IEEE P802.11
Wireless LANs

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| Ranging Parameters Element 320 MHz support  |
| Date: 2023-07-11 |
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Abstract

This submission proposes amendment text to add 320 MHz EHT format to the Ranging Parameters element Format and Bandwidth subfield, changes are relative to Draft P802.11be\_D3.0 and partially based on IEEE802.11az-2022

Revisions:

1. Fix underline

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 TGax Draft. This introduction is not part of the adopted material.

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

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

**The text preceded by “Discussion” is not part of the adopted changes.**

1. 9.4.2.298 Ranging Parameters element
2. ***TGbk Editor: Change the following table and text in subclause 9.4.2.298 on page 74:***

The Format And Bandwidth subfield indicates the requested or allocated PPDU format and bandwidth used to transmit the I2R/R2I NDP exchange as part of the non-TB ranging, or TB ranging measurement exchange; see 11.21.6.4.3 (TB ranging measurement exchange) and 11.21.6.4.4 (Non-TB ranging measurement exchange). The encoding of this subfield is given in Table 9-322h23fb (Format And Bandwidth subfield).

1. Table 9-322h23fb—Format And Bandwidth subfield

|  |  |  |
| --- | --- | --- |
| Field value | Format | Bandwidth |
| 0 | HE | 20 |
| 1 | HE | 40 |
| 2 | HE | 80 |
| 3 | HE | 80+80 |
| 4 | HE (two separate RF LOs) | 160 |
| 5 | HE (single RF LO) | 160 |
| 6 | EHT (single RF LO) | 320 |
| ~~6~~7-63 | Reserved | Reserved |

The field values’ of 3, 4 and 5 specifies the STA support for 160 MHz operation as either 80+80, 160 two-LO or 160 single-LO respectively in addition to supporting 80, 40 and 20 MHz bandwidths (e.g., field value of 5 does not mean the device supports all 160 MHz options but rather 160 MHz single LO).

The field value of 6 specifies the STA support for 320 MHz operation as 320 MHz single-LO using EHT format in addition to supporting 160 single-LO, 80, 40 and 20 MHz bandwidths in HE format.