IEEE P802.11
Wireless LANs

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| **LB266 Comment Resolutions for 36.3.12.9 EHT-STF** |
| **Date:** 2022-07-10 |
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Abstract

This submission proposes a resolution for the following 3 CIDs:

10758, 11289, 11364

Revisions:

* Rev 0: Initial version of the document.

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 D2.0 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbe D2.0 Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

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

#### *CID 10758, 11289, 11364*

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 10758 | 36.3.12.9 | 692.54 | The M notation is not defined up to this point although it is defined in Equation (27-22). For better readability, a pointer is needed. | Add "where M is defined in Equation (27-22)." immediately following Equation (36-29). | RevisedTGbe editor to make the changes shown in 11-22/1031r1. |
| 11289 | 36.3.12.9 | 692.54 | "M" appears to be undefined | Define M, or provide reference | RevisedTGbe editor to make the changes shown in 11-22/1031r1.Note - Resolution is the same as that of CID 10758. |
| 11364 | 36.3.12.9 | 692.02 | Move the sentence "M seqeuence is defined to" after P692L56 where the M seqeunce is discussed | as in the comment | RevisedTGbe editor to make the changes shown in 11-22/1031r1.Note - Resolution is the same as that of CID 10758. |

*TGbe Editor: Please make the following changes in Section 36.3.12.9 of D2.0:*

**36.3.12.9 EHT-STF**

The main purpose of the EHT-STF field is to improve automatic gain control estimation in a MIMO transmission. The EHT-STF field is positioned immediately after the EHT-SIG field for EHT MU PPDU. The EHT-STF field is positioned immediately after the U-SIG field for EHT TB PPDU. The duration of the EHT-STF field for EHT MU PPDU is *T*EHT-STF-NT (periodicity of 0.8 μs with 5 periods as given in Table 36-18 (Timing-related constants)) and the duration of the EHT-STF field for EHT TB PPDU is *T*EHT-STF-T (periodicity of 1.6 μs with 5 periods as given in Table 36-18 (Timing-related constants)).

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For a 320 MHz transmission, the frequency domain sequence for EHT MU PPDU is given by Equation (36-29)

 *EHTS*-2032:16:2032 (36-29)

 = {*M*, 1, -*M*, 0, -*M*, 1, -*M*, 0, *M*, 1, -*M*, 0, -*M*, 1, -*M*, 0,

 -*M*, -1, *M*, 0, *M*, -1, *M*, 0, -*M*, -1, *M*, 0, *M*, -1, *M*} x (1+j)/$(\sqrt{2})$

where *M* is defined by Equation (27-22).

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For a 320 MHz transmission, the frequency domain sequence for EHT TB PPDU is given by Equation (36-34)

*EHTS*-2040:8:2040 (36-34)

= {*M*, -1, *M*, -1, -*M*, -1, *M*, 0, -*M*, 1, *M*, 1, -*M*, 1, -*M*, 0, *M*, -1, *M*, -1, -*M*, -1,

 *M*, 0, -*M*, 1, *M*, 1, -*M*, 1, -*M*, 0, -*M*, 1, -*M*, 1, *M*, 1, -*M*, 0, *M*, -1, -*M*, -1,

 *M*, -1, *M*, 0, -*M*, 1, -*M*, 1, *M*, 1, -*M*, 0, *M*, -1, -*M*, -1, *M*, -1, *M*} x (1+j)/$(\sqrt{2})$

where *M* is defined by Equation (27-22).

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