IEEE P802.11  
Wireless LANs

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | D3.0 Comment Resolution for MU-MIMO PHY | | | | | | Date: 2023-03-12 | | | | | | Author(s): | | | | | | Name | Affiliation | Address | Phone | email | | Sameer Vermani | Qualcomm |  |  | svverman@qti.qualcomm.com | | Vamsi Amalladinne | Qualcomm |  |  | vamsia@qti.qualcomm.com | |

Abstract

This submission proposes resolutions for the following comments on P802.11be D3.0: Comments in 36.3.3

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. Resolve CIDs 16454, 17194, 17195, 18332

R1: Minor revision

# CID 16454

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| **CID** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** | **Resolution** |
| 16454 | 36.3.3.2.1 | 726.26 | "The key difference from SU-MIMO is that in UL MU-MIMO, the transmitted streams originate from multiple non-AP STAs." reads like an unfinished sentence. | Change to "The key difference from SU-MIMO is that in UL MU-MIMO, the transmitted streams originate from multiple non-AP STAs instead of only the AP. | Revised.  Agree to the comment that this sentence needs to be modified. We propose modifying the sentence as given below for improved readability.  Instruction to editor:  *Please make changes for CID 16454* *as shown in document 11-23/0396r1* |

***Instructions to the editor:***

**Please make the changes to P726L26 as shown below for CID 16454:**

The key difference however is that in SU-MIMO, all the transmitted streams originate from the same STA, while in UL MU- MIMO, they originate from multiple non-AP STAs.

# CID 17194

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| 17194 | 36.3.3.1.1 | 725.8 | "Supported RU or MRU sizes in DL MU-MIMO" only specifies what needs to be supported if the Partial Bandwidth DL MU-MIMO subfield is 1. For completeness, also add what support is expected when this subfield is 0. | See comment | Rejected  The intent of clause 36.3.3.1.1 is to indicate that the minimum size of RU or MRU over which an EHT DL MU-MIMO transmission can be done to a STA is 242. A description of what happens when Partial Bandwidth DL MU-MIMO subfield is set to 0 is not within the scope of this clause and details of that can be found in the capabilities section. |

# CID 17195

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| 17195 | 36.3.3.2.2 | 726.32 | "Supported RU or MRU sizes in UL MU-MIMO" only specifies what needs to be supported if the Partial Bandwidth UL MU-MIMO subfield is 1. For completeness, also add what support is expected when this subfield is 0. | See comment | Rejected  The intent of clause 36.3.3.2.2 is to indicate that the minimum size of RU or MRU over which an EHT UL MU-MIMO transmission can be done is 242. A description of what happens when Partial Bandwidth UL MU-MIMO subfield is set to 0 is not within the scope of this clause and details of that can be found in the capabilities section. |

# CID 18332

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| **CID** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** | **Resolution** |
| 18332 | 36.3.3.2.3 | 727.18 | The term 'without pilots' is not clear. Need better definition | Replace 'without pilots' by 'with zero energy on pilot tones' | Rejected  The term ‘without pilots’ cannot be replaced with ‘zero energy on pilot tones’ since for an EHT TB PPDU with 1x EHT-LTF, even though there are no pilots being transmitted in the EHT-LTF section, there is still non-zero energy on those tones. |