IEEE P802.11
Wireless LANs

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| **CC40 CR for CID 561** |
| **Date:** 2022-10-31 |
| **Author(s):** |

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Abstract

This submission proposes the resolutions for following 1CIDs:

* 561

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Fixed the name of the trigger frame and delete the resolution overlapped with other resolutions.
* Rev 2: Switched the order of the Sensing Trigger Subtype field for the sensing report and the Sensing Threshold-Based Report Poll

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGbf D0.3 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbf D0.3 Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGbf Editor: Editing instructions preceded by “TGbf Editor” are instructions to the TGbf editor to modify existing material in the TGbf draft. As a result of adopting the changes, the TGbf editor will execute the instructions rather than copy them to the TGbf Draft.***

#### *CID 561*

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| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 561 | 11.21.18.6.5 | 71.10 | Define the Sensing Trigger frame A and C. Also Delete the Editor's note in P71L24. | As in comment. | Revised.Agree with the commenter in principle. The Trigger frames A and C should be defined in 11bf spec for clarification. And the Editor’s note alredy deleted in D0.3. Instruction to TGbf Editor: incorporate the changes in https://mentor.ieee.org/802.11/dcn/22/11-22-1834-02-00bf-CC40-CR-for-CID 561.docx |

P71L24 in 11bf D0.1



Discussion :

Based on the discussion and decision for the Threshold based reporting phase in the DCN 22/976r4, the threshold-based reporting phase consists of the measurement reporting subphase and CSI Variation reporting subphase.



 Herein, since the measurement reporting subphase is equal to the basic reporting phase defined in the general measurement instance, we can consider the use of the Sensing Report Trigger frame as a sensing Trigger C. So, we don't need to define a new Trigger frame subvariant to define the Sensing Trigger frame C. Consequently, the Sensing Trigger C is replaced with Sensing Report Trigger frame.

However, regarding the Sensing Trigger frame A, we can consider the following to define this frame since this frame is used to solicit the CSI variation information, not to the CSI report.

**Define a new subvariat of sensing trigger frame**

For the indication of reporting CSI variance, we can assign the one reserved value of the Sensing Trigger Subtype subfield. Since it has many remaining values for the definition of the new Sensing Trigger frame subvariant, we can simply define it. By considering the assignment of a value of Sensing Trigger Subtype for a Sensing Threshold-Based Report Poll Trigger frame, the Sensing Trigger Subtype can consist of as in below.

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

Example of construction of the Sensing Trigger Subtype field

And, for the Sensing Threshold-Based Report Poll Trigger frame format, the equal format of Sensing Report Trigger frame can be used.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| B0-B11 | B12-B19 | B20 | B21-B24 | B25 | B26-B31 | B32-B38 | B39 |
| AID12/USID12 | RU Allocation | UL FEC Coding Type | UL HE-MCS | UL DCM  | SS Allocation /RA-RU Information | UL Target Receive Power | Reserved |
| 12 | 8 | 1 | 4 | 1 | 6 | 7 | 1 |

***TGbf Editor : Please modified the Table 9-xxxx Sensing Trigger Subtype field encoding as follows***

1. Table 9-xxxx — Sensing Trigger Subtype field encoding

|  |  |
| --- | --- |
| Sensing Trigger Subtype field value | Sensing Trigger frame variant |
| 0 | Sensing Poll |
| 1 | Sensing Sounding |
| 2 | Sensing Threshold-Based Report Poll  |
| 3 | Sensing Report |
| 4-15 | Reserved |

***TGbf Editor : Please add new clause 9.3.1.23.4 in 11bf D0.3 as follows***

9.3.1.23.11.4 Sensing Threshold-Based Report Poll Trigger frame

The format of the User Info field in the Sensing Threshold-Based Report Poll Trigger frame is identical to the Sensing Report Trigger frame.

The Trigger Dependent User Info subfield is not present in the Sensing Threshold-Based Report Poll Trigger frame.