IEEE P802.11
Wireless LANs

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| Comment Resolution for three CIDs |
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Abstract

This document proposes resolution for CID 7310, 7317, and 7322

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| **CID** | **Clause Number(C)** | **Page(C)** | **Line(C)** | **Comment** | **Proposed Change** | **Resolution** |
| 7310 | 11.21.6.3.4 | 136 | 16 | "the RSTA shall assign a secure LTF measurement exchange mode with the ISTA." - shall assign? Maybe if accepted? Also what is a secure LTF measurement exchange mode (definition?) | Change to "then the RSTA shall only assign a secure LTF measurement exchange mode with the ISTA." | Revised TGaz editor make the changes identified below in 11-22-0624-00-00az SA1 Comment resolution for three CIDs<https://mentor.ieee.org/802.11/dcn/21/11-22-0624-00-00az-sa1-comment-resolutions-for-three-cids>.docx |
| 7317 | 11.21.6.4.3.1 | 150 | 10 | "An RSTA shall not transmit a Ranging Trigger frame in a VHT MU PPDU or HE MU PPDU." - is this applicable to 6 GHz? Is transmission in non-HT format allowed in 6 GHz? | as per comment | Revised TGaz editor make the changes identified below in 11-22-0624-00-00az SA1 Comment resolution for three CIDs<https://mentor.ieee.org/802.11/dcn/21/11-22-0624-00-00az-sa1-comment-resolutions-for-three-cids>.docx |
| 7322 | 11.21.6.4.3.2 | 151 | 14 | "Any ISTA addressed by a User Info field in a TF Ranging Poll frame can request to participate in measurements in this availability window by responding with a CTS-to-self in an SMPDU within an HE TB PPDU (#1336) in its designated RU allocation as identified in the TF Ranging Poll frame;" - we imply that not responding means an ISTA does not request, but in baseline TF the STA does not have a choice if to reply or not, let's spell this out | Add a sentence "Conversely an ISTA shall not send any frame in its designated RU to indicate it will not participate in this availability window." | Revised TGaz editor make the changes identified below in 11-22-0624-00-00az SA1 Comment resolution for three CIDs<https://mentor.ieee.org/802.11/dcn/21/11-22-0624-00-00az-sa1-comment-resolutions-for-three-cids>.docx |

Discussion for CID 7310

The commenter is pointing out that the spec is not clear about RSTA behavior of only assigning Secure LTF operation when ISTA has included Secure LTF sublement in its Ranging Parameter element. My suggestion is not to use ‘shall only’ term as it is being avoided in the baseline spec and instead change the text accordingly to satisfy commenter’s concern.

**Resolution for CID 7310: TGaz editor change 802.11az D4.1 P.136 L.31-33 as follows:**

When an ISTA has included the Secure LTF subelement in the Ranging Parameters element in its IFTMR frame and set the value of the Secure LTF Required field to 1, then the RSTA shall include the Secure LTF sublement in the Ranging Parameter element in its IFTM frame and set the value of the Secure LTF Required field to 1 and the value of the Status Indication field to 1 (i.e., Successful) to assign a secure LTF measurement exchange mode with the ISTA; otherwise sends the IFTM frame with the value of the Status Indication field set to 2 (i.e., Request incapable) or 3 (i.e., Request failed) in order to reject the negotiation of the Secure LTF measurement exchange mode.

Discussion for CID 7317

The commenter is pointing out that the spec not allowing VHT MU PPDU and HE MU PPDU and as such would limit the operation in 6GHz band. The intent of limiting the MU format transmission is to allow only SU transmission minimizing complexity as there’s really no need to transmit MU frame. Regardless, to my knowledge in 6GHz band the transmission of control and (some) management frames are allowed to use non-HT duplicate. Regardless, while reviewing the spec my suggestion is to enhance it by allowing S-MPDU which is a form of A-MPDU when VHT or HE PPDU is used. We could remove the VHT MU PPDU from the text as the baseline already doesn’t allow transmission of trigger frame in that format!

**Resolution for CID 7317: TGaz editor change 802.11az D4.1 P.150 L.3-7 as follows:**

An RSTA shall follow the rules defined in 26.5.2 (UL MU Operation) when transmitting any Trigger frames of variant Location for TB ranging with the following the following rules .

— A Ranging Trigger frame shall be carried in an S-MDPU if the Ranging Trigger frame is carried in a VHT PPDU or HE PPDU. (#**3669**)

— An RSTA shall not transmit a Ranging Trigger frame in a VHT MU PPDU or HE MU PPDU.

Discussion for CID 7322

The commenter is pointing out that the baseline spec (i.e. 11ax) is requiring ISTA to repond to a trigger frame with an assigned RUs whereas in the 11az the behavior of ISTA not participating is also allowed implying that it intends to avoid the given measurement exchange sequence.

**Resolution for CID 7322: TGaz editor change 802.11az D4.0 P.151 L.11-15 as follows:**

Any ISTA addressed by a User Info field in a TF Ranging Poll frame that intends to participate in the measurement sequence within this availability window shall send a CTS-to-self in an S-MPDU within an HE TB PPDU (#**1336**) in its designated RU allocation as identified in the TF Ranging Poll frame, otherwise shall not send a CTS-to-self in order to avoid being in this measurement sequence; see Figure 11-37c (TB ranging availability window with two instances of polling/sounding/reporting triplets in separate TXOPs).

**References:**

**[1] Draft P802.11az\_D4.1**