IEEE P802.11
Wireless LANs

|  |
| --- |
| Comment Resolutions PHY Miscellaneous Part 2 |
| Date: 2016-04-25 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Lochan Verma | Qualcomm Inc. | 5775 Morehouse Dr, San Diego, CA 92121 | +1-858-845-7832 | lverma@qti.qualcomm.com |
| Sameer Vermani | Qualcomm Inc. | 5775 Morehouse Dr, San Diego, CA 92121 | +1-858-845-3115 | svverman@qti.qualcomm.com |

Abstract

This submission proposes resolutions for multiple comments related to TGax D0.1 as follows:

834, 1030, 1604, 1861, 2242, and 2919

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.***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause Number** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 1604 | 26.1.1 | 69.23 | So an HE STA is only required to support HT and VHT PPDUs, not OFDM PPDUs (let alone ERP/DSSS PPDUs)? | Add requirement to support all earlier PHYs (since 11ax is for anything between 1 GHz and 6 GHz) | Rejected.802.11ax clause 26 shall be capable of transmitting and receiving PPDUs that are compliant with the mandatory requirements of Clause 19 (HT PHY) and Clause 21 (VHT PHY).  |
| 834 | 26.1.4 | 71.23 | Support for the HE extended range SU PPDU was decided as mandatory. | Modify as "Support for the HE extended range SU PPDU format is mandatory". | Revised.Proposed resolution accounts for the suggested change. TGax Editor to make the changes shown in IEEE 802.11-16/1176r1 under all headings that include CID 834 |
| 1030 | 26.1.4 | 71.23 | HE trigger-based PPDU format which is abbreviated as HE\_TRIG seems inpropriate, like the HE trigger frame itself | suggest to change for another one such as HE\_TRIG\_BSD or other type which can be easily differentiate from the HE trigger frame | Reject.HE\_TRIG accroyn looks reasonable. |
| 1861 | 26.3.10.10 | 144.23 | LDPC tone mapper for DCM is not consistent with PHY Motion 130 passed in Jan 2016 | as comment | Revised.Proposed resolution accounts for the suggested change. TGax Editor to make the changes shown in IEEE 802.11-16/1176r1 under all headings that include CID 1861 |
| 2242 | 26.1.4 | 71.23 | HE\_TRIG PPDU format should be mandatory | HE\_TRIG PPDU format should be mandatory | Revised.Proposed resolution accounts for the suggested change. TGax Editor to make the changes shown in IEEE 802.11-16/1176r1 under all headings that include CID 2242. |
| 2919 | 26.1.4 | 71.23 | PHY Motion #115 (Extended range SU format (mandatory)) was approved but corresponding spec text is not modified in the draft | Change "HE extended range SU PPDU format (HE\_EXT\_SU) carries a single PSDU. It is similar to the SU format, except that the HE-SIG-A field is repeated. Support for the HE extended range SU PPDU format is TBD (mandatory or optional). " to “HE extended range SU PPDU format (HE\_EXT\_SU) carries a single PSDU. It is similar to the SU format, except that the HE-SIG-A field is repeated. Support for the HE extended range SU PPDU format is mandatory.” | Revised.Proposed resolution accounts for the suggested change. TGax Editor to make the changes shown in IEEE 802.11-16/1176r1 under all headings that include CID 2919. |

*Changes to D0.4 related to CID 834, 2242:*

**26.1.4 PPDU formats**

***TGax Editor: Change the lines 25-38 on page 113 as follows (#834, #2242):***

HE extended range SU PPDU format (HE\_EXT\_SU) carries a single PSDU. It is similar to the SU format, except that the HE-SIG-A field is repeated. Support for the HE extended range SU PPDU format is mandatory. ~~TBD (mandatory or optional).~~

HE trigger-based PPDU format (HE\_TRIG) carries a single PSDU and is sent in response to a PPDU that carries a Trigger frame. The preamble format prior to the HE-STF field is identical to the HE SU PPDU. Support for the HE trigger-based PPDU format is mandatory. ~~TBD (mandatory or optional).~~

*Changes to D0.4 related to CID 1861:*

**26.3.11.10 LDPC Tone Mapper**

***TGax Editor: Change the Table 26-26 on page 211 as follows (#1861):***

|  |  |
| --- | --- |
| Parameter | RU Size (tones) |
| 26 | 52 | 106 | 242 | 484 | 996 | 2$×$996 |
| $$D\_{TM}$$ | 1 | 3 | 6 | 9 | 12 | 20 | 20 |
| $$D\_{TM\\_DCM}$$ | 1 | 1 | 3 | 9 | 9 | 14 | ~~20~~14 |

**References:**

1. **IEEE P802.11axTM/D0.4, Aug. 2016.**