IEEE P802.11
Wireless LANs

|  |
| --- |
| LB189 D2.0 11af Comment Resolutions on Scrambler Seed |
| Date: 2012-09-12 |
| Author(s): |
| Name | Affiliation | Address | Phone | Email |
| Hongyuan Zhang | Marvell  | 5488 Marvell Ln, Santa Clara, CA 95054 | 408-222-1837 | hongyuan@marvell.com |

*Abstract: Resolutions of D2.0 comments on Scrambler Seed: CIDs 224 and 860*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 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 | **Revised** |
| 860 | Yongho Seok | 18.3.5.5 | 189.2 | For supporting a dynamic bandwidth adaptation in TV White Spaces, a scrambing sequence for VHT RTS and VHT CTS shall be updated for considering W, W+W, 2W, 2W+2W and 4W CH\_BANDWIDTH. | Revise 18.3.3.5, 18.2, 18.3, 18.5 and 9.3.2.6 for supporting a dynamic bandwidth adaptation in TV White Spaces. | **Revised** |

**Discussions:** Agree with the commenters about the Non-HT format scrambler seed issue, the referred subclause in CID 224 is incorrect, need to modify in clause 23.3.10.2 (Non-HT duplicate transmission).

Propose that 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.

**Proposal: Revised for CIDs 224 and 860. The proposed editorial instructions are included in this document as shown below.**

*TGaf Editor: Pls insert the following paragraph at the end of clause 23.3.10.2 in page 246:*

**23.3.10.12 Non-HT duplicate transmission**

When the TXVECTOR parameter FORMAT is NON\_HT and the TXVECTOR parameter NON\_HT\_MODULATION is NON\_HT\_DUP\_OFDM, the transmitted PPDU shall be a non-HT duplicate. Non-HT duplicate transmission is used to transmit to TVHT STAs that may be present in a part of a channel using more than one frequency segment.

…..

In addition, the parameter  is replaced  by as defined in Table 23-7 (Transmission mode and ).

For the TXVECTOR and RXVECTOR parameter CH\_BANDWIDTH\_IN\_NON\_HT, if present, the value CBW40 indicates the TVHT\_W bandwidth; the value CBW80 indicates the TVHT\_2W or TVHT\_W+W bandwidth; the value CBW160 and CBW80+80 indicates the TVHT\_4W or TVHT\_2W+2W bandwidth; the value CBW20 is not allowed.