IEEE P802.11
Wireless LANs

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| 11be D2.0 Cooment Resolution 35.15.3 35.15.4 35.15.5 35.15.6 |
| Date: September 2022 |
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Abstract

Proposed draft text for enhancements to TID mapping.

The submission proposes text changes to resolve the following CIDs

11936, 10821, 10822, 11279, 11006, 11007, 11280, 11008, 11963, 11009,

11153, 11937, 11010, 11012

# Revision History

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| **Date** | **Revision** | **Changes** |
| 2022-09-19 | 0 | Initial draft |

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| **CID** | **Page** | **Line** | **Comment** | **Proposed Change** | **Proposed Resolution** |
| 11936 | 527 | 10 | I think at least the last cited reference here is out of place. Not certain what the two navs have to do with rules that apply to an operating band. | As in comment. | RevisedDiscussion: the sentence in P527L10 is based on the following sentence in 11ax spec for HE MCS, NSS, BW selection:*An HE STA is subject to**all of the rules for HT STAs and VHT STAs that apply to its operating band (see 10.27 (Protection mechanisms)).*In 10.27 various rules are defined about how to select the PPDU type, frame in the first frame exchange of a TXOP to protect the TXOP. For HE STA, 10.27.6 is added. The following is one of the sentence:*An HE STA operating in the 2.4 GHz band is subject to all of the rules for HT STAs that apply to that band,**except that a PPDU with the TXVECTOR parameter FORMAT set to HE\_SU, HE\_ER\_SU, HE\_MU or**HE\_TB may be substituted for a PPDU with the TXVECTOR parameter FORMAT set to HT\_MF.*26.2.4 should not be in the sentence.10.27.6 should be updated also.TGbe editor to make change in THIS DOCUMENT with tag 11936. |
| 10821 | 527 | 20 | Modify the UL HE MCS with UL EHT MCS | As in the comment. | Accpeted |

**10.27 Protection mechanisms**

***TGbe editor: Insert a new subclause at the end of 10.27 as follows(#11936)***

**10.27.x Protection rules for EHT STAs**

An EHT STA operating in the 2.4 GHz band is subject to all of the rules for HT STAs that apply to that band,

except that a PPDU with the TXVECTOR parameter FORMAT set to EHT\_MU or

EHT\_TB may be substituted for a PPDU with the TXVECTOR parameter FORMAT set to HT\_MF.

An EHT STA operating in the 5 GHz band is subject to all of the rules for VHT STAs that apply to that band,

except that a PPDU with the TXVECTOR parameter FORMAT set to EHT\_MU or

EHT\_TB may be substituted for a PPDU with the TXVECTOR parameter FORMAT set to VHT.

Additionally, an EHT STA can use the MU-RTS/CTS frame exchange procedure.

35.15.3 MCS, NSS, BW selection

***TGbe editor: Change 2nd paragraph in 35.15.3 as follows(#11936)***

An EHT STA that transmits an EHT PPDU to a receiving STA shall use an <EHT-MCS, NSS> tuple that is supported by the receiving STA as indicated by the Supported EHT-MCS And NSS Set field in the EHT Capabilities element that the receiving STA transmits. If the Supported EHT-MCS and NSS set of the receiving STA or STAs is not known, the transmitting STA shall transmit using a <EHT-MCS, NSS> tuple in the basic EHT-MCS and NSS set if the basic EHT-MCS and NSS set is not empty, otherwise the transmitting STA shall transmit using a <EHT-MCS, NSS> tuple in the mandatory EHT-MCS and NSS set. An EHT STA is subject to all of the rules for HT STAs and VHT STAs that apply to its operating band (see 10.27 (Protection mechanisms)).

