IEEE P802.11
Wireless LANs

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| Resolutions for SBP Comments in CC40 - Part 2 – SBP termination |
| Date: 2022-11-22 |
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Abstract

This submission proposes resolutions to comments submitted in CC40. The CIDs are referring to D0.1. The text used as reference is D0.4.

CIDs covered in this document include:

48 83 278 280 531 640

Revision history:

R0: Original version

R1: Revised after the ad-hoc review on Nov. 23.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **Clause** | **Page** | **Comment** | **Proposed change** |
| 48 | 9.6.7.55 | 61.22 | A STA may request more than one sensing by proxy from AP, so the SBP Termination frame can indicate one or all SBP procedures to be terminated. | As in comment. |
| 83 | 9.6.7.55 | 61.9 | Field name should not be TBD | Field shall have a descriptive name or Reserved. |
| 278 | 11.21.19.4 | 73.42 | how does the SBP initiator know that a SBP report frame sent by SBP responder is the last report frame, please clarify. | as in comment |
| 280 | 11.21.19.4 | 73.46 | need to clarify whether the SBP responder (AP) should terminate the sensing measurement setup after the AP sent the SBP termination frame or received the SBP termination frame from the sensing initiator at any time. | as in comment |
| 531 | 9.6.7.55 | 61.25 | Define the subfields that should be included in this frame. and if we don't need to add any subfield in this frame, delete both the text of line 25 and the TBD field included in figure 9-1139h. | As in comment |
| 640 | 11.21.19.2 | 73.15 | Add the following clarification: The SBP initiator shall discard any SBP Response frame corresponding to the terminated SBP procedure. The SBP initiator shall not reuse the Dialog Token value before the maximum retransmission timeout. | As commented. |

**Proposed resolution**: CID 48, 83, 278, 280, 531: Revised. CID 640: ~~Accepted~~ Revised.

**Discussion**:

1. CID 48:
	1. Agree with the commenter that we should allow the SBP Termination frame to terminate all established SBP procedures between an SBP initiator and an SBP responder, similar to what we did for the Sensing Measurement Setup Termination frame. Moreover, we also have similar functions defined in the DMG SBP Termination frame.
2. CID 83 and CID 531:
	1. In this contribution we will complete the design of the format for SBP Termination frame.
	2. Generally, we keep the design of the SBP Termination frame consistent with the DMG SBP Termination frame in 9.6.21.15.
3. CID 278:
	1. ~~In DCN977r10 that is ready for motion, we have added a subfield “Last SBP Report” in the Sensing Measurement Report Control field within the SBP Report frame to indicate whether the corresponding SBP report is the last one.~~ Discussed this point at the ad-hoc, and most members agree that since we do not have an end time signaling in the SBP Request/Response frame to indicate how long the triggered WLAN sensing procedure should last, there is no concept of “the last SBP report”. The SBP procedure will continue unless terminated by either the SBP initiator or the SBP responder.
4. CID 280:
	1. Generally, agree with the commenter that once an SBP procedure is terminated, the AP should terminate the corresponding sensing measurement setups established with the sensing responders triggered by the previous SBP request.
5. CID 640:
	1. ~~Fine to add these clarifications.~~ The rule for Dialog Token field is universal for all frames, so there is no need to emphasize it again for the SBP Request frame.

***TGbf editor, make the following changes in the spec.***

**9.6.7.55 SBP Termination frame format**

The SBP Termination frame allows either an SBP initiator or an SBP responder to terminate SBP procedure(s). The format of the SBP Termination frame Action field is defined in Figure 9-1140i (SBP Termination frame Action field format).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Category | Public Action | Measurement Setup ID | SBP Termination Control | SBP Parameters Element |
| Octets | 1 | 1 | 1 | 1 | 0 or variable |

**Figure 9-1140i— SBP Termination frame Action field format**

The Category field is defined in 9.4.1.11 (Action field).

The Public Action field is defined in 9.6.7.1 (Public Action frames).

The Measurement Setup ID field is set to the Measurement Setup ID value corresponding to the sensing
measurement setup that was initiated by the SBP procedure, which is intended to be terminated. The
Measurement Setup ID field is defined in Figure 9-1140b (Measurement Setup ID field format.

The format of the SBP Termination Control subfield is shown in Figure 9-xxxx (SBP Termination Control subfield format).

|  |  |  |  |
| --- | --- | --- | --- |
|  | Terminate All SBP Procedures | SBP Error Status ~~Procedure Unsuccess~~ | Reserved |
| Bits | 1 | 1 | 6 |

The Terminate All SBP Procedures subfield is set to 1 to indicate that the STA requests to terminate all established SBP procedures. Otherwise, it is set to 0.

The SBP Error Status ~~Procedure Unsuccess~~ subfield is set to 1 to indicate that the SBP procedure is terminated because of some unsuccessful or terminated sensing measurement setups with the sensing responders that does not satisfy the SBP request invoking the SBP procedure. If it is set to 1, the SBP Parameters element is present in the SBP Termination frame. Otherwise, the SBP Parameters element is not present.

The SBP Parameters element is defined in 9.4.2.330 (SBP Parameters element). When it is present in the SBP Termination frame. The SBP Request subfield is set to 0. The subfields of the Sensing Responder, the Mandatory Number of Responders, the Preferred Responder List, and the Mandatory Preferred Responder are set equal to the subfields indicated in the SBP Parameters element of the SBP Request frame which initiated the SBP procedure indicated with the Measurement Setup ID. The Number of Sensing Responders subfield indicates the actual number of sensing responders ready to participate in the triggered WLAN sensing procedure in response to the SBP request.

The Number of Preferred Sensing Responders subfield indicates the actual number of sensing responders with the known sensing responder addresses ready to participate in the triggered WLAN sensing procedure in response to the SBP request.

**11.55.2.2 Setup**

***Add the following paragraph to the end of this section***

The SBP initiator shall discard any SBP Response frame corresponding to the terminated SBP procedure. ~~The SBP initiator shall not reuse the Dialog Token value before the maximum retransmission timeout.~~

**11.55.2.4 Termination**

~~An SBP procedure shall be terminated after the last SBP Report frame is sent by the SBP responder as indicated in the Last SBP Report subfield in the Sensing Measurement Report Control field.~~

An SBP procedure may be terminated at any time by either the SBP initiator or the SBP responder by transmitting an SBP Termination frame if the SBP initiator is associated to the SBP responder. An SBP procedure may be terminated at any time by the SBP initiator by transmitting an SBP Termination frame if the SBP initiator is unassociated to the SBP responder. An SBP procedure should be terminated during the availability window by the SBP responder by transmitting an SBP Termination frame if the SBP initiator is unassociated to the SBP responder.

If the SBP responder transmits an SBP termination frame or receives an SBP termination frame from the SBP initiator, the SBP responder should terminate all corresponding sensing measurement setups associated with the WLAN sensing procedure triggered by the terminated SBP procedure.

## SP

Do you support the proposed resolutions to the following CIDs and incorporate the text changes into the latest TGbf draft: 48 83 278 280 531 640?

Y/N/A