IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CR for Location | | | | |
| Date: 2019-03-10 | | | | |
| Author(s): | | | | |
| Name | Company | Address | Phone | Email |
| Girish Madpuwar | Broadcom | Electronic City, Bangalore India |  | [Girish.madpuwar@broadcom.com](mailto:Girish.madpuwar@broadcom.com) |
| Nehru Bhandaru | Broadcom | San Jose  CA, USA |  | [Nehru.bhandaru@broadcom.com](mailto:Nehru.bhandaru@broadcom.com) |

**Abstract**

This submission proposes resolutions of comments received from TGaz CC28.

* CIDs: 65

The comments are based on TGaz Draft 1.0

Revision 0: initial draft

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause Number** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 65 | 11.22.6.3.2 | 50 | It's not clear why the Secure LTF Required subfield set to 1 is optional if the capability exists, and it's not clear what happens if the RSTA requires Secure LTF but the ISTA doesn't (p. 51, line 1-8 appear to give the RSTA the responsibility to handle Secure LTF if it so desires or if it requested to do so?). | Require (make non-optional) Secure LTF? Power-to-the-RSTA should at least be considered/justified. | Accepted: more clarity added in section |

***CID 65:***

***TGaz Editor: Modify following text in Draft 1.0 Section ‘11.22.6.3.42 Secure LTF measurement setup’***

**11.22.6.3.42 Secure LTF measurement setup**

An ISTA and an RSTA may activate a secure LTF measurement exchange mode of the non-TB ranging and TB Ranging protocol for using randomized LTF sequences in an UL NDP and a DL NDP. In which case, the ISTA and the RSTA follow the rules described in the subclause 11.22.6.4a (Secure LTF Measurement Exchange Protocol).

An RSTA in which dot11SecureLTFImplemented is true shall set the Secure LTF Support field in the Extended Capabilities element to 1. An ISTA in which dot11SecureLTFImplemented is true shall set the Secure LTF Support field to 1 in the Ranging Parameters field in an initial Fine Timing Measurement Request frame.

When Secure LTF Required field in the Ranging Parameter field is set to 1, Secure LTF Support field shall be set to 1 in the Ranging Parameters field.

When an RSTA has set the Secure LTF Support field to 1 in the Extended Capabilities element it transmits, an ISTA with dot11SecureLTFImplemented equal to true may set the Secure LTF Support subfield in the Ranging Parameters field in an initial Fine Timing Measurement Request frame to 1 to activate a secure LTF measurement exchange mode between the ISTA and the RSTA.

When an RSTA has set the Secure LTF Support field to 1 in the Extended Capabilities element it transmits, an ISTA with dot11SecureLTFImplemented equal to true may set the Secure LTF Required subfield in the Ranging Parameters field in an initial Fine Timing Measurement Request frame to 1 to activate a secure LTF measurement exchange mode between the ISTA and the RSTA

When an ISTA has set the Secure LTF Support field to 1 in the Ranging Parameters field in an initial Fine Timing Measurement Request frame it transmits, an RSTA with dot11SecureLTFImplemented equal to true may set the Secure LTF Required subfield in the Ranging Parameters field in an initial Fine Timing Measurement frame to 1 to activate a secure LTF measurement exchange mode between the ISTA and the RSTA.

When an ISTA has set the Secure LTF Required field to 1 in the Ranging Parameters field in an initial Fine Timing Measurement Request frame it transmits, an RSTA with dot11SecureLTFImplemented equal to true shall set the Secure LTF Required subfield in the Ranging Parameters field in an initial Fine Timing Measurement frame to 1 to activate a secure LTF measurement exchange mode between the ISTA and the RSTA.

Secure LTF Parameters field in initial Fine Timing Measurement frame contains a new LTF Generation SAC and a new LTF Sequence Generation Information associated with the LTF Generation SAC when any of the following conditions is met:

— An RSTA received an initial Fine Timing Measurement Request frame where the Secure LTF Required subfield in the Ranging Parameters field in the received initial Fine Timing Measurement Request frame is equal to 1.

— An RSTA sets the Secure LTF Required subfield in the Ranging Parameters field in a transmitted initial Fine Timing Measurement frame to 1.

Measurement result SAC in Secure LTF parameter field is reserved in this initial Fine Timing Measurement frame.

When management frame protection is negotiatedfor TB and non-TB ranging negotiation, a STA shall use the Protected Dual of Public Action frames for an initial Fine Timing Measurement Request, an initial Fine Timing Measurement, and a Location Measurement Report.

An ISTA in which dot11SecureLTFImplemented is false ignores a Secure LTF Parameters if an initial Fine Timing Measurement frame and a Location Measurement Report frame carries the Secure LTF Parameters.