IEEE P802.11
Wireless LANs

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| Comment resolution for 27.7 |
| Date: 2017-05-01 |
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Abstract

This submission proposes resolutions for multiple comments related to TGax D1.0 with the following CIDs (2 CIDs):

* 5957, 8223

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 TGax 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** |
| 5957 | Jarkko Kneckt | 179.00 | The BC TWT is not optimized for stand-by power save where the non-AP STA maintains association with the AP in minimum overhead and does not have DL or UL data to transmit in every TWT SP. | Please define a TWT Flow Identifier for broadcast TWT that is optimized to maintain association with minimum power consumption in non-AP STA. Alternatively optimize TWT Flow Identifiers 1 and 2 for stand-by power save. | Rejected –The comment fails to identify a technical issue. Broadcast TWT indicates the broadcast TWTs at which the STA is expected to wake up, while TIM element indicates if there is expected DL BUs for the STA, while the STA is aware of the amount of UL Data it has to transmit to the AP. As such the spec already contains the necessary ingredients for an optimized stand-by power save mechanism.  |
| 8223 | Osama Aboulmagd | 181.44 | Is TWT really required? If I remember correctly the issue that was discussed related to scheduled trigger frames for which the AP can easily sets its schedule and announce to STAs. Why is the need to include a heavy protocol to achieve such a simple function? | delete TWT operation and its related items from the draft | Rejected –The comment fails to identify a technical issue. TWT is a protocol that helps STAs that use it to reduce their power consumption. Please refer to:<https://mentor.ieee.org/802.11/dcn/12/11-12-0823-00-00ah-targetwaketime.pptx>, where there is extensive discussions on the power saving benefits of the protocol. TWT was further enhanced to address the 11ax case where STAs are triggered for transmissions by the AP which is a power demanding functionality since the STA has to wait to be triggered by the AP. Due to its properties the protocol also provides scheduling benefits as the AP can allocate the resources to STAs that have similar traffic patterns. Please refer to: <https://mentor.ieee.org/802.11/dcn/15/11-15-0880-01-00ax-scheduled-trigger-frames.pptx>, which specifically discusses the scheduling properties of the protocol.  |

**Discussion: *None.***