IEEE P802.11  
Wireless LANs

|  |
| --- |
| **LB276 CR for SR2SI Sounding Trigger frame** |
| **Date:** 2023-11-13 |
| **Author(s):** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Affiliation** | **Address** | **Phone** | **Email** |
| Dongguk Lim | LG Electronics | 19, Yangjae-daero 11gil, Seocho-gu, Seoul 137-130, Korea |  | dongguk.lim@lge.com |
| Sanggook Kim |  | sanggook.kim@lge.com |
| Jinsoo Choi |  | js.choi@lge.com |

Abstract

This submission proposes the resolutions for following 5 CID

* 3195, 3292, 3293, 3294, and 3337

Revisions:

* Rev 0: Initial version of the document.

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 D2.0 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbf D2.0 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 3195*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 3195 | 9.3.1.22.14.3 | 38.32 | change the word subfield as field throughout the draft | as in comment | Rejected.  We determined the change of “ subfield” with “field. however, to be aligned with other specs and to prevent ambiguity, it is good to keep some original words as defined as subfields instead of all changing with fields.  In addition, this change is currently being considered by the Editors’ group and will be incorporated into the baseline and into the 11bf draft if it is agreed upon |

Discussion:



#### *CID 3292*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 3292 | 9.3.1.22.14.3 | 38.22 | The MS ID shall be carried in the SR2SI Sounding TF. If a sensing responder paticipates in multiple measurement sessions, which solely have TF sounding phase in the corresponding measurement exchanges, the sensing responder needs to know which measurement session such a TF sounding belongs to, in order to apply the correct MS parameters, e.g., Measurement Session Expiry Exponent. | Add MS ID subfield into the Trigger Dependent Common Info subfield or User Info field of AID 2008 of the SR2SI Sounding TF. | Revised.  MS ID is not required for TF sounding in TB sensing measurements because the TF sounding is initiated by the AP and sensing responders participating in this phase just follow the information sent through the user field addressed to them.  and regarding the sensing measurement session expiry timer, if a sensing responder establishes a multiple sensing measurement session, after a TF sounding phase, to prevent to termination of the specific sensing measurement session, all timers for multiple sensing measurement sessions may be reset. To clarify it, related text can be added as a note.  Instruction to TGbf Editor: incorporate the changes in https://mentor.ieee.org/802.11/dcn/23/11-23-1879-00-00bf-LB276-CR-for-SR2SI-Sounding-Trigger-frame.docx |

Discussion:

11bf D2.0 P72L28



11bf D2.0 P145L56



***TGbf Editor: please add the note after P159L65 as follows***

Note: if a sensing responder establishes multiple sensing measurement sessions with an AP and the TF sounding phase with SR2SI variant TF is the only sounding phase present in a TB sensing measurement exchange, after a corresponding TF sounding phase, all of the sensing measurement session expiry of multiple sensing measurement sessions set to aMeasurementSessionExpiry (see Table 11-30a (Sensing procedure timing-related parameters)).

#### *CID 3293,3294,3337*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 3293 | 9.3.1.22.14.3 | 38.65 | The sentence only gives a condition but does not explain what is the time the TSF time refers to. | Change to: The Partial TSF field contains 16 bits of the AP's TSF time, TSF[21:6], of the time of transmitting the preceding Sensing Polling Trigger frame (if present) by the AP. | Revised  Agree in principle with the commenter. To clarify, we can modify the text and add the sentence with the specific wording in the claluse 11.  Instruction to TGbf Editor: incorporate the changes in https://mentor.ieee.org/802.11/dcn/23/11-23-1879-00-00bf-LB276-CR-for-SR2SI-Sounding-Trigger-frame.docx |
| 3294 | 9.3.1.22.14.3 | 38.65 | What if there is no preceding Sensing Polling TF? How should the Partial TSF field be set in such a case? | Specifiy how the Partial TSF field and Token field be set if there is no preceding Sensing Polling TF. | Revised  The TSF field in the user field of the SR2SI Sounding Trigger frame is defined as an AP’s TSF at the time of transmission of the preceding sensing polling trigger frame in the current spec. So, if there is no preceding sensing polling TF, it means that there is no TSF field. And, to clarify the synchronization, we can modify the text and add the sentence with the specific wording in clause 11.  Instruction to TGbf Editor: incorporate the changes in https://mentor.ieee.org/802.11/dcn/23/11-23-1879-00-00bf-LB276-CR-for-SR2SI-Sounding-Trigger-frame.docx |
| 3337 | 9.3.1.22.14.3 | 38.62 | Not clear what the Partial TSF field contains if the AP did not transmit a Sensing Poll Trigger frame preceding the SR2SI Sounding Trigger frame. | Remove condition "if the AP transmitted the Sensing Polling Trigger frame that preceded the SR2SI Sounding Trigger frame carrying this User Info field.", or define contents of the Partial TSF field when no preceding Sensing Polling Trigger. | Revised  The TSF field in the user field of the SR2SI Sounding Trigger frame is defined as an AP’s TSF at the time of transmission of the preceding sensing polling trigger frame in the current spec. So, if there is no preceding sensing polling TF, it means that there is no TSF field. And, to clarify the synchronization, we can modify the text and add the sentence with the specific wording in clause 11.    Instruction to TGbf Editor: incorporate the changes in https://mentor.ieee.org/802.11/dcn/23/11-23-1879-00-00bf-LB276-CR-for-Sensing-Trigger-frame.docx |

Discussion:

P150L14



***TGbf Editor: please modify the text of P38L62 as follows***

The User Info field with AID12/USID subfield is equal to 2008 shall be present in all transmitted SR2SI Sounding Trigger frame as a part of a TB sensing measurement exchange. When transmitting a SR2SI Sounding Trigger frame as part of a TB sensing measurement exchange beginning with a polling phase, the User Info field with the AID12/USID12 shall be set as follow:

* The Partial TSF field contains 16 bits of the AP’s TSF time, TSF[21:6], at the time of transmitting the Sensing Polling Trigger frame that preceded the SR2SI Sounding Trigger frame carrying this User Info field.

When transmitting a SR2SI Sounding Trigger frame as part of a TB sensing measurement exchange not beginning with a polling phase, the Partial TSF of the User Info field with AID12/USID12 equal to 2008 shall be reserved.

***TGbf Editor: please add the following text at the end of clause 11.55.1.5.2.1of 11bf D2.1***

An unassociated non-AP STA as a sensing responder should synchronize to AP’s TSF timer (see 11.55.1.5.2.3 (NDPA sounding phase), 11.55.1.5.2.4 (TF sounding phase – SR2SI variant), and 11.55.1.5.2.5 (TF sounding phase – SR2SR variant)) to ensure timing alignment with the sensing availability window.

Note: A non-AP STA as a sensing responder can also use AP’s beacon to synchronize its clock to ensure timing alignment with the sensing availability window

# SP

Do you support resolutions to the following CIDs and incorporate the text changes into the latest TGbf draft: 3195, 3292, 3293, 3294, 3337 in 11-23/1879r0?

Y/N/A