IEEE P802.11
Wireless LANs

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| LB225 11ax D1.0 Comment Resolution 10.7 Remaining CIDs |
| Date: 2017-08-25 |
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Abstract

This submission proposes resolutions for multiple comments related to TGax D1.0 with the following CIDs :

* 4794, 6030, 6772, 8163.

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** | **PP** | **LL** | **Comment** | **Proposed Change** | **Resolution** |
| 4794 | 194 | 35 | The UL MU PPDU case carrying the MT A-MPDU is missing. Add UL MU PPDU to the list | As in comment.  |  **Revised****Generally agree with the commenter. However a HE MU PPDU from a no-AP STA to another non-AP STA is DL HE MU PPDU.****Tgax editor to make changes in 11-17/1476r1 under CID 4794** |
| 6030 | 194 | 35 | It would be beneficial to carry multi-TID A-MPDU in all SU PPDU types between HE STAs. Non-HE SU PPDUs have  shorter preamble duration than HE SU PPDUs which may improve throughput. | Please allow A-MPDU Multi-TID aggregation to be transmitted in all SU PPDU types between HE STAs. | **Rejected****Discussion: the multi-TID A-MPDU in VHT PPDU may complicate the implementation. The improvement with the shorter VHT PHY header can’t justy the introduction of multi-TID A-MPDU in PPDU other than HE PPDU.**  |
| 6772 | 194 | 35 | Use of undefined term: HE ER SU PPDU. | Provide a definition. | **Revised****HE ER SU PPDU is already defined in 11ax D1.4. No further change is needed.**  |
| 8163 | 194 | 45 | Only AC of higher priority compared with primary AC is allowed to be aggregated in Multi-TID A-MPDU, however, when the queue of this kind of AC is empty, low priority AC can not help to further improve performance. | Add one rule to allow low priority AC to be aggregated in Multi-TID A-MPDU. Suggestion: when the  the queue of AC of higher priority with repsect to primary AC is empty,  AC of lower priority with repsect to primary AC can be aggregated in one Multi-TID A-MPDU. | **Rejected****Discussion: the reason to allow higher priority AC to be aggregsted in multi-TID A-MPDU is to guarantee the QoS.** |

**27.10.4 A-MPDU with multiple TIDs**

***TGax editor: Change the 13th paragraph in 27.10.4 as follows:***

A multi-TID A-MPDU shall not be transmitted in an HE SU PPDU, HE ER SU PPDU or HE MU PPDU,(17/688r4) except when the TXOP limit is not zero for the AC that is used to gain access to the medium. This AC is defined as the primary AC. When TXOP limit is not zero then the STA may aggregate QoS Data frames from one or more TIDs in the A-MPDU under the following conditions:

— The A-MPDU shall be carried in an HE (ER) SU PPDU transmitted by STA within the obtained TXOP or an HE MU PPDU transmitted by a non-AP STA within the obtained TXOP (4794)

— The A-MPDU shall contain one or more MPDUs with any of the TIDs that correspond to the primary AC

— When (#5696)no more MPDUs can be aggregated in the A-MPDU from any of the TIDs that correspond to the primary AC then the A-MPDU may additionally contain one or more MPDUs with TIDs that do not correspond to the primary AC if the TIDs correspond to any AC that has a higher priority with respect to the primary AC and the addition of these MPDUs does not cause the STA to exceed the current TXOP duration