IEEE P802.11  
Wireless LANs

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| Comment resolution for several miscellaneous comments part 4 | | | | |
| Date: 2018-05-01 | | | | |
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Abstract

This submission proposes resolutions for comments related to TGax D2.0 with the following CIDs:

* 12798, 12938, 13105, 13115 (4 CIDs)

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 editor will execute the instructions rather than copy them to the TGax Draft.***

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| **CID** | **Commenter** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 12798 | Mark RISON |  | Sending an UL MU PPDU has no value | Delete all references to this (e.g. the NOTE at 315.5 and the ref in 27.10.2) | Rejected –  UL MU PPDU contains SIG-B field which contains the transmit identifier, or the receive identifier (depending if intended to an AP or a non-AP STA). This information contained in the PHY preamble is beneficial for the receiver to determine the transmitter or if it is the receiver of the PPDU even if all the PSDU is received incorrectly and can be used for fast recovery procedures at the MAC layer. |
| 12938 | Mark RISON |  | There should be a mechanism to allow an HE BFer to poll for missed segments. It is not clear whether a BRP frame can be used in the SU case, and the BRP variant Trigger frame cannot be used in the MU case as it is preceded by an NDP that will take precedence | Allow Beamforming Report Poll frames to be used to solicit SU retransmission of missed segments (cf. 10.34.5.3). Define a new Trigger frame variant to solicit MU retransmission of missed segments (without a preceding NDP+NDPA). Delete the Feedback Segment Retransmission Bitmap from the Trigger Dependent User Info field of the Beamforming Report Poll variant Trigger frame (leaving it blank); this is the field needed for the new Trigger frame variant to solicit retransmission of missing segments | Rejected –  Multiple BRP Trigger frames can be sent after the transmission of the NDPA, NDP sequence. Each of these BRP Trigger frames can poll one or more HE Beamformees to send the CBF (which can be in the form of segmented feedback). For SU sounding segmentation is not necessary since the smallest size supported for CBF is 11 454 bytes which reduces significantly the likelihood of segmentation. In this case if the SU beamformeer can resound the SU beamfomreee in case one of the SU segments is missing. |
| 13105 | Peter Loc | 275.15 | The broadcast TWT operation needs to take into account the presence of STAs that are members of a Broadcast TWT but do not support UORA. These STAs may not be able to decode the trigger frame in order to respond to the AP. | Add the following paragraph after line 36: Within the trigger-enabled TWT SP, if there are STAs that are members of this broadcast TWT but do not support UORA, the AP needs to poll these STAs one by one for their status prior to transmitting SU PPDUs to the STAs that are awake. | Rejected –  The Trigger frames sent by the TWT scheduling AP can contain either random RUs or individually addressed RUs. This is already described in the normative behavior for the trigger-enabled TWT SP:  “The TWT scheduling AP shall schedule for transmission of a Trigger frame addressed to one or more TWT scheduled STAs during a trigger-enabled TWT SP. A TWT scheduling AP should not include the 12 LSBs of the STA's AID in a User Info field of a Trigger frame transmitted within a broadcast TWT SP unless the STA is in the awake state, has established membership in the broadcast TWT with that Broadcast TWT ID, or has indicated to receive the Beacon, as defined in 27.7.3.4 (Negotiation of wake TBTT and wake interval), preceding the beacon interval that contains this TWT SP.” |
| 13115 | Peter Loc | 209.37 | To avoid retries from the TWT initiating STA, the TWT responding STA, after receiving a request from the initiating STA, needs to transmit a response frame to specify whether it accepts, dictates, or suggests an Alternate or Rejects the TWT setup command instead of ignoring it. Lines 37-40 of Table 10-19a (TWT setup exchange command interpretable) implicitly allows the responding STA not to transmit any response. The transmitting STA may try to resend the command again and again and the responding STA may keep ignoring it! | Remove the row from lines 37 to 40. | Rejected –  The TWT responding STA is required to transmit an Ack frame since the TWT Setup frames are Action frames that require an immediate acknowledgment. The reception of the Ack frame is an indication that the soliciting TWT setup frame was successfully received and as such no retries should be performed.  No further changes are necessary. |