IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| LB234-CID-3460-Resolution | | | | |
| Date: 2018-10-25 | | | | |
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Abstract

This document proposes resolution to CID 3460 and 3285. All changes are in reference to D2.1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 3460 | 387.00 | 29.3.4 | 29.3.4 needs to be revised to reflect 8 2.16GHz channels which can be used by EDMG STAs | revise 29.3.4 to take into account of 8 2.16GHz channels |

Proposed Resolution: **Revised**

**Discussion:**

The subclause will be modified to deal with 8 2.16GHz channels. The changes assume that the changes proposed by reference [2] have been accepted.

***TGay Editor Modify caption of Table 61 —Fields that specify a channel used by an EDMG STA as follows:***

***Parameters that specify a channel used by an EDMG STA:***

***TGay Editor Modify Table 61 —Fields that specify a channel used by an EDMG STA as follows:***

|  |  |
| --- | --- |
| **Field** | **Meaning** |
| dot11CurrentChannelWidth | Channel width. Possible values represent 2.16 GHz, 4.32 GHz, 6.48 GHz, 8.64 GHz, 2.16+2.16 GHz, and 4.32+4.32 GHz. |
| dot11CurrentChannelCenterFrequencyIndex0 | For a 2.16 GHz, 4.32 GHz, 6.48 GHz, and 8.64 GHz channel, denotes the channel center frequency.  For a 2.16+2.16 GHz channel, denotes the center frequency of the primary channel.  For a 4.32+4.32 GHz channel, denotes the center frequency of the 4.32 GHz channel containing the primary 2.16 GHz channel.  Value range is 1 – 15. |
| dot11CurrentChannelCenterFrequencyIndex1 | For a 2.16+2.16 GHz channel, denotes the center frequency of the secondary channel.  For a 4.32+4.32 GHz channel, denotes the center frequency of the 4.32 GHz channel which contains the secondary 2.16 GHz channels only.  For a 2.16 GHz, 4.32 GHz, 6.48 GHz, and 8.64 GHz channel, it is undefined.  Value range is 1 – 15. |
| dot11CurrentPrimaryChannel | Denotes the location of the primary 2.16 GHz channel.  Value range is 1 – 15. |

***TGay Editor: Replace Figure 162 —Channelization used by EDMG STAs with the following figure***



***TGay Editor: Modify P391L9 as follows***

channel number is shown in Figure 162. The channel index is defined in the range from 0 to 16 and is

