IEEE P802.11
Wireless LANs

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| **LB 272 CR for Sensing Trigger frame part 1** |
| **Date:** 2023-05-13 |
| **Author(s):** |

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Abstract

This submission proposes the resolutions for following 11 CIDs

* 1643, 1688, 1611, 1664, 1280, 2099, 1868, 1882, 2018, 2164, 1665

Revisions:

* Rev 0: Initial version of the document.
* Rev 1 : the resolutions for CIDs (1280, 2099, 2018) are updated based on the comments received during the presentaion.

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 D1.0 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbf D1.0 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 1688, 1643*

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 1688 | 9.3.1.22.14.1 | 77.03 | Change the text "following Sensing NDP Announcement frame or a Sensing Sounding Trigger frame" to | following Sensing NDP Announcement frame, SR2SI Sounding or SR2SR Sounding Trigger frame | Accepted  |
| 1643 | 9.3.1.22 | 77.03 | Sensing Sounding Trigger frame should be changed to "SR2SI Sounding Trigger frame" | As in comment | RevisedIt is adapted by the resolution of CID 1688Note to Editor: No further change needs.  |

Discussion:



#### *CID 1611, 1664*

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 1611 | 9.3.1.22.14 | 77.56 | How the UL BW subfield in the Common Info field of the Sensing Trigger frame will be set? | Specify if the UL BW subfield in the Common Info field of the Sensing Trigger frame shall be set to the sensing BW as negotiated in the corresponding sensing measurement setup | Rejected Sensing measurement is performed by using the sensing measurement parameters are defined in the sensing measurement setup. So, we don’t need to describe it, additionally.  |
| 1664 | 9.3.1.22.14 | 76.48 | Change "Sensing Sounding" to "SR2SI Sounding" | As in comment | Accepted  |

Discussion:



#### *CID 1280, 2099*

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 1280 | 9.3.1.22.14.1 | 77.17 | In MS request or SBP response frame the length of the MSID is 1 byte, but in the figure 9-98b the length is 3 bits, please make them consistently | as in the comment | Revised. I agree with the commenter in principle. This field has been indicated as one octet to use units of octets at first but we have decided the size of the Measurement setup ID as 3bit after discussion. Therefore, to keep the consistency with the decision, it should be fixed. Instruction to TGbf Editor: incorporate the changes in https://mentor.ieee.org/802.11/dcn/23/ 11-23-0655-01-00bf-LB272-CR-for-Sensing-Trigger-frame-part1.docx |
| 2099 | 9.3.1.22.14.1 | 77.13 | The length of Measurement Setup ID field in Sensing Measurement Setup Request/Response/Termination is 8 bits. The length of this field is 3 bits in Trigger/NDPA. Why they are different ï¼ | As in comment. | Revised. We have decided the size of the Measurement setup ID as 3 bits. So, to keep the consistency with the decision, it should be fixed. Instruction to TGbf Editor: incorporate the changes in https://mentor.ieee.org/802.11/dcn/23/ 11-23-0655-01-00bf-LB272-CR-for-Sensing-Trigger-frame-part1.docx |

Discussion:















***TGbf Editor: please modify both text at P146L16 and figure 9-1139c of 11bf D1.0 as follows***

 The Measurement Setup ID Indication field indicates a Measurement Setup ID that identifies assigned operational parameters in the Sensing Measurement Parameters Element to be used in the corresponding sensing measurement instances. The Measurement Setup ID field is reserved if the Comeback subfield of the Sensing Comeback Info field is set to 1 in a (Protected) Sensing Measurement Setup Request frame addressed to an unassociated non-AP STA by an AP(#299, #308, #316, #481). The Measurement Setup ID field is defined in Figure 9-1139c (Measurement Setup ID field format).

|  |  |
| --- | --- |
|  | Measurement Setup ID Indication |
| Octets: | 1 |
| * Measurement Setup ID Indication field format(#76, #261, #518)
 |

***TGbf Editor: please change “Measurement Setup ID field format” with “Measurement Setup ID indication field format” by whole searching in D1.0***

***TGbf Editor: please change “Measurement Setup ID” with “Measurement Setup ID indication” in following figures of D1.0***

* ***Figure 9-1139a, 1139d, 1139f, 1139j, 1139k***

#### *CID 1868*

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 1868 | 9.3.1.22.14.1 | 77.25 | Incorrect sentence | re-arrange the sentence | Revised. I agree with the commentor in principle. This sentence should be corrected. Instruction to TGbf Editor: incorporate the changes in https://mentor.ieee.org/802.11/dcn/23/ 11-23-0655-01-00bf-LB272-CR-for-Sensing-Trigger-frame-part1.docx |

Discussion:



***TGbf Editor: please modify the text at P77L25 of 11bf D1.0 as follows***

The value of the Sensing Trigger Subtype subfield in the Sensing Trigger frame is defined in Table 9-54a (Sensing Trigger Subtype field encoding).

