IEEE P802.11  
Wireless LANs

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| Comment resolutions for 27.16.1 | | | | |
| Date: 2018-03-01 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Alfred Asterjadhi | Qualcomm Inc. | 5775 Morehouse Dr, San Diego, CA 92109 | +1-858-658-5302 | aasterja@qti.qualcomm.com |
| George Cherian | Qualcomm Inc. |  |  |  |
| Abhishek Patil | Qualcomm Inc. |  |  |  |

Abstract

This submission proposes resolutions for multiple comments related to TGax D2.0 with the following CIDs:

* 12581, 13836 ( 2 CIDs)

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Minor revision in green. CID 13836 is deferred.

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 TGax Draft. This introduction is not part of the adopted material.

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

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

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| **CID** | **Commenter** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 12581 | Mark RISON | 320.27 | "An 80 MHz, 160 MHz or 80+80 MHz HE DL MU PPDU with preamble puncture may be transmitted if either the primary 20 MHz or the primary 40 MHz, or both are occupied by the transmission (see Table 28-17 (HE-SIG-A field of an HE MU PPDU))." is not clear. It suggests that a transmission can ignore CCA as long as there is transmission on the primary 20 or 40. Need to say can only transmit if the subchannels that are transmitted on (i.e. the non-punctured ones) are clear | Change the cited text to "An 80 MHz, 160 MHz or 80+80 MHz DL HE MU PPDU with preamble puncturing may be transmitted if permitted by the rules, as if the punctured 20 MHz sub-channel(s) were idle (see Table 28-19 (HE-SIG-A field of an HE MU PPDU))." | Revised –  Agree in principle with the comment. Accounted for the suggestions.  TGax editor to make the changes shown in 11-18/0338r1 under all headings that include CID 12581. |
| 13836 | Yasuhiko Inoue | 319.35 | "... when the STA is a 20 MHz-only non-AP HE STA in which case the Supported Channel Width Set subfield of the VHT Capabilities element is reserved."  There seems to be a potential interoperability issue. It is not clear whether a non-AP HE STA can be associated to a VHT AP as a VHT STA. | Definition of 20 MHz-only non-AP STA may have to be changed if it is supposed to be a VHT STA. | Rejected –  This subclause is related to the HE BSS operation. I.e., the STA is associating to an HE AP, wherein there is no interoperability issue. |

**Discussion: *None*.**

* Basic HE BSS functionality

**TGax Editor: *Change the paragraphs below of this subclause as follows (#Ed):***

A STA transmitting an HT Capabilities element and HE Capabilities element shall set the Supported Channel Width Set subfield of the HT Capabilities element to 1 when either B0 or B1 of the Channel Width Set subfield of the HE Capabilities element is 1, except when the STA is a 20 MHz-only non-AP HE STA in which case the Supported Channel Width Set subfield of the HT Capabilities element is 0. A STA transmitting a VHT Capabilities element and HE Capabilities element shall set the Supported Channel Width Set subfield of the VHT Capabilities element to a value that indicates the same channel width capability as the channel width capability indicated in the HE Capabilities element, except when the STA is a 20 MHz-only non-AP HE STA in which case the Supported Channel Width Set subfield of the VHT Capabilities element is reserved*.(#Ed)* (#7577, #8619)

**TGax Editor: *Change the paragraphs below of this subclause as follows (#CID 12581):***

An HE STA that is a member of an HE BSS shall follow the same rules that are defined in 11.40.1 (Basic VHT BSS functionality) when transmitting a 20 MHz, 40 MHz, 80 MHz, 160 MHz or 80+80 MHz HE PPDUs with the following exceptions:

* An HE TB PPDU sent in response to a Trigger frame or a frame with a UMRS Control field(#Ed) follows the rules defined in 27.5.3.3 (STA behavior for UL MU operation).

An 80 MHz, 160 MHz or 80+80 MHz DL HE MU PPDU(#6253) with preamble puncturing(#8620) may be transmitted if the primary 20 MHz or the primary 40 MHz are occupied by the transmission and certain 20 MHz subchannel(s) of the secondary channel were idle (see Table 28-19 (HE-SIG-A field of an HE MU PPDU) and 10.22.2.5 (EDCA channel access in VHT, HE, or TVHT BSS)).*(#12581) (#7577, #8619)*