IEEE P802.11  
Wireless LANs

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | CID 22411 | | | | | | Date: 2019-11-13 | | | | | | Author(s): | | | | | | Name | Affiliation | Address | Phone | email | | Youhan Kim | Qualcomm |  |  | youhank@qti.qualcomm.com | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |

Abstract

This submission proposes resolutions for the following comments from the LB244 on P802.11ax D5.0:

22411

NOTE – Set the Track Changes Viewing Option in the MS Word to “All Markup” to clearly see the proposed text edits.

**Revision History:**

R0: Initial version.

# CID 22411

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| **CID** | **Page.Line** | **Clause** | **Comment** | **Proposed Change** |
| 22411 |  |  | CID 20941. Well, if per the resolution "In some of the text, "PPDU with DCM" means the DCM applied to HE-SIGB." then it's even worse! | Change "HE PPDU with DCM" to "HE PPDU with DCM applied to the HE-SIG-B and/or Data field" throughout (5x) |

**Proposed Resolution: CID 22411**

**Revised**

Proposed text update for CID 22411 in 11-19/2077 clarifies whether DCM is applied to HE-SIG-B or Data field.

Instruction to TGax Editor: Implement the proposed text update for CID 22411 in 11-19/2077r0.

**Proposed Text Update: CID 22411**

*Instruction to TGax Editor: Update D5.1 P438L55 as shown below.*

An HE STA may transmit an HE SU or HE ER SU PPDU with DCM applied to the Data field to a recipient STA if it has received from the recipient STA an HE Capabilities element with the DCM Max Constellation Rx subfield in the HE PHY Capabilities Information field greater than 0; otherwise the HE STA shall not transmit an HE SU or HE ER SU PPDU with DCM applied to the Data field to the recipient STA.

An HE STA may transmit to a recipient STA an HE MU PPDU with DCM applied to the HE-SIG-B and/or an RU in the Data field addressed to the STA if it has received from the recipient STA an HE Capabilities element with the DCM Max Constellation Rx subfield in the HE PHY Capabilities Information field greater than 0; otherwise the HE STA shall not transmit to the recipient STA an HE MU PPDU with DCM applied to the HE-SIG-B and/or an RU in the Data field addressed to the STA.

*Instruction to TGax Editor: Update D5.1 P439L1 as shown below.*

An HE STA that transmits an HE PPDU with DCM applied to the Data field to a recipient STA shall use an RU size that is less than or equal to the maximum RU size indicated in the DCM Max RU subfield in the HE PHY Capabilities Information field in the HE Capabilities element received from the recipient STA.

*Instruction to TGax Editor: Update D5.1 P439L12 as shown below.*

An HE STA that transmits an HE PPDU with DCM applied to the Data field to a recipient STA shall use an NSS that is less than or equal to the value indicated in the DCM Max NSS Rx subfield in the HE PHY Capabilities Information field in the HE Capabilities element received from the recipient STA.

*Instruction to TGax Editor: Update D5.1 P615L57 as shown below.*

For an HE PPDU with DCM applied to the Data field, the LDPC tone mapping for the LDPC encoded stream corresponding to user *u* in the *r*-th RU is done by permuting the stream of complex numbers generated by the constellation map-pers (see 27.3.11.9 (Constellation mapping)) as defined by Equation (27-96).

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