IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Comment Resolution LB249 - CID 3236 | | | | |
| Date: 2020-08-06 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Christian Berger | NXP | 350 Holger Way, San Jose, CA |  | [Christian.berger@nxp.com](mailto:Christian.berger@nxp.com) |
| Erik Lindskog | Samsung |  |  | [e.lindskog@samsung.com](mailto:e.lindskog@samsung.com) |
| Nehru Bhandaru | Broadcom |  |  | [nehru.bhandaru@broadcom.com](mailto:nehru.bhandaru@broadcom.com) |
| Dibakar Das | Intel |  |  | [dibakar.das@intel.com](mailto:dibakar.das@intel.com) |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Abstract

This submission proposes a resolution to CID 3236

Revisions:

1. Some small modifications, move addressing Passive TB Ranging to a different subclause, adjust to TGaz Draft 2.4

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 TGax Draft. This introduction is not part of the adopted material.

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

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

**The text preceded by “Discussion” is not part of the adopted changes.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| **3236** | 120.13 | 11.22.6.3.3 | "An RSTA shall reject a request, unless the request is for Passive TB Ranging, if it has set the" - why is it any different for passive TB Ranging? If there is no PASN negotiated can't use secured, also why would any of this apply to passive? | Remove subclause "unless the request is for Passive TB Ranging" to keep text concise | **Revised**  TGaz editor, make the changes as depicted below in document 11-20/XXXX |
|  |  |  |  |  |  |

11.21.6.1.3 Passive TB Ranging overview

TGaz Editor: Modify the following paragraphs starting on page 115, line 24 of 11.21.6.1.3 (Passive TB Ranging overview) as follows:

(#1520, #1542, #1543, #1544, #1548, #1551, #1552, #1553, #1554, #1555, #1556, #1561, #1562,25 #1564, #1565, and #1574)

Passive TB Ranging is a variant of the TB Ranging mode referred to in 11.21.6 (Fine timing measurement (FTM) procedure). In all aspects, except where explicitly stated differently, the Passive TB Ranging mode, its protocols, procedures, components, and definitions follow the rules 1 for TB Ranging.

The rules and procedures related to the use of protected management frames and secure LTF in the TB Ranging protocol does not apply to Passive TB Ranging. (#3236)

11.21.6.3.1 General

TGaz Editor: Modify the following paragraphs starting on page 121, line 6 of 11.21.6.3.1 as follows:

If the ISTA and the RSTA are not associated, the security context is established using the Pre-Association Security Negotiation mechanism as defined in (12.12 Pre-Association Security Negotiation), and conditions to establish the context are defined below. (#3940)

A Secure Fine Timing Measurement Session is established when an ISTA and an RSTA establish a security context and use it to exchange the IFTMR, a Protected Fine Timing Measurement Request Action frame, and the corresponding IFTM, a Protected Fine Timing Measurement Action frame, in the Protected Fine Timing Frame Action format (see 9.6.35 (Protected Fine Timing Action Frame details)) and the negotiation completes successfully. (#3940) This applies to the following cases:

• a TB Ranging measurement exchange,

• a non-TB Ranging measurement exchange, or

• an EDCA based ranging measurement exchange with a Format and Bandwidth field indicating DMG or EDMG format; see Table 9-280 (Format And Bandwidth field). (#2523, #2524, #3572, #3577, #3626, #3236)

An ISTA shall not initiate a Fine Timing Measurement negotiation with a Protected Fine Timing Measurement Request Action frame, i.e. setup a Secure Fine Timing Measurement Session, unless attempting to negotiate one of the cases listed above. Protected Fine Timing frames may be used with DMG and EDMG EDCA based ranging sessions. (#2523, #2524, #3572, #3577, #TC1186r0, #3236)

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 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 the ISTA 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)