IEEE P802.11
Wireless LANs

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| D3.0 Comment Resolution for MU-MIMO PHY |
| Date: 2023-03-12 |
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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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| **CID** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** | **Resolution** |
| 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 | RejectedThe 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 | RejectedThe 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' | RejectedThe 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.  |