IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 802.11  Resolution to CID 3578  (relative to IEEE 802.11 REVmd D3.0 and P802.11az D2.0) | | | | |
| Date: 2020-03-09 | | | | |
| Author(s): | | | | |
| Name | Company | Address | Phone | Email |
| Ganesh Venkatesan | Intel Corporation | 2111 NE 25th Ave, Hillsboro, OR 97124 | 503 334 6720 | [ganesh.venkatesan@intel.com](mailto:ganesh.venkatesan@intel.com) |
|  |  |  |  |  |

**Abstract**

This submission proposes a resolution to CID 3578.

History:

R0: Initial Version

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 3578 | 116.00 |  | 11.22.6.3.1 | There are various references to types of session being "Trigger-Based, non-Trigger-Based or Fine Timing Measurement session", but these types of session are not defined anywhere. Also, surely a vanilla/legacy FTM session is a non-TB session? | As it says in the comment | Revise.  Incorporate instructions in submission 11-20/0187 corresponding to CID #3578. |

Discussion: Agree with the commenter. There is no definition of the different types of ranging sessions. Propose to define the ranging session types in Cl. 11.22.6.3.1.

Resolution: Revise.

***TGaz Editor: Insert the following at P116L6 as shown below:***

A FTM session is characterized based on the measurement exchange that gets executed as part of the session. A FTM session can be one of the following types (#3578):

* EDCA based ranging session: The underlying measurement exchange procedure is as described in Cl. 11.22.6.4 (EDCA based ranging measurement exchange), If the corresponding Format And Bandwidth of the negotiated ranging session indicates a DMG or EDMG format (see. Table 9-281 Format And Bandwidth field), the ranging session is a DMG ranging or an EDMG ranging session respectively.

When a security context is established prior to the establishment of a EDMG ranging session and is used to negotiate the ranging session in which the Secure ToF measurement is activated, the session is termed a Secure EDMG ranging session. The corresponding measurement exchange is described in Cl. 11.22.6.4.2.1.6 (Secure measurement exchange for EDMG STAs),

When a security context is established prior to the establishment of a DMG or a EDMG ranging session and is used to negotiate the ranging session in which the Secure ToF measurement is activated, in which the Secure ToF measurement in not activated, the session is termed a Protected DMG or a Protected EDMG ranging session.

* Trigger based (TB) ranging session: The underlying measurement exchange procedure is as described in Cl. 11.22.6.4.3 (TB ranging measurement exchange). If the underlying measurement exchange is as described in Cl. 11.22.6.4.8 (Measurement exchange in Passive TB ranging mode) the ranging session is termed Passive TB ranging session. When a security context is established prior to the establishment of TB ranging session and is used to negotiate the ranging session
  + in which the Secure LTF measurement exchange is activated, the session is termed Secure TB ranging session,
  + in which the Secure LTF measurement exchange in not activated, the session is termed a Protected TB ranging session.
* Non-Trigger based (non-TB) ranging session: The underlying measurement exchange procedure is as described in Cl. 11.22.6.4.4 (non-Trigger based ranging measurement exchange). When a security context is established prior to the establishment of this type of ranging session and is used to negotiate the ranging session
  + In which the Secure LTF measurement exchange is activated, the session is termed Secure non-TB ranging session,
  + In which the Secure LTF measurement exchange is not activated, the session is termed a Protected non-TB ranging session.