#### *CID 1882*

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 1882 | 9.3.1.22.14.1 | 77.46 | Suggest to reserve a special value in Sensing Triger Subtype to indicate "non-sensing Trigger" frame instead of using a bit of Sesning subfield for indicating the type of Trigger frame. | See in the comment | Rejected. Since the same value of the Trigger Type subfield is used for both ranging and sensing, the sensing indication shall be defined to distinguish each Trigger frame variant. And, if a non-sensing Trigger frame variant is used, then we can reuse the Trigger frame defined in Revme.  |

Discussion: None

#### *CID 2018*

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 2018 | 9.3.1.22.14.1 | 76.48 | "The format of the Trigger Dependent Common Info subfield of the Sensing Poll, Sensing Sounding, Sensing Report, and Sensing Threshold-based Report Trigger frame ...". A this time, none of these frames have been defined. | Add the relevant references (e.g., Sensing Poll -> 9.3.1.22.14.2, ...) | Revised.Each type of sensing Trigger frame is already defined in D1.0. to clarify each type of sensing trigger frame, it can be added. Instruction to TGbf Editor: incorporate the changes in https://mentor.ieee.org/802.11/dcn/23/ 11-23-0655-01-00bf-LB272-CR-for-Sensing-Trigger-frame-part1.docx |

Discussion:



 ***TGbf Editor: please modify the text at P76L48 of 11bf D1.0 as follows***

The format of the Trigger Dependent Common Info subfield of the Sensing Poll(9.3.1.22.14.2), SR2SI Sounding(9.3.1.22.14.3), Sensing Report(9.3.1.22.14.4), and Sensing Threshold-based Report Trigger frame(9.3.1.22.14.5) is shown in Figure 9-98a (Trigger Dependent Common Info subfield format of the Sensing Poll, SR2SI Sounding, Sensing Report, and Sensing Threshold-based Report Trigger frame).

***TGbf Editor: please modify the title of Figure 9-98a of 11bf D1.0 as follows***

Figure 9-98a - Trigger Dependent Common Info subfield format of the Sensing Poll, SR2SI Sounding, Sensing Report, and Sensing Threshold-based Report Trigger frame

#### *CID 2164*

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 2164 | 9.3.1.22.14.1 | 76.64 | The Token field is used only in Sensing Poll Trigger frame and it is reserved in all other Sensing Trigger subvariants. But, the caption of Figure 9-98a illustrates all Sensing Trigger subvariants. | Keep only Sensing Poll Trigger frame in the caption of Figure 9-98a and delete all the other trigger subvariants. | Rejected. Basically, all sensing Trigger subvariant except SR2SR sounding have the same format for the Trigger Dependent Common Info subfield. And, since it is clearly described that the token field is used in the specific type of sensing frame, it does not need further modification.  |

Discussion:





#### *CID 1665*

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 1665 | 9.3.1.22.14.1 | 78.56 | The MS ID shall be carried in the Sensing Poll TF, since the sensing responder needs this information to decide whether to participate in this TB measurement instance or not. | Add MS ID subfield into the Trigger Dependent Common Info subfield of the Sensing Poll TF. | Rejected. First off, the sensing responder can decide whether to participate in the sensing measurement by exchanging the sensing measurement setup request/response frame. And, in addition, if the sensing responder doesn’t want to participate in an ongoing TB sensing measurement instance, it can do it by not responding to the sensing poll trigger frame. |

Discussion: None

# SP

Do you support resolutions to the following CIDs and incorporate the text changes into the latest TGbf draft: 1643, 1688, 1611, 1664, 1280, 2099, 1868, 1882, 2018, 2164, and1665 in 11-23/0655r?

Y/N/A