### **IEEE P802.11 Wireless LANs**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Comment Resolutions on Sync Field | | | | |
| Date: 2019-07-16 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | Email |
| Steve Shellhammer | Qualcomm |  |  | shellhammer@ieee.org |
|  |  |  |  |  |

**Abstract**

The document provides comment resolutions for CIDs: 3295 and 3323.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **Page/Line** | **Comment** | **Proposed Change** | **Resolution** |
| 3295 | 30.3.5.9 | 145/31 | In "The output of the kth WUR encoder determines whether to sample from the kth HDR On-WG, LDR On-WG, or from Off-WG, depending on the WUR\_DATARATE and the encoded bit of the corresponding 20 MHz subchannel, where k, 0kK1-∩éú∩éú, is the index of the 20 MHz subchannel.", it is not clear where the samples are taken from based on three conditions, i.e., the output of the kth WUR encoder, WUR\_DATARATE and the encoded bit of the corresponding 20 MHz subchannel. | Using "if ... then..." sentences to make it clear. | **Revised**  TGba Editor makes changes as shown in IEEE 802.11-19/1169r0 |

**Discussion**

In the text for the Single 20 MHz Channel (Clause 30.3.5.8) there is only reference to an “On-WG” not a “HDR On-WG” and a “LDR On-WG.” This seems clearer to the reader. Also, other than in this Clause 30.3.5.9 there are no references to “HDR On-WG” or “LDR On-WG” in the draft, so it does not seem like a good idea to refer to these here. So, the recommendation is to use the same approach here as in Clause 30.3.5.8. The final sentence in the paragraph describes that the HDR uses 2 µs symbols and the LDR uses 4 µs symbols, so that sentence is sufficient to describe the how WUR\_DATARATE controls the operation of the On-WG and the Off-WG.

**Proposed Resolution**

TGba Editor make the following changes to the draft,

* Waveform generation for the WUR-Data field: The output of the *k*th WUR encoder determines whether to sample from the *k*th On-WG or from the Off-WG, depending on the encoded bit of the corresponding 20 MHz subchannel, where k, , is the index of the 20 MHz subchannel. The samples in Off-WG have zero energy. Each symbol duration, *TSym=TSYM-HDR* is 2 μs for high data rate, and *TSym=TSYM-LDR* is 4 μs for low data rate.(#2671)

(#3295)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **Page/Line** | **Comment** | **Proposed Change** | **Resolution** |
| 3323 | 30.3.5.9 | 145/47 | In item (g), the outputs per 20 MHz subchannel are added across 20 MHz subchannels, after applying appropriate subchannel frequency offset. | Replace item (g) in 30.3.5.9 with the following sentences: "The outputs per 20 MHz subchannel are added across the 20 MHz subchannels, sample by sample, after applying appropriate subchannel frequency offset." | **Accepted** |