***TGay Editor Modify Table 62 —2.16 GHz, 4.32 GHz, 6.48 GHz, and 8.64 GHz channels used by an EDMG STA as follows:***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Channel configuration #** | **TXVECTOR** | | | **PLME MIB Fields (PHYCONFIG\_VECTOR)** | | | |
| **CH\_BANDWIDTH**  **[LSB…MSB]** | **CHANNEL\_AGGREGATION** | **PRIMARY\_CHANNEL** | **dot11**  **Current**  **Channel**  **Width** | **dot11**  **Current**  **Channel**  **Center**  **Frequency**  **Index0** | **dot11**  **Current**  **Primary**  **Channel** | **dot11**  **Current**  **Channel**  **Center**  **Frequency**  **Index1** |
| 1 | 10000000 | NOT\_AGGREGATE | 1 | 2.16 GHz | 1 | 1 | N/A |
| 2 | 01000000 | 2 | 3 | 3 |
| 3 | 00100000 | 3 | 5 | 5 |
| 4 | 00010000 | 4 | 7 | 7 |
| 5 | 00001000 | 5 | 9 | 9 |
| 6 | 00000100 | 6 | 11 | 11 |
| 7 | 00000010 | 7 | 13 | 13 |
| 8 | 00000001 | 8 | 15 | 15 |
| 9 | 11000000 | 1 | 4.32 GHz | 2 | 1 |
| 10 | 2 | 3 |
| 11 | 01100000 | 2 | 4 | 3 |
| 12 | 3 | 5 |
| 13 | 00110000 | 3 | 6 | 5 |
| 14 | 4 | 7 |
| 15 | 00011000 | 4 | 8 | 7 |
| 16 | 5 | 9 |
| 17 | 00001100 | 5 | 10 | 9 |
| 18 | 6 | 11 |
| 19 | 00000110 | 6 | 12 | 11 |
| 20 | 7 | 13 |
| 21 | 00000011 | 7 | 14 | 13 |
| 22 | 8 | 15 |
| 23 | 11100000 | 1 | 6.48GHz | 3 | 1 |
| 24 | 2 | 3 |
| 25 | 3 | 5 |
| 26 | 01110000 | 2 | 5 | 3 |
| 27 | 3 | 5 |
| 28 | 4 | 7 |
| 29 | 00111000 | 3 | 7 | 5 |
| 30 | 4 | 7 |
| 31 | 5 | 9 |
| 32 | 00011100 | 4 | 9 | 7 |
| 33 | 5 | 9 |
| 34 | 6 | 11 |
| 35 | 00001110 | 5 | 11 | 9 |
| 36 | 6 | 11 |
| 37 | 7 | 13 |
| 38 | 00000111 | 6 | 13 | 11 |
| 39 | 7 | 13 |
| 40 | 8 | 15 |
| 41 | 11110000 | 1 | 8.64 GHz | 4 | 1 |
| 42 | 2 | 3 |
| 43 | 3 | 5 |
| 44 | 4 | 7 |
| 45 | 01111000 | 2 | 6 | 3 |
| 46 | 3 | 5 |
| 47 | 4 | 7 |
| 48 | 5 | 9 |
| 49 | 00111100 | 3 | 8 | 5 |
| 50 | 4 | 7 |
| 51 | 5 | 9 |
| 52 | 6 | 11 |
| 53 | 00011110 | 4 | 10 | 7 |
| 54 | 5 | 9 |
| 55 | 6 | 11 |
| 56 | 7 | 13 |
| 57 | 00001111 | 5 | 12 | 9 |
| 58 | 6 | 11 |
| 59 | 7 | 13 |
| 60 | 8 | 15 |

