IEEE P802.11  
Wireless LANs

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| CR to 36.5 Parameters for EHT-MCSs | | | | |
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Abstract

This submission shows

* Resolutions for comments from TGbe draft 0.3.
* 4 CIDs: 1995, 2844, 2845 and 2846.

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: 2846 updated based on the feedback.

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| **CID** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 1995 | 365.46 | BPSK-DCM was decided to use with the index of MCS 15. | Suggest to change TBD as 15(for all related part of MCS index for BPSK-DCM in Tables of 36.5 subclause). | Revised.  MCS 15 is implemented to indicate BPSK-DCM in 11be draft 0.4 based on DCN153.  Same resolution applied for CIDs 1995 and 2845.  Note to the Editor:  No further changes are required. |
| 2845 | 365.47 | In Table 36-58 the last row, first column is TBD and the second column is BPSK-DCM (TBD). But on p288L42 and p288L48, Clause 36.3.12.3.2, "EHT-MCS15 (BPSK+DCM with N\_{SS,u} = 1) is specified. Replace TBD in last row, first column in Table with 15 , replace "BPSK-DCM (TBD)" with "BPSK+DCM". Please apply the same change to subsequent Tables 36-59 to 36-73. | as in comment | Revised  MCS 15 is implemented to indicate BPSK-DCM in 11be draft 0.4 based on DCN153.  Same resolution applied for CIDs 1995 and 2845.  Note to the Editor:  No further changes are required. |
| 2844 | 365.47 | In 11ax D8.0 Tables 27-55 to 27-111 DCM is not part of the HE-MCS or HE-SIG-B-MCS Index, but listed in a separate column. In contrast to 11ax D8.0 in 11be D0.3 Tables 36-58 to 36-73 BPSK-DCM and BPSK DCM-DUP, DCM together with BPSK is considered as a separate EHT-MCS Index. It is confusing, why DCM together with BPSK is considered as separate Modulation although the subcarier is still BPSK modulated. Hence, apply the same notation for DCM in 11be D0.3 as in 11ax D8.0. | as in comment | Rejected.  This description is based on the motion passed as below.  DCM+MCS0 for Nss=1 as defined in 802.11ax is a MCS in 802.11be.   * The detailed MCS number for DCM+MCS0 is TBD. * This is an R1 feature.   [Motion 122, #SP147]  How to indicate could be different dependending on the amendments under the different conditions. For example, using one state to indicate BPSK-DCM could save one bit in SIG field without any loss. 11bd also follows the same way to indicate BPSK-DCM with MCS 15. |
| 2846 | 380.38 | Table 36-74 summarized for different Bandwidths the BPSK-DCM-DUP MCSs. These entries should be moved to the respective Tables 36-66 for 80 MHz, 36-69 for 160 MHz, and 36-73 for 320 MHz and added with MCS index 14 before BPSK-DCM. Further Table 36-74 should be deleted. | as in comment | Rejected  The commentor’s suggestion was the description of the initial version of EHT-MCS tables.  BPSK-DCM-DUP is now replaced with BPSK-DCM to indicate the same modulation to be applied for EHT duplicate transmission. BPSK-DCM, MCS15, is applied to the RU sizes except for 2×996+484-tone MRU and 3×996+484--tone MRU while EHT DUP mode is only applied to 80/160/320 MHz bandwidth.  Based on this, it’s been agreed that it would be better to provide the separate table for the rate-dependent parameter of EHT-MCS 14. |