### IEEE P802.11 Wireless LANs

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| 11ax D4.2 RA Setting for Response to Trigger frame | | | | |
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Abstract

This submission proposes resolutions for issues related to RA setting for response to Trigger frame

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Revised based on the discussion offline

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 D4.2 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGax D4.2 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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**Discussion:**

There is a conflict for the spec text in 26.5.2.3.5 (RA field for frames carried in an HE TB PPDU) and 26.7.3 (Rules for HE sounding protocol sequences).

In 26.5.2.3.5 (RA field for frames carried in an HE TB PPDU), the texts say that the RA field of the Management frame sent in response to a Trigger frame shall be set to the MAC address of the destination AP, where is the associated AP based on the note.

*NOTE 1—If dot11MultiBSSIDImplemented is true and the TA field of the soliciting Trigger frame contains the transmitted BSSID, the destination AP is the BSSID to which the non-AP STA intends to send the frame.*

In 26.7.3 (Rules for HE sounding protocol sequences), the text says that the RA of the HE compressed beamforming/CQI report sent in response shall have the RA field set to either the nontransmitted BSSID or the transmitted BSSID.

As a result, there is conflict for the two sentenxes in the spec. We propose two options to fix this issue.

**Propose:**

**Option 1:**

***TGax editor: Change 26.5.2.3.5 RA field for frames carried in an HE TB PPDU as follows: (Track change on)***

**26.5.2.3.5 RA field for frames carried in an HE TB PPDU**

The RA field of the frames sent in response to a MU-RTS Trigger frame is set as defined in 9.3.1.3 (CTS frame format). The RA field of the MPDUs sent in response of a GCR MU-BAR Trigger frame or MU-BAR Trigger frame is set as defined in 9.3.1.8 (BlockAck frame format). The RA field of the QoS Null frames, QoS Data frames and Management frames, except HE compressed Beamforming or CQI report (see 26.7.3 (Rules for HE sounding protocol sequences)), sent in response to a Trigger frame shall be set to the MAC address of the destination AP (see 9.3.2.1 (Format of Data frames), and 9.3.3.2 (Format of Management frames). The RA field of a QoS Null frame or Action No Ack frame sent in response to a frame carrying TRS Control subfield shall be the MAC address of the destination AP (see 9.3.2.1 (Format of Data frames) and 9.3.3.2 (Format of Management frames)).

NOTE 1—If dot11MultiBSSIDImplemented is true and the TA field of the soliciting Trigger frame contains the transmitted BSSID, the destination AP is the BSSID to which the non-AP STA intends to send the frame.

(…existing texts…)

**Option 2:**

***TGax editor: Change 26.7.3 (Rules for HE sounding protocol sequences) as follows: (Track change on)***

(…existing texts…)

If the HE NDP Announcement frame has the TA field set to the transmitted BSSID, and the HE beamformee is a non-AP STA associated to a nontransmitted BSSID that supports receiving Control frames with TA field set to the transmitted BSSID, then the HE compressed beamforming/CQI report sent in response shall have the RA field as defined in 26.5.2.3.5 (RA field for frames carried in an HE TB PPDU).

(…existing texts…)