IEEE P802.11  
Wireless LANs

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | CID 4598 | | | | | | Date: 2021-09-21 | | | | | | Author(s): | | | | | | Name | Affiliation | Address | Phone | email | | Brian Hart | Cisco Systems |  |  | [brianh@cisco.com](mailto:brianh@cisco.com) | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |

Abstract

This submission proposes resolutions for the following comments from comment collection on P802.11be D1.0:

4598

The baseline used in this document is D1.1.

NOTE – Set the Track Changes Viewing Option in the MS Word to “All Markup” to clearly see the proposed text edits.

**Revision History:**

R0: Initial version.

R1: Removed spurious text

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| --- | --- | --- | --- | --- | --- |
| 4598 | 9.2.1.2 | 74. 41 | The 802.11 arch comprises 1 MAC and 1 PHY (among many choices). Since dynamic bandwidth signalling within the RTS+CTS exchange is a pre-existing MAC feature, then it has to be supported by new PHYs such as EHT (or explicitly disallowed or constrained to not exceed the scope of the VHT feature). This is especially true because an EHT STA is also an VHT STA. Meanwhile SU PPDUs with bandwidth-punctured PPDUs are defined in 11be, so the default expectation is that dynamic bandwidth signalling using non-HT PPDUs needs to be extended to 11be (e.g. for exchanges such as 120->120M vs 120->80, or 60->60M versus 60->40, or 240->160, etc etc). Further, since RTS+CTS are state 1 frames (and relate to fundamental channel access) this feature should not depend on association or prior capability exchange, such as knowledge about static bandwith puncturing or 11beR1/R2 capability etc | The cleanest solution is to insert bandwidth/preamble puncturing information into RTS+CTS frames and/or non-HT PPDUs. See for instance 21/247 for some viable ideas. | Rejected.  The CRC could not reach consensus on the changes necessary to address this comment. Although some level of dynamic puncturing is allowed in 35.13.2 (Preamble puncturing operation), this is for OFDMA PPDUs where MU-RTS and/or the 20/40/80/160/320M bandwidth signaling in non-HT PPDUs provides a sufficient solution in the absence of dynamic puncturing for SU PPDUs. The nearer-term options on protection of the bandwidth/preamble puncturing information in non-HT PPDUs described in 21/247r4 (<https://mentor.ieee.org/802.11/dcn/21/11-21-0247-04-00be-bandwidthindicationinrtsctsin320mhzppduandpuncturedpreambles.pptx>) were presented and discussed, and the strawpoll was 29 for option A (to make no change), 5 for option B, 3 for option C, 3 for option D and 25 abstentions. |