IEEE P802.11  
Wireless LANs

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| LB272 CR for SBP CID – part 1 | | | | |
| Date: 2023-04-11 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Narengerile | Huawei | Shenzhen, China |  | narengerile@huawei.com |
| Stephen McCann |  |  |  |
| Rui Du |  |  |  |
| Mengshi Hu |  |  |  |
| Zhuqing Tang |  |  |  |
| Yiyan Zhang |  |  |  |

**Abstract**

This document proposes comment resolutions for CIDs 2124, 1248, 1242, 1245, 1258, 1801, 2108, 2211, 2222, and 2223

R0: initial version on April 11, 2023.

R1: revised version on May 16 based on offline discussions, changed the resolutions for CID 2108, 2211, and 2222.

# CID 2124, 1248, 1242

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| **CID** | **Page** | **Comment** | **Proposed change** | **Proposed resolution** |
| 2124 | 116.02 | Confusing term | Perhaps change "The SBP Procedure Expiry Exponent value is equal to" to "The SBP Procedure Expiry value is equal to" | **REVISED**.  Agree with the commenter in principle.  Please incorporate the modifications specified in 23/0626r0 (<https://mentor.ieee.org/802.11/dcn/23/11-23-0626-00-00bf-lb272-cr-for-sbp-cid-part-1.docx>) for CID 2124. |
| 1248 | 116.1 | I believe the SBP Procedure Expiry Exponent subfield shall not be reserved only when the SBP Request field is set to 1. If this is true, move 116.1-5 to be the first item below "If the SBP Request subfield is set to 1" in 116.7. And also define that this subfield is reserved when the SBP Request subfield is set to 0. | As suggested. | **REVISED**.  Agree with the commenter in principle.  Please refer to the discussions and modifications given in 23/0626r0 (<https://mentor.ieee.org/802.11/dcn/23/11-23-0626-00-00bf-lb272-cr-for-sbp-cid-part-1.docx>) for CID 1248 |
| 1242 | 191.16 | Replace "SBP procedure expiry timer value is indicated in the SBP Request frame..." with "SBP procedure expiry timer value is indicated in the SBP Parameters element within the SBP Request frame..." | As suggested. | **REVISED**.  Agree with the commenter in principle.  Please incorporate the modifications specified in 23/0626r0 (<https://mentor.ieee.org/802.11/dcn/23/11-23-0626-00-00bf-lb272-cr-for-sbp-cid-part-1.docx>) for CID 1242. |

**Discussions for CID 1248**

For SBP, it is assumed that the sensing application sits at the SBP initiator, so the SBP initiator knows requirements for sensing, such as the duration of SBP, number of sensing responders, parameters for sensing measurements, etc. The duration of SBP should be determined and indicated by the SBP initiator when sending the SBP Request frame during the SBP setup. And, the duration is not a negotiable parameter. Therefore, we need to differentiate the value of the SBP procedure timer between the SBP Request frame and the SBP Response frame.

**Modification for CID 2142 and 1248**

***To TGbf Editor: Please delete the text in P116 from L1 to L5, and modify the following texts in P116L7.***

If the SBP Request subfield is equal to 1,

* The SBP Procedure Expiry Exponent field contains an unsigned integer. It is encoded according to the conventions in 9.2.2 (Conventions). The SBP procedure expiry timer value is set to ms. It is a time after which the SBP procedure is terminated, if there are no frame exchange sequences (see 11.55.2.4 (Termination)).

— The Sensing Responder subfield is set to 1 to indicate …

* …

***To TGbf Editor: Please modify the following text in P116L63.***

If the SBP Request subfield is equal to 0:

* The SBP Procedure Expiry Exponent field is reserved.

— The Sensing Responder subfield is reserved.

* …

**Modification for CID 1242**

***To TGbf Editor: Please modify the text in P191L16 in D1.0 as follows.***

The SBP procedure expiry timer value is indicated in the SBP Parameters element within the SBP Request frame (see 9.6.7.54 ((Protected) SBP Request frame format)). Upon expiry of the corresponding SBP procedure expiry timer, the SBP procedure is considered terminated (see 11.55.2.4 (Termination)).

