IEEE P802.11
Wireless LANs

|  |
| --- |
| Resolutions to 32.3.4 NGV modulation and coding schemes |
| Date: 2020-06-16 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Yujin Noh | Newracom |  |  | yujin.noh at newracom.com |
|  |  |  |  |  |

Abstract

This submission shows

* Resolutions for comments from TGbd draft 0.3
* 11 CIDs: 110, 111, 112, 135, 136, 137, 138, 161, 265, 266 and 267

Revisions:

* Rev 0: Initial version of the document.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 110 | 36.36 | Update "TBD" to "NGV-SIG and RNGV-SIG". | Update "<TBD>" to "NGV-SIG and RNGV-SIG". | Revised.<TBD> is updated to NGV-SIG field and RNGV-SIG field.TGbd Editor: make changes according to this document 11-20-0720-00-00bd Resolutions to 32.3.4 NGV modulation and coding schemes. |
| 135 | 36.36 | Update "TBD" to "NGV-SIG and RNGV-SIG". | Update "<TBD>" to "NGV-SIG and RNGV-SIG". | RevisedThe same resolution to CID110 is applied to CID135 |
| 265 | 36.37 | remove <TBD> and add MCS field in NGV-SIG field defined in Table 32-10 (Fields in the NGV-SIG field) | as in comment | RevisedThe same resolution to CID110 is applied to CID265 |
| 111 | 36.40 | Update "<TBD>" to "10". | Update "<TBD>" to "10". | Accepted |
| 136 | 36.40 | Update "<TBD>" to "10". | Update "<TBD>" to "10". | Accepted |
| 266 | 36.40 | remove <TBD> and add 10 | as in comment | RevisedThe same resolution to CID111 is applied to CID266 |
| 137 | 36.43 | As there is no MU support in NGV, suggest to remove "for a particular user". | Remove "for a particular user". | Accepted |
| 112 | 36.46 | "DCM is a modulation scheme used for the Data field in an NGV PPDU. The use of DCM on the Data field of an NGV PPDU is indicated in the <TBD>. DCM is applied only to the NGV-MCS 0" Need to rephrase. | "DCM is a modulation scheme used for the Data field in an NGV PPDU when NGV-MCS is set 10" | RevisedTGbd Editor: make changes according to this document 11-20-0720-00-00bd Resolutions to 32.3.4 NGV modulation and coding schemes. |
| 138 | 36.46 | "... The use of DCM on the Data field. of an NGV PPDU is indicated in the <TBD>. DCM is applied only to the NGV-MCS 0.". DCM is indicated using the MCS table. Need to update the paragragh. | Suggest to change to: "DCM is applied only to BPSK modulation. The use of BPSK-DCM on the Data field of an NGV PPDU is indicated as MCS10 in NGV-SIG." | RevisedThe same resolution to CID112 is applied to CID138 |
| 161 | 36.47 | "DCM is applied only to NGV-MCS 0." doesn't reflect the MCS tables. | DCM is applied only to BPSK as shown in NGV-MCS-10. | RevisedThe same resolution to CID112 is applied to CID161 |
| 267 | 36.47 | remove <TBD> and add MCS field in NGV-SIG field defined in Table 32-10 (Fields in the NGV-SIG field) | as in comment | RevisedThe same resolution to CID112 is applied to CID267 |

***To TGbd Editor:*** ***P36L32*** *update the description as below.*

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

**32.3.4 NGV modulation and coding schemes**

The NGV-MCS is a value that determines the modulation and coding used in the Data field of the PPDU. It is a compact representation that is carried in the ~~<TBD>~~ NGV-SIG field and RNGV-SIG field for NGV PPDUs.(#110, #135, #265) Rate-dependent parameters for the full set of NGV-MCSs are shown in Table 32-15 (NGV-MCSs for 10 MHz, NSS=1) to Table 32-18 (NGV-MCSs for 20 MHz, NSS=2) (Clause 32.3.14 (Parameters for NGV-MCSs)). These tables give ratedependent parameters for NGV-MCSs with indices 0 to ~~<TBD>~~ 10, with number of spatial streams from 1 to 2 and bandwidth options of 10 MHz and 20 MHz. (#111, #136, #266) Equal modulation (EQM) is applied to all streams ~~for a particular user.~~(#137)

~~DCM is a modulation scheme used for the Data field in an NGV PPDU. The use of DCM on the Data field~~

~~of an NGV PPDU is indicated in the <TBD>. DCM is applied only to the NGV-MCS 0.~~

DCM is applied to only BPSK modulation. The use of DCM on the Data field of an NGV PPDU is indicated as MCS 10 in NGV-SIG field. (#112, #138, #161, #267)

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