IEEE P802.11
Wireless LANs

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| Comment resolutions for 10.43 |
| Date: 2018-03-01 |
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Abstract

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

* 11027, 11061, 11375, 11376, 11988, 12452, 12453, 12098 (8 CIDs)

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Added some suggestions received during the presentation (in green).

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** |
| 11027 | Abhishek Patil | 208.62 | A couple of sentences are missing at the beginning of the 2nd paragraph as compared to baseline spec. If the sentences are to be deleted, please indicate it with a strikethrough - although in this case, the sentences define what a TWT requesting/responding STA is and seem to be relevant and should not be removed | Add the missing sentences. | Revised –Agree in principle with the comment. Missing sentences are added. Also added a note to the editor that there is no need for underline since they are part of baseline.TGax editor to make the changes shown in 11-18/0337r1 under all headings that include CID 11027. |
| 11061 | Adrian Stephens | 209.17 | "Reject TWT transmitted by a responding STAas part of a negotiation for a new TWTagreement is used to indicate that the negotiation has ended in failure to create a new TWT agreement." -- this is moderately garden-pathy sentence, as "Reject" is not performing the role of a verb. | Put the enumeration value in quotes. You might do this consistently for all such names throughout this para. Or reword, with the benefit of removing the passive voice in the verb "is used", thus:"A responding STA may transmit a TWT Setup frame containing a TWT Setup Command field set to 'Reject TWT' as part of a negotiation for a new TWT agreement to indicate that the negotiation has ended in failure to create a new TWT agreement." | Revised –Agree in principle with the comment. Added quotes as suggested and moved the Reject TWT description at the end of the enumeration for consistency.TGax editor to make the changes shown in 11-18/0337r1 under all headings that include CID 11061. |
| 11375 | Bibhu Mohanty | 209.62 | Section 10.43.1 of 11ax D2.0 indicates changing the 2nd paragraph in the baseline spec. However, upon reviewing the corresponding paragraph in 802.11ah-2016 (10.43.1) and REVmd D0.4 (10.45.1), it seems 11ax draft is missing a couple of sentence at the beginning of this paragraph. Please double check and include the missing sentences. If the sentences are to be deleted (which I don't believe so), please indicate it by marking them as strikethrough | Add the missing sentences from baseline spec as pointed by the comment | Revised –Agree in principle with the comment. Missing sentences are added. Also added a note to the editor that there is no need for underline since they are part of baseline.TGax editor to make the changes shown in 11-18/0337r1 under all headings that include CID 11375. |
| 11376 | Bibhu Mohanty | 201.33 | Section 10.43.1 applies to individual TWT. Move this sentence to the beginning of this section and mention that this section describes individual TWT. Also provide reference to section 27.7.2 which provides additonal rules for individual TWT. | As in comment | Revised –Seems the page number is wrong. It should be P210 for the commnet to make sense. Agree in principle with the comment. Moved the sentences at the top of the subclause.TGax editor to make the changes shown in 11-18/0337r1 under all headings that include CID 11376. |
| 11988 | James Yee | 209.22 | The Dictate TWT description of "but one is likely to be created... with those parameters" should be "and it will not accept any other TWT agreement other than with those parameters". | As suggested. | Revised –Agree in principle with the comment. Proposed resolution specifies that the setup is likely to be accepted “only” if the indicated parameters are used in the new request.TGax editor to make the changes shown in 11-18/0337r1 under all headings that include CID 11988. |
| 12452 | Liwen Chu | 209.20 | these two commands (Alternate and Dictate) are not clear enough. Possible clrification is that Alternate means that other parameters can be accepted by the AP and Dictate means only the parameters in the command will be accepted by the AP. | As in comment | Revised –Agree in principle with the comment. Proposed resolution specifies that the setup is likely to be accepted “only” if the indicated parameters are used in the new request for the dictate TWT and that alternate TWTs can be accepted as well when it is alternate TWT.TGax editor to make the changes shown in 11-18/0337r1 under all headings that include CID 12452. |
| 12453 | Liwen Chu | 209.50 | why the Dictate as the response of Demand and the Dictate as the response of Suggest are different. Make them same. | As in comment | Revised –Agree in principle with the comment. Proposed resolution accounts for the suggested changes.TGax editor to make the changes shown in 11-18/0337r1 under all headings that include CID 12453. |
| 12098 | John Coffey | 191.19 | Anthropomorphism: "the TWT requesting STA expects". The STA is an object and does not "expect" anything. | Reword to remove the anthoropomorphism, here and in the half a dozen or so other places that this appears in the draft. In some places the "expect" is part of baseline text: reword there also. | Rejected –The comment fails to identify a technical issue. The term “expects” is consistently used in the baseline (27 occurrences in REVmd D1.0) and is used to refer to the act of the STA expecting something to happen.No changes are needed to the draft due to this comment. |

