IEEE P802.11
Wireless LANs

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| Resolutions for DMG Comments in LB276 |
| Date: 2023-09-12 |
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Abstract

This submission proposes resolutions to the following comments submitted in LB276 under DMG topic. The CIDs are referring to D2.0. The text used as reference is D2.0.

CIDs: 3353 3408 3409

Revision history:

R0: Original version

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **Page** | **Comment** | **Proposed change** | **Proposed resolution** |
| 3353 | 11.55.4 | 188.55 | In D2.0, we have added a few changes to the SBP procedure in sub-7 GHz, including the new SBP Specific subelement including the AID/USID of the SBP initiator, as well as rules saying the SBP responder shall initiate a new sensing procedure to satisfy an SBP request instead of reusing existing sensing measurement sessions. Similar changes should also be done in DMG SBP procedure to keep it consistent with the SBP procedure in sub-7 GHz. | Apply the changes done on the SBP procedure in sub-7 GHz to DMG SBP procedure and keep the two protocols consistent. Specifically, refer to https://mentor.ieee.org/802.11/dcn/23/11-23-0749-02-00bf-resolutions-for-sbp-comments-in-lb272-part-2-sbp-security-privacy.docx. | Revised, see proposed resolution below in <DCN1619r0>. |
| 3408 | 11.55.4.2 | 189.44 | A non-AP/non-PCP sensing responder does not know whether a sensing measurement setup is initiated by the AP/PCP or by a non-AP/non-PCP STA in the form of a SBP procedure. | Include a bit in the sensing measurement parameter field that indicates whether the setup is on behalf of a DMG SBP session. For non-DMG, a solution to this problem was introduced that can be leveraged for DMG as well. | Revised, see proposed resolution below in <DCN1619r0>. |
| 3409 | 11.55.4.2 | 189.44 | In a DMG sensing measurement setup that is part of a DMG SBP procedure, a non-AP/non-PCP sensing responder can't determine the identity of the DMG SBP initiator. | Include a new field in the DMG measurement setup request frame to indicate the DMG SBP initiator's identity. Additionally, include a parameter in the DMG SBP Parameters element to indicate whether the DMG SBP responder is allowed to share the identity of the DMG SBP initiator with the sensing responder(s). For non-DMG, a solution to this problem was introduced that can be leveraged for DMG as well. | Revised, see proposed resolution below in <DCN1619r0>. |

**Proposed resolution**: Revised.

**Discussion**: In 11bf D2.0, we defined an SBP Specific subelement, which is included in the Sensing Measurement Request frame if it is transmitted to satisfy an SBP request. The SBP Specific subelement includes the AID/USID of the SBP initiator. In this case, a sensing responder will be able to differentiate between a sensing procedure initiated by the AP itself and a sensing procedure used to satisfy an SBP request initiated by the SBP initiator. Moreover, we clarified that an SBP responder cannot reuse existing sensing measurement sessions to satisfy a new SBP request. For DMG SBP procedure, we can follow the same ideas.

***TGbf editor, modify Table 9-401z and add the following paragraphs at the end of 9.4.2.326 D2.0:***

Table 9-401z --- Subelements of DMG Sensing Measurement Session definition

|  |  |  |
| --- | --- | --- |
| Subelement ID | Subelement Name | Extensible |
| 1 | TX Beam List | Yes |
| 2 | RX Beam List | Yes |
| 3 | DMG Sensing Scheduling | Yes |
| 4 | Burst Response Delay | Yes |
| 5 | DMG SBP Specific  | Yes |
| ~~5~~6-255 | Reserved | No |

If the sensing initiator is a DMG PCP/AP, and if the DMG Sensing Measurement Request frame is transmitted to satisfy a DMG SBP request, it also includes a DMG SBP Specific subelement in the DMG Sensing Measurement Request frame to describe the set of parameters associated with the DMG SBP request. The format of the DMG SBP Specific subelement is as shown in Figure 9-xxx (DMG SBP Specific subelement format).

|  |  |  |  |
| --- | --- | --- | --- |
|  | Subelement ID | Length | DMG SBP Initiator AID/USID |
| Bits | 8 | 8 | 8 |

Figure 9-xxx: DMG SBP Specific subelement format

The DMG SBP Initiator AID/USID field indicates either the AID or the USID for the DMG SBP initiator that triggers the PCP/AP to transmit the associated DMG Sensing Measurement Request frame to satisfy the DMG SBP request from the DMG SBP initiator.

***TGbf editor:*** ***Add the following paragraph in 11.55.4.2***

If the SBP responder of a DMG SBP request that has resulted in an MLME-DMG-SBP.response primitive being issued with StatusCode parameter set to SUCCESS is not able to satisfy required parameters specified in the corresponding MLME-DMG-SBP.indication primitive after the MLME-DMG-SBP.response primitive was issued, it shall issue an MLME-DMG-SBPTERMINATION.request primitive with PeerSTAAddress parameter equal to the SBP initiator’s MAC address. The DMG Measurement Session ID within the MLME-DMG-SBPTERMINATION.request primitive issued by the SBP responder shall be identical to the DMG Measurement Session ID within the corresponding MLME-DMG-SBP.response primitive.

To satisfy a DMG SBP request, the DMG SBP responder shall initiate a new DMG sensing procedure. The DMG Sensing Measurement Request frame transmitted to a sensing responder used to satisfy a DMG SBP request shall include a DMG SBP Specific subelement containing the AID/USID of the DMG SBP initiator. The DMG Measurement Session ID field in the DMG Sensing Measurement Request frame(s) shall be the same as the DMG Measurement Session ID sent in the DMG SBP Response frame and shall be different than all the exiting DMG Measurement Session IDs used with corresponding sensing responder(s).

## SP

Do you support the proposed resolutions to the CIDs and incorporate the text changes into the latest TGbf draft?

Y/N/A