# CID 1245

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| **CID** | **Page** | **Comment** | **Proposed change** | **Proposed resolution** |
| 1245 | 191.35 | 191.34-38 defines behavior for REJECTED\_WITH\_SUGGESTED\_CHANGES; and 191.39-44, for SUCCESS. A paragraph is needed for the REQUEST\_DECLINED case. Specifically, normative text is needed to define that .response primitive shall not include Sensing MeasurementParameter nor SBPParameters in this case. | As suggested. | **REVISED**.  Agree with the commenter in principle.  Please refer to the discussions and modifications given in 23/0626r0 (<https://mentor.ieee.org/802.11/dcn/23/11-23-0626-00-00bf-lb272-cr-for-sbp-cid-part-1.docx>) for CID 1245 |

**Discussions for CID 1245**

Given the three status codes, i.e., SUCCESS, REJECTED\_WITH\_SUGGESTED\_CHANGES and REQUEST\_DECLINED, the spec only specifies the MLME-SBP.response primitive parameters when the status code is set to SUCCESS or REJECTED\_WITH\_SUGGESTED\_CHANGES, but lacks the case where the status code is set to REQUEST\_DECLINED, which should be added to the spec.

**Modification for CID 1245**

***To TGbf Editor: Please add the text after P191L44 in D1.0 as follows.***

If the StatusCode parameter within the MLME-SBP.response primitive is equal to REQUEST\_DECLINED, the MLME-SBP.response primitive shall not include a SensingMeasurementParameter nor an SBPParameters parameter.

# CID 1258, 1801

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| **CID** | **Page** | **Comment** | **Proposed change** | **Proposed resolution** |
| 1258 | 194.52 | 11.55.2.4 uses the terms "associated SBP initiator" and "unassociated SBP initiator" without definition. | Either define these two terms or remove these terms from the subclause. | **REVISED**.  Agree with the commenters in principle. For WLAN sensing, the terms associated non-AP STA and unassociated non-AP STA are clear in subclause 11. But, the spec does not mention the association state in the context of SBP.  Please refer to the modifications given in 23/0626r0 (<https://mentor.ieee.org/802.11/dcn/23/11-23-0626-00-00bf-lb272-cr-for-sbp-cid-part-1.docx>) for CID 1258 |
| 1801 | 190.48 | Specification should menton about associateion state for SBP procedure | add sentence like below  the SBP initiator non-AP STA may associate with the SBP responder AP. |

**Modification for CID 1245**

**11.55.2 SBP procedure**

**11.55.2.1 General**

SBP is a procedure that allows a non-AP STA to request an AP to perform WLAN sensing (see 11.55.1(WLAN sensing procedure)) on its behalf.

Implementation of SBP is optional.

***To TGbf Editor: Please modify the following text from P190L56.***

A STA in which both dot11WLANSensingImplemented and dot11SBPImplemented are equal to true shall set the SBP field of the Extended Capabilities element to 1.

A STA in which dot11SBPImplemented is equal to false shall set the SBP field of the Extended Capabilities element to 0.

A non-AP STA may act as SBP initiator when both dot11WLANSensingImplemented and dot11SBPImplemented are equal to true.

An AP may act as SBP responder when both dot11WLANSensingImplemented and dot11SBPImplemented are equal to true.

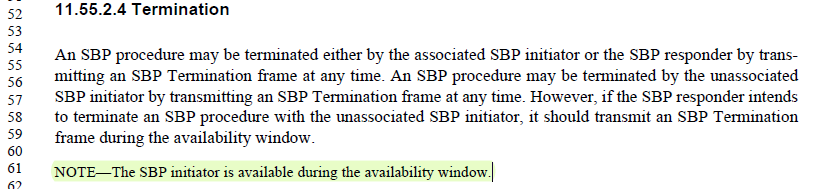
***To TGbf Editor: Please add the following text to P191L3.***

The non-AP STA that acts as SBP initiator may be associated with the AP that acts as SBP responder.

