IEEE P802.11  
Wireless LANs

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| LB202 CID3296 BW support | | | | |
| Date: 2014-07-03 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Matthew Fischer | Broadcom | 190 Mathilda Place, Sunnyvale, CA 94086 | +1 408 543 3370 | [mfischer@broadcom.com](mailto:mfischer@broadcom.com) |
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Abstract

This document proposes a resolution for CID 3490, 3294, 3295, 3296 of LB202, the comment on TGm Draft 3.0 suggesting the modification of the description of BW support.

**REVISION NOTES:**

R0: initial

R1: remove RTS changes

R2: add more CIDs

R3: change “and” to “but” and modify the operating channel width language because a BSS cannot have two simultaneous width values

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:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 3296 | Matthew Fischer | 1029.47 | | 8.4.2.157.2 | The universally complete set of architectures of 80+80 receivers does not imply support for 160 MHz operation as is already suggeted by the current definitions of the values for 1 and 2. I.e. support for 160 does not imply support for 80+80 and similarly, support for 80+80 does not imply support for 160. I.e. the case for 80+80 only support is missing. Same comment for TVHT (see 8.4.2.170) | Change "The value of 3 is reserved" to "Set to 3 if the STA supports 80+80 MHz mode and not 160 MHz" Change "Set to 1 if the STA supports 160 MHz" to "Set to 1 if the STA supports 160 MHz and not 80+80 MHz" - similar request for change to TVHT equivalent structures. | Revise - generally agree with commenter, TGmc editor to execute proposed changes from 11-14-0954r2 found under all headings which include CID3296 |
| 3294 | Nihar Jindal | 1029.47 | 8.4.2.157.2 | | The architecture of an 80+80 receiver does not imply support for 160 MHz operation as is already suggeted by the current definitions of the values for 1 and 2. I.e. support for 160 does not imply support for 80+80 and similarly, support for 80+80 does not imply support for 160. I.e. the case for 80+80 only support is missing. | Change "The value of 3 is reserved" to "Set to 3 if the STA supports 80+80 MHz mode and not 160 MHz" Change "Set to 1 if the STA supports 160 MHz" to "Set to 1 if the STA supports 160 MHz and not 80+80 MHz" | Revise - generally agree with commenter, TGmc editor to execute proposed changes from 11-14-0954r2 found under all headings which include CID3294 |
| 3295 | Nihar Jindal | 1032.10 | 8.4.2.157.3 | | The architecture of an 80+80 MHz receiver does not imply support for certain capabilities when operating in 60 MHz mode as is already suggeted by the existence of the Highest Supported Long GI Data Rate fields. Some obvious combinations cannot currently be signaled. | Change the reserved field at bits 29-31 to become "Max NSS for 80+80 MHz" with the value in the field equal to nss supported for 80+80 MHz and a value of 0 to be used when 80+80 MHz is not supported. Change the reserved field at bits 61-63 to become "Max NSS for 160 MHz" with the value in the field equal to nss supported for 160 MHz and a value of 0 to be used when 160 MHz is not supported. Might also want to add a note saying that these values do not place an upper bound on the NSS supported for 20, 40, 80 MHz - those bounds are specified elsewhere. | Revise - generally agree with commenter, TGmc editor to execute proposed changes from 11-14-0954r2 found under all headings which include CID3295 |
| 3490 | Tom Kolze | 1029.47 | 8.4.2.157.2 | | The case for 80+80 support is missing. Support for 80+80 does not imply support for 160 and support for 160 does not imply support for 80+80. and similarly, support for 80+80 does not imply support for 160. | Change "The value of 3 is reserved" to "Set to 3 if the STA supports 80+80 MHz mode and not 160 MHz". IS: "Set to 1 if the STA supports 160 MHz" SHOULD BE: "Set to 1 if the STA supports 160 MHz and not 80+80 MHz" | Revise - generally agree with commenter, TGmc editor to execute proposed changes from 11-14-0954r2 found under all headings which include CID3490 |

**Discussion:**

Description of BW support is not clear.

**Proposed changes**

**CID 3490, 3294, 3295, 3296**

***TGmc editor: modify one row of Table 8-250 Subfields of the VHT Capabilities Info field within subclause 8.4.2.157.2 VHT Capabilities Info field as shown:***

**Table 8-250—Subfields of the VHT Capabilities Info field**

|  |  |  |
| --- | --- | --- |
| **Subfield** | **Definition** | **Encoding** |
| Supported Channel Width Set | Indicates the channel widths supported by the STA. See 10.40 (VHT BSS operation). | Set to 0 if the STA does not support either 160 or 80+80 MHz.  Set to 1 if the STA supports 160 MHz but not non-contiguous 80+80 MHz Set to 2 if the STA supports 160 MHz and 80+80 MHz.  The value 3 is reserved.  For a TVHT STA, set the value of B2 to 1 if it supports TVHT\_MODE\_2C.  For a TVHT STA, set the value of B3 to 1 if it supports TVHT\_MODE\_2N. |

***TGmc editor: modify one row of Table 8-252 VHT Operation Information subfields of the VHT Operation element within subclause 8.4.2.158 VHT Operation element as shown:***

**Table 8-252—VHT Operation Information subfields**

|  |  |  |
| --- | --- | --- |
| **Subfield** | **Definition** | **Encoding** |
| Channel Width | This field, together with the HT Operation element STA Channel Width field, defines the BSS operating channel width (See 10.40.1 (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 non-contiguous 80+80 MHz operating channel width.  Values in the range 4 to 255 are reserved. |

***TGmc editor: modify one row of Table 8-258 TVHT Operation Information subfields within subclause 8.4.2.170 TVHT Operation element as shown:***

**8.4.2.170 TVHT Operation element**

**Table 8-258—TVHT Operation Information subfields**

|  |  |  |
| --- | --- | --- |
| **Subfield** | **Definition** | **Encoding** |
| Channel Width | This field defines the BSS operating channel width (see 10.43 (Basic TVHT BSS functionality)). | Set to 0 for TVHT\_W operating channel width.  Set to 1 for TVHT\_2W operating channel width.  Set to 2 for TVHT\_W+W operating channel width.  Set to 3 for TVHT\_4W operating channel width.  Set to 4 for non-contiguous TVHT\_2W+2W operating channel width.  Values in the range 5 to 255 are reserved. |

**References:**