IEEE P802.11
Wireless LANs

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| SA2 Clause 10 Comment Resolution |
| Date: YYYY-MM-DD |
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Abstract

This submission provides proposed resolutions for CIDs 25043, 25044, 25064, 25076, 25077, 25078, 25088, and 25118.

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| **CID** | **Page** | **Line** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 25043 | 282.52 | 52 | 10.13 | The comment requested by a non-member of this TGax SA Ballot (Young-hoon Kwon). Paranthesis has not been closed properly. | Modify the text "… defined in 6.5.6 (PLME-TXTIME.confirm) that is greater …" to "… defined in 6.5.6 (PLME-TXTIME.confirm)) that is greater …". | Accepted |
| 25044 | 292.65 | 65 | 10.23.2.11 | The comment requested by a non-member of this TGax SA Ballot (Young-hoon Kwon). In case of 6GHz band operation, TXOP termination is not needed for HE PPDU. | Modify the text in Table 10-18 from "HE" to "HE (not in 6GHz band operation)". | Accepted?Unchanged text |
| 25064 | 275.16 | 16 | 10.8 | "NOTE—An HT STA that does not support +HTC (HT or VHT variant) that receives a +HTC frame addressed to another STA still performs the CRC on the actual length of the MPDU and uses the Duration/ID field to update the NAV, as described in 10.3.2.4 (Setting and resetting the NAV)." needs to cover the HE variant too | Change to "… (HT, VHT or HE variant) …" | DiscussThe CID refers to unchanged text |
| 25076 | 288.46 | 46 | 10.23.2.7 | To meet QoS and fairness principles, frames from the primary AC shall always be transmitted first, except in an HE TB PPDU. | Change "In a non-HE MU PPDU, frames" to "In a PPDU that is not an HE TB PPDU, frames" | Accepted |
| 25077 | 288.48 | 48 | 10.23.2.7 | "Secondary AC traffic shall not be included in an HE MU PPDU if it would cause the TXOP limit of the primary AC to be exceeded." is duplication of the next sentence (and the rule has been further clarified in md/D4.0) | Delete the cited text | RejectedThe cited text provides additional information related to the inclusion of the Secondary AC traffic. |
| 25078 | 288.37 | 37 | 10.23.2.7 | It is not clear what "all frames from the primary AC have been transmitted and frames from the AC(s) defined in 26.6.3 for HE PPDUs" refers to. | Change to "all frames from the primary AC, and in the case of an HE PPDU all the frames from the other AC(s) defined in 26.6.3, have been transmitted" | AcceptedUnchanged text |
| 25088 | 276.60 | 60 | 10.8 | "The transmitting STA includes an A-Control subfield that contains a Control subfield with Control ID subfield equal to 15 and Control Information subfield equal to all 1s and whose content is ignored by the HE recipient STA." -- should be a "shall be" not a "is" to make it normative, but anyway the style of this entry does not match all the others | Change to "The transmitting STA includes an A-Control subfield that contains a Control subfield with Control ID subfield equal to 15 and Control Information subfield equal to all 1s. The recipient STA shall ignore this Control subfield." | Accepted |
| 25118 | 287.52 | 52 | 10.23.2.5 | "if all of the 20 MHz subchannels that are not punctured were idle during an interval of PIFS immediately preceding the start of the TXOP" -- the 20 MHz subchannel that corresponds to the primary 20 MHz channel has to be idle for more (the backoff period) | Change to "if all of the 20 MHz subchannels (other than the primary 20 MHz channel) that are not punctured were idle during an interval of PIFS immediately preceding the start of the TXOP". Same change in next three bullets | Accepted |

**CID 25034**

The CID refers to the text:

An HE STA shall not transmit an HE PPDU that has a duration (as determined by the PHY TXTIME.confirm primitive defined in 6.5.6 (PLME-TXTIME.confirm) that is greater than *aPPDUMaxTime* defined in Table 27-55 (HE PHY characteristics).

Proposed Resolution: Accepted

**CID 25044**

The CID refers to the table:

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| * Modulation classes eligible for TXOP termination
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| Modulation classes eligible for TXOP termination (see Table 10-9) |
| HE |

Proposed Resolution: Accepted?

