IEEE P802.11  
Wireless LANs

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| Spec Text on MU acknowledgement procedure for an UL MU transmission | | | | |
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Abstract

This submission contains spec text to be incorporated in P802.11ax D0.4 related to MU acknowledgement procedure for an UL MU transmission as discussed per 11/16-1199r2.

***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 or insert 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.***

**10.3.2.11.3 MU acknowledgement procedure for an UL MU transmission**

When receiving frames(#409) from more than one STA that are part of an UL MU transmission (see(#1406) 9.42.2) and that require an immediate acknowledgement, an AP may send either multiple BlockAck frames (or Ack(#1408) frames) in an HE MU PPDU, or a Multi-STA BlockAck frame(#1407)(#1424) (see 25.4 (Block acknowledgement)). After a successful reception of an UL frame requiring acknowledgment, trans-mission of the DL acknowledgement shall commence after a SIFS, without regard to the busy/idle state of the medium.(#2608)

**TGax Editor: *Add the following paragraph at the end of first paragraph of subsection 10.3.2.11.3 MU acknowledgement procedure for an UL MU transmission of P802.11ax D0.4***

Specifically, when an AP transmits an immediate acknowledgement frame in HE MU PPDU in response to (A-)MPDU sent in HE trigger-based PPDU, the AP should send it within the 20 MHz channel(s) where the pre-HE modulated fields of the HE trigger-based PPDU sent by the STA are located. The immediate acknowledgement frame is either Block Ack frame (or Ack frame) or Multi-STA Block Ack frame.