IEEE P802.11
Wireless LANs

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| EHT LTFVECTOR  |
| Date: 2023-05-16 |
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Abstract

This submission proposes amendment text to add an EHT LTFVECTOR, changes are relative to Draft P802.11be\_D3.0 and partially based on IEEE802.11az-2022

Revisions:

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.**

**Discussion:**

Add LTFVECTOR to EHT PHY similar to HE PHY in IEEE802.11az-2022.

1. ***TGbk Editor: Insert the following subclause at the end of the 36.2.3:***
2. 36.2.3a LTFVECTOR parameters
3. The LTFVECTOR is carried in a PHY-RXLTFSEQUENCE.request for the PHY of a STA to receive an EHT Ranging NDP or an EHT TB Ranging NDP. The parameters in Table 36-2a (LTFVECTOR parameters) are defined as part of the LTFVECTOR parameter list in the PHY-RXLTFSEQUENCE.request primitive.

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| Table 36-2a—LTFVECTOR parameters |
| Parameter | Value |
| LTF\_NSTS | Indicate the number of space-time streams in the following EHT Ranging NDP or the following EHT TB Ranging NDP.  |
| LTF\_REP | Indicate the number of EHT-LTF repetitions in the following EHT Ranging NDP or the following EHT TB Ranging NDP.  |
| SECURE\_LTF\_FLAG | Set to one when the EHT Ranging NDP or EHT TB Ranging NDP uses secure EHT-LTF. |
| LTF\_KEY | Included when SECURE\_LTF\_FLAG is set to one.Contains the *rsta-ltf-key* or *ista-ltf-key* (See [11.21.6.4.5.4](#H11o21o6o4o5o4) (Overview of secure LTF octet stream generation)) when receiving the secure EHT-LTFs .  |
| LTF\_IV | Included when SECURE\_LTF\_FLAG is set to one.Contains the *ltf-iv* (See [11.21.6.4.5.4](#H11o21o6o4o5o4) (Overview of secure LTF 0ctet stream generation)) for secure EHT-LTFs or null otherwise.  |
| LTF\_OFFSET | Included when SECURE\_LTF\_FLAG is set to one.Indicates the number of EHT-LTF to skip before beginning to process the EHT-LTF symbols.  |
| TX\_WINDOW\_FLAG | Included when SECURE\_LTF\_FLAG is set to one.Set to one when the secure EHT-LTF of an EHT Ranging NDP or EHT TB Ranging NDP will use the optional frequency domain Tx Window.  |