IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Comment Resolutions on Clause 28.3.10.1 | | | | |
| Date: 2017-03-08 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Dongguk Lim | LG Electronics | 19, Yangjae-daero 11 gil, Seocho-gu, Seoul, Korea |  | dongguk.lim@lge.com |
| Jinsoo Choi |  | js.choi@lge.com |
| Eunsung Park |  | esung.park@lge.com |
| Sigurd Schelstraete | Quantenna Communications | 3450 W. Warren Ave  Fremont, CA 94538 | +1 510 743 2288 | Sigurd at quantenna.com |

Abstract

This submission proposes resolutions for the following comments on 28.3.10.1(introduction) of TGax D1.0:

5104, 8891, 8892, 8893, 9469

This resolution is made based on the TGax Draft 1.1

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** |
| 5104 | 28.3.10.1 | 267.40 | As indicated in figure 28-18, L-STF and L-LTF are included in pre-HE modulated fields. Fort the clarification, add the L-STF, L-LTF and L-SIG in the sentence for various HE PPDU formats | Insert the L-STF, L-LTF and L-SIG to each sentence from line 44 to line 48. | Revised  TGax Editor: make changes as shown in this document 11-17-300-00-00ax-CR-on Clause 28.3.10.1 |
| 8891 | 28.3.10.1 | 267.41 | As shown in Figure 28-18, the pre-HE modulated fields are L\_STF, L-LTF, L\_SIG, RL\_SIG, HE-SIG-A and HE-SIG-B. The HE portion starts at RL-SIG. This is not consistent with line 40. | Correct. Not all pre-HE modulated fields are part of HE-portion. | Revised  TGax Editor: make changes as shown in this document 11-17-300-00-00ax-CR-on Clause 28.3.10.1 |
| 8892 | 28.3.10.1 | 267.47 | "The pre-HE modulated fields for the various HE PPDU formats are the following". Not consistent with Figure 28-18. | Make consistent | Revised  TGax Editor: make changes as shown in this document 11-17-300-00-00ax-CR-on Clause 28.3.10.1 |
| 8893 | 28.3.10.1 | 267.41 | repeated HE-SIG-A is not a field that is defined in e.g. Table 28-8. | Remove "repeated HE-SIG-A" | Revised  TGax Editor: make changes as shown in this document 11-17-300-00-00ax-CR-on Clause 28.3.10.1 |
| 9469 | 28.3.10.1 | 267.44 | "The HE portion of HE format preamble consists of pre-HE modulated fields and HE modulated fields. The HE modulated fields consist of HE-STF, HE-LTF and Data fields." Does this mean the HE portion of HE format preamble includes data fields? How can the preamble includes data fields? | Please clarify. | Revised  TGax Editor: make changes as shown in this document 11-17-300-00-00ax-CR-on Clause 28.3.10.1 |

Discussion

In clasue 28.3.4

* Four HE PPDU format is difined and the fields of HE-PPDU is described in table 28-8
  + Defined Pre-HE modulated fields included the L-STF, L-LTF, L-SIG, RL-SIG, HE-SIG-A, HE-SIG-B
  + Defined HE-modulated fields included the HE-STF, HE-LTF, HE-DATA fields.
    - Since HE-DATA field is included in HE-modulated fields, when referring the HE preamble part, the HE- DATA field in HE-modulated fields should be excepted.
* The format of HE extended range SU is same format with HE SU PPDU format exept the repetition of HE-SIG-A field. For an Extended range PPDU, the HE-SIG-A field consist of 4 symbols (ex. HE-SIG-A1, HE-SIG-A2, HE-SIG-A3, HE-SIG-A4). As defined in 28.3.10.7, paired symbol (i.e. HE-SIG-A1 and HE-SIG-A2, HE-SIG-A3 and HE-SIG-A4) has same data bits. It is hard to distinguish as a different field when HE-SIG-A field is repeated. And, we don’t have any subsection on this field in preamble section. So, instead of defining the new field, it is desirable to add the appropriate text for clarification.

*Changes to subclause 26.3.10.1 related to CIDS: 5104, 8991, 8992, 8993, 9469*

***TGax Editor: Please replace the current text in P275L37 to P275L48 of D1.1 with the proposed following text***

***------------- Begin Text Changes ---------------***

* Introduction

The ~~HE portion of~~ HE ~~format~~ preamble consists of pre-HE modulated fields and HE modulated fields. The HE modulated fields ~~consist of HE-STF, HE-LTF and Data fields.~~ in the preamble are HE-STF and HE-LTF for all HE PPDU formats. The pre-HE modulated fields for the various HE PPDU formats are the following:

* L-STF, L-LTF, L-SIG, RL-SIG and HE-SIG-A fields of an HE SU PPDU
* L-STF, L-LTF, L-SIG, RL-SIG, HE-SIG-A and HE-SIG-B fields of an HE MU PPDU
* L-STF, L-LTF, L-SIG, RL-SIG, RL-SIG, HE-SIG-A ~~and repeated HE-SIG-A fields~~ ( repeated as described in 28.3.6 ) fields of an HE extended range SU PPDU
* L-STF, L-LTF, L-SIG, RL-SIG and HE-SIG-A fields of an HE trigger-based PPDU

***------------- End Text Changes ---------------***

**References:**

1. **IEEE P802.11axTM/D1.1, Feb 2017.**