IEEE P802.11
Wireless LANs

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| SA Ballot CID 7075 Comment Resolution |
| Date: 2024-05-10 |
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Abstract

This submission proposes to address the following CIDs 7075 (1 CID total) based in Draft P802.11REVme\_D5.0.

This is a follow up from earlier discussion in 11-24-690, where the support for the sequence and sequence relevancy was discussed.

Revisions:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 7075 | 2019.28 | 10.23.2.8 | 11az work item - 11az instructs TGme editor to insert new item after the item beginning “A BFRP Trigger frame…” at the end of the dashed list after the first paragraph of 10.23.2.8. However, the cited location cannot be identified in D4.0. | as in comment. | **Revise.**This is caused by the depreciation of clause 10.23.2.8 in REVme for allowed frame sequences. As both 11ax and 11az are based on 802.11-2020 where the clause is in effect. See further discussion below.REVme editor, make changes identified below in <https://mentor.ieee.org/802.11/dcn/24/11-24-0690-02-000m-CID-7069-7075>  |

***Discussion CID 7075:***

802.11az is an amendment of 802.11ax-2020 and 802.11-2020.

Clause 10.23.2.8 exists in baseline for 11az and was used to specify the allowed frame sequences. The paragraph content specifically describing 11ax frame sequences was deprecated in REVme.

Discussion in ARC was to also not further support the frame sequences of Annex G, though quite easy to generate.

For 11az, the resolution is to replace the text with Annex G (informative) description.

The changes below to REVme make the appropriate adoption of 11az frame sequences into REVme Annex G in-lieu of the deprecated caluse.

***Resolution CID 7075:***

***REVme editor change 11.21.6.4.3.3 P.2729 L.30 in REVme D5.0as follows:***

**11.21.6.4.3.3 Measurement Sounding phase of TB ranging**

The RSTA shall select a bandwidth value for the measurement sounding phase that is less than or equal to theRSTA Assigned Max Bandwidth of each of the ISTAs that are being allocated resources during thismeasurement instance. It may be different from the bandwidth used in the Polling phase, but shall adhere to therules of multiple frame transmission in an EDCA TXOP~~;~~ ~~see 10.23.2.8 (Multiple frame exchange sequences inan EDCA TXOP(#109))~~.

***REVme editor change 11.21.6.4.3.3 P.2736 L.49 in REVme D5.0as follows:***

**11.21.6.4.4.2 Measurement Sounding phase of non-TB ranging**

The RSTA shall transmit the R2I NDP with the same bandwidth as the Ranging NDP Announcement frame,while the LMR may be transmitted at a different bandwidth, according to the rules of multiple frametransmission in an EDCA TXOP~~, see 10.23.2.8 (Multiple frame exchange sequences in an EDCATXOP(#109))~~. The allowed bandwidths for the Ranging NDP Announcements, I2R NDP, and R2I NDP, shallbe less than or equal to the RSTA Assigned Max Bandwidth.

***REVme editor delete the following editior instructions from 10.23.2.8***

***~~Editor’s Note: 11az work item - 11az instructs TGme editor to insert new item after the item beginning “ABFRP Trigger frame…” at the end of the dashed list after the first paragraph of 10.23.2.8. However, thecited location cannot be identified in D4.0~~***

***REVme editor change table G-1 as shown below:***

**Table G-1—Attributes applicable to frame exchange sequence definition**

|  |  |
| --- | --- |
| **Attribute** | **Description** |
| *HTC* | *+HTC frame, i.e., a frame that contains the HT Control field, including the Control Wrapper frame. See NOTE 1.* |
| *I2R* | *ISTA to RSTA transmission* |
| *implicit-bar* | *QoS Data frame in an A-MPDU with Implicit BAR ack policy* |
| *QoS* | *Data type QoS subtype bit (Frame Control field B7) equal to 1.* |
| *R2I* | *RSTA to ISTA transmission* |
| *ranging-poll* | *Trigger frame of type Ranging Subtype Poll* |
| *ranging-secure-sound* | *Trigger frame of type Ranging Subtype Secure Sounding* |
| *ranging-sound* | *Trigger frame of type Ranging Subtype Sounding* |
| *RD* | *For a non-DMG STA, frame includes an HT Control field in which the RDG/More PPDU subfield is equal to 1. For a DMG STA, frame has RDG/More PPDU/subfield in the QoS Control field equal to 1.* |

***REVme editor insert the following text at the end of clause G.5 HE sequences as depicted below:***

**G.5 HE sequences**

he-feedback = (**HE Compressed Beamforming**/**CQI**) | (\* S-MPDU or non-HE PPDU \*)

1{(**HE Compressed Beamforming**/**CQI**)+a-mpdu}+a-mpdu-end;

he-nfrp-report = (**NFRP Trigger**) n (**HE TB feedback NDP**);

(\* HE Ranging and Sensing Sequences \*)

(\* HE Non-TB Ranging with or without Secure LTF \*)

he-ntb-ranging-sequence = (**HE Ranging NDP Announcement** +*individual*)

 **HE Ranging NDP**  (\* I2R Ranging NDP \*)

**HE Ranging NDP** (\* R2I Ranging NDP \*)

(**LMR** +*R2I +individual* +*action-no-ack*) (\* R2I LMR \*)

 [(**LMR** +*I2R +individual* +*action-no-ack*)]; (\* optional I2R LMR\*)

(\* HE TB Ranging with or without Secure LTFs \*)

he-tb-ranging-sequence = (**Ranging Trigger** +*ranging-poll*) (\* TF of polling phase \*)

 (**CTS** +*mu-users-respond*) (\* allocation requests from ISTAs \*)

 1{ (**Ranging Trigger** +*ranging-sound|ranging-secure-sound*)

 (**HE TB Ranging NDP**)} (\* one or more I2R NDP \*)

 **Ranging NDP Announcement**

 **HE Ranging NDP** (\* single R2I NDP \*)

 (**LMR** +*R2I +mu-users-respond*) (\* R2I LMR \*)

 [(**Basic Trigger**)

 (**LMR** *+I2R +individual +action-no-ack*)] (\* optional MU I2R LMR \*)

(\* HE Passive TB Ranging \*)

he-passive-tb-ranging-sequence = (**Ranging Trigger** +r*anging-poll*) (\* TF of polling phase \*)

 (**CTS** +*mu-users-respond*) (\* Response from ISTAs \*)

 1{ (**Ranging Trigger** +r*anging-sound*)

**(HE Ranging NDP)**} (\* one or more single ISTA SU UL sound \*)

 **Ranging NDP Announcement**

 **HE Ranging NDP** (\* Single DL NDP \*)

 (**LMR** +*R2I +mu-users-respond*) (\* R2I LMR \*)

 **Basic Trigger**

 (**LMR** *+I2R +individual +action-no-ack*) (\* MU I2R LMR \*)

 (**Primary RSTA Broadcast Passive TB Ranging Measurement Report** *+broadcast*)

 (**Secondary Broadcast Passive TB Ranging Measurement Report** *+broadcast*)