IEEE P802.11
Wireless LANs

|  |
| --- |
| Resolution for CMMG related comments |
| Date: 2020-02-20 |
| Author: |
| Name | Affiliation | Address | Phone | Email |
| Edward Au | Huawei Technologies | 303 Terry Fox Drive, Suite 400, Ottawa, Ontario K2K 3J1 |  | edward.ks.au@gmail.com |

##### This submission present proposed resolution for CIDs 4222, 4223, 4225, 4235, 4237. The proposed changes are based on REVmd/D3.0.

##### Revision history:

##### R0 – initial version

##### R1 – Updated resolutions of CIDs 4222, 4223, and 4225.

R2 – Updated resolution of CIDs 4235 and 4237.

R3 – Updated resolution of CID 4235.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change |
| 4222 | 25.5.7.1.3 | 3524 | 9 | "106" should be "10<sup>6</sup>", and the size of "440x10<sup>6</sup>" on the previous line should be made consistent with surrounding text | As it says in the comment |

**Discussion:**

The following is the paragraph of interest as pointed out by the commenter:



It is correct that the MULTICHANNEL\_SAMPLING RATE for CMMG SC mode at 1080 MHz channel is 880 \times 10^6 sample/s rather than 880 \ times 106 sample/s. It is consistent with the value of MULTICHANNEL\_SAMPLING\_RATE for CDMG SC mode as mentioned in 24.5.4.1.2. (Time of departure accuracy).

**Proposed resolution:**

Accepted

Note to the editors: reduce the extra space from “880 \times 10^6 sample/s”.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change |
| 4223 | 25.6.9.2.3 | 3544 | 29 | "1320" is off by 6 orders of magnitude | Add " <mult> 10<sup>6</sup>" after the cited text. Also fix the size of "660x10<sup>6</sup>" on the same line to be consistent with surrounding text |

**Discussion:**

The following is the paragraph of interest as pointed out by the commenter:



The commenter is correct that the 10^6 is missing. In addition, the unit “sample/s” is also missing.

**Proposed resolution:**

Revised

At 3544.29, replace “1320” with “1320 \times 10^6 sample/s”.

At 3544.29, increase the font size of “\times 10^6” so that it is consistent with the surrounding text.

Note to the editors: reduce the extra space from “1320 \times 10^6 sample/s”.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change |
| 4225 | 25.15.3 | 3566 | 29 | "540 " should be "540 MHz" | As it says in the comment |

**Discussion:**

The following is the paragraph of interest as pointed out by the commenter:



**Proposed resolution:**

Accepted

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change |
| 4235 | 25.6.5.5 | 3528 | 41 | "transmitted using duplication style" -- not defined | Change to "duplicated" |

**Discussion:**

The following is the paragraph of interest as pointed out by the commenter:



The “duplicated” style is shown as follows:



Comments from Mark Rison sent to the email reflector:

In addition, regarding Edward's CID 4235 resolution in 20/0235r0 (which in general I think are preferable to Graham's in 20/0233r2, where they overlap), I note the current wordings re 25.3.10 xrefs are:

A CMMG STA shall transmit an RTS frame carried in CMMG or CMMG duplicate format (see 25.3.10

transmitted (#2037)in duplicate format as defined in 25.3.10

transmitted (#2037)in duplicate format as defined in 25.3.10

transmitted (#2037)in duplicate format as defined in 25.3.10 [three NOTEs essentially saying the same thing…]

transmitted in duplicate format as defined in 25.3.10

symbols are duplicated as described in 25.3.10

symbols are duplicated as described in 25.3.10

symbols are transmitted using duplication style as described in 25.3.10 [this is what the comment is about]

signal is resampled as defined in 25.3.10

So I'm not sure Edward’s symbols are duplicated as described in 25.3.10 and then transmitted is consistent. I think just symbols are duplicated as described in 25.3.10 would be more consistent, and the triplicated NOTE should be detriplicated too.

The first note is located at 3497.50 in Subclause 25.3.5.3.1 (CEF of control mode):



The second note is located at 3499.1 in Subclause 25.3.5.3.2 (CEF of SC mode):



The third note is located at 3500.1 in Subclause 25.3.5.3.3 (CEF of OFDM mode)



These 3 notes can be combined into one and moved to Subclause 25.3.5.1 (General):



**Proposed resolution:**

Revised.

At 3528.41, change “If the channel bandwidth is 1080 MHz, the modulated SIG symbols are transmitted using duplication style as described in 25.3.10.” to “If the channel bandwidth is 1080 MHz, the modulated SIG symbols are duplicated as described in 25.3.10.”

Remove the notes at 3497.50, 3499.1, and 3500.1.

At 3496.50, change “NOTE” to “NOTE 1”.

At 3496.54, add the second note as follows:

“NOTE 2–For CMMG Control mode and CMMG SC mode preambles, all fields are transmitted with SC mode transmission. For CMMG OFDM mode preamble, the STFs, the CEFs, and the SIG fields are transmitted with SC mode transmission. For 1080 MHz SC transmission, the STFs, the CEFs, and the SIG fields are transmitted in duplicate format as defined in 25.3.10 (Duplication transmission on a 1080 MHz channel).”

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change |
| 4237 | 25.5.1 | 3513 | 38 | " transmitted by CMMG SC MIMO" -- huh? | Change to " with MIMO" |

**Discussion:**

The following is the paragraph of interest as pointed out by the commenter:



**Proposed Resolution:**

Accepted.