IEEE P802.11
Wireless LANs

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| 11ax D2.0 Comment Resolution 27.5.3.5 |
| Date: 2018-01-15 |
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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, 12294.

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. The CS Required in all Trigger except MU-RTS should be harmonized: if the solicited HE TB PPDU is less than** the length of HE TB NDP feedback (72us), the CS Required in the Trigger can be set to 0 or 1**.****TGax editor to make changes in 11-17/1837r3 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 11-17/1837r3 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 11-17/1837r3 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 11-17/1837r3 under 14264** |
| 12294 | 97 | 11 | CS Required bit in the NDP Feedback Report Poll Trigger frame shall be set to 1. If it is set to 0, a STA with non-zero NAV value responding to an NDP Feedback Report Poll Trigger frame may be scheduled by a subsequent BSRP or Basic Trigger frame, which causes unnecessary resource waste so that a STA couldn't respond to the Trigger frame due to the busy state. | Replace the textThe CS Required subfield of the NDP Feedback Report Poll Trigger frame may be set to 0.withThe CS Required subfield of the NDP Feedback Report Poll Trigger frame shall be set to 1. | **Revised****See the discussion in CID 11327****TGax editor to make change in 11-17/1837r3 under 12294** |

**9.3.1.23.8 NDP Feedback Report Poll variant**

***TGax ediftor changes the CS Required paragraph in subclause 9.3.1.23.8 as follows (12294):***

The CS Required subfield of the NDP Feedback Report Poll Trigger frame can be set to 0 or 1.

**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)***

***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 shall be set to 1.

An AP shall transmits BRP Trigger frame with the CS Required field equal to 1 except if the duration of the solicited HE TB is no more than 128us.

For Basic Trigger, BSRP Trigger, MU-BAR, BQRP 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 the QoS Data frames with Ack Policy set to HE TB PPDU (HTP) Ack and/or a Management frame that solicits an acknowledgement are 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.

— The duration of the solicited HE TB PPDU is no more than 128us.

NOTE 1—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)).

Note 2—The duration of 128us is acquired from the HE TB PPDU with 4 HE LTFs and PE.

An AP may transmit a NDP Feedback Report Poll Trigger frame with the CS Required subfield equal to 0 or 1.

**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,