IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Resolution for CID 2088 | | | | |
| Date: 2019-06-26 | | | | |
| Author: | | | | |
| Name | Affiliation | Address | Phone | Email |
| Edward Au | Huawei Technologies | 303 Terry Fox Drive, Suite 400, Ottawa, Ontario K2K 3J1 |  | [edward.ks.au@huawei.com](mailto:edward.ks.au@huawei.com) |

##### This submission present proposed resolution for CID 2088. The proposed changes are based on REVmd/D2.2.

##### Revision history:

##### R0 – initial version

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change |
| 2088 | 9.4.2.16 | 996 | 58 | "Maximum tolerance" is just "tolerance" | Change (I think 4) instances of "maximum tolerance" to "tolerance"; listing one example. |

***Discussion:***

In Draft 2.2, there are 103 instances of “tolerance”. Of interest to us is listed as follows:

* 1001.3: The maximum tolerance for the transmit power value reported in the TPC Response element is ± 5 dB.
* 1506.10: The maximum tolerance for the value reported in Max Transmit Power field is ±5 dB.
* 2297.24: The maximum tolerance of the received power measurements shall be ± 5 dB.
* 2297.47: The maximum tolerance for the value reported in Max Transmit Power field shall be 5 dB.
* 2863.37: The transmitted center frequency tolerance shall be ±25 ppm maximum.
* 2863.42: The PN code chip clock frequency tolerance shall be ±25 ppm maximum.
* 2893.32: The transmitted center frequency tolerance shall be ±25 ppm maximum.
* 2893.37: The PN code chip clock frequency tolerance shall be ±25 ppm maximum.
* 2931.38: The transmitted center frequency tolerance shall be ±20 ppm maximum for 20 MHz and 10 MHz channels and shall be ±10 ppm maximum for 5 MHz channels.
* 2931.46: The symbol clock frequency tolerance shall be ±20 ppm maximum for 20 MHz and 10 MHz channels, and shall be ±10 ppm maximum for 5 MHz channels.
* 2954.12: The transmit center frequency tolerance shall be ± 25 ppm maximum.
* 2954.17: The symbol clock frequency tolerance shall be ± 25 ppm maximum.
* 3035.32: The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band and ± 25 ppm maximum for the 2.4 GHz band.
* 3036.17: The symbol clock frequency tolerance shall be ± 20 ppm maximum for 5 GHz bands and ± 25 ppm for 2.4 GHz bands.
* 3070.45: The transmitter center frequency tolerance shall be ± 20 ppm maximum.
* 3070.56: The symbol clock frequency tolerance shall be ± 20 ppm maximum.
* 3210.45: The symbol clock frequency and transmit center frequency tolerance shall be ±20 ppm maximum.
* 3287.58: The symbol clock frequency tolerance shall be maximum ±25 ppm.
* 3391.35: The symbol clock frequency and transmit center frequency tolerance shall be ±20 ppm maximum.
* 3434.36: The transmitter center frequency tolerance shall be ± 20 ppm maximum.
* 3434.47: The symbol clock frequency tolerance shall be ± 20 ppm maximum.
* 3463.60: The transmitter center frequency tolerance shall be ± 20 ppm maximum.
* 3464.9: The symbol clock frequency tolerance shall be ± 20 ppm maximum.

Please note that there are other instances that do not use “maximum” for the term “tolerance”. For example:

* 2947.17: The frequency accuracy (see 17.3.9.5 (Transmit center frequency tolerance) and 17.3.9.6

(Symbol clock frequency tolerance)) is ±25 ppm.

* 3812.63: This attribute indicates the offset with a tolerance of +/- 4 microseconds relative to the TBTT for which a TIM frame is scheduled for transmission.
* 4030.47: The STA Tx Power field indicates the target transmit power at the antenna connector with a tolerance of +/-5 dB for the lowest basic rate of the reporting STA.

***Proposed resolution:***

Revised

* 1001.3: The tolerance for the transmit power value reported in the TPC Response element is ± 5 dB.
* 1506.10: The tolerance for the value reported in Max Transmit Power field is ±5 dB.
* 2297.24: The tolerance of the received power measurements shall be ± 5 dB.
* 2297.47: The tolerance for the value reported in Max Transmit Power field shall be 5 dB.
* 2863.37: The transmitted center frequency tolerance shall be ±25 ppm.
* 2863.42: The PN code chip clock frequency tolerance shall be ±25 ppm.
* 2893.32: The transmitted center frequency tolerance shall be ±25 ppm.
* 2893.37: The PN code chip clock frequency tolerance shall be ±25 ppm.
* 2931.38: The transmitted center frequency tolerance shall be ±20 ppm for 20 MHz and 10 MHz channels and shall be ±10 ppm for 5 MHz channels.
* 2931.46: The symbol clock frequency tolerance shall be ±20 ppm for 20 MHz and 10 MHz channels, and shall be ±10 ppm for 5 MHz channels.
* 2954.12: The transmit center frequency tolerance shall be ± 25 ppm.
* 2954.17: The symbol clock frequency tolerance shall be ± 25 ppm.
* 3035.32: The transmitter center frequency tolerance shall be ± 20 ppm for the 5 GHz band and ± 25 ppm for the 2.4 GHz band.
* 3036.17: The symbol clock frequency tolerance shall be ± 20 ppm for 5 GHz bands and ± 25 ppm for 2.4 GHz bands.
* 3070.45: The transmitter center frequency tolerance shall be ± 20 ppm.
* 3070.56: The symbol clock frequency tolerance shall be ± 20 ppm.
* 3210.45: The symbol clock frequency and transmit center frequency tolerance shall be ±20 ppm.
* 3287.58: The symbol clock frequency tolerance shall be ±25 ppm.
* 3391.35: The symbol clock frequency and transmit center frequency tolerance shall be ±20 ppm.
* 3434.36: The transmitter center frequency tolerance shall be ± 20 ppm.
* 3434.47: The symbol clock frequency tolerance shall be ± 20 ppm.
* 3463.60: The transmitter center frequency tolerance shall be ± 20 ppm.
* 3464.9: The symbol clock frequency tolerance shall be ± 20 ppm.