***TGay Editor: Modify Table 63 —2.16+2.16 GHz channel used by an EDMG STA:***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **TXVECTOR** | | | **PLME MIB Fields (PHYCONFIG\_VECTOR)** | | | |
| **Channel configuration #** | **CH\_BANDWIDTH**  **[LSB…MSB]** | **CHANNEL\_AGGREGATION** | **PRIMARY\_CHANNEL** | **dot11**  **Current**  **Channel**  **Width** | **dot11**  **Current**  **Channel**  **Center**  **Frequency**  **Index0** | **dot11**  **Current**  **Primary**  **Channel** | **dot11**  **Current**  **Channel**  **Center**  **Frequency**  **Index1** |
| 61 | 11000000 | AGGREGATE | 1 | 2.16+2.16 GHz | 1 | 1 | 3 |
| 62 | 10100000 | 1 | 5 |
| 63 | 10010000 | 1 | 7 |
| 64 | 10001000 | 1 | 9 |
| 65 | 10000100 | 1 | 11 (#6) |
| 66 | 10000010 | 1 | 13 |
| 67 | 10000001 | 1 | 15 |
| 68 | 11000000 | 2 | 3 | 3 | 1 |
| 69 | 01100000 | 2 | 5 |
| 70 | 01010000 | 2 | 7 |
| 71 | 01001000 | 2 | 9 |
| 72 | 01000100 | 2 | 11 |
| 73 | 01000010 | 2 | 13 |
| 74 | 01000001 | 2 | 15 |
| 75 | 10100000 | 3 | 5 | 5 | 1 |
| 76 | 01100000 | 3 | 3 |
| 77 | 00110000 | 3 | 7 |
| 78 | 00101000 | 3 | 9 |
| 79 | 00100100 | 3 | 11 |
| 80 | 00100010 | 3 | 13 |
| 81 | 00100001 | 3 | 15 |
| 82 | 10010000 | 4 | 7 | 7 | 1 |
| 83 | 01010000 | 4 | 3 |
| 84 | 00110000 | 4 | 5 |
| 85 | 00011000 | 4 | 9 |
| 86 | 00010100 | 4 | 11 |
| 87 | 00010010 | 4 | 13 |
| 88 | 00010001 | 4 | 15 |
| 89 | 10001000 | 5 | 9 | 9 | 1 |
| 90 | 01001000 | 5 | 3 |
| 91 | 00101000 | 5 | 5 |
| 92 | 00011000 | 5 | 7 |
| 93 | 00001100 | 5 | 11 |
| 94 | 00001010 | 5 | 13 |
| 95 | 00001001 | 5 | 15 |
| 96 | 10000100 | 6 | 11 | 11 | 1 |
| 97 | 01000100 | 6 | 3 |
| 98 | 00100100 | 6 | 5 |
| 99 | 00010100 | 6 | 7 |
| 100 | 00001100 | 6 | 9 |
| 101 | 00000110 | 6 | 13 |
| 102 | 00000011 | 6 | 15 |
| 103 | 10000010 | 7 | 13 | 13 | 1 |
| 104 | 01000010 | 7 | 3 |
| 105 | 00100010 | 7 | 5 |
| 106 | 00010010 | 7 | 7 |
| 107 | 00001010 | 7 | 9 |
| 108 | 00000110 | 7 | 11 |
| 109 | 00000011 | 7 | 15 |
| 110 | 10000001 | 8 | 15 | 15 | 1 |
| 111 | 01000001 | 8 | 3 |
| 112 | 00100001 | 8 | 5 |
| 113 | 00010001 | 8 | 7 |
| 114 | 00001001 | 8 | 9 |
| 115 | 00000101 | 8 | 11 |
| 116 | 00000011 | 8 | 13 |

***TGay Editor: Modify Table 64 —4.32+4.32 GHz channel used by an EDMG STA as follows:***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **TXVECTOR** | | | **PLME MIB Fields (PHYCONFIG\_VECTOR)** | | | |
| **Channel configuration #** | **CH\_BANDWIDTH**  **[LSB…MSB]** | **CHANNEL\_AGGREGATION** | **PRIMARY\_CHANNEL** | **dot11**  **Current**  **Channel**  **Width** | **dot11**  **Current**  **Channel**  **Center**  **Frequency**  **Index0** | **dot11**  **Current**  **Primary**  **Channel** | **dot11**  **Current**  **Channel**  **Center**  **Frequency**  **Index1** |
| 117 | 11110000 | AGGREGATE | 1 | 4.32+4.32 GHz | 2 | 1 | 6 |
| 118 | 2 | 3 |
| 119 | 11011000 | 1 | 1 | 8 |
| 120 | 2 | 3 |
| 121 | 11001100 | 1 | 1 | 10 |
| 122 | 2 | 3 |
| 123 | 11000110 | 1 | 1 | 12 |
| 124 | 2 | 3 |
| 125 | 11000011 | 1 | 1 | 14 |
| 126 | 2 | 3 |
| 127 | 01111000 | 2 | 4 | 3 | 8 |
| 128 | 3 | 5 |
| 129 | 01101100 | 2 | 3 | 10 |
| 130 | 3 | 5 |
| 131 | 01100110 | 2 | 3 | 12 |
| 132 | 3 | 5 |
| 133 | 01100011 | 2 | 3 | 14 |
| 134 | 3 | 5 |
| 135 | 11110000 | 3 | 6 | 5 | 2 |
| 136 | 4 | 7 |
| 137 | 00111100 | 3 | 5 | 10 |
| 138 | 4 | 7 |
| 139 | 00110110 | 3 | 5 | 12 |
| 140 | 4 | 7 |
| 141 | 00110011 | 3 | 5 | 14 |
| 142 | 4 | 7 |
| 143 | 11011000 | 4 | 8 | 7 | 2 |
| 144 | 5 | 9 |
| 145 | 01111000 | 4 | 7 | 4 |
| 146 | 5 | 9 |
| 147 | 00011110 | 4 | 7 | 12 |
| 148 | 5 | 9 |
| 149 | 00011011 | 4 | 7 | 14 |
| 150 | 5 | 9 |
| 151 | 11001100 | 5 | 10 | 9 | 2 |
| 152 | 6 | 11 |
| 153 | 01101100 | 5 | 9 | 4 |
| 154 | 6 | 11 |
| 155 | 00111100 | 5 | 9 | 6 |
| 156 | 6 | 11 |
| 157 | 00001111 | 5 | 9 | 14 |
| 158 | 6 | 11 |
| 159 | 11000110 | 6 | 12 | 11 | 2 |
| 160 | 7 | 13 |
| 161 | 01100110 | 6 | 11 | 4 |
| 162 | 7 | 13 |
| 163 | 00110110 | 6 | 11 | 6 |
| 164 | 7 | 13 |
| 165 | 00011110 | 6 | 11 | 8 |
| 166 | 7 | 13 |
| 167 | 11000011 | 7 | 14 | 13 | 2 |
| 168 | 8 | 15 |
| 169 | 01100011 | 7 | 13 | 4 |
| 170 | 8 | 15 |
| 171 | 00110011 | 7 | 13 | 6 |
| 172 | 8 | 15 |
| 173 | 00011011 | 7 | 13 | 8 |
| 174 | 8 | 15 |
| 175 | 00001111 | 7 | 13 | 10 |
| 176 | 8 | 15 |

