IEEE P802.11  
Wireless LANs

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| VHT Operation Information Subfields | | | | |
| Date: 2011-07-20 | | | | |
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Abstract

This document provides resolution for the comments listed below

Comments are from: 11-11-0907-0x-00ac-lb178-comments-tgac-d1-0.xlsx

Comments refer to: Draft P802.11ac\_D1.0.pdf

**Comments**

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| --- | --- | --- | --- | --- | --- | --- |
| 2949 | 55/38 | 8.4.2.101 | In Table 8-ac15,Channel Center Frequency Segment 1 is set to the channel number corresponding to the channel center frequency of a 20, 40, 80 or 160 MHz VHT BSS ,but there is no Channel Center Frequency defined for 20MHz and 40MHz in Annex E. | Need clarification about channel center frequency for 20, 40MHz; or modify the definition and encoding for channel center frequency segment 1 in table 8-ac15. | AGREE | MAC |

**Discussion**

As pointed out by the comment, there’s no channel center frequency defined for 20MHz and 40MHz channels in the spec context or appendix. And it’s not necessary to indicate the channel center frequency for 20MHz or 40MHz channels since the HT Operation Information Field can actually provide equate information.

There’re two options to solve this issue. One is to limit the Channel Center Frequency Segment 1 subfield only work for 80MHz, 160MHz and 80+80MHz channel width; another option is to use this subfield to indicate the channel number of the primary channel for 20MHz and 40MHz channel width, redundantly. Personally prefer the former one.

**Instructions to the editor**

***Changing the Encoding explanation for Channel Center Frequency Segment 1 in Table 8-ac15 in section 8.4.2.101 P55/L38 as following***

Table 8-ac15 – VHT Operation Information subfields

|  |  |  |
| --- | --- | --- |
| **Field** | **Definition** | **Encoding** |
| Channel Width | This field, together with the HT  Operation element STA Channel  Width field, defines the BSS operat-  ing channel width (see 10.25.1  (Basic VHT BSS functionality)). | Set to 0 for 20 MHz or 40 MHz operating channel  width.  Set to 1 for 80 MHz operating channel width.  Set to 2 for 160 MHz operating channel width.  Set to 3 for 80+80 MHz operating channel width.  Values in the range 4 to 255 are reserved. |
| Channel Center Fre-  quency Segment 1 | Defines the channel center frequency  for an ~~20, 40,~~ 80 and 160 MHz VHT  BSS and the segment 1 channel cen-  ter frequency for an 80+80 MHz  VHT BSS. See 22.3.14 (Channeliza-  tion). | Set to the channel number corresponding to the  channel center frequency of an ~~20, 40,~~ 80 or 160  MHz VHT BSS or the channel number correspond-  ing to the channel center frequency of segment 1 of  an 80+80 MHz VHT BSS.  Set to 0 for 20MHz or 40MHz operating channel width. |
| Channel Center Fre-  quency Segment 2 | Defines the segment 2 channel center frequency for an 80+80 MHz VHT BSS. See 22.3.14 (Channelization). | Set to the channel number corresponding to the  channel center frequency of segment 2 for 80+80  MHz VH BSS. Reserved otherwise. |