure 36-80, we found that when L-SIG repetition detected, Rx check the parity bit and RATE fields in L-SIG and RL-SIG, if either the check of the parity bit is invalid or the RATE field is not set to 6 Mb/s, Rx should continue to detect the received signal using non-HT, HT, VHT receiver procedure. So, we correct the Figure 36-80.**Instructions to the editor:****Please make the changes to the spec as shown in 11/23-0911r0 under CID 17631.****The Visio files will be provided if motion passed.** |

***TGbe editor, please make the following changes in Page 906 Line14 in D3.1:***

The PHY shall not issue a PHY-RXEARLYSIG.indication nor a PHY-RXSTART.indication primitive in response to a PPDU that does not overlapthe primary channel unless the PHY at an AP receives the EHT TB PPDU solicited by the AP. The PHY
shall issue both a PHY-RXEARLYSIG.indication primitive and a PHY-RXSTART.indication primitive for the EHT TB PPDU solicited by the AP.

The PHY includes the measured RSSI and RSSI\_LEGACY values in the
PHY-RXSTART.indication(RXVECTOR) primitive issued to the MAC.

After the PHY-CCA.indication(BUSY, channel-list) primitive is issued, the PHY entity shall begin receiving
the training symbols and searching for L-SIG in order to set the maximum duration of the data stream. Then
the PHY will search for the preambles for non-HT, HT, VHT, HE, and EHT PPDUs, respectively. If the
constellation used in the first symbol after the first long training field is QBPSK, the PHY entity shall
continue to detect the received signal using the receive procedure for HT-GF depicted in Clause 19 (High
Throughput (HT) PHY specification). For detecting the EHT preamble, the PHY entity shall search for
RL-SIG and evaluate the LENGTH field. If RL-SIG is detected, the PHY entity should check the parity bit
and RATE fields in L-SIG and RL-SIG. If either the check of the parity bit is invalid or the RATE field is not
set to 6 Mb/s, neither a PHY-RXEARLYSIG.indication nor a PHY-RXSTART.indication primitive is issued. If the check of the parity bit is valid and
the RATE field indicates 6 Mb/s but the LENGTH field value in L-SIG is a not a multiple of three, neither a PHY-RXEARLYSIG.indication nor a PHY-RXSTART.indication primitive is issued. If the EHT preamble is not detected, the PHY should continue
to detect the received signal using non-HT, HT, VHT, and HE receive procedure in Clause 17 (Orthogonal
frequency division multiplexing (OFDM) PHY specification), Clause 19 (High Throughput (HT) PHY
specification), Clause 21 (Very High Throughput (VHT) PHY specification), and Clause 27 (High
Efficiency (HE) PHY specification), respectively.

If a valid parity bit and the RATE with 6 Mb/s are indicated in L-SIG and RL-SIG and the LENGTH field
value in L-SIG and RL-SIG is a multiple of three, U-SIG field is present after RL-SIG. PHY entity shall issue a PHY-RXEARLYSIG.indication primitive and shall
begin receiving the U-SIG field and identify the PPDU version based on the PHY Version Identifier field in
the U-SIG field. The PHY entity shall check the constellation of the second symbol of the U-SIG field. If the
constellation is QBPSK, the PHY entity shall receive the U-SIG field and the repeated U-SIG field (four
symbols in total following the RL-SIG). If the constellation is BPSK, the PHY entity shall receive the U-SIG
field (two symbols in total following the RL-SIG). Then the PHY entity shall check the CRC of the U-SIG
field (and the repeated U-SIG field if present).

***In addition, TGbe editor, please replace Figure 36-78—PHY receive procedure for an EHT MU PPDU, Figure 36-79—PHY receive procedure for an EHT TB PPDU and Figure 36-80—PHY receive state machine with the three figures below respectively:***



***Figure 36-78—PHY receive procedure for an EHT MU PPDU***



***Figure 36-79—PHY receive procedure for an EHT TB PPDU***



***Figure 36-80—PHY receive state machine***