IEEE P802.11
Wireless LANs

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| Changes to D2.0 Clause 28.3.5 |
| Date: 2018-01-11 |
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Abstract

This submission proposes resolutions for comments of TGax Draft 2.0 with the following CIDs:

CID 11424, 11567, 12585, 13349, 13350, 13351, 13352, 13353, 13408.

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.***

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| **CID** | **Commenter** | **Clause** | **P.L.** | **Comment** | **Proposed Change** | **Resolution** |
| 11424 | Bo Sun | 28.3.5 | 377.39 | There is no transmit block diagram for DL MU-MIMO with BCC | Add transmit block diagram for DL MU-MIMO with BCC. If that's the same as in 11ac, add a note to refer to the counterpart in 11ac. | Rejected – It’s good to see every possible combination but it would make this section bulky if we exaust all diagrams. We already have DLMUMIMO with LDPC. 11ac also doesn’t have such block diagram. |
| 11567 | Dorothy Stanley | 28.3.5 | 376.26 | the transmitter block diagrams for the Data fields are essentially the same as 802.11ac. It would be more informative to provide diagrams for UL OFDMA and UL MU-MIMO. | as in comment | Rejected – UL OFDMA and UL MUMIMO are the same as SU PPDU as mentioned above Figure 28-18 |
| 12585 | Mark RISON | 28.3.5 | 374.19 | "repeated HE-SIG-A" is not accurate as the HE-SIG-A is not repeated (see Figure 28-10); it's just longer with repeated information. Ditto "repeated HE-SIG-A field OFDM symbols" below | Change "the repeated HE-SIG-A symbols (i.e. the 2nd and the 4thOFDM symbols of HE-SIG-A field)" to "the 2nd and the 4th OFDM symbols of the HE-SIG-A field" and similarly on the next page | Revised – As proposed changeTGax editor to make the changes shown in 11-18/0024r0 under all headings that include CID 12585. |
| 13349 | ron porat | 28.3.5 | 374.00 | Duplication over multiple 20MHz is subject to conditions when using preamble puncturing (HE MU PPDU).HE TB PPDU has a separate figure (28-15) for having distinct duplication requirements, so it would be logical to add a separate figure for HE MU PPDU with preamble puncturing. | Add a note to fig 28-13 for duplication when preamble puncturing in HE MU PPDU or add separate fig for HE MU PPDU with preamble puncturing.. | Revised – Add notes to figure 28-13 and figure 28.14 for preamble puncturing.TGax editor to make the changes shown in 11-18/0024r0 under all headings that include CID 13349. |
| 13350 | ron porat | 28.3.5 | 376.01 | Mentioning of DCM tone mapper, but not shown in figure 28-16 | Remove remark, or mention that DCM tone mapper is part of the constellation mapper and BCC interleaver. | Revised – As proposed change.TGax editor to make the changes shown in 11-18/0024r0 under all headings that include CID 13350. |
| 13351 | ron porat | 28.3.5 | 376.33 | Mentioning of DCM tone mapper, but not shown in figure 28-17 | Remove remark, or mention that DCM tone mapper is part of the constellation mapper and BCC interleaver. | Revised – As proposed change.TGax editor to make the changes shown in 11-18/0024r0 under all headings that include CID 13351. |
| 13352 | ron porat | 28.3.5 | 378.01 | Mentioning of DCM tone mapper, but not shown in figure 28-18 | Remove remark, or mention that DCM tone mapper is part of the constellation mapper and LDPC tone mapper. | Revised – As proposed change.TGax editor to make the changes shown in 11-18/0024r0 under all headings that include CID 13352. |
| 13353 | ron porat | 28.3.5 |  | Missing diagram for 160MHz DL-MUMIMO. | Add diagram for 160MHz DL-MUMIMO | Rejected-Don’t need to exaust all scenarios. We have 160MHz already for SU. We have the following text in the segment parser clause: “For an MU transmissions, the rearrangementsare carried out in the same way but per user.” |
| 13408 | Sameer Vermani | 28.3.5 | 376.33 | The term "DCM tone mapper" is not defined. Moreover, no reference to "DCM" is shown in any of the figures/diagrams but that term repeatedly appears in text. | Make diagram and text consistent. Define DCM tone-mapper if needed | Revised – Resolved in 13350~13353 |

**Propose:** Revised for CID 12585, CID 13349, CID 13350, CID 13351, CID 13352 per editing instructions in 11-18/0024r0 .

*To the TGax Editor: modify P.L. 374.19 as following (CID 12585).*

* The BCC interleaver is not applied in ~~the repeated HE-SIG-A symbols (i.e. the 2nd and the 4~~~~th~~ ~~OFDM symbols of HE-SIG-A field)~~ the 2nd and the 4th OFDM symbols of the HE-SIG-A field in the HE ER SU PPDU.

*In addition, modify P.L. 375.1 as following (CID 12585).*

* The BCC interleaver is not applied in ~~the repeated HE-SIG-A symbols (i.e. the 2nd and the 4~~~~th~~ ~~OFDM symbols of HE-SIG-A field)~~ the 2nd and the 4th OFDM symbols of the HE-SIG-A field in the HE ER SU PPDU.

*To the TGax Editor: add the following note above figure 28-13, P.L. 374.23 (CID 13349).*

*NOTE: In the HE MU PPDU, the duplication on 20MHz channel is subject to the availability of 20MHz channels after preamble puncturing.*

*In addition, add the following note above figure 28-14, P.L.375.4 (CID 13349).*

*NOTE: In the HE MU PPDU, the duplication on 20MHz channel is subject to the availability of 20MHz channels after preamble puncturing.*

*To the TGax Editor: modify P.L. 376.1 as following (CID 13350).*

The DCM tone mapper, which is part of the constellation mapper, is applied only if the DCM indication in HE-SIG-A field is set to 1.

*To the TGax Editor: modify P.L. 376.33 as following (CID 13351).*

The DCM tone mapper, which is part of the constellation mapper, is applied only when the DCM indication for the RU is set to 1.

*To the TGax Editor: modify P.L. 378.01 as following (CID 13352).*

The DCM tone mapper, which is part of the constellation mapper, is applied only when the DCM indication for the RU is set to 1.