**CID 25064**

The CID refers to the note:

NOTE—An HT STA that does not support +HTC (HT or VHT variant) that receives a +HTC frame addressed to another STA still performs the CRC on the actual length of the MPDU and uses the Duration/ID field to update the NAV, as described in 10.3.2.4 (Setting and resetting the NAV).

Proposed Resolution: Discuss

**CID 25076**

The CID refers to the text:

In a non-HE MU PPDU, Fframes from the primary AC shall be transmitted first. The inclusion of secondary AC traffic in an HE MU PPDU is described in 10.23.2.8(Multiple frame transmission in an EDCA TXOP). Secondary AC traffic shall not be included in an HE MU PPDU if it would cause the TXOP limit of the primary AC to be exceeded.

**CID 25077**

The CID refers to the text:

When an AP supports DL-MU-MIMO MU PPDUs, frames from a higher or lower priority AC may

be included in a VHT or S1G MU PPDU with the TXVECTOR parameter NUM\_USERS > 1 or an HE MU PPDU, when these frames do not increase the duration of the VHT or S1G beyond that required for the transmissions of the frames of the primary AC, targeting up to four STAs if it is transmitted in a VHT MU PPDU. In a non-HE MU PPDU, Fframes from the primary AC shall be transmitted first. The inclusion of secondary AC traffic in an HE MU PPDU is described in 10.23.2.8 (Multiple frame transmission in an EDCA TXOP). Secondary AC traffic shall not be included in an HE MU PPDU if it would cause the TXOP limit of the primary AC to be exceeded.

When sharing, the TXOP limit that applies is the TXOP limit of the primary AC.

Proposed Resolution: Rjected

The cited text provides additional information related to the inclusion of the Secondary AC traffic.

**CID 25078**

The CID referes to the text:

Frames from a higher priority AC may be included when at least one frame from the primary AC has been transmitted and all frames from the primary AC have been transmitted and frames from the AC(s) defined in 26.6.3 (Multi-TID A-MPDU and ack-enabled single-TID A-MPDU) for HE PPDUs.

Proposed Resolution: Accepted

**CID 20588**

The CID refers to the text:

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| BQR | The transmitting non-AP STA follows the bandwidth query report procedure, as described in 26.5.2 (UL MU operation) and the recipient AP has set the BQR Support subfield in the HE MAC Capabilities Information field in(#Ed) the HE Capabilities elements it transmits to 1.(#24161) |

Proposed Resolution: Accepted

**CID 25118**

The CID refers to the text

i) Transmit an 80 MHz HE MU PPDU where in the preamble the only punctured subchannel is the secondary 20 MHz channel, if all of the 20 MHz subchannels that are not punctured were idle during an interval of PIFS immediately preceding the start of the TXOP.

j) Transmit an 80 MHz HE MU PPDU where in the preamble the only punctured subchannel is one of the two 20 MHz subchannels in the secondary 40 MHz channel, if all of the 20 MHz subchannels that are not punctured were idle during an interval of PIFS immediately preceding the start of the TXOP.

k) Transmit a 160 MHz or 80+80 MHz HE MU PPDU where in the preamble the only punctured subchannels are the secondary 20 MHz channel and zero to two of the 20 MHz subchannels in the secondary 80 MHz channel, if all of the 20 MHz subchannels that are not punctured were idle during an interval of PIFS immediately preceding the start of the TXOP. If two of the 20 MHz subchannels in the secondary 80 MHz channel are punctured, these are either the lower two or the higher two. No more than two adjacent 20 MHz subchannels are punctured across the preamble, for a 160 MHz preamble.

l) Transmit a 160 MHz or 80+80 MHz HE MU PPDU where in the preamble the only punctured subchannels are zero, one or both of the 20 MHz subchannels in the secondary 40 MHz channel and zero to two of the 20 MHz subchannels in the secondary 80 MHz channel, if all of the 20 MHz subchannels that are not punctured were idle during an interval of PIFS immediately preceding the start of the TXOP. At least one 20 MHz subchannel is punctured. If two of the 20 MHz subchannels in the secondary 80 MHz channel are punctured, these are either the lower two or the higher two. No more than two adjacent 20 MHz subchannels are punctured across the preamble, for a 160 MHz preamble.

**References:**