IEEE P802.11  
Wireless LANs

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| Proposed Draft Text Change:  Removing non-contiguous PPDU in D0.1 | | | | |
| Date: 2020-11-19 | | | | |
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Abstract

This submission proposed the draft text change to remove all text related to 80+80 and 160+160 modes in TGbe D0.1.

The proposal is based on motion 137:

* 802.11be defines only PPDU with contiguous signal bandwidth, including 20 MHz, 40 MHz, 80 MHz, 160 MHz, and 320 MHz.
* NOTE – Noncontiguous 80+80 MHz and 160+160 MHz are not defined.

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Highlight instructions to TGbe Editor.
* Rev 2: Remove redundant instruction to editor.

TGbe Editor: At P45L11:

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| Set to 3 for 160 MHz EHT BSS bandwidth.  Set to 4 for 320 MHz EHT BSS bandwidth |

TGbe Editor: At P125L26, make the following change, and remove the RED font color.

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| The PHYCONFIG\_VECTOR carried in a PHY-CONFIG.request primitive for an EHT PHY contains a CHANNEL\_WIDTH parameter, which identifies the operating channel width and takes one of the value 20 MHz, 40 MHz, 80 MHz, 160 MHz and 320 MHz. |

TGbe Editor: At P125L39

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| The PHYCONFIG\_VECTOR carried in a PHY-CONFIG.request primitive for an EHT PHY contains a CENTER\_FREQUENCY\_SEGMENT parameter, which identifies the center frequency of the channel and takes a value between 1 and 255. The PHY shall set dot11CurrentChannelCenterFrequencyIndex0 to the value of this parameter. |

TGbe Editor: At P131L47

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| For an EHT PPDU using non-OFDMA transmission:  — The tone plan of an 80/160 MHz EHT PPDU is identical to that of HE PHY defined in Clause 27 (High Efficiency (HE) PHY specification), with the exception of pilot locations and the exception of any punctured 80 MHz segment.  — The tone plan of a 160 MHz EHT PPDU is used for both the primary and secondary 160 MHz channels within a 320 MHz EHT PPDU. |

TGbe Editor: Change “160 MHz, 80+80 MHz (TBD), 320 MHz, and 160+160 MHz (TBD)” to “160 MHz and 320 MHz” at

P138L46  
P138L55  
P138L60  
P139L3  
P139L9  
P139L13  
P139L15  
P139L21  
P139L27  
P139L32

TGbe Editor: Change “320 MHz and 160+160 MHz (TBD)” to “320 MHz” at

P139L35

TGbe Editor: Change “320 MHz or 160+160 MHz (TBD)” to “320 MHz” at

P139L37  
P139L39  
P139L45  
P139L49  
P139L54

TGbe Editor: Change “320/160+160 (TBD)” to “320” at

P144L35  
P145L1  
P145L2  
P145L33  
P145L37  
P145L38  
P145L43  
P145L44  
P145L57  
P145L61  
P145L64  
P146L5  
P146L6  
P146L28  
P147L1  
P147L3  
P147L31  
P147L32  
P147L36  
P148L1  
P148L2  
P148L36  
P148L39  
P148L44  
P148L45  
P148L61  
P149L1  
P149L7  
P149L8  
P149L31  
And other locations which the reviewer may have missed requiring the same change.

TGbe Editor: Change “160/80+80 (TBD)” to “160” at

P146L41  
P147L1  
P147L3  
P147L6  
P147L11  
P147L13  
P147L27  
P147L32  
And other locations which the reviewer may have missed requiring the same change.

TGbe Editor: Delete P159L33 – P160L35

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TGbe Editor: Delete P165L44

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Delete “or a noncontiguous 80+80MHz transmission (TBD)” at P170L32

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Delete “or a noncontiguous 160+160MHz transmission (TBD)” at P170L38

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TGbe Editor: Update 36.3.10.3 as shown below.

* Channel frequencies

Let

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where dot11CurrentChannelCenterFrequencyIndex0 and dot11CurrentPrimaryChannel are defined in Table 36-15 (Fields to specify EHT channels).

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| * Fields to specify EHT channels | |
| Field | Meaning |
| dot11CurrentChannelWidth | Channel width.  Possible values represent 20 MHz, 40 MHz, 80 MHz, 160 MHz and 320 MHzchannels. |
| dot11CurrentChannelCenterFrequencyIndex0 | For a 20 MHz, 40 MHz, 80 MHz, 160 MHz, or 320 MHz channel, it denotes the channel center frequency.  Valid range is 1 to 200 for 5 GHz band, and 1 to 253 for 6 GHz band. |
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| dot11CurrentPrimaryChannel | Denotes the location of the primary 20 MHz channel.  Valid range is 1 to 200 for 5 GHz band, and 1 to 253 for 6 GHz band. |

When dot11CurrentChannelWidth is 20 MHz, 40 MHz, 80 MHz, or 160 MHz, the relationship between  and  is specified in Equation  (21-5) in 21.3.7.3 (Channel frequencies)

When dot11CurrentChannelWidth is 320 MHz,  and  shall have the relationship specified in Equation (36-5).



where

*N*20MHz = 16

 is an integer with possible range .

