IEEE P802.11
Wireless LANs

|  |
| --- |
| LB272 CR for CIDs on TF Sounding Phase – Part 1 |
| Date: 2023-06-09 |
| Author(s): |
| Name | Company | Address | Phone | email |
| Dong Wei | NXP |  |  | dong.wei@nxp.com |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Abstract

This document aims to resolve the following LB272 comments: CIDs 1014, 1107, 1138, 1141, 1142, 1230, 1616, 1619, 1621, 1622, 1646, 2137, 2139, 2140, and 2141.

R0: Initial version

##### ****CID 2137****

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **Clause**  | **Page** | **Comment** | **Proposed Change** |
| 2137 | 9.3.1.22.14.6 | 80.11 | Since the SR2SI Sounding Trigger frame and the SR2SR Sounding Trigger frame are similar, it is better to place clause 9.3.1.22.14.3 and clause 9.3.1.22.14.6 next to each other. | Place clause SR2SR Sounding Trigger frame between clause SR2SI Sounding Trigger frame and clause Sensing Report Trigger frame. |

**Proposed resolution**: Accepted

##### ****CIDs 1646, 1621, 1622, 1619****

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **Clause**  | **Page** | **Comment** | **Proposed Change** |
| 1646 | 9.3.1.22.14.6 | 80.23 | SS Allocation/RA-RU Information field should be changed to SS Allocation field since RA-RU information is not relevant to SR2SR Sounding Trigger frame | As in comment |
| 1621 | 11.55.1.5.2.4 | 182.45 | The name of the subfield is wrong | Change the name of the subfield to "SSAllocation / RA-RU Information" in this sentence OR change the name of the subfield in the corresponding frame to "SS Allocation" |
| 1622 | 11.55.1.5.2.4 | 182.45 | The name of the subfield is wrong | Change the name of the subfield to "SSAllocation / RA-RU Information" in this sentence OR change the name of the subfield in the corresponding frame to "SS Allocation" |
| 1619 | 11.55.1.5.2.5 | 182.54 | The name of the subfield is wrong | Change the name of the subfield to "SSAllocation / RA-RU Information" in this sentence OR change the name of the subfield in the corresponding frame to "SS Allocation" |

**Proposed resolution**: Rejected

**Discussion:**

The encoding of the SS Allocation/RA-RU field is identical to that in the Basic Trigger frame. Hence, for consistency we use the same field name.

##### ****CIDs 2139, 2140, 2141****

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **Clause**  | **Page** | **Comment** | **Proposed Change** |
| 2139 | 9.3.1.22.14.6 | 80.37 | SR2SR sounding is a variant of TF sounding phase. | Replace "SR2SR sounding phase" with "SR2SR variant of TF sounding phase" |
| 2140 | 9.3.1.22.14.6 | 81.01 | SR2SR sounding is a variant of TF sounding phase. | Replace "SR2SR sounding phase" with "SR2SR variant of TF sounding phase" |
| 2141 | 9.3.1.22.14.6 | 81.06 | SR2SR sounding is a variant of TF sounding phase. | Replace "SR2SR sounding phase" with "SR2SR variant of TF sounding phase" |

**Proposed resolution**: Accepted

##### ****CID 1107****

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **Clause**  | **Page** | **Comment** | **Proposed Change** |
| 1107 | 11.55.1.4 | 174.26 | I believe it would be appropriate to move this paragraph to 11.55.1.5.2. | As suggested. |

**Discussion:**

While the comment is acceptable, the proposed change does not specify the exact location where the paragraph is moved.

**Proposed resolution**: Revised

*TGbf Editor: Please move the paragraph indicated in CID 1107 after the 3rd paragraph of 11.55.1.5.2.6.1 (Basic reporting phase) of D1.1 as follows:*

**11.55.1.5.2.6.1 Basic reporting phase**

If present, the basic reporting phase shall be the last phase of a TB sensing measurement exchange.

For a sensing responder which is a sensing receiver, the reporting phase shall be present in a TB sensing measurement exchange if the Sensing Measurement Report Requested field within the Sensing Measurement Request frame is set to 1.

In the basic reporting phase, the sensing initiator shall send a Sensing Reporting Trigger frame assigning RUs to one or more sensing receivers in order to obtain Sensing Measurement Report frame(s)(#1735) containing sensing measurement results.

In TB sensing measurement instances, the sensing initiator shall not assign any RU to a sensing responder in a Sensing Report Trigger frame if the sensing initiator assigns in a Sensing Measurement Setup Request

frame the role of sensing receiver to the sensing responder and also sets the Sensing Measurement Report Requested subfield to 0.

