IEEE P802.11  
Wireless LANs

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| Proposed Draft Text: Effect of CH\_BANDWIDTH parameter on PPDU format | | | | |
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Abstract

This submission shows

* Draft of 36.2.5 (Effect of CH\_BANDWIDTH parameter on PPDU format)

Revisions:

* Rev 0: Initial version of the document.

**36.2.5 Effect of CH\_BANDWIDTH parameter on PPDU format**

Table 36-x1 (Interpretation of FORMAT, NON\_HT\_MODULATION and CH\_BANDWIDTH parameters) shows the valid combinations of the FORMAT, NON\_HT\_MODULATION(#24306) and CH\_BANDWIDTH parameters and the corresponding PPDU format and value of CH\_OFFSET (if applicable). Other combinations are reserved.

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| Table 36-x1 Interpretation of FORMAT, NON\_HT\_MODULATION(#24306) and CH\_BANDWIDTH parameters | | | | |
| FORMAT | NON\_HT\_  MODULATION | CH\_BANDWIDTH | CH\_OFFSET | PPDU format |
| EHT\_MU, EHT\_TB | N/A | CBW20 | N/A | The STA transmits an EHT PPDU of 20 MHz bandwidth. If the BSS bandwidth is wider than 20 MHz, then the transmission shall use the primary 20 MHz channel. |
| EHT\_MU, EHT\_TB | N/A | CBW40 | N/A | The STA transmits an EHT PPDU of 40 MHz bandwidth. If the BSS bandwidth is wider than 40 MHz, then the transmission shall use the primary 40 MHz channel. |
| EHT\_MU, EHT\_TB | N/A | CBW80 | N/A | The STA transmits an EHT PPDU of 80 MHz bandwidth. If the BSS bandwidth is wider than 80 MHz, then the transmission shall use the primary 80 MHz channel. |
| EHT\_MU, EHT\_TB | N/A | CBW160 | N/A | The STA transmits an EHT PPDU of 160 MHz bandwidth. If the BSS bandwidth is wider than 160 MHz, then the transmission shall use the primary 160 MHz channel. |
| EHT\_MU, EHT\_TB | N/A | CBW320 | N/A | The STA transmits an EHT PPDU of 320 MHz bandwidth. |
| HT\_MF, HT\_GF, VHT, HE\_SU, HE\_MU, HE\_ER\_SU, HE\_TB | See Table 27-3 (Interpretation of FORMAT, NON\_HT\_MODULATION and CH\_BANDWIDTH parameters), Table 21-2 (Interpretation of FORMAT, NON\_HT\_MODULATION, CH\_BANDWIDTH, and CH\_OFFSET parameters), and Table 19-2 (Interpretation of FORMAT, CH\_BANDWIDTH and CH\_OFFSET parameters), | | | |
| NON\_HT | If INACTIVE\_SUBCHANNELS is not present, see Table 27-3 (Interpretation of FORMAT, NON\_HT\_MODULATION and CH\_BANDWIDTH parameters), Table 21-2 (Interpretation of FORMAT, NON\_HT\_MODULATION, CH\_BANDWIDTH, and CH\_OFFSET parameters) and Table 19-2 (Interpretation of FORMAT, CH\_BANDWIDTH and CH\_OFFSET parameters) | | | |
| NON\_HT | If INACTIVE\_SUBCHANNELS is present, see Table 36-x2 (Interpretation of CH\_BANDWIDTH and INACTIVE\_SUBCHANNELS parameters when FORMAT is equal to NON\_HT and NON\_HT\_MODULATION is equal to NON\_HT\_DUP\_OFDM) | | | |

Valid combinations of the CH\_BANDWIDTH and INACTIVE\_SUBCHANNELS parameters when FORMAT is NON\_HT and the corresponding PPDU and CH\_OFFSET (if applicable) are shown in Table 36-x2 (Interpretation of CH\_BANDWIDTH and INACTIVE\_SUBCHANNELS parameters when FORMAT is equal to NON\_HT and NON\_HT\_MODULATION is equal to NON\_HT\_DUP\_OFDM). Other combinations are reserved.

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| Table 36-x2 Interpretation of CH\_BANDWIDTH and INACTIVE\_SUBCHANNELS parameters when FORMAT is equal to NON\_HT and NON\_HT\_MODULATION is equal to NON\_HT\_DUP\_OFDM | | | |
| CH\_BANDWIDTH | INACTIVE\_SUBCHANNELS | CH\_OFFSET | PPDU format |
| CBW80 | All bits set to 1 except for the  four bits corresponding to the  primary 80 MHz channel, which are set to 0 | N/A | The STA transmits a non-HT PPDU(#24307) of 80 MHz bandwidth. If the BSS bandwidth is wider than 80 MHz, then the transmission shall use the primary 80 MHz channel. |
| CBW80 | TBD | N/A | The STA transmits a punctured non-HT PPDU(#24307) of 80 MHz bandwidth. If the BSS bandwidth is wider than 80 MHz, then the transmission shall use the primary 80 MHz channel. |
| CBW160 | All bits set to 1 except for the  eight bits corresponding to the  primary 160 MHz channel, which are set to 0 | N/A | The STA transmits a non-HT PPDU(#24307) of 160 MHz bandwidth. If the BSS bandwidth is wider than 160 MHz, then the transmission shall use the primary 160 MHz channel. |
| CBW160 | TBD | N/A | The STA transmits a punctured non-HT PPDU(#24307) of 160 MHz bandwidth. If the BSS bandwidth is wider than 160 MHz, then the transmission shall use the primary 160 MHz channel. |
| CBW320 | All bits set to 0 | N/A | The STA transmits a non-HT PPDU(#24307) of 320 MHz bandwidth. |
| CBW320 | TBD | N/A | The STA transmits a punctured non-HT PPDU(#24307) of 320 MHz bandwidth. |