IEEE P802.11  
Wireless LANs

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| Protected Fine Timing frames in State 1a | | | | |
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Abstract

This document contains a minor update to text adopted from 11-20-889r3 that introduced the Protected Fine Timing action frame category. It was intended to allow Protected Fine Timing frames for secure 11az TB and NTB ranging, but a change was missed.

The page and line numbers for proposed changes refer to those in 11az Draft 2.4.

**References**

[1] IEEE P802.11-REVmdTM/D3.4, July 2020

[2] IEEE P802.11az™/D2.4 October 2020

[3] IEEE P802.11ax™/D6.1 May 2020

**Discussion**

11-20-889r3 introduced the Protected Fine Timing action frame category. It was intended to allow Protected Fine Timing frames for secure 11az TB and NTB ranging, but a change was missed.

P802.11az Draft 2.4 has the following in § 11.3.3

A STA shall not transmit Class 2 frames unless in State 2 or State 3 or State 4. In State 1a, A STA shall not transmit Class 2 frames other than Unicast Protected Dual of Public Action frames. (#3522)

In order for secure TB and NTB ranging to be possible in unassociated state, Protected Fine Timing frames should be allowed in State 1a.

**Proposed Changes**

**TGaz Editor: Change § 11.3.3 p107.5-p107.7 as follows**

A STA shall not transmit Class 2 frames unless in State 2 or State 3 or State 4. In State 1a, A STA shall not transmit Class 2 frames other than Protected Fine Timing frames and Unicast Protected Dual of Public Action frames. (#**3522**)