IEEE P802.11
Wireless LANs

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| Misc CID on Trigger frame format |
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|  |  |  |  |  |

Abstract

This document resolves the following CIDs: 5007, 5008, 5010, 5011, 5012, 5037, 5041, 5048, 5132, 5141, 5162, 5164, 5165, 5167, 5168.

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| **CID** | **Page** | **Line** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| **5007** | 49 | 26 | 9.3.1.22.10 | Modify the text "The I2R Rep subfield signals the number of repetitions of the HE LTF symbols in the corresponding HE TB Ranging from the STA indicated in the AID12/RSID12 subfield' to be the same as the one in line 17-18 on the same page to be consistent. | Change the text to read as 'The I2R Rep subfield signals the number of repetitions N\_REP of the HE LTF symbols in the corresponding HE TB Ranging NDP from the STA indicated in the AID12/RSID12 subfield' | **Accept.** TGaz editor make the change suggested in the “Proposed Change” column.  |
| **5008** | 49 | 28 | 9.3.1.22.10.3 | Add text 'The SS Allocation and UL Target RSSI subfields are identical to the corresponding subfields in the Basic Trigger frame;see 9.3.1.22 (Trigger Frame format).' for Secured Sounding subvariant as well | Somewhere between line 28 and 29, similar to the related text for Sounding subvariant | **Revised** **TGaz editor:** make the changes identified below in 11-21-0815-00-00az. |
| **5010** | 70 | 13 | 9.4.2.296 | Change "Tus' to 'TUs' | As per comment | **Accept.** TGaz editor make the change suggested in the “Proposed Change” column.  |
| **5011** | 72 | 14 | 9.4.2.297 | Update Table 9-322h23fa to include Format column and add HE format. similar to Table 9-322h23fb | As per comment | **Revised.** Agree in principle. Added the “Format” column. **TGaz editor:** make the changes identified below in 11-21-0815-00-00az. |
| **5012** |  |  | 9.4.2.297 | change 'exchanged' to 'exchange' in two instances | As per comment | **Revised.** The term “exchanged” seems to be appropriate here. However, made editorial changes to improve clarity of the text. **TGaz editor:** make the changes identified below in 11-21-0815-00-00az. |
| **5037** | 122 | 25 | 11.21.6.3.1 | Add a new sentence 'This frame is called IFTM frame.' at the end of the paragraph as the IFTM terminology used in many places in the spec | As per comment | **Revised.** **Agreed in principle. However, since the frame is defined in the immediately next sentence, we just add the abbreviation there.** **TGaz editor:** make the changes identified below in 11-21-0815-00-00az. |
| **5041** | 131 | 20 | 11.21.6.3.4 | Modify the text '11.21.6.4.6 (Secure Non-TB and TB Ranging Measurement Exchange Protocol).' to | 11.21.6.4.5 (Use of Secure LTF in the TB and Non-TB Ranging Measurement Exchange Protocol). | **Revised.** **Agreed in principle.****TGaz editor:** make the changes identified below in 11-21-0815-00-00az. |
| **5048** | 146 | 1 | 11.21.6.4.3.2 | Change 'east' to 'least' | As per comment | **Accept.** TGaz editor make the change suggested in the “Proposed Change” column.  |
| **5132** | 130 | 41 | 11.21.6.3.3 | "If the RSTA includes a TB-specific subelement in an IFTM frame and the Status Indication field in the IFTM frame is set to 2 (Request incapable) or 3 (Request failed), then the RSTA may include an RSTA Availability Window element in the IFTM." - what is the purpose of including an availability window if the RSTA is "request uncapable", shouldn't the availability window be present only if it is capable | Invert the logic of the presence of the availability window | **Reject.** The value of including this element is clarified in the next couple of sentences:**“**The RSTA Availability Information field inthe RSTA Availability Window element shall contain one or more Availability Window Information fields. Each Availability Window Information field represents an availability window that the RSTA can assign to that ISTA if requested by the ISTA in future.**”** |
| **5141** | 146 | 4 | 11.21.6.4.3.2 | "TF Ranging poll to only one ISTA" - smaller font than rest of text | allign font sizes | **Revised.** Agree in principle. Aligned the font size.**TGaz editor:** make the changes identified below in 11-21-0815-00-00az. |
| **5162** | 46 | 6 | 9.3.1.22 | "and which is defined in Ranging Trigger frame" | Broken English, change to "and the Ranging Trigger frame which is defined in 9.3.1.22.10 (Ranging Trigger variant)" | **Accept.** TGaz editor make the change suggested in the “Proposed Change” column.  |
| **5164** | 48 | 9 | 9.3.1.22.10 | "The More TF subfield of the Common Info field of the Ranging Trigger frame is set to 1 and the RA field is set to the broadcast address to indicate that a subsequent Ranging Trigger frame of Poll subvariant is scheduled for transmission within the availability window as defined in Subclause 11.21.6.1.1 (EDCA based Ranging and TB Ranging overview)." | Broken reference? Seems the use of the TF subfield should be described in 11.21.6.4.3.2 Polling Phase of TB Ranging | **Revised.**Fixed the reference. **TGaz editor:** make the changes identified below in 11-21-0815-00-00az. |
| **5165** | 49 | 1 | 9.3.1.22.10 | "(#1888) The Token field is reserved in Ranging Trigger other than TF Ranging Poll. In a TF Ranging Poll, the Token field is used to match the TF Ranging Poll with the partial TSF time in Ranging NDP Announcement frame." | Not clear what field in which frame this refers to. Change paragraph to "The Token field in the Trigger Dependent Comon Info field is used in a Ranging Trigger frame of subvariant Poll to match it with the partial TSF time in a following Ranging NDP Announcement frame. It is reserved in all other Ranging Trigger subvariants." and move to after Figure 9-64la | **Revised.**Agreed in principle and made the suggested changes. **TGaz editor:** make the changes identified below in 11-21-0815-00-00az. |
| **5167** | 49 | 17 | 9.3.1.22.10.2 | State that the AID12/RSID12 is the same as in other subvariants or be explicit | Add "The AID12/RSID12 subfield carries either the 12 LSBs of the AID for an associated ISTA or the 12 LSBs of the RSID for an unassociated ISTA." | **Revised.** We clarify that the usage is same as that of Ranging TF Poll variant. **TGaz editor:** make the changes identified below in 11-21-0815-00-00az. |
| **5168** | 49 | 26 | 9.3.1.22.10.3 | State that the AID12/RSID12 is the same as in other subvariants or be explicit | Add "The AID12/RSID12 subfield carries either the 12 LSBs of the AID for an associated ISTA or the 12 LSBs of the RSID for an unassociated ISTA." | **Revised.** We clarify that the usage is same as that of Ranging TF Poll variant. **TGaz editor:** make the changes identified below in 11-21-0815-00-00az. |

