IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Comment resolutions for miscellaneous CIDs – Part 1 | | | | |
| Date: 2017-02-22 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Alfred Asterjadhi | Qualcomm Inc. | 5775 Morehouse Dr, San Diego, CA 92109 | +1-858-658-5302 | aasterja@qti.qualcomm.com |
| George Cherian | Qualcomm Inc. |  |  |  |
| Abhishek Patil | Qualcomm Inc. |  |  |  |
| Raja Banerjea | Qualcomm Inc. |  |  |  |

Abstract

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

* 3132, 3175, 4720, 6919, 7228, 8308 (6 CIDs)

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Minor editorial changes (Robert to give blessing for <ANA>).

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.***

# PARS I

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 3132 | Adrian Stephens | 101.26 | The additions to the Mesh Peering frames indicate that .11ax is intended to support mesh operation. But I don't see any changes to other mesh operation (sub-)clauses. For example, how does mesh CCAOP work with triggered frame sequences? What kinds of MU can mesh STAs do?  How do the two types of mesh power saving work with .11ax OFDMA power-saving? | As HE is largely about an AP orchestrating its STAs, its model of efficient operation is fundamentally different from mesh. I propose that a statement be added in 4.3.14a that an HE STA is not a mesh STA. In that case remove the changes to 9.6.16.  Alternatively define the subset of HE features (probably not including triggered operation, OFDMA, UL or DL MU) that can be used by mesh STAs and opdate the mesh (sub-)clauses to describe this operation. | Revised –  Agree with the comment. Proposed resolution accounts for the suggested alternative changes (adding a statement indicating that an HE mesh STA does not transmit or receive an HE MU PPDU or a Trigger-based PPDU.  TGax editor to make the changes shown in 11-17/0236r1 under all headings that include CID 3132. |
| 3175 | Ahmadreza Hedayat |  | CHECK if TWT clauses require additional features |  | Rejected –  The comment fails to identify a technical issue. Checked if the TWT clauses require additional feature and they do not. |
| 4720 | Alfred Asterjadhi | 19.25 | I am aware that ANA is going to determine the assigned subtype value for this field once the LB approval has reached 75%. But the table has the value 0011 striked out, which logically means that the value 0011 would be the one assigned for this purpose. Ask ANA to allocate 0011 for the Subtype value or if ANA does not know yet then find a way that it is clear that the number is not assigned yet. Also we already have the term Trigger defined in REVmc so it would be good to have a unique name that would avoid confusion. It could be as simple as UL Trigger. | 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 11-17/0236r1 under all headings that include CID 4720. |
| 6919 | Joseph Levy | 6.60 | Consider renaming the TWT scheduling STA to be a TWT scheduling AP or TWT scheduling HE AP. The text seems to indicate that all TWT scheduling STAs are HE APs - which is a very confusing statement. If TWT scheduling is only a function of a HE AP, then it should be clear that it is an AP and not just a STA. | Rename the "target wake time (TWT) scheduling STA" to be the "target wake time (TWT) scheduling AP. And correct the definition so that it is consistent. | Revised –  Agree with the comment. Proposed resolution accoutns for the suggestec change.  TGax editor to make the changes shown in 11-17/0236r1 under all headings that include CID 6919. |
| 7228 | Katsuo Yunoki | 7.05 | TWT should be added as abbribiation. | TWT should be added to Abbribiations | Rejected –  TWT is already part of the abbreviations as part of the IEEE 802.11ah amendment. Please refer to P802.11ah [D10.0@P7L30](mailto:D10.0@P7L30):  “TWT target wake time” |
| 8308 | Paul Nikolich | 7.00 | The term target wake up time, TWT, is missing from Definitions and Acronyms | add TWT to acronyms and define target wake up time | Rejected –  TWT is already part of the abbreviations as part of the IEEE 802.11ah amendment. Please refer to P802.11ah [D10.0@P7L30](mailto:D10.0@P7L30):  “TWT target wake time”  And P6L42: “target wake time (TWT): A specific time or set of times for individual STAs to wake in order to exchange frames with other STAs.” |

## Discussion: *None.*

* High efficiency (HE) STA

**TGax Editor: *Change the paragraphs below of this subclause as follows (#CID 3132):***

The IEEE 802.11 HE STA operates in frequency bands between 1 GHz and 6 GHz. An HE STA that is a mesh STA does not transmit and does not receive HE MU PPDUs or HE Trigger-based PPDUs.*(#3132)*

* Type and Subtype subfields

**TGax Editor: *Change the Table below of this subclause as follows (#CID 4720):***

|  |  |  |  |
| --- | --- | --- | --- |
| * Valid type and subtype combinations | | | |
| Type value B3 B2 | Type description | Subtype value B7 B6 B5 B4 | Subtype description |
| 01 | Control | 0000–0001 | Reserved |
| 01 | Control | 0010 *(#4720)* | Trigger |

**TGax Editor: Decide if you want to replace “Trigger” with “UL Trigger” throughout the draft *(#CID 4720).***

**3.2 Definitions specific to IEEE 802.11**

**TGax Editor: *Change the paragraphs below of this subclause as follows (#CID 6919):***

**target wake time (TWT) scheduling AP**: An AP*(#6919)* that schedules broadcast TWTs and provides these schedules in a broadcast TWT element.

**TGax Editor: Replace “TWT scheduling STA” with “TWT scheduling AP” throughout the draft *(#CID 6919).***