IEEE P802.11  
Wireless LANs

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| **Resolutions to Comments on Channel Center Frequency** |
| **Date:** September 2019 |

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Abstract

This submission proposes resolutions for the following CIDs (**3 CIDs**):

* 2702, 2703, 2704

r1: changed XXXX to 1189

r2: reflected Edward’s comment on “up to”.

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

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

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

# 9.4.2.157.2

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| **CID** | **Commenter** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 2702 | Tomoko Adachi |  | The "original" channel center frequency signalings, which are shown to be deprecated in Table 11-24, should not refer to Table 9-273. This is because the "original" won't use CCFS1 to indicate the location of the center frequency for the 160 MHz case. It will use CCFS0 instead.  It is not clear when Table 11-24 is applicable. | Clarify when the encoding column of Supported Channel Width Set of Table 9-272 that Table 9-273 is applicable and when it is not. | Revised.  Agree in principle.  See the instructions to the TGmd editor in doc. 11-19/1189r2 under all headings that include CID 2702. |
| 2703 | Tomoko Adachi |  | Table 9-273 is not clear that when one of CCFS1 or CCFS2 has a valid value (>0), the other one has to be set to 0. This is tested in the ceritifcation. | Add such condition to Table 9-273. | Rejected.  Notes from 6 to 8 in Table 9-273 already covers what the comment says. |
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TGmd Editor: Change the Encoding column of Supported Channel Width Set in Table 9-272 of P802.11REVmd D2.2 as follows:

**Table 9-272—Subfields of the VHT Capabilities Information field**

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| **Subfield** | **Definition** | **Encoding** |
| Maximum MPDU Length | Indicates the maximum MPDU length that the STA is capable of receiving (see 10.12 (A-MSDU operation)). | Set to 0 for 3895 octets.  Set to 1 for 7991 octets.  Set to 2 for 11 454 octets.  The value 3 is reserved. |
| Supported Channel Width Set | Together with the Extended NSS BW Support subfield and Supported VHT-MCS and NSS Set field, indicates the channel widths and maximum NSS values per width supported by the STA. See 11.39 (VHT BSS operation). | In a non-TVHT STA, see Table 9-273 (Setting of the Supported Channel Width Set subfield and Extended NSS BW Support subfield at a STA transmitting the VHT Capabilities Information field(#88)(#360)). When the Channel Width subfield of the VHT Operation element uses 2 or 3 (deprecated), the channel center frequency is defined in Table 11-25 (Setting of Channel Center Frequency Segment 0, Channel Center Frequency Segment 1, and Channel Center Frequency Segment 2 subfields).  In a TVHT STA, the field is structured into subfields as defined in Figure 9-606 (Supported Channel Width Set field format(#2607) (TVHT)).  In a TVHT STA, set the TVHT\_MODE\_2C Support subfield to 1 if it supports TVHT\_MODE\_2C; otherwise set the subfield to 0.  In a TVHT STA, set the TVHT\_MODE\_2N Support subfield to 1 if it supports TVHT\_MODE\_2N; otherwise set the subfield to 0. |
| … | … | … |

# 9.4.2.36

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| **CID** | **Commenter** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 2704 | Tomoko Adachi | 1133.00 | The signaling of the channel center frequency segments in the Wide Bandwidth Channel subelement doesn't align with that of the VHT Operation element. The "original" and now deprecated signaling is still there. | Update Table 9-175 to reflect the "new" signaling. | Rejected.  Insufficient detail.  Agreed in principle, but more time is needed to develop a text proposal. A possible approach is to include the HT Operation element Channel Width, the VHT Operation element Channel Width, CCFS0, CCFS1, CCFS2 and refer to Table 9-273 and 11-25 (D2.0).  Revised.  Agree in principle. The channel center frequency segements should now follow the new signalling rather than the deprecated on.  See the instructions to the TGmd editor in doc. 11-19/1189r2 under all headings that include CID 2704. |
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TGmd Editor: Change the rows for Channel Center Frequency Segment 0 and Channel Center Frequency Segment 1 in Table 9-175 of P802.11REVmd D2.2 as follows:

**Table 9-175—HT/VHT Operation Information subfields**

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| **Field** | **Definition** | **Encoding** |
| Channel Width | This field defines the BSS bandwidth (see 11.39.1 (Basic VHT BSS functionality)). | Set to 0 for 20 MHz BSS bandwidth.  Set to 1 for 40 MHz BSS bandwidth.  Set to 2 for 80 MHz BSS bandwidth.  Set to 3 for 160 MHz BSS bandwidth.  Set to 4 for 80+80 MHz BSS bandwidth(#1519).  Values in the range 5 to 255 are reserved. |
| Channel Center Frequency Segment 0 | Defines the channel center frequency for an HT or VHT BSS of 20, 40, or 80 MHz BSS bandwidth, or the channel center frequency of the primary 80 MHz for a 160 MHz or 80+80 MHz VHT BSS.(#2704) See 21.3.14 (Channelization). | For 20, 40, or 80 MHz BSS bandwidth, indicates the channel center frequency index for the channel on which the HT or VHT BSS operates. For 160 MHz or 80+80 MHz BSS bandwidth, indicates the channel center frequency index of the primary 80 MHz. (#2704) |
| Channel Center Frequency Segment 1 | Defines the channel center frequency for a 160 MHz VHT BSS, or the channel center frequency of the secondary 80 MHz channel for an 80+80 MHz VHT BSS.(#2704) See 21.3.14 (Channelization). | For a 160 MHz BSS bandwidth, indicates the channel center frequency index of the 160 MHz channel on which the VHT BSS operates. For an 80+80 MHz BSS bandwidth, indicates the channel center frequency index of the secondary 80 MHz. (#2704) Reserved otherwise. |