IEEE P802.11
Wireless LANs

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| CR for 38.3.15.9.3 Common field for OFDMA transmission on P802.11bn D0.1 |
| Date: 2025.03.30 |
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Abstract

This submission contains proposed comment resolutions to comments on P802.11bn D0.1.

14 out of 14 comments under 38.3.15.9.3 Common field for OFDMA transmission are resolved (CIDs: 324, 325, 326, 364, 942, 1636, 2288, 3306, 3307, 3497, 3498, 3499, 3500, 3745).

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| --- | --- |
| R0 | Initial revision |
| R1 | Minor change |
| R2 | Some resolution updates and editorial changes |
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## CID 324

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| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 169.34 | 38.3.15.9.3 | The Validate values, e.g., values 193-199, no longer follow the same rule to indicate the number of user fields. Change the first sentence to "For an RU Allocation subfield with value greater than or equal to 64 and less than or equal to 191, and value greater than 256, y2y1y0 = 000-111 indicates the number of User fields in the UHR-SIG content channel that contains the corresponding 9-bit RU Allocation subfield." | Refer to the comment. | REJECTEDCurrent text says “value greater than or equal to 64 that includes y2y1y0, y2y1y0 = 000–111indicates the number of User fields in the UHR-SIG”. It is very clear, no need for further refinment.  |

## CID 325

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| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 162.15 | 38.3.15.9.3 | Do we still need this legacy field "Spatial Reuse". Status of legacy SR to be discussed. | See comment | REJECTEDCurrently there is no decision to make any change to Legacy SR |

## CID 326

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| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 165.10 | 38.3.15.9.3 | Table 38-23. Does this whole table have to be repeated or can we just indicated the changes relative to Table 36-34? | Try to minimize repetititon | REJECTEDAs there are multiple changes to different rows, it is more convenient to have an entire new table in the text  |

## CID 364

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| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 165.15 | 38.3.15.9.3 | Table 38-23 limits the number of RUs for which MU-MIMO with OFDMA can be supported. Restricting to RUs of eaul size will be more convenient for implementation (e.g. 160+160 configs only for 320 MHz) | See comment | REJECTEDThere is no consensus on any further restrictions for OFDMA+MU-MIMO |

## CID 942

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| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 163.03 | 38.3.15.9.3 | Not all of motion 196 are reflected in D0.1.Add restriction based on motion 196\*MU-MIMO+OFDMA in both DL and UL is limited to UHR PPDU of 160 and 320MHz only\*160MHz PPDU - 996 and, when the PPDU is punctured, 484+242\*320 MHz PPDU: 2x996, 3x996 and, when the PPDU is punctured, 996+484, 2x996+484 | See comment | REVISED Change the text as proposed under comment resolution of CID 3745 |

## CID 1636

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| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 162.15 | 38.3.15.9.3 | Remove TBD for Spatial reuse | As in comment | REVISED Change the text as proposed under comment resolution of CID 3745 |

## CID 2288

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| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 162.26 | 38.3.15.9.3 | Change "35.y (UHR Spatial reuse operation)" to "37.y (UHR Spatial reuse operation)". Clause 35 is for EHT MAC. | As in comment | REVISED Currently there is no decision to make any change to Legacy SR thus no need update the referenceChange the text as proposed under comment resolution of CID 3745 |

## CID 3306

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| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 162.25 | 38.3.15.9.3 | Change "35.y (UHR Spatial reuse operation" to "37.y (UHR Spatial reuse operation" | As in comment. Same for page 170 line 25. | REVISED Currently there is no decision to make any change to Legacy SR thus no need to udpdate the referenceChange the text as proposed under comment resolution of CID 3745 |

## CID 3307

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| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 165.11 | 38.3.15.9.3 | Is there any difference between table 38-23 and table 36-34 in EHT? If there is no difference, we should remove the big duplicated table. | Remove table 38-23 and refer to table 36-34. | REJECTED Table 38-23 reflects the changes proposed by Motion 196 |

