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
* Rev 3: 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~~ PPDU 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