IEEE P802.11  
Wireless LANs

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| Draft Spec Text Update for Section 32.3.8 (Data field) | | | | |
| Date: 2020-03-11 | | | | |
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Abstract

This submission contains modified spec text for Sec. 32.3.8 (Data field) to be incorporated in P802.11bd D0.3. The text reflects the related passed motion (#58) recorded in 11-19/0514r14.

Revisions:

* Rev 0: Initial version of the document.

32. Next Generation V2X (NGV) PHY specification

32.3.8.9 OFDM modulation

32.3.8.9.1 Transmission in NGV format

The time domain waveform of the Data field of a NGV PPDU from transmit chain *iTX*, 1  *iTX*  *NTX* shall be as defined in Equation (32-39).

(32-39)

where

*pn* is defined in 17.3.5.10 (OFDM modulation)

is defined in ~~21.3.10.10~~ 32.3.8.8(Pilot subcarriers)

is defined in Equation (32-4) and Equation (32-5)

is the transmitted constellation at subcarrier *k*, space-time stream *m*, and Data field OFDM symbol *n* and is defined in ~~Equation (21-96) to Equation (21-99)~~ Equation (32-40) and Equation (32-41)

has the value given in Table 32-8 (Tone scaling factor and guard interval duration values for PHY fields)

is given in Table 21-11 (Cyclic shift values for the VHT modulated fields of a PPDU)

is the guard interval duration. .

In a 10 MHz NGV transmission,

, (32-40)

where

~~is defined in Equation (21-49)~~

In a 20 MHz NGV transmission,

, (32-41)

where

~~is defined in Equation (21-51)~~

is a spatial mapping/steering matrix with *NTX* rows and *NSTS* columns for subcarrier *k*. may be frequency dependent. Refer to the examples of listed in 19.3.11.11.2 (Spatial mapping) for examples of that could be used for NGV PPDU. Note that implementations are not restricted to the spatial mapping matrix examples listed in 19.3.11.11.2 (Spatial mapping) and the number of transmit chains *NTX* could be 1 or 2. The beamforming steering matrices are implementation specific.