IEEE P802.11
Wireless LANs

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| --- |
| EHT Operation element |
| Date: 2020-08-25 |
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Abstract

Spec text proposal for 11be D0.1

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Revision based on the feedback received offline.
* Rev 2: Changed based on feedback when presented in 2020-09-10
* Rev 3: Changed based on feedback when presented in 2020-09-14
1. **Introduction**

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 Draft. The introduction and the explanation of the proposed changes are not part of the adopted material.

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

Motions captured:

802.11be supports defining an EHT Operation element with the following fields to indicate 320/160+160 MHz BSS bandwidth:

Channel Width field

CCFS field

[Motion 111, #SP0611-25, [13] and [171]]

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]]

1. **Proposed spec text**

***TGbe editor: Insert the new subclause 9.4.2.xxx EHT Operation element as follows:***

9.4.2.xxx EHT Operation Element

The operation of EHT STAs in an EHT BSS is controlled by the following:

— The HT Operation element, HE Operation element and the EHT Operation element if operating in the 2.4 GHz band

— The HT Operation element, VHT Operation element (if present), HE Operation element and the EHT Operation element if operating in the 5 GHz band

— The HE Operation element and the EHT Operation element if operating in the 6 GHz band

The format of the EHT Operation element is shown in Figure xxx (EHT Operation element format).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Element ID | Length | Element ID Extention | EHT Operation Information |
| Octets: | 1 | 1 | 1 | TBD |

**Figure xxx – EHT Operation element**

The Element ID, Length, and Element ID Extension fields are defined in 9.4.2.1 (General).

The EHT STA gets the channel configuration information from the EHT Operation element if operating in the 6 GHz band. The subfields of EHT Operation Information field are defined in Table 9-xxx (EHT Channel Configuration Information subfields).

**Table 9-xxx- EHT Operation Information subfields**

|  |  |  |
| --- | --- | --- |
| Subfield | Definition | Encoding |
| Channel Width | This field defines the EHT BSS bandwidth. | Set to 0 for 20 MHz EHT BSS bandwidth.Set to 1 for 40 MHz EHT BSS bandwidth.Set to 2 for 80 MHz EHT BSS bandwidth.Set to 3 for 160/80+80 MHz EHT BSS bandwidth. Set to 4 for 320/160+160 MHz EHT BSS bandwidth. Other values are reserved. |
| CCFS | TBD | TBD |
| TBD | TBD | TBD |