IEEE P802.11
Wireless LANs

|  |
| --- |
| Long CW capability |
| Date: 2019-01-15 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Assaf Kasher | Qualcomm |  |  | akasher@qti.qualcomm.com |
|  |  |  |  |  |

Abstract

This document proposes to add a capability field for Long LDPC CW support

**Discussion:**

A STA may support Long CW LDPC. However, there is no field to indicate whether it supports Long CW.

***TGay Editor: Modify figure 51 PHY capabilities subelement adding a Long CW subfield:***

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | B0 | B1 | B2 | B3 | B4 | B5 | B6 | B7 B9 |
|  | Phase Hopping Supported | Open Loop Precoding Supported | DCM π/2-BPSK Supported | Short CW Punctured Supported | Short CW Superimposed Supported | Long CW Punctured Supported | Long CW Superimposed Supported | SC Maximum Number of SU-MIMO Spatial Streams Supported |
| Bits: | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | B10 B12 | B13 | B14 | B15 | B16 B18 | B19 B20 | B21 | B22 | B23 |
|  | OFDM Maximum Number of SU-MIMO Spatial Streams Supported | NUC TX Supported | NUC RX Supported | π/2-8-PSK Supported | Number of Concurrent RF Chains | STBC Supported | EDMG A-PPDU | Long CW | Reserved |
| Bits: | 3 | 1 | 1 | 1 | 3 | 2 | 1 | 1 | 1 |

***TGaz Editor: Add the following text after the 3rd paragraph after figure 51 (P121L12)***

The Long CW subfield is set to 1 to indicate that a STA support LDPC CW of length 1344 on code rates ½, 5/8, 3/4 and 13/16. The Long CW Punctured Supported and Long CW Superimposed Supported subfields may not be set to 1 if the Long CW subfield is set to 0.

 ***TGaz Editor: Add the following MIB variable at P696L34***

dot11EDMGLongCWImplemented OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is a capability variable.

Its value is determined by device capabilities.

This attribute indicates support for Long (1344) CW."

DEFVAL { false }

::= { dot11PHYEDMGEntry 23 }

***TGaz Editor: Modify the following text in P701L36:***

dot11EDMGAPPDUSupportedImplemented TruthValue,

dot11EDMGLongCWImplemented

**References:**