IEEE P802.11
Wireless LANs

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| Some LB 249 Passive TB Ranging CR – Part IV |
| Date: 2020-10-06 |
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Abstract

This document proposes resolutions to TGaz LB249 comments, for the most related to Passive TB Ranging. The changed described here are in relation to [1].

The TGaz LB249 CID addressed in this document is CID:

3658.

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| **CID** | **P.L** | **Clause** | **Comment** | **Proposed change** | **Proposed resolution** |
| 3658 | 127.43 | 11.22.6.3.8 | "In Passive TB Ranging, the transmission of the ISTA Passive TB Ranging Measurement Reportframe is mandatory. Therefore, the ISTA2RSTA LMR Feedback subfield in the Ranging Parameters field of the Ranging Parameters element in the initial Fine Timing MeasurementRequest frame, and in the initial Fine Timing Measurement frame is reserved. " -- the justification is not normative | Change to "The ISTA2RSTA LMR Feedback subfield in the Ranging Parameters field of the Ranging Parameters element in the initial Fine Timing MeasurementRequest frame and in the initial Fine Timing Measurement frame is reserved.NOTE---This is because in Passive TB Ranging, the transmission of the ISTA Passive TB Ranging Measurement Reportframe is mandatory." | Revised. Agree in principle with the commenter. TGaz editor, make the changes as shown below in document 11/20-1581. |

**Discussion to CID 3658:** Make changes in line with the commenter’s proposal.

***TGaz Editor: Change the text in Subclause 11.22.6.4.8.1 (General) in Subclause 11.22.6.4.8 (Measurement exchange in Passive TB Ranging mode) as follows:***

**11.22.6.4.8 Measurement exchange in Passive TB Ranging mode (#1807, #1808)**

**11.22.6.4.8.1 General**

As stated in 11.22.6.1.3 (Passive TB Ranging), the Passive TB Ranging mode is a variant of the TB ranging mode. In all aspects, except where explicitly stated differently, the Passive TB Ranging mode, its protocols, procedures, components, and definitions follow the rules for TB ranging mode. (#**1520**, #**1542**, #**1543**, #**1544**, #**1548**, #**1551**, #**1552**, #**1553**, #**1554**, #**1555**, #**1556**, #**1561**, #**1562**, #**1564**, #**1565**, #**1574**)

In particular the measurement exchanges for Passive TB Ranging follows the rules and procedures described in 11.22.6.4.3 (TB Ranging measurement exchange), with subclauses, unless explicitly stated otherwise.

Some of the exceptions for the Passive TB Ranging measurement session are:

- The RSTA sends the Passive TB Ranging subvariant Ranging Trigger frame instead of the TB Sounding Subvariant Ranging Trigger frame. Upon receiving of the Passive TB Ranging Subvariant Ranging Trigger frame, the ISTA shall respond with an HE Ranging NDP instead of an HE TB Ranging NDP; see 11.22.6.4.8.3 (Passive TB Ranging measurement sounding phase) for further details.

Also, in Passive TB Ranging, the RSTA is mandated to transmit an LMR Subvariant Ranging Trigger frame to trigger the ISTAs mandatory transmission of the ISTA Passive TB Ranging Measurement Report frames. See Figure 11-36s (Passive TB Ranging polling, measurement sounding, and measurement reporting phases). **(#3658)**

- The RSTA shall broadcast two frames, the Primus and Secundus RSTA Broadcast Passive TB Ranging Measurement Report frames containing measurement data and related information; see 11.22.6.4.8.4 (Passive TB Ranging measurement reporting phase) for further details.

The Passive TB Ranging exchanges occur in an availability window used for passive location.

***TGaz Editor: Change the text in Subclause 11.22.6.3.8 (Passive TB Ranging measurement negotiation) as follows:***

**11.22.6.3.8 Passive TB Ranging measurement negotiation**

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When requesting, or responding to a request for, Passive TB Ranging, the I2R LMR Feedback subfield in the Ranging Parameters field of the Ranging Parameters element in the IFTMR and IFTM frames, respectively, is reserved. **(#3658)**

NOTE---This is because in Passive TB Ranging, the transmission of the ISTA Passive TB Ranging Measurement Report frame is mandatory. See 11.11.6.4.8.4 (Passive TB ranging measurement reporting phase) **(#3658)**

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**References:**

**[1] Draft P802.11az\_D2.3**