IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CR for 11be D0.3 | | | | |
| Date: 2020-05-13 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Xiaogang Chen | Intel | 2111 NE 25th Ave, Hillsboro, OR, 97124 |  | Xiaogang.c.chen@Intel.com |

Abstract

This submission proposes text changes of TGbe Draft 0.3 for CID24037.

Revisions:

* Rev 0: Initial version of the document.

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGax Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGax Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGax Editor: Editing instructions preceded by “TGax Editor” are instructions to the TGax editor to modify existing material in the TGax draft. As a result of adopting the changes, the TGax editor will execute the instructions rather than copy them to the TGax Draft.***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause Number(C)** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 1280 | 36.3.5 | 199.27 | "Segment (de)parser" is wrong term | Change to "frequency subblock (de)parser" throughout clause 36 | Rejected-  The group discussed and agreed to use segment parser. |
| 1312 | 36.3.5 | 199.16 | DCM affects many blocks and is now a mandatory mode so its impact shold be clearly defined in the bulleted list of blocks and the block diagrams | Add DCM to the bulleted lists and block diagrams in sections 36.3.5 and 36.3.6. DCM affects a) nSdShort and thence pre/post-FEC padding, b) for some RUs there is 1bit of padding every OFDM symbol at the same logical position as the post-FEC PHY padding, as well as c) the constellation mapper. | Rejected-  DCM is one bullet already. DCM is part of the constellation mapper which is included in every figure. |
| 1314 | 36.3.5 | 200.28 | EHT MU PPDU allows for puncturing also; so then why are Fig 36-24 and 36-25 different? | Delete fig 36-24 and points its cross-references to fig 36-25 instead | Rejected-  36-24 is for MU PPDU in which preamble is duplicated; while 36-25 is for TB PPDU in which preamble is populated on 20Mhz subchannels where data is transmitted. |
| 1555 | 36.3.5 | 201.04 | EHT-MCS 0 + DCM is defined as 3 in EHT-SIG MCS field, replace TBD with 3. | as in comment. | Accepted |
| 1594 | 36.3.18.1.1 | 323.07 | Spectral mask for 320MHz non-HT dup PPDU is specified with or without puncturing. Spec also needs to describe spectral masks for 20MHz to 160MHz non-HT dup PPDU with or without puncturing. | Specify spectral masks for 20MHz, 40MHz, 80MHz and 160MHz non-HT dup PPDU with or without puncturing. | Rejected-  The 320mhz non-HT dup PPDU with 40 MHz punctured is just an example. The rules for other puncturing cases, e.g. 160MHz with 20Mhz punctured, are defined in 36.3.18.1.3. |
| 1945 | 36.3.5 | 200.40 | before sent only on the 20Mhz channels, the legacy preambles should be duplicated | Add Duplicated and before sent | Revised-  At the end of P.200.35 please add “The L-SIG, RL-SIG and U-SIG fields are duplicated over multiple 20MHz if the EHT modulated fields are allocated in an RU/MRU > 242 tones” |
| 1946 | 36.3.5 | 204.51 | 242+484 is MRU, big RU comes first. | Add or MRU after RU, swipe 242 and 484 | Accepted. |
| 1965 | 36.3.5 | 201.04 | Clear the TBD in "The DCM tone mapper, which is defined in 36.3.12.8 (Constellation mapping), is applied only if the EHT-SIG-MCS field in the U-SIG field indicates EHT-SIG-MCS is TBD." | Change the TBD to 14 or 15. | Revised-  Resolved in CID 1555. |
| 1966 | 36.3.5 | 0.00 | Add the transmit diagram for EHT DUP mode. | as comment | Revised –  TGbe editor please refer to the changes in DCN 556r0 under heading that include CID 1966 |
| 3100 | 36.3.5 | 199.37 | step l) Multiplication by 1st column of PEHT-LTF is not needed in Transmitter block diagram since BEAM\_CHANGE=0 is not allowed in EHT MU PPDU. | Delete step l) | Accepted. |
| 3101 | 36.3.5 | 199.40 | step n) wording is confusing since EHT-MCS14 is only allowed for PPDU bandwidth greater than or equal to 80MHz. The current wording makes it EHT-MCS14 applicable to PPDU bandwidth less than 80MHz without duplication. Change to n) Frequency domain duplication if EHT-MCS equals 14. | As in comment | Accepted |
| 3196 | 36.3.21 | 353.43 | It could also be post-11be PPDUs. | Change "the PPDU is an EHT PPDU" to  "the PPDU has U-SIG, and is an EHT PPDU if the Version Identifier field is 0 in the U-SIG." | Revised-  TGbe editor to make the changes shown in DCN 556r0 under headings that include CID 3196. |
| 3197 | 36.3.21 | 354.19 | LENGTH is multiple of 3, so ceil() is not required | Remove the ceiling function from Equation (36-92) | Accepted. |

**Proposed changes for CID 3196:**

*To the TGbe Editor: change the P.L. 353.43 as following:*

**If a valid parity bit and the RATE with 6 Mb/s are indicated in L-SIG and RL-SIG and the LENGTH field value in L-SIG and RL-SIG is a multiple of three, ~~the PPDU is an EHT PPDU~~ U-SIG is present after RL-SIG. PHY entity shall begin receiving the U-SIG and identify the PPDU version based on the PHY Version Identifier in the U-SIG.**

**In addition, replace “Figure 36-81—PHY receive state machine” with the figure below.**



**Proposed changes for CID 1966:**

*To the TGbe Editor: add the two figures below after figure 36-31. i.e. at the end of this subclause.*



Figure 36-x1 Transmit block diagram for the transmission of a data field with MCS 14 in 80MHz or 160MHz PPDU.



Figure 36-x2 Transmit block diagram for the transmission of a data field with MCS 14 in 320MHz PPDU.