IEEE P802.11
Wireless LANs

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| LB189 D2.0 11af Comment Resolutions on Scrambler Seed |
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*Abstract: Resolutions of D2.0 comments on Scrambler Seed: CID 224*

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| 224 | Raja Banerjea | 23.3.10.4 | 244.18 | The scrambler seed for TVHT transmissions with FORMAT = NON\_HT and Channel Bandwidth = TVHT\_W/TVHT\_2W/TVHT\_4W/TVHT\_W+W could be set to indicate the BW of transmission. Currently VHT specification does not support 40+40 MHz transmissions. Add support for BW indicate for TVHT\_W+W | The scrambler seed for TVHT transmissions with FORMAT = NON\_HT and Channel Bandwidth = TVHT\_W/TVHT\_2W/TVHT\_4W/TVHT\_W+W could be set to indicate the BW of transmission. Currently VHT specification does not support 40+40 MHz transmissions. Add support for BW indicate for TVHT\_W+W | **Agree in principle** |

*Discussions: Agree with the commenter about the Non-HT format scrambler seed issue, the referred subclause is incorrect, need to modify in Clause 18 on top of the 11ac amendments.*

*For TVHT transmissions with FORMAT = NON\_HT, the TXVECOR CH\_BANDWIDTH\_IN\_NON\_HT uses the 11ac value CBW80 to indicate CBW modes 2C/2N; and uses value CBW\_160 (or CBW80+80) to indicate CBW modes 4C/4N.*

TGaf Editor: Pls make the following change on clause 18 (note that the untouched sentences are the Clause 18 amendment as in 802.11ac Draft 3.1):

**18.2.2.7 TXVECTOR CH\_BANDWIDTH\_IN\_NON\_HT**

If present, the allowed values for CH\_BANDWIDTH\_IN\_NON\_HT are CBW20, CBW40, CBW80, CBW160 and CBW80+80. If present, this parameter is used to modify the first 7 bits of the scrambling sequence to indicate the duplicated bandwidth of the PPDU.

If the PPDU is transmitted by a TVHT STA operating in broadcast frequency bands below 1 GHz, the value CBW40 indicates the channel bandwidth of one frequency segment; the value CBW80 indicates the channel bandwidth of two frequency segments; the value CBW160 and CBW80+80 indicates the channel bandwidth of four frequency segments; the value CBW20 is not allowed.

NOTE—The CH\_BANDWIDTH\_IN\_NON\_HT parameter is not present when the frame is transmitted by a non-VHT STA. The CH\_BANDWIDTH\_IN\_NON\_HT parameter is not present when the frame is transmitted by a VHT STA to a non-VHT STA. See 9.7.10 (Channel Width in non-HT and non-HT duplicate PPDUs).

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**18.2.3.7 RXVECTOR CH\_BANDWIDTH\_IN\_NON\_HT**

If present, the allowed values for CH\_BANDWIDTH\_IN\_NON\_HT are CBW20, CBW40, CBW80, CBW160 and CBW80+80. If present and valid, this parameter indicates the duplicated bandwidth of the PPDU. This parameter is used by the MAC only when valid (see 9.3.2.6 (CTS and DMG CTS(11ad) procedure) and 9.7.6.6 (Channel Width selection for control frames)).

If the PPDU is received by a TVHT STA operating in broadcast frequency bands below 1 GHz, the value CBW40 indicates the channel bandwidth of one frequency segment; the value CBW80 indicates the channel bandwidth of two frequency segments; the value CBW160 and CBW80+80 indicates the channel bandwidth of four frequency segments; the value CBW20 is not allowed.

NOTE—The CH\_BANDWIDTH\_IN\_NON\_HT parameter is not present when the frame is received by a non-VHT STA (see 9.7.10 (Channel Width in non-HT and non-HT duplicate PPDUs)).