### IEEE P802.11Wireless LANs

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| 11ax D6.0 CR for CID 24270 |
| Date: 2020-05-20 |
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Abstract

This submission proposes resolutions for the following CIDs:

24270

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Revision based the discussion in the teleconference call.

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 D6.0 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGax D6.0 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** | **Commenter** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 24270 | Fischer, Matthew | 431.26 | 26.11.5 | P431L26, P431L35, is it possible that an HE TB PPDU contains both a PS POLL and another MPDU that contains a DUR field? If so, then the two cited paragraphs provide conflicting information as to what value should be placed in the TXVECTOR paramater TXOP\_DURATION. | Resolve the contradiction by modifying the cited text. | Revised – A PS-Poll frame can not be aggregated with other frame with duration field. Specficially, 9.7.3 A-MPDU contents does not have a context table that allows PS-Poll except S-MPDU context. We simply add a reference in 26.8.2 Individual TWT agreements and 26.8.3.3 Rules for TWT scheduled STA for 9.7.3 A-MPDU contents to clarify the point.TGax editor to make the changes shown in 11-20/0795r1 under all headings that include CID 24270. |

**Discussion:** *None.*

**Propose:**

***TGax editor: Change* 26.8.2 Individual TWT agreements *as follows (track change on):***

**26.8.2 Individual TWT agreements**

(..existing texts…)

A TWT requesting STA transmits an HE TB PPDU as a response to a Trigger frame that identifies it and is
sent during a trigger-enabled TWT SP (see 26.5.2 (UL MU operation)). A TWT requesting STA that is in PS
mode and is awake shall include a PS-Poll frame or a U-APSD trigger frame in the HE TB PPDU if the
TWT is an announced TWT unless the STA has already transmitted a PS-Poll or U-APSD trigger frame or transmitted any other indication that the STA is in the awake state within that TWT SP or has, previous to
the start of the TWT SP but after the end of the most recent TWT SP, indicated to the AP that it is currently
in the awake state. The STA may include other frames in the HE TB PPDU when other rules do not prohibit
their inclusion, see 26.5.2 (UL MU operation) and 9.7.3 (A-MPDU contents).(#24270)

(..existing texts…)

***TGax editor: Change 26.8.3.3 Rules for TWT scheduled STA******as follows (track change on):***

**26.8.3.3 Rules for TWT scheduled STA**

(..existing texts…)

A TWT scheduled STA transmits an HE TB PPDU as a response to a Trigger frame that is addressed to it and is sent during a trigger-enabled TWT SP (see 26.5.2 (UL MU operation)). A TWT scheduled STA that is in PS mode and is awake during an announced TWT SP shall include a PS-Poll frame or a U-APSD trigger frame in the HE TB PPDU if it intends to solicit buffered BUs from the TWT scheduling AP (see 11.2.3.7 (Receive operation for STAs in PS mode)) unless the STA has already transmitted within that TWT SP a PS-Poll or U-APSD trigger frame or has transmitted any other indication that the STA is in the awake state within that TWT SP, or has, previous to the start of the TWT SP but after the end of the most recent TWT SP, indicated to the AP that it is currently in the awake state. A TWT scheduled STA that is in PS mode shall transition to the awake state at the start of an unannounced TWT SP of which it is a member. The STA may include other frames in the HE TB PPDU when other rules do not prohibit their inclusion (see 26.5.2 (UL MU operation) and 9.7.3 (A-MPDU contents)).(#24270)

(..existing texts…)

A TWT scheduled STA should not send frames that do not satisfy the Broadcast TWT Recommendation
subfield recommendations in Table 9-297a (Broadcast TWT Recommendation field for a broadcast TWT
element) during the corresponding TWT SP(s). Frames sent as a response to a Trigger frame are subject to
further restrictions as defined in 26.5.2 (UL MU operation) and 9.7.3 (A-MPDU contents).(#24270)