***TGay Editor: Modify P361L12-13 as follows:***

dot11CurrentChannelCenterFrequencyIndex0 to to the value of this parameter defined in the range from 1 to 15 (see Table 61).

***TGay Editor: Modify P361L18-19 as follows:***

shall set dot11CurrentChannelCenterFrequencyIndex1 to the value of this parameter defined in the range from 1 to 15 (see Table 61).

***TGay Editor: Modify P366L12 as follows:***

PHY shall set dot11CurrentPrimaryChannel to the value of this parameter defined in the range from 1 to 15

***TGay Editor: The definition of the MIB variable dot11CurrentChannelCenterFrequencyIndex1 in P664L47-53:***

dot11CurrentChannelCenterFrequencyIndex1 OBJECT-TYPE

SYNTAX Unsigned32 (0..3000)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is a status variable

Set to 0 for a 2.16 GHz, 4.32 GHz, 6.48 GHz, or 8.64 GHz channel.

For a 2.16+2.16 GHz or 4.32+4.32 GHz channel, denotes the channel center frequency of frequency segment 1."

DEFVAL { 0 }

::= { dot11PHYEDMGEntry 5 }

|  |  |  |  |
| --- | --- | --- | --- |
| CID | Clause | Comment | Proposed change |
| 3285 | 9.4.2.20.16 | Some text defines channels 1-6 while the others defines channels 1-8. | In Figure 18@P84L18, Figure 22@P87L8: replace reserved for B6 and B6 with Ch7 and Ch8. |

**Proposed resolution :** Accept.

**Discussion:**

The fields format support 8 channels.

Same applies to Figure 22.

***TGay Editor: Change Figure 18***

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***TGay Editor: Change Figure 22***

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**SP:**

Do you agree to accept the resolution of CIDs 3460, 3285 as specified in 11-18-1791-00-00ay-LB234-CID-3460-Resolution into the spec draft?

**References:**

**[1] Draft P802.11ay\_D2.1**

**[2] 11-18-1789-00-00ay-CIDs-related-to-BW\_signaling**