IEEE P802.11
Wireless LANs

|  |
| --- |
| 11ax D6.0 comment resolution of CID 25076, 25077 |
| Date: 2020-03-28 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Liwen Chu | NXP |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Abstract

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

* 25076, 25077, 25078

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.***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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 change proposed by the commenter is not in line with the rules defined in subclause 26: In subclause 26.6, in HE SU, ER SU PPDU or HE MU PPDU from non-AP STA, the frames from primary AC are first transmitted, if no frames from primary AC exist, the frames form AC higher than primary AC can be transmitted. In HE MU PPDUfrom EHT AP, frames from any TIDs can be transmitted. In HE TB PPDU, frames from any TID can be transmitted. Another observation is that in 802.11baseline the frames transmitted by TXOP responder can from any TIDs in some cases, e.g. in RD operation when the TXOP holder indicates no restriction of the TIDs in RD transmission. TGax editor please make the changes in <this document> 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 | RevisedThe related text is changed when the subclause is rewriten per 11md D5.0. No further change is needed. |
| 25078 | 288 | 37 | It is not clear what "all frames from the primary AC have been transmitted and frames from theAC(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" | Revised Discussion: the proposed text seems not right: after all frames from the other ACs are transmitted, frames from higher priority AC may be included. 26.6.3 allows frames from any AC can be aggregated in DL HE MU PPDU. One bullet is added to reflect this.TGax editor please make the changes in <this document> under CID 25078  |

**10.23.2.7 Sharing an EDCA TXOP**

***TGax editor:Undo the changes in the first paragraph of 10.23.2.7, then change the first paragraph in 10.23.2.7 as follows(#25076, 25078):***

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

— For multi-TID A-MPDU in HE MU PPDUs from AP, frames from any AC may be included as defined in 26.6.3 (Multi-TID A-MPDU and ack-enabled single-TID A-MPDU). Otherwise

— 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.

(#4451)NOTE 1—The frames from a higher priority AC might be included in successive PPDUs in the TXOP and/or in one or more MU PPDUs.

— (#4451)When a VHT AP supports DL-MU-MIMO, frames from a lower priority AC may be included in an VHT MU PPDU with the TXVECTOR parameter(#2639) NUM\_USERS > 1 when these frames do not increase the duration of the VHT MU PPDU beyond that required for the transmissions of the frames of the primary AC(#2426) and any frames from a high priority AC. For a given user, any frames from the primary AC shall be transmitted first and then any frames from a higher priority AC immediately next.(#24136, #Ed)

—When an HE AP transmits an HE MU PPDU, frames from higher or lower priority AC may be included in the HE MU PPDU when these frames do not increase the duration of the HE MU PPDU beyond that required for the transmissions of the frames of the primary AC and any frames from a high priority AC. For a given user, any frames from the primary AC shall be transmitted first and then any frames from a higher priority AC immediately next(#24136, #Ed)