IEEE P802.11  
Wireless LANs

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| CR for 11be D1.0 | | | | |
| Date: 2020-05-13 | | | | |
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Abstract

This submission proposes text changes of TGbe Draft 1.0 for CIDs:

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4617

4691

4692

4904

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4907

4994

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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 TGbe Draft 1.01. This introduction is not part of the adopted material.

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

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

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| **CID** | **Commentor** | **Clause Number** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 4542 | Bin Tian | 36.3.6 | 377.30 | Remove "using one frequency segment" | as in the comment. | Accepted |
| 4543 | Bin Tian | 36.3.6 | 377.24 | After Figure 36-26 title "Transmitter block diagram for the EHT-SIG field", add "for an EHT MU PPDU" | as in the comment. | Accepted |
| 4544 | Bin Tian | 36.3.6 | 378.08 | It's not clear the main difference between the EHT-LTF and EHT-STF block diagram. If want to highlight the P/R matrix on EHT-LTF, need to add a reference to Figure 36-52. | as in the comment. | Revised-  TGbe Editor please make changes following the instrucutions under CID 4544 |
| 4545 | Bin Tian | 36.3.6 | 378.48 | Change " a singel freqeuncy segment" to single frequency subblock | as in the comment. | Accepted |
| 4617 | Brian Hart | 36.3.6 | 375.54 | DCM affects many blocks and is now a mandatory mode so its impact should be clearly identified (see 36.3.13.3.2 BCC coding) especially wher enon-obvious | At step d), append ("and add 1 pad bit per OFDM symbol in certain DCM modes"). Ditto P387L42 and P386L2. Also add to text in figures 32-26/27/28/29/30/33. | Revised-  TGbe Editor please make changes following the instrucutions under CID 4617 |
| 4691 | CHENCHEN LIU | 36.3.6 | 376.61 | "frequency segment" is used here， while "frequency subblock" is used on the same page line 25. Please consider to use the same word | As in comment | Revised-  TGbe editor please remove “using one frequency segment” |
| 4692 | CHENCHEN LIU | 36.3.6 | 377.02 | Clearify if the U-SIG contents can be different in different 80 MHz subblocks | As in comment | Revised-  TGbe Editor please make changes following the instrucutions under CID 4692 |
| 4904 | Dong Guk Lim | 36.3.6 | 376.61 | The constellation mapper also is not used when STF and LTF are generated. add it in the text. | As in comment | Revised-  TGbe Editor please make changes following the instrucutions under CID 4904 |
| 4905 | Dong Guk Lim | 36.3.6 | 377.01 | In TB PPDU, the pre-EHT modulated fields are duplicated over multiple 20MHz when EHT modulated fields are located in over 242 tones. change "may be" with "are". | As in comment | Accepted |
| 4906 | Dong Guk Lim | 36.3.6 | 382.54 | In Figure 36-32, Dup mode is used when Nss =1. so, the spatial mapper does not need in this figure. Delete this block and add the CSD chain block in the figure. | modify the figure as in the comment. | Rejected-  “*Spatial mapper* maps space-time streams to transmit chains.” Mapping from 1ss to multiple antenna is part of spatial mapper. CSD is also part of spatial mapper. |
| 4907 | Dong Guk Lim | 36.3.6 | 383.28 | In Figure 36-33, Dup mode is used when Nss =1. so, the spatial mapper does not need in this figure. Delete this block and add the CSD chain block in the figure. | modify the figure as in the comment. | Rejected-  Same reason as CID 4906 |
| 4994 | Eunsung Park | 36.3.6 | 382.32 | The block diagram of the DL MU-MIMO transmission of a Data field with LDPC encoding in RU or MRU size larger than 996 tones is missing. | See the comment. | Rejected-  Got same comment in 11ax and the drawing turned out to have poor readability.need to redraw 36-31 for each user in 36-30. |
| 5677 | JUNG HOON SUH | 36.3.6 | 382.40 | In Figure 36-32, do we need a stream parser for the Single Spatial Stream? | Modify the figure with the Stream Parser removed. | Rejected-  Stream parser is generic for all nSS including 1SS. |
| 5678 | JUNG HOON SUH | 36.3.6 | 383.06 | In Figure 36-33, do we need a stream parser for the Single Spatial Stream, as well? | Modify the figure with the Stream Parser removed. | Rejected-  Same reason as CID 5677 |
| 6999 | Shimi Shilo | 36.3.6 | 377.01 | Whereas for an MU PPDU it is clearly stated (in a note) that the U-SIG field may be duplicated within each 80 MHz subblock but may be different between subblocks, for a TB PPDU it says that 'U-SIG may be duplicated over multiple 20 MHz if the EHT modulated fields...'. Furthermore, Section 36.3.12.7.4 states clearly that for both MU and TB PPDU the U-SIG field can be different between frequency subblocks. Therefore, this has to be clarified in Section 36.3.6 as well. | Add a note similar to the note used for MU PPDU, stating that 'the U-SIG contents may be different in different 80 MHz subblocks for PPDU bandwidth greater than 80 MHz'. | Revised-  TGbe Editor please make changes following the instrucutions under CID 6999 |
| 7183 | Sigurd Schelstraete | 36.3.6 | 376.25 | Change "frequency subblock" to "80 MHz subblock" | See comment | Revised-  TGbe editor please remove “using one frequency subblock” |
| 7184 | Sigurd Schelstraete | 36.3.6 | 375.57 | Change "996 tone" to "996 tones" | See comment | Accepted |
| 7185 | Sigurd Schelstraete | 36.3.6 | 376.61 | Change "frequency segment" to "80 MHz subblock"? | See comment | Revised-  Resolved in CID 4691 |
| 7393 | Stephen McCann | 36.3.6 | 377.32 | Missing equals typos in the sentence "The DCM tone mapper, which is defined in 36.3.13.7 (Constellation mapping(#3115)), is applied only if the EHT-SIG-MCS field in the U-SIG field indicates EHT-SIG-MCS is 3." | Change the cited sentence to "The DCM tone mapper, which is defined in 36.3.13.7, is applied only if the EHT-SIG-MCS field in the U-SIG field indicates that the value of EHT-SIG-MCS is equal to 3." | Accepted |
| 7750 | Yan Xin | 36.3.6 | 377.61 | Replace "the same size or smaller than ..." as "the same size as or smaller than ..." | as in comment | Accepted |

