IEEE P802.11
Wireless LANs

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| 11ax D2.0 Comment Resolution 27.5.3.5 |
| Date: 2017-11-15 |
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Abstract

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

* 11327, 13725, 14261, 14263, 14264.

Revisions:

* .

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** |
| 11327 | 243 | 29 | What about the other Trigger frames? This rule should apply to all Triggers except for the ones stated below. | As in comment. | **Revised.****Discussion: The page number of the comment should be 254. Among the various Trigger frames, RS Required subfield is always to 1 in a Beamforing Report Poll Trigger. However NDP Feedback Report Poll Trigger has different rule.****TGax editor to make changes in 11-17/1837r1 under 12327**  |
| ~~12665~~ | ~~253~~ | ~~27~~ | ~~There are 5 references to "HE Control field" but there is no such field~~ | ~~Change each instance of the cited text to "HE-variant HT Control field"~~ |  |
| 13725 | 254 | 32 | The CS required subfield is set to 0 when AP solicits a short response frame in HE TB PPDU from a non-AP STA. In this case, we should not allow the non-AP STA to aggregate other MPDUs soliciting an additional immediate response. Therefore, if the CS required subfield is set to 0 in a Trigger frame, the TID aggregation limit subfield for the STA must be set to 0. | Add the following:If the CS required is set to 0, the TID Aggregation Limit subfield in the User Info field of the solicited STA shall be set to 0. | **Revised****TGax editor to make change in 11-17/1837r1 under 13725** |
| 14261 | 253 | 41 | Intended ED-based CCA in this subclause may not be defined in 28.3.19.6.2 but 28.3.19.6.4 as same as pp254L15 | Refer 28.3.19.6.4. | **Revised****TGax editor to make change in 11-17/1837r1 under 14261** |
| ~~14262~~ | ~~253~~ | ~~55~~ | ~~The NAV set by an intra-BSS frame is intra-NAV so just simplify by saying "The intra-NAV was set"~~ | ~~As commented.~~ | **~~Revised~~****~~TGax editor to make change in 11-17/xxxxr0 under 14262~~** |
| 14263 | 254 | 9 | "A STA" should be "An HE STA". | As commented. | **Rejected****Discussion: in clause 27, STA means HE STA.** |
| 14264 | 254 | 15 | It says "Energy Detect defined in 28.3.19.6.5", but the terminology "Energy Detect" is not used in 28.3.19.6.5. | Use correct terminology. | **Revised****TGax editor to make change in 11-17/1837r1 under 14264** |

**27.5.3.5 UL MU CS mechanism**

***TGax ediftor changes 28.3.19.6.2 to 28.3.19.6.4 in subclause 27.5.3.5 (14261, 14264)***

***Option 1: TGax ediftor changes last three paragraphs in subclause 27.5.3.5 as follows (11327):***

The CS Required subfield in the MU-RTS Trigger frame, BRP Trigger and BQRP Trigger frame shall be set to 1.

If an AP solicits multiple STAs in one PPDU through NDP Feedback Report Poll Trigger frame(s) only in one TXOP, the AP may set the CS Required subfield to 0 in the NDP Feedback Report Poll Trigger. Otherwise the AP shall set the CS Required subfield to 0 in the NDP Feedback Report Poll Trigger.

~~The CS Required subfield in NDP Feedback Report Poll Trigger shall follow the description in~~ **~~9.3.1.23.8 (NDP Feedback Report Poll variant)~~**~~.~~

***Option 2: TGax ediftor changes last three paragraphs in subclause 27.5.3.5 as follows (11327):***

The CS Required subfield in the MU-RTS Trigger frame, BRP Trigger, NDP Feedback Report Poll Trigger and BQRP Trigger frame shall be set to 1.

For Basic Trigger, BSRP Trigger, MU-BAR and GCR MU-BAR, the AP shall set the CS Required subfield to 1 except when one of the following conditions is met:

— The RA of the Trigger frame is an individually addressed STA's MAC address and a QoS Data frame with Ack Policy set to HE TB PPDU (HTP) Ack is aggregated with the Trigger frame in an AMPDU, and the Length subfield in the Common Info field of the Trigger frame is less than or equal to 418.

— The Trigger Type of the Trigger frame is either MU-BAR or GCR MU-BAR, and the Length subfield in the Common Info field of the Trigger frame is less than or equal to 418.

NOTE—The threshold value 418 of the Length subfield in the Common Info field of the Trigger frame is obtained from the maximum HE TB PPDU duration, 584 us, that can be solicited by the UMRS Control field based on Equation (28- 16). This duration is the sum of 20 us for the L-STF, L-LTF and L-SIG fields, 20 us for the RL-SIG, HE-SIG-A and HE-STF fields, 16 us for the 4x HE-LTF field with 3.2 us GI, 512 us for 32 OFDM symbols in the Data field with 3.2 us GI, and 16 us PE field (see 9.2.4.6.4.2 (UMRS Control), 27.5.3.3 (STA behavior for UL MU operation), and 28.3.4 (HE PPDU formats)).

**27.5.3.2.3 Allowed settings of the Trigger frame fields and UMRS Control field**

***TGax ediftor: add the following paragraph at the end of subclause 27.5.3.2.3 (13725):***

An AP that transmits a Basic Trigger frame with the CS Required field set to 0 should set the TID Aggregation Limit subfield to 0 in the User Info fields of the Basic Trigger frame,