IEEE P802.11
Wireless LANs

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| Comment Resolutions for CC40 11bf D0.1 SBP MLME CIDs |
| Date: 2022-07-06 |
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Abstract

This submission proposes resolutions of comments received from TGbf comment collection 40 (TGbf Draft 0.1).

* CIDs: 290, 458 (2 CIDs)

Revisions:

* Rev 0: Initial version of the document.
1. **Introduction**

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGbf Draft. The introduction and the explanation of the proposed changes are not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbf Draft (i.e., they are instructions to the 802.11bf editor on how to merge the text with the baseline documents).***

***TGbf Editor: Editing instructions preceded by “TGbf Editor” are instructions to the TGbf editor to modify existing material in the TGbf draft. As a result of adopting the changes, the TGbf editor will execute the instructions rather than copy them to the TGbf Draft.***

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| --- | --- | --- | --- | --- | --- | --- | --- |
| CID | Commenter | Clause  | Page | Line | Comment | Proposed Change | Resolution |
| 290 | Rojan Chitrakar | 6.3 | 18 | 4 | MLME primitives for SBP are missing | Add the MLME primitives for SBP. | **Revised.**Agree with the comment that MLME primitives should be added for SBP.TGbf editor to make the changes shown in IEEE 11-22-0988r0 under all headings that include CID 290. |
| 458 | Claudio da Silva | 6.3 | 18 | 4 | It is necessary to define MLME primitives that support SBP. | Contribution will be provided. | **Revised.**Agree with the comment that MLME primitives should be added for SBP.TGbf editor to make the changes shown in IEEE 11-22-0988r0 under all headings that include CID 458. |

SP: Do you agree to incorporate the changes provided in IEEE 11-22-0988r0 for CIDs 290, 458 to the next revision of 802.11bf draft?

**Discussion:** There are two points of discussion regarding SBP reporting:

1. Does the SBP reporting reuses the Sensing Measurement Report frame, or a new frame type (e.g., SBP Report) should be defined?

Opinion: It is cleaner to define a new frame type for SBP reporting. If the frame format is contentious, we can leave the frame name as “SBP Report frame (**TBD**)” for now and replace throughout the sub-clause once the frame format decision is made.

1. Should one of the primitive sets for Sensing measurement report (TB or Non-TB) be reused for SBP report?

Opinion: Cleaner to define a new set of primitives for SBP reporting regardless of the frame type used for SBP reporting.

6.3 MLME SAP interface

***TGbf editor: Insert the following subclauses at the end of 6.3 (MLME SAP interface), immediately after 6.3.134 WLAN sensing:***

6.3.135 SBP (CIDs 290, 458)

6.3.135.1 General

The following set of MLME primitives supports the SBP procedure defined in 11.21.19 (SBP Procedure). Figure 6-**xxx** (SBP procedure) depicts the MLME primitives that are used for the SBP procedure between a non-AP STA and an AP. A part of Figure 6-28a (WLAN sensing procedure, TB measurement instance) is also included to illustrate the relationship between the SBP procedure and the TB Measurement instance. The figure is an example of the basic SBP procedure and is not meant to be exhaustive of all possible uses of the protocol.



Figure 6-xxx – SBP procedure

6.3.135.2 MLME-SBP.request

6.3.135.2.1 Function

This primitive requests the transmission of an SBP Request frame to a peer STA.

6.3.135.2.2 Semantics of the service primitive

This primitive parameters are as follows:

MLME-SBP.request(

 PeerSTAAddress,

TBD

 )

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the address of the peer MAC entity with which the SBP procedure is to be performed. |
| TBD |  |  |  |

6.3.135.2.3 When generated

This primitive is generated by the SME to request that an SBP Request frame be sent to a peer STA to establish an SBP procedure.

6.3.135.2.4 Effect of receipt

On the receipt of this primitive, the MLME constructs an SBP Request frame and causes it to be transmitted to the peer STA.

6.3.135.3 MLME-SBP.indication

6.3.135.3.1 Function

This primitive indicates that an SBP Request frame has been received requesting the establishment of an SBP procedure.

6.3.135.3.2 Semantics of the service primitive

This primitive parameters are as follows:

MLME-SBP.indication (

 PeerSTAAddress,

TBD

 )

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the address of the peer MAC entity from which the SBP Request frame was received. |
| TBD |  |  |  |

6.3.135.3.3 When generated

This primitive is generated by the MLME when an SBP Request frame is received.

6.3.135.3.4 Effect of receipt

On the receipt of this primitive, the SME should operate according to the procedure in 11.21.19 (SBP procedure) and either accept or reject the SBP request.

6.3.135.4 MLME-SBP.response

6.3.135.4.1 Function

This primitive is generated in response to a MLME-SBP.indication and requests the transmission of an SBP Response frame.

6.3.135.4.2 Semantics of the service primitive

This primitive parameters are as follows:

MLME-SBP.response(

 PeerSTAAddress,

 StatusCode,

 MeasurementSetupID,

TBD

 )

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the address of the peer MAC entity with which the SBP procedure is to be performed. |
| StatusCode | Enumerated value | As defined in the Status Code field. | Indicates the status of the SBP Request |
| MeasurementSetupID | Integer | Any valid ID | Specifies the Measurement Setup ID assigned for the SBP setup. This parameter is only present if the StatusCode is equal to SUCCESS. |
| TBD |  |  |  |

6.3.135.4.3 When generated

This primitive is generated by the SME to request that an SBP Response frame be sent to a peer STA to either accept or reject an SBP request.

6.3.135.4.4 Effect of receipt

On the receipt of this primitive, the MLME constructs an SBP Response frame and causes it to be transmitted to the peer STA.