**Proposed changes for CID 4544:**

*To the TGbe Editor: change the P.L. 400.15 as following:*

A subset of these transmitter blocks consisting of the constellation mapper and CSD blocks, as well as the  
blocks to the right of, and including, the spatial mapping block, are also used to generate the EHT-LTF  
fields. A subset of these transmitter blocks consisting of the constellation mapper and CSD blocks, as well as  
the blocks to the right of, and including, the spatial and frequency mapping block of Figure 36-27  
(Transmitter block diagram for the UL transmission or DL non-MU-MIMO transmission of a Data field with  
BCC encoding on an RU/MRU that is the same size or smaller than a 242-tone RU(#1315)), are also used to  
generate the EHT-STF field but without the multiplication by defined in Equation (36-41)

**Proposed changes for CID 4617:**

*To the TGbe Editor: change the P.L. 409.44 as following:*

Post-FEC padding: Append the post-FEC padded bits as described in 36.3.13 (Data field) and the PE  
field as described in 36.3.14 (Packet extension). Note that if EHT-MCS15 is used in a 106-tone RU, 242-tone RU, or 106+26-tone MRU with BCC coding, then after every coded bits, one padding bit is added.

**Proposed changes for CID 4904:**

*To the TGbe Editor: change the P.L. 398.61 as following:*

Figure 36-25 (Transmitter block diagram for the L-SIG, RL-SIG, and U-SIG fields of an EHT TB PPDU)  
shows the transmit process for the L-SIG, RL-SIG, and U-SIG fields of an EHT TB PPDU using one  
frequency segment. These transmit blocks are also used to generate the L-STF and L-LTF fields of the EHT TB PPDU with the following exception:

— The BCC encoder, and interleaver as well as constellation mapper are not used when generating the L-STF and L-LTF fields.

(#1945)The L-SIG, RL-SIG, and U-SIG fields may be duplicated over multiple 20 MHz if the EHT  
modulated fields are allocated in an RU/MRU > 242 tones.

**Proposed changes for CID 6999, 4692:**

*To the TGbe Editor: change the P.L. 431.36 as following:*

For a 40 MHz EHT PPDU or ER preamble, the U-SIG content shall be identical in both 20 MHz subchannels. For an 80 MHz EHT PPDU or ER preamble, the U-SIG content shall be identical in all nonpunctured 20 MHz subchannels. For a 160/320 MHz EHT MU PPDU or ER preamble, the U-SIG content shall be identical in all nonpunctured 20 MHz subchannels within each 80 MHz subblock, and the U-SIG content in different 80 MHz subblocks may be different. For a 160/320MHz EHT TB PPDU, the U-SIG content shall be identical in all nonpuncutred 20MHz subchannels within the PPDU bandwidth.