IEEE P802.11
Wireless LANs

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| Changes to D2.3 Miscllineous |
| Date: 2018-04-30 |
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Abstract

This submission proposes resolutions for comments of TGax Draft 2.3 with the following CIDs:

CID 11212/11224/11226/11724/11726/11962/12637/12688/12724/12725/12726/13312/13641/13772/14052.

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 | P.L. | Clause | Comment | Proposed changes | Resolution |
| 11212 | Albert Petrick | 373.65 | 28.3.5 | Guard interval should include window to align with transmit block diagram Figure 28-17 | add....(GI) Insertion and Window | Rejected-All figures have the block diagrme already. |
| 11224 | Albert Petrick | 476.01 | 28.3.11.16 | Grammar style: "a HE " and "an HE" used in several clauses in the draft | choice one style for consistency in the document | Accepted-Suggest the editor to align the terminologies globally in the draft. |
| 11226 | Albert Petrick | 366.42 | 28.3.3.5 | Missing comma | change to HE PPDU, | Rejected-20 MHz In 40 MHz HE PPDU In 2.4 GHz Band is a name of capability as a whole. |
| 11724 | Fei Tong | 424.56 | 28.3.10.8.4 | The section title <Time domain encoding> is confusing; the content in this section is anything but time domain coding. What is the reference of time domain? | Change to a more appropriate name | Revised- Suggest the editor to append the content of clause 28.3.10.8.4 (Time domain encoding) after the content of 28.3.10.8.2 (Encoding and modulation). Such that these claused are combined and we don’t have the clause of time domain encoding. |
| 11726 | Geert Awater | 291.00 | 27.12.2.2 | OBSS PD, OBSSPD and PBSS\_PD are used interchangeably. | Uniformize | AcceptedSuggest the editor to align the terminologies globally in the draft. |
| 11962 | James Lepp | 452.04 | 28.5 | Why not just rename "non-OFDMA" to "OFDM" or "regular"? OFDMA is the strange new option. |  | RejectedNon-OFDMA doesn’t have ambiguity. Why OFDMA is strange and new? |
| 12637 | Mark RISON | 465.45 | 28.3.11.10 | The fact that STBC is not to be used with >1SS or DCM is repeated a million times (T28-1, "The STBC block may be applied only for single spatial stream and only when DCM is not applied.", "The STBC block may be applied only for single spatial stream and only when DCM is not applied" again, "DCM is not applied when STBC is used.", "STBC is not applied in MU-MIMO RUs.STBC doesn't apply to HE-SIG-B.STBC is not applied in RUs that are used for MU-MIMO allocation.", "DCM is not applied with MU-MIMO or with STBC.", "For an HE PPDU, STBC is allowed only with single spatial stream and two space-time streams, and its application is as indicated by the STBC bit in HE-SIG-A. In an HE MU PPDU, STBC coding is used in all RUs or not used in any of the RUs. If in an RU, DL MU-MIMO is applied, STBC shall not be used in any RU in the HE MU PPDU.") | Say it in 28.3.11.10 and nowhere else | Revised--TGax editor to make the changes shown in 11-18/0771r0 under all headings that include CID 12637. |
| 12688 | Mark RISON | 62.14 | 9 | There are 9 "shall"s in Clause 9 (including one in a NOTE!) | Move the shalls to later clauses, except for the NOTE, where it should be changed from "shall support" to "supports" | Rejected- Changes are not necessary |
| 12724 | Mark RISON | 475.00 | 28.3.11.16 | Three instances of "Midamble Rx 2x and 1x HE-LTF subfield" | Change "and" to "And" in each of the instances | Accepted |
| 12725 | Mark RISON | 475.06 | 28.3.11.16 | " and the HESU PPDU With 1x HE-LTF And 0.8 us GI subfield to 1" is in the wrong place | Move to before the "in the HE Capabilities fields" [sic] | Accepted |
| 12726 | Mark RISON | 475.12 | 28.3.11.16 | " and the HE ERSU PPDU With 1x HE-LTF And 0.8 us GI subfield to 1" is in the wrong place | Move to before the "in the HE Capabilities fields" [sic] | Accepted |
| 13312 | Robert Stacey | 502.07 | 28.3.19.6.5 | Issuing two diffent forms of PHY-CCA.indication based on device capability is a bad idea. Also, the use of per20MHzbitmap is poorly defined (only issued when primary channel is bury?). We would need behavioral text to handle equivalent but different signals. For example, the PHY-CCA.indication(BUSY, {secondary40}) and CCA.indication(BUSY, {per20MHzbitmap=00001100} are equivalent (if the LSB represents primary channel). | Remove per20MHzbitmap and enumerate the preamble puncturing modes not already covered by secondary, secondary40, etc. | RejectedAfter several round of CRs the per20MHbitmap is stable. The equivalent indication mentioned in the comment are differenciated by different CCA mode and clear to be used. |
| 13641 | Tianyu Wu | 364.45 | 28.3.3.2 | Most places describe subcarriers using lower, upper, but here is using leftmost and rightmost. | Change to lowest, highest in this paragraph. | Accepted |
| 13772 | Yan Zhang | 475.05 | 28.3.11.16 | The statement "An HE SU PPDU with midamble containing 1x HE-LTF may only be sent to STAs that set the Doppler Rx subfield to 1 and the Midamble Rx 2x and 1x HE-LTF subfield to 1 in the HE Capabilities fields and the HE SU PPDU With 1x HE-LTF And 0.8 us GI subfield to 1, as defined in 9.4.2.237.3 (HE PHY Capabilities Information field). Otherwise it shall not be sent. "is a bit confusing since "the HE SU PPDU With 1x HE-LTF And 0.8 us GI subfield to 1" is also included in HE Capabilities fields.The same applies to "An HE ER SU PPDU with midamble containing 1x HE-LTF may only be sent to a STA that sets the Dop-pler Rx subfield to 1 and the Midamble Rx 2x and 1x HE-LTF subfield to 1 in the HE Capabilities fields and the HE ER SU PPDU With 1x HE-LTF And 0.8 us GI subfield to 1, as defined in 9.4.2.237.3 (HE PHY Capabilities Information field). Otherwise it shall not be sent." | Please change to "An HE SU PPDU with midamble containing 1x HE-LTF may only be sent to STAs that set the Doppler Rx subfield to 1, the Midamble Rx 2x and 1x HE-LTF subfield to 1 fields, and the HE SU PPDU With 1x HE-LTF And 0.8 us GI subfield to 1in the HE Capabilities, as defined in 9.4.2.237.3 (HE PHY Capabilities Information field). Otherwise it shall not be sent." | Accepted.Resolved in 12725/12726 already. |
| 14052 | Youhan Kim | 366.42 | 28.3.3.5 | "in" -> "using" | Change "in the" to "using the" | Revised-TGax editor to make the changes shown in 11-18/0771r0 under all headings that include CID 14052. |