6.3.135.5 MLME-SBP.confirm

6.3.135.5.1 Function

This primitive reports the results of a SBP request.

6.3.135.5.2 Semantics of the service primitive

This primitive parameters are as follows:

MLME-SBP.confirm(

 PeerSTAAddress,

 StatusCode,

 MeasurementSetupID,

TBD

 )

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the address of the peer MAC entity with which the SBP was requested. This valuematches the PeerSTAAddress parameter specified in the corresponding MLME-SBP.request primitive. |
| StatusCode | Enumerated value | As defined in the Status Code field. | Indicates the status of the SBP Request |
| MeasurementSetupID | Integer | Any valid ID | Specifies the Measurement Setup ID assigned for the SBP setup. This parameter is only present if the StatusCode is equal to SUCCESS. |
| TBD |  |  |  |

6.3.135.5.3 When generated

This primitive is generated by the MLME when the STA receives an SBP Response frame.

6.3.135.5.4 Effect of receipt

On the receipt of this primitive, the SME should operate according to the procedure in 11.21.19 (SBP procedure).

6.3.135.6 MLME-SBPREPORT.request

6.3.135.6.1 Function

This primitive requests the transmission of an SBP Report frame (**TBD**) to a peer STA.

6.3.135.6.2 Semantics of the service primitive

This primitive parameters are as follows:

MLME-SBPREPORT.request(

 PeerSTAAddress,

TBD

 )

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the address of the peer MAC entity to which the SBP Report frame (**TBD**) is to be transmitted. |
| TBD |  |  |  |

6.3.135.6.3 When generated

This primitive is generated by the SME to request that an SBP Report frame (**TBD**) be sent to a peer STA to deliver an SBP report.

6.3.135.6.4 Effect of receipt

On the receipt of this primitive, the MLME constructs an SBP Report frame (**TBD**) and causes it to be transmitted to the peer STA.

6.3.135.7 MLME-SBPREPORT.indication

6.3.135.7.1 Function

This primitive indicates that an SBP Report frame (**TBD**) has been received.

6.3.135.7.2 Semantics of the service primitive

This primitive parameters are as follows:

MLME-SBPREPORT.indication (

 PeerSTAAddress,

TBD

 )

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the address of the peer MAC entity from which the SBP Report frame (**TBD**) was received. |
| TBD |  |  |  |

6.3.135.7.3 When generated

This primitive is generated by the MLME when an SBP Report frame (**TBD**) is received.

6.3.135.7.4 Effect of receipt

On the receipt of this primitive, the SME should operate according to the procedure in 11.21.19 (SBP procedure).

6.3.135.8 MLME-SBPREPORT.confirm

6.3.135.8.1 Function

This primitive reports the results of a request to transmit an SBP Report frame (**TBD**).

6.3.135.8.2 Semantics of the service primitive

This primitive parameters are as follows:

MLME-SBPREPORT.confirm(

 PeerSTAAddress,

TBD

 )

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the address of the peer MAC entity to which the SBP Report frame (**TBD**) was transmitted. This valuematches the PeerSTAAddress parameter specified in the corresponding MLME-SBPREPORT.request primitive. |
| TBD |  |  |  |

6.3.135.8.3 When generated

This primitive is generated by the MLME when the AP successfully transmits an SBP Report frame (**TBD**).

6.3.135.8.4 Effect of receipt

On the receipt of this primitive, the SME may release the resources associated with the SBP report.

6.3.135.9 MLME-SBPTERMINATION.request

6.3.135.9.1 Function

This primitive requests the transmission of an SBP Termination frame to a peer STA.

6.3.135.9.2 Semantics of the service primitive

This primitive parameters are as follows:

MLME-SBPTERMINATION.request(

 PeerSTAAddress,

TBD

 )

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the address of the peer MAC entity to which the SBP Termination frame is to be transmitted. |
| TBD |  |  |  |

6.3.135.9.3 When generated

This primitive is generated by the SME to request that an SBP Termination frame be sent to a peer STA to terminate an SBP procedure.

6.3.135.9.4 Effect of receipt

On the receipt of this primitive, the MLME constructs an SBP Termination frame and causes it to be transmitted to the peer STA.

6.3.135.10 MLME-SBPTERMINATION.indication

6.3.135.10.1 Function

This primitive indicates that an SBP Termination frame has been received requesting

the termination of an SBP procedure, and the corresponding Ack frame has been transmitted.

6.3.135.10.2 Semantics of the service primitive

This primitive parameters are as follows:

MLME-SBPTERMINATION.indication (

 PeerSTAAddress,

TBD

 )

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the address of the peer MAC entity from which the SBP Termination frame was received. |
| TBD |  |  |  |

6.3.135.10.3 When generated

This primitive is generated by the MLME when an SBP Termination frame is received.

6.3.135.10.4 Effect of receipt

On the receipt of this primitive, the SME should operate according to the procedure in 11.21.19 (SBP procedure).

6.3.135.11 MLME-SBPTERMINATION.confirm

6.3.135.11.1 Function

This primitive confirms that an SBP Termination frame has been received by the peer STA to which it was sent.

6.3.135.11.2 Semantics of the service primitive

This primitive parameters are as follows:

MLME-SBPTERMINATION.confirm(

 PeerSTAAddress,

TBD

 )

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the address of the peer MAC entity to which the SBP Termination frame was transmitted. This valuematches the PeerSTAAddress parameter specified in the corresponding MLME-SBPTERMINATION.request primitive. |
| TBD |  |  |  |

6.3.135.11.3 When generated

This primitive is generated by the MLME when an Ack frame corresponding to the SBP Termination frame is received from the peer STA.

6.3.135.11.4 Effect of receipt

On the receipt of this primitive, the SME may release the resources associated with the SBP procedure.