IEEE P802.11
Wireless LANs

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| Clarification on Protected Fine Timing frame use |
| Date: Aug 05 2020 |
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Abstract

This submission proposes a small clarification about using protected fine time frames with various FTM modes.

**Revision Notes**

00 – Initial version

**References**

[1] IEEE P802.11-REVmd™/D3.3, May 2020

[2] P802.11az™/D2.2 – Amendment for Positioning

[3] Document 11-20/0797r0 - LMR/FTM Replay Counter

[4] Document 11-20/0889r5 – Protected LMR Counter

**Discussion**

Document 11-20/0889r3 was adopted by the 11az TG to provide for a replay counter specific fine timing frames and introduced Protected Fine Timing robust action frames. This submission proposes a small clarification about using protected fine time frames with various FTM modes viz: TB, NTB, EDCA DMG, EDCA EDMG, EDCA non-DMG or non-EDMG (11mc FTM).

The specific change proposed here was discussed and part of 11-20-0889r5 and needs to be applied to changes in 11-20-0889r3 that were motioned and adopted by the TG.

**Proposed Changes**

***TGaz Editor – Change the Fine Timing Measurement section as follows***

**11.22.6.3 Fine Timing Measurement procedure negotiation** 16

***Insert a new subclause heading 11.22.6.3.1 and move the first two and the fourth paragraph*** 17 ***(along with the note) of 11.22.6.3 to 11.22.6.3.1*** 18

**11.22.6.3.1 General**

*…*

***p116.22***

A Secure Fine Timing Measurement Session is established when an ISTA and an RSTA establish a security context and use it to …

~~An ISTA shall only initiate a Fine Timing Measurement Negotiation with a Protected Dual of Fine Timing Measurement Request frame for Trigger-Based, a non-Trigger-Based, or an EDCA based ranging measurement with a Format and Bandwidth field indicating DMG or EDMG format; see Table 9-281 (Format And Bandwidth field).~~

An ISTA shall not initiate FTM Negotiation with a Protected Fine Timing frame, i.e. setup a secure FTM session, unless the session is non-Trigger based or Trigger based or an EDCA based ranging measurement with a Format and Bandwidth field indicating DMG or EDMG  format (see Table 9-281 (Format And Bandwidth field)). Protected Fine Timing frames may be used with DMG and EDMG EDCA based ranging sessions.