IEEE P802.11
Wireless LANs

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| Proposed Draft Text (PDT-PHY): Preamble Puncture |
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Abstract

This submission proposed the draft text on the Preamble Puncture sub-clause for TGbe D0.1.

The text is based on motions 30,31, 90 and 111 (#SP 0611-13 and #SP 0611-18).

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Add text related to motion 111 (#SP 1106-13 and #SP 1106-18)
* Rev 2: Some editorial updates

34.3.10.10 – Preamble Punctured EHT PPDU

34.3.10.10.1 – General

### Preamble puncturing allows an EHT STA to transmit and receive a PPDU in a given bandwidth, even when a portion of the bandwidth is not occupied by the PPDU.

### NOTE – The unavailability of any part of the bandwidth may be due to various reasons, for example when an OBSS STA operates on a 20 MHz channel which is one of the secondary channels of the BSS.

Preamble puncturing refers to transmission of a PPDU in which no signal is present in at least one 20 MHz subchannel within the transmission BW.

Preamble puncturing resolution for an EHT PPDU shall be 20 MHz. In other words, puncturing a subchannel smaller than a 242-tone RU is not allowed.

Primary 20 MHz shall not be punctured in any PPDU.

NOTE – In case of EHT TB PPDU, transmission from certain non-AP STAs may have the primary 20 MHz unmodulated depending on the RU allocated to the STA.

34.3.10.10.2 – Preamble Puncturing for PPDUs transmitted to a single user

Preamble puncturing for a PPDU transmitted to a single user is applied by using large-size MRUs. The supported large-size MRUs are defined in 34.3.2.x.x. U-SIG or EHT-SIG (TBD) includes information on the preamble puncturing of the PPDU as defined in 34.3.10.6.x.x and 34.3.10.7.x.x

34.3.10.10.3 – Preamble puncturing for PPDUs transmitted to multiple users

Preamble puncturing for a PPDU transmitted to multiple users exists in a non-compressed mode.. U-SIG or EHT-SIG (TBD) includes information on the preamble puncturing of the PPDU as defined in 34.3.10.6.x.x and 34.3.10.7.x.x.

Preamble puncturing for a PPDU transmitted to multiple users in a compressed mode is TBD