When dot11CurrentChannelWidth is 40 MHz, 80 MHz, 160 MHz or 320 MHz, the relationship between  and  is specified in Equation (21-6), and the relationship between  and  is specified Equation (21-7) in 21.3.7.3 (Channel frequencies).

When dot11CurrentChannelWidth is 80 MHz, 160 MHz, or 320 MHz, the relationship between  and  is specified in Equation (21-8), and the relationship between  and  are specified in Equation (21-9) in 21.3.7.3 (Channel frequencies).

When dot11CurrentChannelWidth is 160 MHz, or 320 MHz, the relationship between  and  are specified in Equation (21-10) in 21.3.7.3 (Channel frequencies).

When dot11CurrentChannelWidth is 320 MHz,

* The primary 160 MHz channel is the channel with 160 MHz bandwidth centered at  MHz, where  is given in Equation (36-6).
* The secondary 160 MHz channel is the channel with 160 MHz bandwidth centered at  MHz, where  is given in Equation (36-7)
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where .

TGbe Editor: In Table 36-16 in P173, delete the rows for 80+80 MHz and 160+160 MHz. And remove the Editor’s Note after the Table.

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TGbe Editor: At P177L38, delete “CBW80+80”, “EHT-CBW-PUNC80+80”, “CBW160+160” and “EHT-CBW-PUNC160+160”.

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At P178L58

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| For pre-EHT modulated fields,  is defined as in 21.3.7.5 (Definition of tone rotation) for 20 MHz, 40 MHz, 80 MHz, and 160 MHz PPDU transmission, and in Equation (36-13) for 320 MHz PPDU transmission. |

TGbe Editor: Delete P179L14 – L33

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TGbe Editor: Delete the rows for “CBW80+80”, “CBW160+160”, “EHT-CBW-PUNC80+80” and “EHT-CBW-PUNC160+160” from Table 36-18 at P179-180

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TGbe Editor: At P180L49, delete “and noncontiguos 160+160 MHz (TBD)”

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TGbe Editor: At P181L31, delete “or CBW80+80” and “or CWB160+160”. And delete the Editor’s Note at P181L38

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TGbe Editor: At P181L47, delete “and noncontiguous 160+160 MHz (TBD)”

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TGbe Editor: At P191L36, delete “or 80+80 MHz”. At P191L36, delete “or 160+160 MHz”

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TGbe Editor: Delete P210L62 – P211L13.

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TGbe Editor: Delete P211L24-38.

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TGbe Editor: Delete P212L18-33

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TGbe Editor: Delete P212L48-P213L7

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TGbe Editor: At P219L31, change “EHT 40/80/160/80+80/320/160+160 MHz (TBD)” to “EHT 40/80/160/320 MHz”.

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TGbe Editor: Change “160/80+80 (TBD) MHz and 320/160+160 (TBD) MHz” to “160 MHz and 320 MHz” at

P225L17  
P225L34

TGbe Editor: At P239L31

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| Editor’s Note: Per the author of 20/1351r5, the following paragraph is TBD.  For a user transmitting on the MRUs, the pilot subcarriers, mapping and values of MRUs shall follow the pilot subcarriers, mapping and values of each RU. |

TGbe Editor: At P251L58, delete “as well as 80+80 MHz and 160+160 MHz transmissions (TBD)”.

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TGbe Editor: At P253L30, delete “or 80+80 MHz (TBD)”

TGbe Editor: At P253L33, delete “or 160+160 MHz (TBD)”

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TGbe Editor: At P254L26, delete “For an 80+80 MHz or 160+160 MHz transmission, is the total number of data subcarriers in all 80 MHz frequency segments (TBD)”

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TGbe Editor: Delete P259 L16-21, L26-39.

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TGbe Editor: At P260L27, delete “or 80+80 MHz (TBD)” and “or 160+160 MHz (TBD)”

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TGbe Editor: Delete P261L13-50.

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TGbe Editor: Delete P262L53 – P263L33

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TGbe Editor: At P153L10

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| Figure 36-24 (Transmitter block diagram for the L-SIG, RL-SIG, and U-SIG fields for an EHT MU PPDU (TBD)) to Figure 36-31 (Transmitter block diagram for the Data field of an EHT single user transmission in RU/MRU size larger than 996 tone with LDPC encoding (TBD)) show example transmitter block diagrams. |

TGbe Editor: At P253L1

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| The transmit modulation accuracy test shall be performed by instrumentation capable of converting the transmitted signals into a stream of complex samples at sampling rate greater than or equal to the bandwidth of the signal being transmitted. |

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