The SME of a sensing receiver shall request the transmission of a Sensing Measurement Report frame to the sensing initiator by generating an MLME-SENSREPORTRQ.request primitive(#1917). Upon receiving a Sensing Reporting Trigger frame, the sensing responder shall transmit a Sensing Measurement Report frame that contains the sensing measurement result with Measurement Exchange ID corresponding to either the current sensing measurement exchange or the previous sensing measurement exchange consistently throughout all TB sensing measurement exchanges with the same Measurement Exchange ID(#1144, #1145,

#1382, #1670, #1286, #2288, #2297, #2254).

NOTE—A Sensing Reporting Trigger frame is not addressed to a sensing responder that is not assigned to deliver a sensing measurement report.

##### ****CID 1138****

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **Clause**  | **Page** | **Comment** | **Proposed Change** |
| 1138 | 11.55.1.5.2.4 | 181.06 | Suggestion to improve writing | Delete "the SR2SI variant of". |

**Proposed resolution**: Accepted

##### ****CID 1141****

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **Clause**  | **Page** | **Comment** | **Proposed Change** |
| 1141 | 11.55.1.5.2.5 | 182.17 | There is no such a thing as an "SR2SR sensing transmitter" or an "SR2SR sensing receiver". These terms are used throughout 11.55.1.5.2.5. | Delete "SR2SR" in "SR2SR sensing transmitter" and "SR2SR sensing receiver". |

**Proposed resolution**: Accepted

##### ****CID 1014****

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **Clause**  | **Page** | **Comment** | **Proposed Change** |
| 1014 | 11.55.1.5.2.5 | 182.21 | The sentence lacks verbs in the conditional clause (after the it)":"The SR2SR variant of a TF sounding phase may be present in a TB sensing measurement instance if-- one non-AP STA that is an SR2SR sensing transmitter in this SR2SR variant of the TF sounding phase and that is not assigned to be polled or has responded in the polling phase, and-- at least one non-AP STA that is an SR2SR sensing receiver in this SR2SR variant of the TF sounding phase and that is not assigned to be polled or has responded in the polling phase. | Clarify the requirement - Perhaps: ""The SR2SR variant of a TF sounding phase may be present in a TB sensing measurement instance if there exists-- one non-AP STA that is an SR2SR sensing transmitter in this SR2SR variant of the TF sounding phase and that is not assigned to be polled or has responded in the polling phase, and-- at least one non-AP STA that is an SR2SR sensing receiver in this SR2SR variant of the TF sounding phase and that is not assigned to be polled or has responded in the polling phase. |

**Proposed resolution**: Accepted

##### ****CID 1230****

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **Clause**  | **Page** | **Comment** | **Proposed Change** |
| 1230 | 11.55.1.5.2.5 | 182.30 | "Implementation of the SR2SR variant of the TF sounding phase is optional. When supported..." No definition is present on how to know when the feature is supported. | It should be determined how to find out if a feature is supported by the responder. Overwise, the text shall define the behavior of the not-supporting responder. |

**Proposed resolution**: Rejected

**Discussion:**

The SR2SR Support field in the Sensing field (Clause 9.4.2.320 Sensing Capabilities element) indicates whether a STA supports SR2SR sensing.

##### ****CID 1142****

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **Clause**  | **Page** | **Comment** | **Proposed Change** |
| 1142 | 11.55.1.5.2.5 | 182.45 | Bandwidth of an SR2SR NDP is always less than 320 MHz. | Delete "When a PPDU bandwidth is less than or equal to 160 MHz,". |

**Proposed resolution**: Accepted

##### ****CID 1616****

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **Clause**  | **Page** | **Comment** | **Proposed Change** |
| 1616 | 11.55.1.5.2.5 | 182.47 | The format of the SR2SR NDP should be HE TB Ranging NDP not HE Ranging NDP | Change the text to "... HE TB Ranging NDP, as described in 27.3.18a.2 (HE TBRanging NDP)." |

**Proposed resolution**: Rejected

**Discussion:**

In the SR2SR variant of the TF sounding phase, if the sensing transmitter responds the SR2SR Sounding Trigger frame with an HE TB Ranging NDP (i.e., an HE TB PPDU without data), the sensing receiver may simply ignore this TB PPDU. Therefore, HE Ranging NDP is used for the SR2SR variant, similarly to HE Ranging NDP being used in 11az passive ranging.

**SP:** Do you agree to the resolutions provided in the document 11-23/1000for the following CIDs: 1014, 1107, 1138, 1141, 1142, 1230, 1616, 1619, 1621, 1622, 1646, 2137, 2139, 2140, and 2141?