IEEE P802.11
Wireless LANs

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| 11be Spec text for EHT BSS Operation |
| Date: 2020-08-20 |
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Abstract

We propose the draft specification skeleton for MLD to help the creation of TGbe draft D0.1.

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Update the document per the comments:
	+ Using operating channel width to replace BSS bandwidth
* Rev 2: Update the document per the comments in teleconference:
	+ Remove the CCFS related text.
	+ Rewrite the text about the HE BSS channel width

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| MAC | EHT BSS Operation | Liwen Chu | Guogang Huang, Po-kai Huang, Insun Jang, George Cherian, Mark Rison, Yonggang Fang, John Yi, Liuming Lu | Basics (R1) |  | Motion 112, #SP53Motion 112, #SP54 |

The texts is prepared for the following motions.

802.11be supports that in 6 GHz band, an EHT AP may announce different BSS operating bandwidth to non-EHT STAs than the BSS operating bandwidth it announces to EHT STAs when EHT BW covers disallowed 20 MHz channels and/or when the announced EHT BW is not supported by non-EHT amendments. The advertised BSS operating bandwidth to EHT STA shall include the advertised BSS operating bandwidth to non-EHT STA.

[Motion 112, #SP53, [13] and [95]]

802.11be supports defining an EHT operation element to indicate the channel configuration for EHT STA, which does not need to combine with the indication of CCFS0 and CCFS1 in HE operation elements at 6 GHz.

[Motion 112, #SP54, [13] and [172]]

**Proposed spec text:**

The baseline for this text is 802.11 REVmd draft 3.4, 802.11ax D6.0.

33. Extreme High Throughput (EHT) MAC specification

***TGbe editor: Add new a subclause 33.x*. (EHT BSS 6GHz Operation) *under clause 33x as follows:***

**33.x EHT BSS Operation**

**33.x.y EHT BSS 6GHz Operation**

In 6 GHz band, an EHT 6 GHz AP may announce to non-EHT 6 GHz STAs a BSS operating channel width that is different from the BSS operating channel width that it announces to EHT 6 GHz non-AP STAs if the EHT BSS operating channel width includes at least one disallowed 20 MHz channel and/or if the announced EHT BSS operating channel width is not supported by an HE BSS.

An EHT 6 GHz AP shall announce the BSS operating channel width in HE Operating element with the following restriction:

* The announced BSS operating channel width in HE Operating element is the widest width without covering the disallowed 20MHz channels.
* The announce BSS operating channel width in HE Operating element is no more than the BSS operating channel width in EHT Operating element.
* The announced BSS operating channel width in HE Operating element is no more than 160MHz.

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