IEEE P802.11
Wireless LANs

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| Resolve TBD in section 25.4.4.5 |
| Date: 2016-11-02 |
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Abstract

This submission proposes text changes to resolve TBD in section 25.4.4.5:

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.***

**Discussion:** Refer to submission 802.11-16/1163r0. There is a passed motion in September meeting: *A HE AP should only transmit group addressed M-BA in the DL MU PPDU to HE non AP STA n on the (broadcast RU) RU (26/52/106/242/484/996) that includes the RU used for receiving the immediate preceding HE Trigger Based PPDU from STA n. There shall be no more than one M-BA that is addressed to multiple recipients carried in a broadcast RU of the DL MU PPDU.* This spec text defines the mechanism that AP should use to transmit group addressed M-BA in response to trigger based PPDU.

**25.4.1 Overview**

**TGax Editor: *change section 25.4.1 as follows:***

~~A HE AP should only transmit a group addressed Multi-STA BlockAck frame in a DL MU PPDU to a non- AP HE STA~~ *~~n~~* ~~on the (broadcast RU) RU (26/52/106/242/484/996) that includes the RU used for receiving the immediate preceding HE trigger-based PPDU from STA~~ *~~n~~*~~. There shall be no more than one Multi-STA BlockAck frame that is addressed to multiple recipients carried in a broadcast RU of the DL MU PPDU.(MU Motion #59)~~

**25.4.4.5 HE trigger-based PPDU soliciting a DL MU PPDU response**

**TGax Editor: *change section 25.4.4.5 as follows:***

A non-AP STA that sends a HE trigger-based PPDU as a response to a Basic variant Trigger frame that intends to solicit an immediate response shall set the Ack Policy to Normal Ack/Implicit BAR (see 10.3.2.11.4 (MU acknowledgement procedure for an UL MU transmission) for an example of this sequence). If the HE AP intends to send the response in a HE MU PPDU format, then the HE AP shall follow the following acknowledgment procedure:

If the HE trigger-based PPDU carries Single MPDU(11ah) from more than one STAs, or (multi- TID) A-MPDU from more than one STAs, or a combination of Single MPDU(11ah) from some STAs and (multi-TID) A-MPDU from other STAs, then the HE-AP shall do one of the following:

* The AP shall respond with Ack frame or an individually addressed Multi-STA BlockAck frame to each of the STAs from which a Single MPDU(11ah) that solicited an immediate response was received, and with a Compressed BlockAck frame or a Multi-STA BlockAck frame to each of the STAs from which an A-MPDU that solicited an immediate response was received, or a Multi-STA BlockAck frame to each of the STA from which a multi-TID A-MPDU that solicited an immediate response was received. The control response frames for each STA shall be sent in the allocated RU that is identified by the AID of each STA.
* The AP may respond with group addressed Multi-STA BlockAck frame(s) ~~using TBD mechanism~~ in an HE MU PPDU if the receivers of group-addressed Multi-STA BlockAck frame announce the support the reception of MU Multi-STA BlockAck frame. The Ack Type field shall be set according to the acknowledgement context.(#1218). A HE AP should only transmit a group addressed Multi-STA BlockAck frame in a DL MU PPDU to a non- AP HE STA *n* on the (broadcast RU) RU (26/52/106/242/484/996) that includes the RU used for receiving the immediate preceding HE trigger-based PPDU from STA *n*. There shall be no more than one Multi-STA BlockAck frame that is addressed to multiple recipients carried in a broadcast RU of the DL MU PPDU.(MU Motion #59)