IEEE P802.11
Wireless LANs

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| 11ax D6.0 comment resolution of CID 25076, 25077 |
| Date: 2020-03-28 |
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Abstract

This submission proposes resolutions for multiple comments related to TGax D6.0 with the following CIDs:

* 25076, 25077

Revisions:

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** | **PP** | **LL** | **Comment** | **Proposed Change** | Resolution |
| 25076 | 288 | 46 | 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" | RevisedDiscussion: The paragraph that the commenter cited is about frame selection from related AC in MU PPDU. The first bullet already covers the SU PPDU case. One observation is that the frames transmitted by the TXOP responder follows the other rules, i.e. in TB PPDU and in RD operation. This is missing in baseline and 11ax D7.0. In TB PPDU there is no primary AC associated with the frames being transmitted. In RD operation, the TXOP holder can tell the TXOP responder whether any AC can be transmitted.TGax editor please make the changes in 11-20/1571r0 under CID 25076 |
| 25077 | 288 | 48 | "Secondary AC traffic shall not be included in anHE 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 | Accepted |

**10.23.2.7 Sharing an EDCA TXOP**

***TGax editor:Change the first paragraph in 10.23.2.7 as follows(#25076):***

The AC associated with the EDCAF that gains an EDCA TXOP is referred to as the primary AC. Frames transmitted by the TXOP holder from ACs other than the primary AC shall not be included in the TXOP, with the following exceptions (TXOP sharing):

* In a PPDU other than MU PPDU, 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.
* 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, ~~F~~frames 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.(#24136, #Ed)

The TXOP responder follows the indication in AC Constraint subfield to decide the AC whose frames are transmitted as described in **10.29 (Reverse direction protocol)**. The TXOP responder follows the rules in **26.6.3 (Multi-TID A-MPDU and ack-enabled single-TID A-MPDU)** to decide the AC whose frames are transmitted.