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| **CID** | **Page** | **Line** | **Comment** | **Proposed Change** | **Proposed Resolution** |
| 10822 | 527 | 41 | We don't define the "20MHz only" as a channel bandwidth. Delete the word " only" after that 20 MHzDitto P527L53 and P527L62Ditto P528L33 and P528L36 | As in the comment. | RevisedDiscussion: 20 MHz only at P527L62 and P528L36 is used to identify the MCS, Nss aupport of 20MHz only EHT STA.They are correct since 20MHz only EHT STA’s EHT MCS, Nss support is defined by a separate format.The other two places should be updated per the comment.TGbe editor: Change “less than or equal to 20 MHz only, 80 MHz, 160 MHz PPDUs or 320 MHz PPDUs” at P527L51 and P527L62 to “equal to 20 MHz, less than or equal to 80 MHz, less than or equal to 160 MHz PPDUs, less than or equal to 320 MHz PPDUs” |
| 11279 | 527 | 49 | Requirement is not clear: "less than or equal to 20MHz only"? Less then which element in the list of values given here? | Clarify | RevisedTGbe editor: please change the related sentence as indicated for CID 10822. |
| 11006 | 528 | 3 | Incorrect reference. As this subclause is for EHT, please refer to 9.4.2.313.4. | As in comment | RevisedTGbe editor: change “9.4.2.248.4 (Supported HE-MCS And NSS Set field)” at L528L3 to “9.4.2.313.4 (**Supported EHT-MCS And NSS Set field**)” |
| 11007 | 528 | 9 | It looks better to refer to the subclause on Operating Mode field or the equation thereSimilarly, please refer to the subclauses for HE/EHT OM control fields in the next two bullets. | As in comment | RejectedDiscussion: The bullets referrred by the commenter refers to subclause 9.4.2.313.4. 9.4.2.313.4 (Supported EHT-MCS And NSS Set field) defines the EHT MCS per HE/EHT OM Control field in P246L37 etc. |
| 11280 | 528 | 32 | Requirement is not clear: "less than or equal to 20MHz only"? Less then which element in the list of values given here? | Clarify | RevisedTGbe editor: please change the related sentence as indicated for CID 10822. |
| 11008 | 528 | 47 | Typo: need to replace "on receive" with "on transmit" and to refer to the subclause on the Supported EHT-MCS And NSS Set field of 9.4.2.313.4. | As in comment | RevisedTGbe editor: change “on receive as defined in 9.4.2.248.4 (Supported HE-MCS And NSS Set field)” at P528L47 to “on tranmsit as defined in 9.4.2.313.4 (Supported EHT-MCS And NSS Set field)” |

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| **CID** | **Page** | **Line** | **Comment** | **Proposed Change** | **Proposed Resolution** |
| 11963 | 529 | 24 | EHT MU PPDU will allocate RU for group frame transmission to a non-associated STA. The RU should be limited as listed in the clause, there is no need to limit the EHT MU PPDU. | Please change the EHT TXVector parameters to be RU parameters of the RU that contains group addressed PPDU to non-associated STA with the values provided in the clause. | RejectedDiscussion: this subclause addresses the case of EHT MU PPDU whose TXVECTOR has EHT\_PPDU\_TYPE equal to 1. |
| 11009 | 529 | 46 | The rules seem to be applicable also to RUs. Suggest to replace MRU with RU throughput this subclause to be more general | As in comment | RevisedDiscussion: the MRU should be multiple RUs.TGbe editor: change MRU to RU through the subclause (P529L46, P529L50, P529L53) |
| 11153 | 529 | 46 | I don't see anything in this subclause which is specific to an MRU. | Either \* Change "EHT MU PPDU with MRUs" to "EHT MU PPDU with RUs" at P529L46/50, or \* Add explanation on why this section is specific to the case of using MRU. | RevisedDiscussion: the MRU should be multiple RUs.TGbe editor: change MRU to RU through the subclause (P529L46, P529L50, P529L53) |
| 11937 | 529 | 46 | It is not clear to me what does this subclause have to do with MRUs. Isnt this subclause supposed to cover the case that the broadcast RU is wihtin an EHT MU PPDU? | As in comment. | RevisedTGbe editor: change MRU to RU through the subclause (P529L46, P529L50, P529L53) |
| 11010 | 529 | 55 | Typo: HE MU PPDU needs to be replaced with EHT MU PPDU | As in comment | Accepted |
| 11012 | 530 | 11 | Typo: HE Capabilities needs to be replaced with EHT Capabilities. | As in comment | Accepted |