### **IEEE P802.11Wireless LANs**

|  |
| --- |
| Trigger frame format update |
| Date: 2022-12-13 |
| Author(s): |
| Name | Affiliation | Email |
| Ali Raissinia  | Qualcomm | alirezar@qti.qualcomm.com |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**This document updates some of the relevant text for the Trigger frame format based on D0.5.1**

**Rev 1- made a few editorial changes**

***Instruct TGbf editor to Change the content of Table 9-29j defined in IEEE P802.11az/D7.0 as following***

**NOTE: The text in black is copy-pasted and need no change**

|  |  |
| --- | --- |
| **UL Target Receive Power subfield** | **Description** |
| 0–90  | The expected receive signal power, in units of dBm, is *Targetpwr* = –110 + *Fval*, where *Fval* is the subfield value  |
| 91–126  | Reserved  |
| 127  | The STA transmits the HE TB PPDU at the STA’s maximum transmit power for the assigned HE-MCS. If the Trigger frame is a Sounding, or Passive Sounding Ranging Trigger frame, in addition to Sensing SR2SI Sounding or Sensing SR2SR Sounding Trigger frame that does not assign an HE-MCS, then the STA’s transmit power is that used for HE-MCS 0. If the Trigger frame is a Secured Sounding Ranging Trigger frame that does not assign an HE-MCS, the assigned HE-MCS is assumed to be HE-MCS 6 in terms of setting the STA’s transmit power. NOTE—The expected receive signal power is then the STA's maximum transmit power for the assigned HE-MCS minus the path loss.  |

***Instruct TGbf editor to replace the table 9-54a with following table***

**Discussion**: changed Sensing Sounding to SR2SI Sounding to align with the new SR2SR Sounding. Also, swap the Sensing Trigger frame variant definition between 2 and 3 to align with Ranging. Delete the word ‘Poll’ from the “Sensing Threshold based Report Poll’ as it is unnecessary.

|  |  |
| --- | --- |
| **Sensing Trigger Subtype field value** | **Sensing Trigger frame variant** |
| 0 | Sensing Poll |
| 1 | Sensing SR2SI Sounding |
| 2 | Sensing Threshold based Report |
| 3 | Sensing Report |
| 4 | Sensing SR2SR Sounding |
| 5-15 | Reserved |

***Instruct TGbf editor to replace the Sensing Threshold based Report Poll to Sensing Threshold based Report in clause 11.55.1.5.2 and its subclauses in addition to 9.3.1.22.14 and its subclauses***

***Instruct TGbf editor to replace the Sensing Sounding Trigger frame to Sensing SR2SI Sounding Trigger frame in clause 9.3.1.22.14.2 and 11.55.1.5.2.4***

***Instruct TGbf editor to replace the Figure 9-98d with following Figure and add the text below to the paragraph in L31-32 P 76 of D5.1***

***B0 B11 B12 B20 B21 B23 B24 B25 B26 B31 B32 B38 B39***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| AID12/USID12 | Reserved | SR2SI Rep | Reserved | SS Allocation /RA-RU Information | UL TargetReceive Power | Reserved |

The SR2SI Rep subfield indicates the number of HE-LTF repetitions in the corresponding HE TB Ranging NDP from the non-AP STA indicated in the AID12/USID12 subfield; the SR2SI Rep subfield is set to the number of HE-LTF repetitions minus 1. The value of the SR2SI Rep subfield is the same in all User Info fields in a single Sensing SR2SI Sounding Trigger frame. The SS Allocation/RA-RU Information and UL Target Receive Power subfields are identical to the corresponding subfields in the Basic Trigger frame; see 9.3.1.22 (Trigger frame format).

***Instruct TGbf editor to replace the text in L31-35 P 77 of D5.1 with following***

The Transmitter User Info field for the Sensing SR2SR Sounding Trigger frame follows the definition of the

User Info field for the Sensing Sounding Trigger frame ~~except that the former contains the TX/RX subfield,~~

~~which indicates the role of the addressed SR2SR sensing responder in the current SR2SR sounding phase.~~

~~The TX/RX subfield in the Transmitter User Info filed is set to 0.~~ except the following:

* TX/RX subfield which indicates the role of the addressed SR2SR sensing responder in the current SR2SR sounding phase. The TX/RX subfield in the Transmitter User Info field is set to 0.
* the SR2SR Rep subfield indicates the number of HE-LTF repetitions in the corresponding HE Ranging NDP from the non-AP STA indicated in the AID12/USID12 subfield; the SR2SR Rep subfield is set to the number of HE-LTF repetitions minus 1.
* The SS Allocation/RA-RU Information subfield is identical to the same subfield in the Basic Trigger frame; see 9.3.1.22 (Trigger frame format) corresponding to HE Ranging NDP from the non-AP STA indicated in the AID12/USID12 subfield in this SR2SR Sounding Trigger frame.

***Also change the value 8 to 1 in Figure 9-98f as highlighted below***

