IEEE P802.11
Wireless LANs

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| **CC50 Comment Resolutions for 38.3.10.12.2 ELR PPDU** |
| **Date:** 2025-04-15 |
| **Author(s):** |

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Abstract

This submission proposes the resolutions for following 8 CIDs:

1146, 1147, 2768, 1148, 931, 2275, 28, 761

Revisions:

* Rev 0: Initial version of the document.

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGbn D1.0 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbn D1.0 Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGbn Editor: Editing instructions preceded by “TGbn Editor” are instructions to the TGbn editor to modify existing material in the TGbn draft. As a result of adopting the changes, the TGbn editor will execute the instructions rather than copy them to the TGbn Draft.***

#### *CID 1146*

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| **CID** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 1146 | 38.3.10.12.2 | 133.12 | We don't need to define the new service field for UHR and the service field defined in EHT can be reused in UHR. | Refer the 36.3.13.1 SERVICE field | Revised. I agree with the commenter. We can simply refer it because this clause is not changed in 11bn. TGbn Editor: incorporate the changes in https://mentor.ieee.org/802.11/dcn/25/11-25-0659-00-00bn-cc50-cr-for-38.3.10.12.2 ELR PPDU.docx |

 Discussion:



***TGbn Editor: please change “***38.x (SERVICE field)” ***with “36.3.13.1 (SERVICE field)” in P133L12 of 11bn D0.1.***

#### *CID 1147*

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| **CID** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 1147 | 38.3.10.12.2 | 133.18 | We don't need to define the new scrambler and descrambler and that defined in EHT can be reused. | Refer the 36.3.12.2 for that. | Revised. I agree with the commenter. We can simply refer it because this clause is not changed in 11bn. TGbn Editor: incorporate the changes in https://mentor.ieee.org/802.11/dcn/25/11-25-0659-00-00bn-cc50-cr-for-38.3.10.12.2 ELR PPDU.docx |

 Discussion:







***TGbn Editor: please change “***38.x (UHR PHY DATA scrambler and descrambler)” ***with “36.3.13.2 (EHT PHY DATA scrambler and descrambler)” in P133L18 of 11bn D0.1.***

#### *CID 2768*

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| **CID** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 2768 | 38.3.10.12.2 | 133.25 | Change "to" to "or" | see comments | Accepted.  |

 Discussion: None



#### *CID 1148, 931, 2275*

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| **CID** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 1148 | 38.3.10.12.2 | 133.26 | The constellation does not change. So, for the reference of constellation, use the subclause 36.3.13.7 as a reference. | As the comment. | Revised, I agree with the commenter. We can simply refer it because the constellation is not changed in 11bn. TGbn Editor: incorporate the changes in https://mentor.ieee.org/802.11/dcn/25/11-25-0659-00-00bn-cc50-cr-for-38.3.10.12.2 ELR PPDU.docx |
| 931 | 38.3.10.12.2 | 133.27 | In other PPDU format, there is no text for RU mapping in constellation mapping and LDPC tone mapper. | Remove RU mapping in f) and g) as in other PPDU format. | Revised, I agree with the commentor. We don’t need the text for RU mapping because it is described in h) frequency domain duplication. TGbn Editor: incorporate the changes in https://mentor.ieee.org/802.11/dcn/25/11-25-0659-00-00bn-cc50-cr-for-38.3.10.12.2 ELR PPDU.docx |
| 2275 | 38.3.10.12.2 | 133.30 | "the LDPC tone mapping is performed on all LDPCencoded streams on the 52-tone RRU 1 of the UHR ELR PPDU", change "all LDPC encoded streams" to "LDPC encoded stream" since ELR PPDU only supports single spatial stream. | As in comment | Revised. I agree with the commentor. Since ELR PPDU is transmitted using a single spatial stream, it shoud be singular. TGbn Editor: incorporate the changes in https://mentor.ieee.org/802.11/dcn/25/11-25-0659-00-00bn-cc50-cr-for-38.3.10.12.2 ELR PPDU.docx |

***TGbn Editor: please modify the text from L26 to L34 in P133 of 11bn D0.1 as following.***

* Constellation mapper: Map to BPSK or(#2768) QPSK constellation points as described in 36.3.13.7 (Constellation mapping). (#1148) (#931)
* LDPC tone mapper: If the user is using LDPC, the LDPC tone mapping is performed on LDPC encoded stream(#2275) (#931)as described in 38.3.16.5 (LDPC tone mapper). This block is bypassed if the user is using BCC.

#### *CID 28*

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| **CID** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 28 | 38.3.10.12.2 | 133.42 | suggest to remove step "j)". Note that in ELR-SIG part CSD has been removed in current version. | suggest to remove step "j)". Note that in ELR-SIG part CSD has been removed in current version. | Rejected. It is better to keep this for the consistent explanation of the encoding procedure, even though ELR PPDU uses a single spatial stream. |

#### *CID 761*

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| **CID** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 761 | 38.3.10.12.2 | 136.12 | I found an abnormal value of Table 38-16, it seems strange that " Total number of data subcarriers" is larger than "Total number of subcarriers" | Accounding to the PDT for ELR (24/1981 v3), the value for "Total number of data subcarriers" is 192. Please revise it after checking. | Revised.I agree with the commentor. It should be corrected since ELR PPDU uses 4x 52 RU tones.TGbn Editor: incorporate the changes in https://mentor.ieee.org/802.11/dcn/25/11-25-0659-00-00bn-cc50-cr-for-38.3.10.12.2 ELR PPDU.docx |

 Discussion:

***TGbn Editor: please modify the value of the 2nd column in the 2nd row of table 38-16 in 11bn D0.1 as follows.***

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| Table 38-16 Subcarrier allocation related constants for the UHR ELR PPDU  |
| Parameter | ELR PPDU | Description |
| *NSD,total* | 192(#761) | Total number of data subcarriers |
| *NSP* | 16 | Number of pilot subcarriers |
| *NST* | 208 | Total number of subcarriers |