IEEE P802.11  
Wireless LANs

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| **TGbe Comment Resolutions for CID 3165** |
| **Date:** 2021-05-10 |
| **Author(s):** |

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Abstract

This submission proposes resolutions for the comment of CID 3165:

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 TGbe D0.3 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbe D0.4 Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

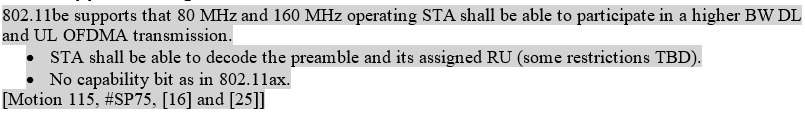
***TGbe Editor: Editing instructions preceded by “TGbe Editor” are instructions to the TGbe editor to modify existing material in the TGbe draft. As a result of adopting the changes, the TGbe editor will execute the instructions rather than copy them to the TGbe Draft.***

#### *CID 3165*

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** |
| 3165 | 36.3.2.2 | 183.53 | "An EHT AP shall be able to allocate an RU or MRU on a 20 MHz channel within the BSS bandwidth in a 40 MHz, 80 MHz, 160 MHz, or 320 MHz EHT MU or EHT TB PPDU to a 20 MHz operating non-AP EHT STA."  This is up to the AP's scheduler. | Change "An EHT AP shall be able to allocate" to "An EHT AP may allocate". Similar change at P184L10 and P184L32. |

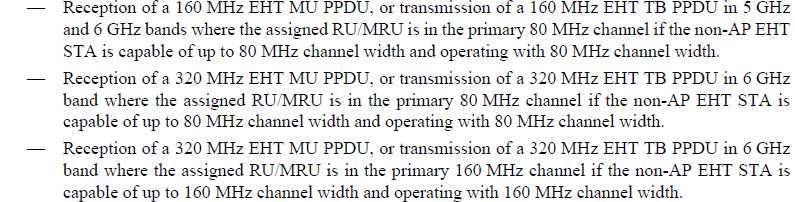
**Discussion**

From the non-AP EHT STA perspective, the following motion was passed.

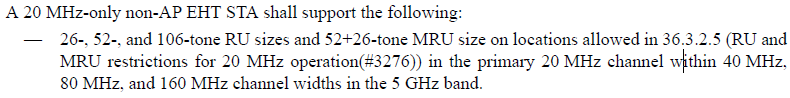


Based on the motion above, D0.4 states the following.





Also, for 20 MHz operating non-AP EHT STA, D0.4 states the following.



However, whether the EHT AP’s support for 20 / 80 / 160 MHz operating non-AP EHT STA in a wider bandwidth is mandatory or optional has not determined yet. To resolve CID 3165, we need to decide it, and thus, provide two options as follows.

Option 1: Similar to the non-AP EHT STA, EHT AP’s support for 20 / 80 / 160 MHz operating non-AP EHT STA in a wider bandwidth DL and UL OFDMA transmission is mandatory, i.e., keep the original sentence.

An EHT AP shall be able to allocate an RU (see 36.3.2.1 (Subcarriers and resource allocation for wideband)) or MRU (see 36.3.2.3 (Subcarriers and resource allocation for multiple RUs)) on a 20 MHz channel within the BSS bandwidth in a 40 MHz, 80 MHz, 160 MHz, or 320 MHz EHT MU or EHT TB PPDU to a 20 MHz operating non-AP EHT STA.

Option 2: EHT AP’s support for 20 / 80 / 160 MHz non-AP EHT STA in a wider bandwidth is optional and it is depending on the AP’s scheduler, i.e., modify the corresponding sentence as the commenter suggests.

An EHT AP may allocate an RU (see 36.3.2.1 (Subcarriers and resource allocation for wideband)) or MRU (see 36.3.2.3 (Subcarriers and resource allocation for multiple RUs)) on a 20 MHz channel within the BSS bandwidth in a 40 MHz, 80 MHz, 160 MHz, or 320 MHz EHT MU or EHT TB PPDU to a 20 MHz operating non-AP EHT STA.

For reference,

IEEE SA Standards Style Manual (<https://mentor.ieee.org/myproject/Public/mytools/draft/styleman.pdf>) states

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| **9. Standard language i.e., shall, should, may, and can**  Mandatory requirements set within an IEEE standard are clearly distinguished by using specific standard verbs—specifically, shall, should, may, and can.  *Shall, should, may,* and *can* are defined in 6.4.7 of the *IEEE SA Standards Board Operations Manual*.  The word *shall* indicates mandatory requirements strictly to be followed in order to conform to the standard and from which no deviation is permitted (*shall* equals *is required to*).  Note that the word *must* is deprecated and shall not be used when stating mandatory requirements; *must* is used only to describe unavoidable situations. The word *will* is deprecated and shall not be used when stating mandatory requirements; *will* is only used in statements of fact.  The word *should* indicates that among several possibilities, one is recommended as particularly suitable without mentioning or excluding others; or that a certain course of action is preferred but not necessarily required (*should* equals *is recommended that*).  The word *may* is used to indicate a course of action permissible within the limits of the standard (*may* equals *is permitted to*).  The word *can* is used for statements of possibility and capability, whether material, physical, or causal (*can* equals *is able to*) |

SP: Which option do you prefer?

Option 1 / Option 2 / Abstain

If the majority is in favor of Option 1

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| **Resolution** |
| Rejected  We agreed that EHT AP’s support for 20 / 80 / 160 MHz operating non-AP EHT STA in a wider bandwidth DL and UL OFDMA transmission is mandatory in 21/0786r0. |

If the majority is in favor of Option 2

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| **Resolution** |
| Accepted. |

*TGbe Editor: Please make the following changes in the third paragraph of 36.3.2.2 Support of wide bandwidth OFDM operationg of D0.4:*

An EHT AP may(#3165) allocate an RU (see 36.3.2.1 (Subcarriers and resource allocation for wideband)) or MRU (see 36.3.2.3 (Subcarriers and resource allocation for multiple RUs)) on a 20 MHz channel within the BSS bandwidth in a 40 MHz, 80 MHz, 160 MHz, or 320 MHz EHT MU or EHT TB PPDU to a 20 MHz operating non-AP EHT STA.

*TGbe Editor: Please make the following changes in the seventh paragraph of 36.3.2.2 Support of wide bandwidth OFDM operationg of D0.4:*

An EHT AP may(#3165) allocate an RU (see 36.3.2.1 (Subcarriers and resource allocation for wideband) or MRU (see 36.3.2.3 (Subcarriers and resource allocation for multiple RUs)) on one 80 MHz channel within the BSS bandwidth in a 160 MHz or 320 MHz EHT MU or EHT TB PPDU to an 80 MHz operating non-AP EHT STA.

*TGbe Editor: Please make the following changes in the eleventh paragraph of 36.3.2.2 Support of wide bandwidth OFDM operationg of D0.4:*

An EHT AP may(#3165) allocate an RU or MRU on the primary 160 MHz channel within the BSS bandwidth in a 320 MHz EHT MU or EHT TB PPDU to a 160 MHz operating non-AP EHT STA.