IEEE P802.11
Wireless LANs

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| Text change for usage of 1x EHT-LTF |
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Abstract

This submission proposed text change for 1x EHT-LTF usage in TGbe D0.4.

Revisions:

* Rev 0: Initial version of the document.

**Discussions:**

In page 383 of 11be draft 0.4, EHT-LTF type and GI duration combinations for various EHT PPDU formats are described.



We can see 1× EHT-LTF and 1.6 μs GI is mandatory for EHT TB PPDU and 1× EHT-LTF and 1.6 μs GI only for non-OFDMA transmisisons.

We introduced the 1× EHT-LTF because it is useful in UL MU-MIMO. But 1× EHT-LTF hurts performance for a single STA transmission. That is why for OFDMA case, 1× EHT-LTF is diallowed.

To achieve better performance and simplying the implementation, we suggest to also forbidding usage of 1× EHT-LTF and 1.6 μs GI for EHT TB PPDU for a single STA.

In 11ax specification, we can see 1× EHT-LTF and 1.6 μs GI is CM3.

“CM3 = Mandatory for full bandwidth UL MU-MIMO if the STA supports UL MU-MIMO. Otherwise, not supported. N/A for partial bandwidth UL MU-MIMO or UL OFDMA.”

To be consistent with 11ax specification, it is better to make 1× EHT-LTF and 1.6 μs GI only for UL-MU-MIMO too.

*TGbe Editor: Please make the following change in P383L39 in subclause 36.3.12.10 EHT-LTFof D0.4.*

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| NOTE— 1**×** EHT-LTF and 1.6 μs GI only for non-OFDMA transmission for two or more users.  |