# CID 2108, 2211

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| 2108 | 194.61 | The sentence "The SBP initiator is available during the availability window" is confusing | It can change to "The SBP initiator is available for SBP reporting or for TB sensing measurement instance if the SBP initiator intends to be a sensing responder." | **REVISED**.  Agree with the commenter in principle.  Please refer to the discussions and modifications given in 23/0626r0 (<https://mentor.ieee.org/802.11/dcn/23/11-23-0626-00-00bf-lb272-cr-for-sbp-cid-part-1.docx>) for CID 2108, 2211**.** |
| 2211 | 194.61 | This NOTE is inaccurate. If the SBP initiator is unassociated to the AP, AP cannot guarantee that the SBP initiator will be available during the scheduled window. | Remove the NOTE if not clarified. |

**Discussions for CID 2108, 2211**

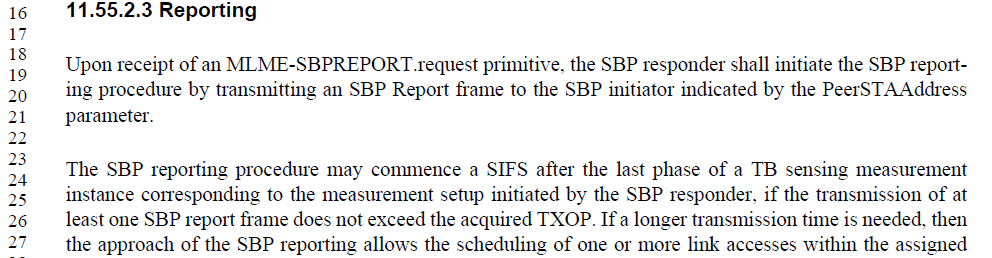


The statement that ‘The SBP initiator is available’ can give a wrong impression that the SBP initiator is always present/available during the availability window, which is not entirely true. We cannot rule out the possibility that the SBP initiator may not respond to the polling from the SBP responder. It helps to specify the availability of the SBP initiator in normative texts. And, this NOTE is attached to the SBP termination section. But the availability of the SBP initiator is not only important for termination, but also for SBP reporting. The proposed changes are

1. Adding normative texts in the section of SBP reporting;
2. Removing the NOTE in P194L61 and revising the text in 11.55.2.4.

**Modification for CID 2108, 2211**

***To TGbf Editor: Please add the following text after P194L21 in 11bf spec.***



The SBP initiator shall be present in the availability window assigned by the SBP responder if it intends to receive SBP report frames from the SBP responder obtained as a result of TB sensing measurement exchanges in the corresponding availability window. (#2108, #2211)

***To TGbf Editor: Please remove the following NOTE and modify the text on P194 as follows.***

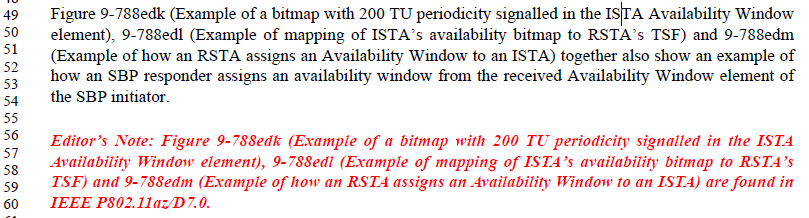
An SBP procedure may be terminated either by the associated SBP initiator or the SBP responder by transmitting an SBP Termination frame at any time. An SBP procedure may be terminated by the unassociated SBP initiator by transmitting an SBP Termination frame at any time. However, if the SBP responder intends to terminate an SBP procedure with the unassociated SBP initiator, it should transmit an SBP Termination frame during the availability window in which the SBP initiator is present (#2108, #2211).

# CID 2222, 2223

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| **CID** | **Page** | **Comment** | **Proposed change** | **Proposed resolution** |
| 2222 | 193.56 | In 11bf draft, there are other subclauses that are referenced without a NOTE. There is no need to have this NOTE. | Delete the NOTE. | **REJECTED.**  A brief discussion is given in 23/0626r0 (<https://mentor.ieee.org/802.11/dcn/23/11-23-0626-00-00bf-lb272-cr-for-sbp-cid-part-1.docx>) for CID 2222**.** |
| 2223 | 194.05 | Typo. | Change "for SBP from and SBP initiator" to "for SBP from SBP initiator" | **ACCEPTED**. |

**Discussions for CID 2222**

This NOTE is suggested to be kept. Because it gives a clear instruction to the developers where to find the example of the availability window element by reading the 11bf spec. This issue will not exist anymore when both 11az and 11bf specs are included in the baseline spec.



SP:

Do you agree to the resolutions provided for CIDs 2124, 1248, 1242, 1245, 1258, 1801, 2108, 2211, 2222, and 2223 to be included in the latest 11bf Draft?

Y/N/A