IEEE P802.11
Wireless LANs

|  |
| --- |
| LB202 Misc CIDs Related to TVHT |
| Date: 2015-01-12 |
| Author(s): |
| Name | Affiliation | Address | Phone | Email |
| Vinko Erceg | Broadcom | San Diego |  | verceg@broadcom.com |
| Ron Porat | Broadcom | San Diego |  | rporat@broadcom.com |

Abstract

This document proposes a resolution for the following LB202 CIDs: 3138, 3139, 3046, 3047, 3276, 3310, 3311, 3007, 3008, and 3035. The proposed resolutions are based on D3.0.

**REVISION NOTES:**

R0: initial

R1: Some CIDs were updated as a result of the group discussions

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

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

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

**CID LIST:**

 CID Sec. Pg. Ln Comment Proposed Change Resolution

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 3138 | 9.7.9 | 1290 | 6 | For a TVHT STA, data rates available with non-HT PPDU are 6, 9, 12, 18, 24, 36, 48 and 54 Mb/s divided by 7.5 for 6 MHz and 7 MHz unit channels and by 5.625 for 8 MHz channels.It is necessary to scale Non-HT reference rate in Table 9-7. | Insert a new bullet at the end of the 3rd paragraph of the subclause 4.3.13 as follows;- non-HT data rate is divided by 7.5 for 6 MHz and 7 MHz unit channels and by 5.625 for 8 MHz channels. | Revised.Add the following NOTE to the end of Table 9-7: “NOTE – in a TVWS band the non-HT reference rate is scaled as described in 23.2.4.” |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 3139 | 4.3.13 | 77 | 38 | The second sentence states that a TVHT STA supports all mandatory and optional features of a VHT STA as mandatory and optional features except channel widths.Though, subclause 23.2.2 specifies that an HT-mixed format PPDU (mandatory for a VHT STA) and an HT-greenfield format (optional for a VHT-STA) is not supported by the TVHT STA. | Modify the first two sentences of the 2nd paragraph of 4.3.13 as follows;--A TVHT STA supports all mandatory features of a VHT STA as mandatory features except for an HT-mixed format and 20 MHz, 40 MHz, and 80 MHz channel widths. A TVHT STA supports all optional features of a VHT STA as optional features except for an HT-greenfield format, 160 MHz or 80+80 MHz channel widths and more than 4 spatial streams. | Revised.Editor please modify the first two sentences of the 2nd paragraph of 4.3.13 as follows:“A TVHT STA supports all mandatory features of a VHT STA as mandatory features except for an HT-mixed format PPDUs and 20 MHz, 40 MHz, and 80 MHz channel widths. A TVHT STA supports all optional features of a VHT STA as optional features except for an HT-greenfield format PPDUs, 160 MHz or 80+80 MHz channel widths and more than 4 spatial streams, and except Short GI which is mandatory.” |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 3046 | 23.1.1 | 2565 | 31 | "The TVHT PHY is based on the VHT PHY as defined in 22.3 (VHT PHY), 22.4 (VHT PLME), 22.5(Parameters for VHT-MCSs), and 22.6 and on Clause 18 (Orthogonal frequency division multiplexing(OFDM) PHY specification)." -- there is no 22.6Ditto at line 37. | Replace 22.6 with some other reference, or delete it. | Revised. Editor please remove the reference to Clause 22.6: “(Parameters for VHT-MCSs), ~~and 22.6~~ and on Clause 18 (Orthogonal frequency division multiplexing |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 3047 | 23.1.2 | 2566 | 59 | " This function is supported by the physical layer convergence procedure (PLCP), which defines a method of mapping the PSDUs into a framing format (PPDU) suitable for sending and receiving PSDUs between two or more STAs using the associated PMD system"The PLCP and PMD distinction and the PMD interface have been removed. | Remove any mention of the PLCP and PMD from Clause 23. | Accepted. Editor please remove any mention of the PLCP and PMD from the Clause 23 text.  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 3276 | 23.3.10.12 | 2597 | 46 | Not sure about this paragraph. I don't think that the CH\_BANDWIDTH\_IN\_NON\_HT parameter can have the values CBW... Since this does not occur in Tables 23-1 and 23-2. (In fact, CBW doesn't occur anywhere else in clause 23.) | Delete last para of 23.3.10.12 | Accepted. Editor please delete the last paragraph of 22.3.10.12. |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 3310 | 23.3.19.6.4 | 2608 | 30 | do not include TVHT\_W in a subclause that refers to only non-primary channels because there is no non-primary channel in TVHT\_W. | Strike the term TVHT\_W and TVHT\_MODE\_1 | Accepted.Editor please Strike the term TVHT\_W and TVHT\_MODE\_1:“is present in anotherwise idle ~~TVHT\_W (TVHT\_MODE\_1),~~ TVHT\_2W (TVHT\_MODE\_2C),” |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 3311 | 23.3.19.6.4 | 2608 | 47, 48 | do not include TVHT\_2W or TVHT\_W+W in a subclause that refers to secondaryTVHT\_2W channels because there are no secondaryTVHT\_2W channels in TVHT\_2W or TVHT\_W+W. | Strike the terms TVHT\_2W (TVHT\_MODE\_2C), TVHT\_W+W (TVHT\_MODE\_2N) | Accepted. Editor please strike the terms TVHT\_2W (TVHT\_MODE\_2C), TVHT\_W+W (TVHT\_MODE\_2N).“one of the following conditions is present in an otherwise idle ~~TVHT\_2W (TVHT\_MODE\_2C),~~ TVHT\_4W(TVHT\_MODE\_4C), ~~TVHT\_W+W (TVHT\_MODE\_2N),~~ and TVHT\_2W+2W (TVHT\_MODE\_4N)operating channel width:” |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 3007 | 8.4.2.157.2 | 1032 | 5 | "For a TVHT STA, support for Short GI is mandatory" -- this statement should not be in clause 8.Also "support is mandatory" is being replaced stylistically with "A TVHT STA shall support Short GI". | Move statement out of clause 8 and reword as proposed, or delete if it is a duplicate. | Revised. Editor please delete the following text on pg 1032 ln 5: “~~For a TVHT STA, support for Short GI is mandatory.~~” Note to commenter: change was also done in 4.3.13. |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 3008 | 8.4.2.161 | 1037 | 20 | According to 1037.59, the value 3 in Table 8-253 is reserved for TVHT STAs. | Indicate in table 8-253: "For VHT STAs, Local Maximum ... for 160/80+80 MHz. Reserved for TVHT STAs." | Revised.Editor please add the following sentence on pg 1037 ln 24 add at the end of the value 3 field present entry: “For TVHT STAs, reserved.” |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 3035 | 10.43 | 1829 | 56 | "A TVHT AP shall set the Channel Width subfield in the TVHT Operation Information field to indicate the BSS operating channel width and transmitted PPDU type depending on value of B0-B1 in TVHT-SIG-A1 field from those shown in Table 10-26 (TVHT BSS operating channel width" -- The MAC should not know about SIGNAL fields, only VECTOR parameters. | Replace: "of B0-B1 in TVHT-SIG-A1 field" with a reference to a TXVECTOR parameter. | Revised. Editor please modify the text as follows: “A TVHT AP shall set the Channel Width subfield in the TVHT Operation Information field to indicate theBSS operating channel width and transmitted PPDU type depending on ~~value of B0-B1 in TVHT-SIG-A1 field~~ the TXVECTOR parameter CH\_BANDWIDTH ~~from those shown in Table 10-26 (TVHT BSS operating channel width).~~ in Table 23-1 (TXVECTOR and RXVECTOR parameters.” |