IEEE P802.11
Wireless LANs

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| Changes to D2.0 Clause 28.2.5, 28.2.6 |
| 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 12645, 13013, 13623, 13624, 13625, 14044, 14045, 14046.

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Updated Table 28-3.

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** |
| 14044 | Youhan Kim | 28.2.5 | 351.04 | Incorrect reference | Change "Table 28-2" to "Table 28-3" | Revised – As proposed changeTGax editor to make the changes shown in 11-18/0023r1 under all headings that include CID 14044. |
| 14045 | Youhan Kim | 28.2.5 | 351.14 | Table 28-3 indicates how to transmit various different PPDU BWs as indicated by the CH\_BANDWIDTH TXVECTOR parameter. However, HE MU PPDU has other CH\_BANDWIDTH values which are missing here. | Add rows in Table 28-3 for CH\_BANDWIDTH of HE-CBW-PUNC80-PRI, HE-CBW-PUNC80-SEC, HE-CBW-PUNC160-PRI20, HE-CBW-PUNC160-SEC40. | Revised – As proposed changeTGax editor to make the changes shown in 11-17/0231r2 under all headings that include CID 14045. |
| 12645 | Mark RISON | 28.2.6.1 | 352.00 | There are 4 instances of "20 MHz-only non-AP STA", and one instance of "A non-AP STA with 20 MHz-only capability" | Add "HE" before "STA" in each of the instances | Revised – As proposed change but cannot find the one instance of "A non-AP STA with 20 MHz-only capability"TGax editor to make the changes shown in 11-18/0023r1 under all headings that include CID 12645. |
| 13013 | Massinissa Lalam | 28.2.6.2 | 353.62 | Remove the extra blank line. | As in comment | Revised – As proposed changeTGax editor to make the changes shown in 11-18/0023r1 under all headings that include CID 13013. |
| 13623 | Tianyu Wu | 28.2.6.1 | 352.18 | Some sub clause number is wrong in the figure | Change 28.2.5.4, 28.2.5.3, 28.2.5.2 in the figure to 28.2.6.4, 28.2.6.3, 28.2.6.2 | Revised – As proposed change.TGax editor to make the changes shown in 11-18/0023r1 under all headings that include CID 13623. |
| 13624 | Tianyu Wu | 28.2.6.1 | 352.42 | Some sub clause number is wrong in the figure | Change 28.2.5.2, 28.2.5.3, 28.2.5.4 in the figure to 28.2.6.2, 28.2.6.3, 28.2.6.4 | Revised – As proposed change.TGax editor to make the changes shown in 11-18/0023r1 under all headings that include CID 13624. |
| 13625 | Tianyu Wu | 28.2.6.1 | 353.08 | Some sub clause number is wrong in the figure | Change 28.2.5.2, 28.2.5.3, 28.2.5.4 in the figure to 28.2.6.2, 28.2.6.3, 28.2.6.4 | Revised – As proposed change.TGax editor to make the changes shown in 11-18/0023r1 under all headings that include CID 13625. |
| 14046 | Youhan Kim | 28.2.6.3 | 354.60 | The additional requirements on HT format (coming from VHT) should be applicable only for 5 GHz operation. | Add "when operating in the 5 GHz band" at the end of P354L60 and 62. | As proposed change.TGax editor to make the changes shown in 11-18/0023r1 under all headings that include CID 14046. |

**Propose:** Revised the following CIDs per editing instructions in 11-18/0023r1.

*To the TGax Editor: modify P.L. 351.04 as following (CID 14044).*

* Table ~~28-2~~ 28-3 (Interpretation of FORMAT, NON\_HT Modulation and CH\_BANDWIDTH parameters) shows.

*To the TGax Editor: add the highlighted rows to table 28-3 (CID 14045).*

**Table 28-3— Interpretation of FORMAT, NON\_HT Modulation and CH\_BANDWIDTH parameters**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **FORMAT**  | **NON\_HT\_MODULATION**  | **CH\_BANDWIDTH**  | **CH\_OFFSET**  | **PPDU format** |
| HE | N/A | CBW20 | N/A | The STA transmits a HE PPDU of 20 MHz bandwidth. If the BSS bandwidth is wider than 20 MHz, then the transmission shall use the primary 20 MHz channel. |
| HE | N/A | CBW40 | N/A | The STA transmits a HE PPDU of 40 MHz bandwidth. If the BSS bandwidth is wider than 40 MHz, then the transmission shall use the primary 40 MHz channel. |
| HE | N/A | CBW80 | N/A | The STA transmits a HE PPDU of 80 MHz bandwidth. If the BSS bandwidth is wider than 80 MHz, then the transmission shall use the primary 80 MHz channel. |
| HE | N/A | CBW160 | N/A | The STA transmits a HE PPDU of 160 MHz bandwidth. |
| HE | N/A | CBW80+80 | N/A | The STA transmits a HE PPDU of 80+80 MHz bandwidth. |
| HE | N/A | HE-CBW-PUNC80-PRI | N/A | The STA transmits a HE PPDU on the punctured 80MHz bandwidth where only the secondary 20MHz is punctured  |
| HE | N/A | HE-CBW-PUNC80-SEC | N/A | The STA transmits a HE PPDU on the punctured 80MHz bandwidth where only one of the two 20 MHz sub-channels in secondary 40 MHz is punctured |
| HE | N/A | HE-CBW-PUNC160-PRI20 | N/A | The STA transmits a HE PPDU on the punctured 160MHz or 80+80MHz bandwidth where only the secondary 20 MHz in the primary 80 MHz is punctured. |
| HE | N/A | HE-CBW-PUNC160-SEC40 | N/A | The STA transmits a HE PPDU on the punctured 160MHz or 80+80MHz bandwidth where the primary 40 MHz in the primary 80 MHz is present. |

*To the TGax Editor: remove the blank line in P.L. 353.62 as following (CID 13013).*

*To the TGax Editor: replace figure 28-1, figure 28-2, figure 28-3 with the following figures (CID 12645, 13623, 13624, 13625).*



**Figure 28-1—PHY interaction on transmit for various PPDU formats**



**Figure 28-2—PHY interaction on receive for various PPDU formats**



**Figure 28-3—PHY-CONFIG and CCA interaction with various PPDU formats**

*To the TGax Editor: modify P.L. 354.60 as following (CID 14046).*

When a PHY-TXSTART.request(TXVECTOR) primitive is received with the TXVECTOR parameter FORMAT equal to HT\_MF or HT\_GF, the behavior of the PHY is defined by Clause 19 (High Throughput (HT) PHY specification) with additional requirements defined in the following subclauses:

— 21.3.9.2 (Transmission of HT PPDUs with more than four transmit chains) when operating in the 5 GHz band
— 21.3.17.1 (Transmit spectrum mask) instead of 19.3.18.1 (Transmit spectrum mask) when operating in the 5 GHz band
— 28.3.20.3 (Transmit center frequency leakage) instead of 19.3.18.4 (Transmit center frequency tolerance)