IEEE P802.11
Wireless LANs

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| 11be Spec text for TXOP with preamble puncturing |
| Date: 2020-08-20 |
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Abstract

We propose the draft specification skeleton for TXOP with preamble puncturing to help the creation of TGbe draft D0.1.

Revisions:

* Rev 0: Initial version of the document.

The texts are prepared for the following motions.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| MAC | TXOP: Preamble Puncturing | Yanjun Sun | Kaiying Lu, Das, Dibakar, Jarkko Kneckt, Yunbo Li, Jeongki Kim, Akhmetov Dmitry, Liuming Lu, Greg Geonjung Ko, John Yi, Yonggang Fang | Basics (R1) | Motion 111, #SP0611-26 |

802.11be supports transmitting the MU-RTS/RTS and CTS frames in a non-HT duplicate PPDU on 20 MHz subchannels which are not punctured.

[Motion 111, #SP0611-27, [13] and [87]]

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGbe 0.1 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbe D0.1 Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGbe Editor: Editing instructions preceded by “TGbe Editor” are instructions to the TGbe editor to modify existing material in the TGbe draft. As a result of adopting the changes, the TGbe editor will execute the instructions rather than copy them to the TGbe Draft.***

**Discussion:** *None.*

**Proposed spec text:**

***TGbe editor: Add new a subclause 33.x.x (Preamble Puncturing) under clause 33 as follows:***

33. Extreme High Throughput (EHT) MAC specification

**33.x TXOP**

**33.x.x Preamble Puncturing**

1. **General**
2. **INACTIVE\_SUBCHANNELS**

When an EHT STA transmits a RTS, MU-RTS Trigger, or CTS frame in a non-HT duplicate PPDU, the STA shall not transmit on any 20 MHz subchannel that is punctured.

The indication of which subchannels are punctured in an RTS, MU-RTS Trigger, or CTS frame that is carried in a non-HT duplicate PPDU is conveyed from the MAC to the PHY through the TXVECTOR parameter INACTIVE\_SUBCHANNELS (see Table 34-1 TXVECTOR and RXVECTOR Parameters). The parameter INACTIVE\_SUBCHANNELS may be present in the TXVECTOR of a non-HT duplicate PPDU that carries an RTS, MU-RTS Trigger, or CTS frame. (Motion 111, #SP0611-27)

**34.x.2 TXVECTOR and RXVECTOR**

***TGbe editor: Within Table 34-1 – TXVECTOR and RXVECTOR parameters, insert a new row as shown, header information shown for convenience:***

**Table 34-1 TXVEROR and RXVECTOR Parameters**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameter** | **Condition** | **Value** | **TXVECTOR** | **RXVECTOR** |
| **INACTIVE\_SUBCHANNELS** | **FORMAT is NON\_HT and NON\_HT\_MODULATION is equal to NON\_HT\_DUP\_****OFDM** | **TBD** |  |  |

**Straw Poll: Do you support to incorporate the proposed draft text in this document 11-20/1408r2 to the TGbe Draft 0.1?**

**Result: Yes/No/Abstain**