IEEE P802.11
Wireless LANs

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| Mask Comment Resolution |
| Date: 2017-10-16 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Assaf Kasher | Qualcomm |  |  | akasher@qti.qualcomm.com |
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Abstract

This document suggests resolution for Mask Related CIDs

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| 14 |  | 30.3.5 | There are several TBDs that need to be specified | Replace TBDs with dBm/MHz value |
| 157 | 119.03 | 30.3.5 | Remove TBD and "(db domain)" text from the TX mask section. | The term "dB domain" doesn't have a standard meaning so it can be removed. I can provide a contribution with values to replace all the TBDs. |
| 521 | 119.21 | 30.3.5 | Is it -TBD dBm/MHz or -53 dBm/MHz? | Please specify |
| 522 | 120.07 | 30.3.5 | Is it -TBD dBm/MHz or -56 dBm/MHz? | Please specify |
| 523 | 120.19 | 30.3.5 | Is it -TBD dBm/MHz or -56 dBm/MHz? | Please specify |

Proposed Resolution: **Revise**

Discussion:

The text in 30.3.5 dealing with absolution value limits (dBm/MHz) for the transmit mask are problematic.

These limits are normaly set by regulatory bodies. They may differ between regulatory domains and possibly by application (indoor/outdoor). Setting such limits will also require the definition of a testing procedure in which the antenna configuration must be to provide a known and gain and that gain must then be taken into account. Measuring the mask by itself (relative to the peak) is much simpler. We propose to delete the related text:

***TGay Editor: Modify the following text in D0.8 P217L8-16 as follows:***

For a 2.16 GHz mask PPDU of EDMG and non-EDMG format, the transmit spectral mask shall have a 0 dBr (dB relative to the maximum spectral density of the signal) bandwidth of 1.88 GHz, –17 dBr at 1.20 GHz frequency offset, –22 dBr at 2.70 GHz frequency offset, and –30 dBr at 3.06 GHz frequency offset and above. The transmit spectral mask for frequency offsets in between 0.94 and 1.20 GHz, 1.20 and 2.70 GHz, and 2.70 and 3.06 GHz shall be linearly interpolated in decibels from the requirements for 0.94 GHz, 1.20 GHz, 2.70 GHz, and 3.06 GHz frequency offsets. Figure 73 shows an example of the resulting overall spectral mask.

***TGay Editor: Modify the following text in D0.8 P217L20-28 as follows:***

For a 4.32 GHz mask PPDU of EDMG format, the transmit spectral mask shall have a 0 dBr (dB relative to the maximum spectral density of the signal) bandwidth of 4.04 GHz, –17 dBr at 2.40 GHz frequency offset, –22 dBr at 5.40 GHz frequency offset, and –30 dBr at 6.12 GHz frequency offset and above. The transmit spectral mask for frequency offsets in between 2.02 and 2.40 GHz, 2.40 and 5.40 GHz, and 5.40 and 6.12 GHz shall be linearly interpolated in decibels from the requirements for 2.02 GHz, 2.40 GHz, 5.40 GHz, and 6.12 GHz frequency offsets. Figure 74 shows an example of the resulting overall spectral mask.

***TGay Editor: Modify the following text in D0.8 P218L4-12 as follows:***

For a 6.48 GHz mask PPDU of EDMG format, the transmit spectral mask shall have a 0 dBr (dB relative to the maximum spectral density of the signal) bandwidth of 6.20 GHz, –17 dBr at 3.60 GHz frequency offset, –22 dBr at 8.10 GHz frequency offset, and –30 dBr at 9.18 GHz frequency offset and above. The transmit spectral mask for frequency offsets in between 3.10 and 3.60 GHz, 3.60 and 8.10 GHz, and 8.10 and 9.18 GHz shall be linearly interpolated in decibels from the requirements for 3.10 GHz, 3.60 GHz, 8.10 GHz, and 9.18 GHz frequency offsets. Figure 75 shows an example of the resulting overall spectral mask.

***TGay Editor: Modify the following text in D0.8 P218L15-P219-5 as follows:***

For an 8.64 GHz mask PPDU of EDMG format, the transmit spectral mask shall have a 0 dBr (dB relative to the maximum spectral density of the signal) bandwidth of 8.36 GHz, –17 dBr at 4.80 GHz frequency offset, –22 dBr at 10.80 GHz frequency offset, and –30 dBr at 12.24 GHz frequency offset and above. The transmit spectral mask for frequency offsets in between 4.18 and 4.80 GHz, 4.80 and 10.80 GHz, and 10.80 and 12.24 GHz shall be linearly interpolated in decibels from the requirements for 4.18 GHz, 4.80 GHz, 10.80 GHz, and 12.24 GHz frequency offsets. Figure 76 shows an example of the resulting overall spectral mask.

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| 37 | 50.15 | 10.22.2.12 | Going to a narrower channel bandwidth may create mask compliance issues if RF center freqeuncy is not switched | Consider defining an 2.16 in 4.32 MASK etc. |

Proposed Resolution: **Reject**

The text in P217L4-7 (see below) already covers this case:

“An EDMG PPDU transmission shall comply with the TX masks defined in this section. An EDMG PPDU transmission that partially occupies a channel shall comply with the TX mask defined for the wider channel. For example, a 2.16 GHz PPDU transmission that partially occupies a 4.32 GHz channel shall not exceed the 4.32 GHz channel mask.”

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| 65 | 119.03 | 30.3.5 | Transmit Mask - consider adding that transmit mask when transmitting in part of the mask is as the wide mask (see last lines in 19.3.18.1) | As in comment |

Proposed Resolution: **Revised**

***TGay Editor: Modify the following text in D0.8 P217L1-2 as follows:***

1. For rules regarding TX center frequency leakage levels, see 20.3.3.4. The spectral mask requirements in this subclause do not apply to the RF LO leakage and its harmonics.