***TGaz editor: Insert the following text in P49L28 of 11az draft 3.0:***

The SS Allocation and UL Target RSSI subfields are identical to the corresponding subfields in the
Basic Trigger frame;see 9.3.1.22 (Trigger Frame format) (#5008).

***TGaz editor: Insert a column in Table 9-322h3fa of 11az draft 3.0 as:***

**Table 9-322h23fa—BW subfield for Availability Window field in the Passive TB Ranging
Availability element(#5011)**

|  |  |  |
| --- | --- | --- |
| **BW subfield value** | **Format** | **BW in MHz** |
| 0 | HE | 20 |
| 1 | HE | 40 |
| 2 | HE | 80 |
| 3 | HE | 80+80 or 160 |
| 4-15 | Reserved | Reserved |

***TGaz editor: Revise the text in P72L7 of 11az draft 3.0 as:***

The Format and Bandwith subfield is defined in Table 9-322h23fa (Format and Bandwidth
subfield), and indicates the requested or allocated PPDU format and nominal bandwidth used to transmit the I2R/R2I NDP PPDUs exchanged as part of the Passive TB Ranging measurement sequence in the Passive TB Ranging availability window. Depending on the medium availability, the bandwidth used for the exchanged PPDUs is equal to or smaller than the nominal bandwidth (#5012).

***TGaz editor: Revise the text in P122L26 of 11az draft 3.0 as:***

The first Fine Timing Measurement frame in the FTM session is called the initial Fine Timing
Measurement (IFTM) frame.

***TGaz editor: Revise the text in P131L20 of 11az draft 3.0 as:***

An ISTA and an RSTA may activate a secure LTF measurement exchange for Non-TB Ranging
and TB Ranging that uses randomized LTF sequences in an I2R NDP and an R2I NDP refer to
11.21.6.4.5 (Use of Secure LTF in the TB and Non-TB Ranging Measurement Exchange Protocol) (#5041).

***TGaz editor: Revise the text in P146L4 of 11az draft 3.0 as:***

The RSTA shall allocate each RU in the TF Ranging poll to only one ISTA (#**3679, 5141**).

***TGaz editor: Revise the text in P58L9 of 11az draft 3.0 as:***

The More TF subfield of the Common Info field of the Ranging Trigger frame is set to 1 and the
RA field is set to the broadcast address to indicate that a subsequent Ranging Trigger frame of Poll
subvariant is scheduled for transmission within the availability window as defined in Subclause
11.21.6.4.3.2 (Polling Phase of TB Ranging) (#**5164)**.

***TGaz editor: Delete the paragraph in P9L1 of 11az draft 3.0 and revise the following text in P47L1 of 11az draft 3.0 as:***

The format of the Trigger Dependent Common Info subfield for the Ranging Trigger variant
frame of subvariant Poll, Sounding, Secure Sounding and Report is shown in Figure 9-64la (#3892). The Token field in the Trigger Dependent Comon Info field is used in a Ranging Trigger frame of subvariant Poll to match it with the partial TSF time in a following Ranging NDP Announcement frame. It is reserved in all other Ranging Trigger subvariants (#5165).

***TGaz editor: Insert the following text in P49L16 of 11az draft 3.0:***

The AID12/RSID12 subfield is identical to the corresponding subfield in the Ranging Trigger frame of subvariant Poll. (#5167)

***TGaz editor: Insert the following text in P49L26 of 11az draft 3.0:***

The AID12/RSID12 subfield is identical to the corresponding subfield in the Ranging Trigger frame of subvariant Poll. (#5168)