## CID 3497

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| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 165.06 | 38.3.15.9.3 | Minor typo | ".. contributed to the ..." --> ".. contributing to the ..." | REVISED Change the text as proposed under comment resolution of CID 3745 |

## CID 3498

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| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 165.09 | 38.3.15.9.3 | Missing rules for constructing RU Allocation subfields for OFDMA transmission (e.g., similar to those defined for EHT in 36.3.12.8.3, p828-829 in 11be D7.0) | Add the missing rules for UHR | REVISED Change the text as proposed under comment resolution of CID 3745 |

## CID 3499

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| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 165.09 | 38.3.15.9.3 | Need to include rule on maximum number of MUMIMO RUs in a PPDU being limited to 2 per Motion 196 | Include the rule on number of MUMIMO RUs being limited to 2 or fewer | REVISED Change the text as proposed under comment resolution of CID 3745 |

## CID 3500

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| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 165.09 | 38.3.15.9.3 | Missing rule on split of User fields across content channels for an MUMIMO allocation (e.g., similar to those defined for HE and EHT) | Add the missing rule for UHR | REVISED Change the text as proposed under comment resolution of CID 3745 |

## CID 3745

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| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 162.15 | 38.3.15.9.3 | Legacy spatial reuse may not be supported by UHR. If we do support it, a single bit flag may be sufficient (e.g., if only OBSS\_PD based SR is supported). Also, consider to put it in the U-SIG for cross generation compatibility. | As in comment | REJECTEDCurrently there is no decision to make any change to Legacy SR |

***TGbn editor: Please do the following changes to the text in the subclause 38.3.15.9.3 of the 802.11bn draft:***

***Please do the following change in the table 38-22***

###### Table 38-22—Common field for OFDMA transmission

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Bit** | **Subfield** | **Number of subfields** | **Number of bits per subfield** | **Description** |
| B0–B3 | Spatial Reuse | 1 | 4 | Indicates whether or not spatial reuse modes are allowed during the transmission of this PPDU.Set to a value from Table 27-23 (Spatial Reuse field encoding for an HE SU PPDU, HE ER PPDU, and HE MU PPDU). Notethat Table 27-23 (Spatial Reuse field encoding for an HE SU PPDU, HE ER PPDU, and HE MU PPDU) also applies to UHR MU PPDU. See 37.XX (UHR Spatial reuse operation). |

***Please change the following text after the table 38-22:***

The mapping from the 9-bit RU Allocation subfield to the RU assignment and the number of User fields per RU or MRU contribute to the User Specific field in the same UHR-SIG content channel as the RU Allocation subfield is defined in Table 38-23 (RU Allocation subfield).

***Please add the following change after the table 38-23:***

The MU-MIMO allocation is allowed for the RUs and MRUs sizes larger than or equal to 996 tones in an OFDMA transmission.

The maximum number of RUs or MRUs with MU-MIMO allocation in an OFDMA transmission is 2.

The MU-MIMO allocation of 996-tone RU and punctured 484+242-tone MRU is allowed in an OFDMA transmission only when the bandwidth of the PPDU is 160 MHz.

The MU-MIMO allocation of 2x996-tone RU, punctured 996+484-tone MRU, punctured 2x996+484-tone MRU, and punctured 3x996-tone MRU is allowed in an OFDMA transmission only when the bandwidth of the PPDU is 320 MHz.

For an MU-MIMO allocation of RU and MRU sizes as defined in 38.3.15.9.3 in an OFDMA transmission, the dynamic split of User fields between UHR-SIG content channel 1 and UHR-SIG content channel 2 is decided by the AP (on a per case basis) and signalled by the AP using the RU Allocation subfields in each UHR-SIG content channel. The dynamic split of User fields can be different in each 80 MHz frequency subblock if the bandwidth of the PPDU is greater than or equal to 160 MHz.