IEEE P802.11  
Wireless LANs

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | Additional Editorial Update Related to CID 9769 | | | | | | Date: 2017-07-09 | | | | | | Author(s): | | | | | | Name | Affiliation | Address | Phone | email | | Youhan Kim | Qualcomm |  |  | youhank@qca.qualcomm.com | |  |  |  |  |  | |  |  |  |  |  | |

Abstract

This submission proposes additional editorial update for the following comments from the letter ballot on P802.11ax D1.0:

9769

NOTE – Set the Track Changes Viewing Option in the MS Word to “All Markup” to clearly see the proposed text edits.

**Revision History:**

R0: Initial version

**Background and Discussion**

CID 9769 has already been resolved by 11-17/0813r1 (adopted by CR Motion #317 in 11-17/555r5, May 2017).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Page** | **Clause** | **Comment** | **Proposed Change** |
| 9769 | Youhan Kim | 274.33 | 28.3.10.7.2 | 4xLTF+0.8 for HE\_EXT\_SU as well?  THe capability bit is for HE\_SU only, not for HE\_MU or HE\_EXT\_SU  But HE\_SIG\_A change is for HE\_EXT\_SU as well (also for HE\_MU)  The HE PHY Capabilities Information field (P86L24) defines 4x HE-LTF and 0.8 usec GI only for HE SU PPDUs, not HE extended range SU. | Change at P274L33 "a 4x HE-LTF and 0.8 us GI" to "if HE extended SU PPDU format, a 4x HE-LTF and 0.8 us GI" |

The corresponding text update has already been implemented in D1.3. One portion of the text update was on the HE PHY Capabilities Information field, where the following NOTE (highlighted in yellow) was added.

D1.3 P127L41

9.4.2.237.3 HE PHY Capabilities Information field

**Table 9-262aa—Subfields of the HE PHY Capabilities Information field**



However, Clause 9 is a frame formats clause, and hence should not contain behavioral statements such as “shall”. The proposed text updates in this document moves te behavioural statement to Clause 28 w/o any technical changes.

**Proposed Text Updates:**

9.4.2.237.3 HE PHY Capabilities Information field

*TGax Editor: Modify D1.3 P127L41 (Table 9-262aa) as follows.*

|  |  |  |
| --- | --- | --- |
| HE SU PPDU And HE MU PPDU With 4x HE-LTF And 0.8 µs GI | Indicates support for the reception of an HE SU PPDU and HE MU PPDU with 4x LTF and 0.8 µs guard inter-val duration. | Set to 0 if not supported.  Set to 1 if supported.  This field is set to 1 in a STA that sets the HE ER SU PPDU With 4x HE-LTF And 0.8 µs GI subfield of the HE PHY Capabilities Information field to 1. |

28.1.1 Introduction to the HE PHY

*TGax Editor: Modify D1.3 P284L51 as follows.*

An HE STA shall support the following Clause 28 features:

…

* 3.2 µs GI duration on both HE-LTF and data symbols when the HE-LTF is a 4x LTF (transmit and receive)
* HE SU and HE MU PPDUs with 0.8 µs GI duration on both the HE-LTF and Data field symbols when the HE-LTF is a 4x LTF if the STA supports HE ER SU PPDUs with 0.8 µs GI duration on both the HE-LTF and Data field symbols when the HE-LTF is a 4x LTF (transmit and receive)
* Single spatial stream HE-MCSs 0 to 2 in primary 20 MHz channel for HE ER SU PPDUs

*TGax Editor: Modify D1.3 P284L64 as follows.*

An HE STA may support the following Clause 28 features:

…

* Dual carrier modulation (transmit and receive)
* HE SU PPDUs with 0.8 µs GI duration on both the HE-LTF and Data field symbols when the HE-LTF is a 1x LTF (transmit and receive)
* HE SU and HE MU PPDUs with 0.8 µs GI duration on both the HE-LTF and Data field symbols when the HE-LTF is a 4x LTF if the STA does not support HE ER SU PPDUs with 0.8 µs GI duration on both the HE-LTF and Data field symbols when the HE-LTF is a 4x LTF (transmit and receive)
* HE ER SU PPDUs with 0.8 µs GI duration on both the HE-LTF and Data field symbols when the HE-LTF is a 4x LTF (transmit and receive)
* LDPC coding (transmit) if the maximum number of spatial streams the STA is capable of transmitting in an HE SU PPDU is less than or equal to 4

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