IEEE P802.11
Wireless LANs

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| Misc text clarification |
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Abstract

This text proposes some minor bug fixes to draft 2.6.

Revisions:

* Rev 0: Initial version of the document.

**Discussion:**

1. The usage of the Protection of Range Negotiation and Measurement Management Frames Required field in the case of FTM session between two associated STAs is unclear. For the associated case, Management frame protection is overall dictated by the MFPR and MFPC bit setting. In addition, a combination where the Protection of Range Negotiation and Measurement Management Frames Required field is set to 1 while MFPR is set to 0 and vice versa has no significant value. As such, we can clarify that
* the Protection of Range Negotiation and Measurement Management Frames Required field is used only for the unassociated case.
* If this bit is set to 1 by an RSTA, then RSTA also sets the MFPR bit in RSN Capabilities to 1.
1. There is some ambiguity regarding whether an existing FTM session continues or is terminated when the ISTA becomes associated or disassociated from the RSTA. In particular, consider the case where an associated ISTA has an FTM session that’s protected by baseline PMF. However, once the ISTA becomes disassociated its not clear whether the FTM session should still be protected or not. As such we believe the simplest approach is to terminate an existing FTM session and renegotiate a new one at all such transition events.

**11.21.6.3 Fine Timing Measurement procedure negotiation**

**11.21.6.3.1 General**

TGaz Editor: Modify the paragraph starting on page 123 (line 29) as follows

If an RSTA has set the Protection of Range Negotiation and Measurement Management Frames
Required field in the RSNXE to 1, in the cases listed above, an ISTA that is not associated to the RSTA shall establish a security context with that RSTA prior to initiating a Fine Timing Measurement Procedure Negotiation with that RSTA. (#3236)

Furthermore, an RSTA shall reject a request in the cases listed above, if it has set the Protection of
Range Negotiation and Measurement Management Frames Required field of the RSNXE to 1, and
an ISTA that is not associated to it and has not successfully set up a security context to protect FTMR, FTM and LMR frames exchanged between the RSTA and the ISTA. The RSTA may accept the request in the cases not listed above. (#3940, #3236)

An RSTA shall set the Protection of Range Negotiation and Measurement Management Frames
Required field in the RSNXE to 1 only if it has set the MFPR bit to 1 in RSN Capabilities element.

TGaz Editor: Modify the paragraph starting on page 131 (line 9) as follows

An RSTA shall reject a request from an unassociated ISTA, unless the request is for Passive TB Ranging, if it has set the Protection of Range Negotiation and Measurement Management Frames Required field of the RSNXE (#3940) to 1, and the ISTA has not successfully set up a security context to protect IFTMR,
IFTM and LMR frames exchanged between the RSTA and the ISTA.

**11.21.6.6.2 TB Ranging and Non-TB Ranging session termination**

TGaz Editor: Add the following paragraph starting on page 187 (line 23) as follows:

When negotiation or measurements for an secure or non-secure FTM session are in progress, the FTM session shall automatically terminate if an association is initiated or terminated (See procedures in 11.3.5 (Association, reassociation, and disassociation)).

[place document body text here]

**References:**