IEEE P802.11
Wireless LANs

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| LB272 Resolutions for DMG SR2SR Sensing |
| Date: July 11, 2023 |
| Author(s): |
| Name | Affiliation | Address | Phone | Email |
| Ning Gao | OPPO |  |  | gaoning1@oppo.com |
| Pei Zhou |  |  | zhoupei1@oppo.com |
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Abstract

This submission proposes resolutions to the following CIDs:

* 1291, 1292, 1293, 1294, 1295, 1460.

The text used as reference is 802.11bf D1.2.

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Revise the order of CIDs
* Rev 2: Reject the CID 1460, 1292, 1293, 1294, 1295

**Comments:**

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| **CID** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 1291 | 11.55.3.6 | 203.55 | Motion passed text in doc. 11-22/1958r3 was missing in d1.0, "The sensing initiator may update the transmit beams assigned to the responder in DMG Sensing Measurement Setup Request frame by setting the Updated TX Beam List subfield in the TDD Beamforming Information field in the DMG Sensing Request frame." Editor forgot to incorporate this sentence into d1.0. | Please add the missing text into 11bf draft. | **Revised.**The motion passed text mentioned by the commenter was missing in draft 1.0.Agree to add the text to the last draft.TGbf Editor make changes as in doc.: 11-23/1249r2 |
| 1460 | 11.55.3.4 | 199.06 | "If the sounding phase in a coordinated monostatic sensing instance happens in parallel, the sensing initiator should assign transmit beams to different sensing responders (e.g. to avoid interference across multiple sensing responders) by setting the TX Beam List subelement in the DMG Sensing Measurement Setup element in the DMG Sensing Measurement Setup Request frame." The sentence is unnecessary and does not have a normative meaning. The DMG Sensing Beam Descriptor elements are different among the responders, so by definition, the initiator sets up the TX Beam List separately per each monostatic responder. There is no need for the paragraph. | Remove the paragraph | **Rejected.**This paragraph provides valuable recommendations for readers and engineers. It is better to leave it. |
| 1293 | 9.4.2.325 | 122.37 | It is better to change the "RX Initiator" in Figure 9-1002bm-Measurement Setup Control field format to "RX Responder", since it is commonsensical that the sensing initiator sets TX/RX role for sensing responder(s) by DMG Sensing Measurement Setup Request frame. | As in comment. | **Rejected.**Lack of consensus. |
| 1294 | 11.55.3.4 | 199.50 | It is better to change the "RX Initiator subfield” to "RX Responder subfield", since it is commonsensical that the sensing initiator sets TX/RX role for sensing responder(s) by DMG Sensing Measurement Setup Request frame. | As in comment. | **Rejected.**Lack of consensus. |
| 1295 | 11.55.3.6.4 | 212.05 | DMG SR2SR sensing can be realized under coordinated bistatic DMG sensing type. For example, Sensing Initiator sets Sensing Responder 1 as transmitter, Sensing Responder 2 as receiver, Sensing Responder 3 as receiver by setting the "RX Responder (revised from RX Initiator)" subfield in Measurement Setup Control field. Then, Sensing Initiator indicates Sensing Responder 1's peer STA is Sensing responder 2, and Sensing Responder 3's peer STA is Sensing initiator by adding a ''peer STA ID element'' into related frames. | As in comment. The commenter will provide a solution for DMG SR2SR sensing case. | **Rejected.**Lack of consensus. |
| 1292 | 11.55.3.4 | 200.06 | The sounding phase of a coordinated bistatic DMG sensing instance may also happen in parallel. So, the sensing initiator can also assign transmit beams and receive beams to different sensing responders to avoid interference acorss multiple sensing responders by setting the TX/RX Beam List subelements. | Add one paragraph "If the sounding phase in a coordinated bistatic sensing instance happens in parallel, the sensing initiator should assign transmit and/or receive beams to different sensing responders (e.g. to avoid interference across multiple sensing responders) by setting the TX Beam List subelement and/or RX Beam List subelement in the DMG Sensing Measurement Setup element in the DMG Sensing Measurement Setup Request frame." | **Rejected.**Lack of consensus. |

**11.55.3.6 DMG sensing instance**

**11.55.3.6.1 General**

***TGbf Editor: Please add the following paragraph into the 6th paragraph in subclause 11.55.3.6.1 (General).***

…

DMG sensing measurement instances of the DMG sensing types coordinated monostatic, coordinated bistatic, and multistatic shall contain an initiation phase.

The sensing initiator may update the transmit beams assigned to the responder in DMG Sensing Measurement Setup Request frame by setting the Updated TX Beam List subfield in the TDD Beamforming Information field in the DMG Sensing Request frame.(#1291)

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**SP: Do you support the resolutions to CIDs 1291, 1292, 1293, 1294, 1295 and 1460,**

**as specified in doc.: 11-23/1249r2 and incorporate the text changes into the latest TGbf draft.**