**Propose:** Revised the following CIDs per editing instructions in 11-18/0771r0.

*To the TGax Editor: modify P.L. 514.61 as following (CID 12637).*

For an HE PPDU, STBC is allowed only with single spatial stream and two space-time streams, and only when DCM is not applied. ~~i~~Its application is as indicated by the STBC field in HE-SIG-A. In an HE MU PPDU, STBC coding is used in all RUs or not used in any of the RUs. If in an RU, DL MU-MIMO is applied, STBC shall not be used in any RU in the HE MU PPDU.

*To the TGax Editor: modify P.L. 411.14 as following (CID 14052).*

A 20 MHz operating non-AP HE STA indicates support of tone mapping of 26-tone RU, 52-tone RU, and
106-tone RU for a 40 MHz HE PPDU (see Table 28-7 (Data and pilot subcarrier indices for RUs in a 40
MHz HE PPDU)) in the 2.4 GHz frequency band ~~in~~ using the 20 MHz In 40 MHz HE PPDU In 2.4 GHz Band
subfield …

*To the TGax Editor: modify P.L. 411.30 as following (CID 14052).*

A 20 MHz operating non-AP HE STA indicates support of tone mapping of 26-tone RU, 52-tone RU, and
106-tone RU for 80+80 MHz and 160 MHz HE PPDU ~~in~~ using the 20 MHz In 160/80+80 MHz HE PPDU subfield