**Discussion: *None.***

* Target wake time (TWT)
* TWT overview

**TGax Editor: *Change the paragraph below of this subclause as follows (#CID 11027, 11375, 11376):***

**Note to TGax Editor: *No underline is required for the two sentences since they are already present in REVmd D1.0.***Change the 2nd paragraph as follows:

STAs that request an individual TWT agreement are referred to as TWT requesting STAs and the STAs that respond to their requests are referred to as TWT responding STAs. A TWT requesting STA is assigned specific times to wake and exchange frames with the TWT responding STA.*(#11027, 11375)* A TWT requesting STA communicates wake scheduling information to its TWT responding STA and the TWT responding STA devises a schedule and delivers TWT values to the TWT requesting STA when a TWT agreement has been established between them. When explicit TWT is employed, a TWT requesting STA wakes and performs a frame exchange and receives the next TWT information in a response from the TWT responding STA as described in 10.43.2.2 (Explicit TWT operation). When implicit TWT is used, the TWT requesting STA calculates the Next TWT by adding a fixed value to the current TWT value as described in 10.43.3 (Implicit TWT operation). Type OtherOthrOOOOOO, for individual TWT operation*(#11376)*

**TGax Editor: *Change the paragraph below of this subclause as follows (#CID 11061, 11988, 12452):***

Insert new paragraphs and table as follows after the 9th paragraph:

The result of an exchange of TWT Setup frames between a TWT requesting STA and a TWT responding STA is defined in Table 10-19a. In general, the meaning of “Request TWT” is that the transmitting STA does not provide a set of TWT parameters for a TWT agreement, leaving the choice of parameters to the responding STA, “Suggest TWT” indicates that the transmitting STA offers a set of preferred TWT parameters for a TWT agreement but might accept alternative TWT parameters that the responding STA indicates and “Demand TWT” indicates that(#7068) the transmitting STA will currently accept only the indicated TWT parameters for a TWT agreement. When transmitted by a responding STA, “Accept TWT”(#6547) indicates that the responding STA has initiated a TWT agreement with the given parameters, “Alternate TWT”(#6548) indicates a counter-offer of TWT parameters (although alternative TWT parameters might be accepted as well) without the creation of a TWT agreement, “Dictate TWT”(#6549) indicates that no TWT agreement is created, but one is likely to be accepted only if the requesting STA transmits a new TWT setup request with the indicated TWT parameters (i.e., no other TWT parameters will be accepted), and “Reject TWT” transmitted by a responding STA as part of a negotiation for a new TWT agreement is used to indicate that the negotiation has ended in failure to create a new TWT agreement*(#11061, 11988, 12452)*.

**TGax Editor: *Change the table below of this subclause as follows (#CID 12453):***

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| * TWT setup exchange command interpretation
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| Initiating frame: TWT Setup Command field value within a TWT Setup frame transmitted from a first STA to a second STA | Response frame: TWT Setup Command field value within a TWT Setup frame transmitted from the second STA to the first STA | TWT condition after the completion of the exchange |
| Request TWT or Suggest TWT or Demand TWT | No frame transmitted | No new individual TWT agreement exists with the TWT flow identifier corresponding to the TWT flow identifier in the initiating frame. No new individual TWT agreement exists. |
| Demand TWT | Accept TWT | An individual TWT agreement exists that uses the TWT parameters identified in the initiating frame. The TWT parameters in the response frame match the TWT parameters of the initiating frame. |
| Suggest TWT or Request TWT | Accept TWT | An individual TWT agreement exists and that uses the TWT parameters identified in the response frame. |
| Demand TWT or Suggest TWT | Alternate TWT  *(#12453)* | No individual TWT agreement exists with the associated TWT flow identifier. The responder is offering an alternative set of parameters vs. those indicated in the initiating frame. The requesting STA can send a new request with any set of TWT parameters and the responder might create an individual TWT agreement using those parameters. |
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|  *(#12453)*Demand TWT or Suggest TWT*(#12453)* | Dictate TWT | No individual TWT agreement exists with the associated TWT flow identifier. The responder offers an alternative set of parameters vs. those indicated in the TWT request. By selecting “Dictate TWT”, the responder indicates that it is not willing to accept any other TWT parameters for the requesting STA at this time. The requesting STA can send a new request, but will only receive an Accept TWT if it uses the dictated TWT parameters. |
| Request TWT or Suggest TWT or Demand TWT | Reject TWT | No individual TWT agreement exists with the associated TWT flow identifier. The responding STA will not create any new individual TWT agreement with the requester at this time. |
| NOTE—Request frame settings not listed in the table are not allowed. |

**TGax Editor: *Delete the paragraphs below of this subclause as follows (#CID 11376):***

*(#11376)*