IEEE P802.11  
Wireless LANs

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| --- | --- | --- | --- | --- |
| Spec Change for NGV SIG CRC | | | | |
| Date: 2020-03-13 | | | | |
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Abstract

This submission contains modified spec text for Sec. 32.3.7.3.3 (NGV-SIG Definition) in D0.2 to be incorporated in P802.11bd D0.3.

Revisions:

* Rev 0: Initial version of the document.

32. Next Generation V2X (NGV) PHY specification

**32.3.7.3.3 NGV-SIG definition**

The NGV-SIG field carries information required to interpret NGV PPDUs. The NGV-SIG field contains the fields listed in Table 32-10 (Fields in the NGV-SIG field).



**Table 32-10 (Fields in the NGV-SIG field)**

|  |  |  |  |
| --- | --- | --- | --- |
| Bit | Field | Number of bits | Description |
| B0-B1 | PHY version | 2 | Set 0 for 11bd, other three options are reserved for future generations. |
| B2 | Bandwidth | 1 | Set 0 for 10MHz, set 1 for 20MHz. |
| B3-B6 | MCS | 4 | For 10MHz PPDU, set to n for MCS n, where n = 0,1,2, … 8 and 10. Values 9, 11-15 are reserved.  For 20MHz PPDU, set to n for MCS n, where n = 0,1,2, … 9. Values 10-15 are reserved. |
| B7 | Nss | 1 | Set 0 for 1 ss, and set 1 for 2ss. |
| B8-B9 | Midamble Periodicity | 2 | Set 0 for 4 symbols, set 1 for 8 symbols, set 2 for 16 symbol. Value 3 is reserved. |
| B10 | LTF format | 1 | Set 0 for LTF\_2x; set 1 for LTF\_1x. |
| B11 | LDPC Extra OFDM Symbol | 1 | Set to 1 if the LDPC PPDU encoding process results in an extra OFDM symbol as described in 21.3.10.5.4 (LDPC coding). Set to 0 otherwise. |
| B12-B13 | Reserved | 2 | Reserved and set each bit to 1. |
| B14-B17 | CRC | 4 | CRC calculated as in 27.3.11.7.3 (CRC computation) and set L = 13. |
| B18-B23 | Tail | 6 | Used to terminate the trellis of the convolutional decoder. Set to 0. |