IEEE P802.11  
Wireless LANs

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| LB272 Comment Resolution for SBP procedure | | | | |
| Date: 2023-05-06 | | | | |
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Abstract

This document proposes resolution to LB272 SBP related CIDs.

The list of CIDs is: 1651, 1652, 1653, 1654, 1655, 1243

The proposed changes are based on 802.11bf/D1.0.

Revision history:

R0: Original version

R1: Add CR for CID1243

R2: Text supplement

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| **CID** | **Commenter** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** | **Resolution** |
| 1651 | Rojan Chitrakar | 11.55.2.1 | 190.56 | "A STA in which both dot11WLANSensingImplemented and dot11SBPImplemented are true shall set the SBP field of the Extended Capabilities element to 1." Can dot11SBPImplemented be true without dot11WLANSensingImplemented being true? If not it is not necessary to mention dot11WLANSensingImplemented. If a dependency is assumed, then it is simpler to state the dependency in the definition of dot11SBPImplemented, instead of repeating it everytime. | Change to align with the syntax of the false case: "A STA in which dot11SBPImplemented is true shall set the SBP field of the Extended Capabilities element to 1." | Rejected  This paragraph aligns with section11.55.1.2 and 11.55.3.2, indicating that the SBP field is jointly controled by dot11WLANSensingImplemented and dot11SBPImplemented. Consensus has been reached that STA with SBP capability should also be able to support WLAN sensing. |
| 1652 | Rojan Chitrakar | 11.55.2.2 | 190.65 | Can dot11SBPImplemented be true without dot11WLANSensingImplemented being true? If not it is not necessary to mention dot11WLANSensingImplemented. If a dependency is assumed, then it is simpler to state the dependency in the definition of dot11SBPImplemented, instead of repeating it everytime. | Change as: "A non-AP STA may act as SBP initiator when dot11SBPImplemented is true." | Revised.  TGbf Editor: Perform changes specified in  https://mentor.ieee.org/802.11/dcn/23/11-23-0762-02-00bf- LB272 Comment Resolution for SBP procedure.docx |
| 1653 | Rojan Chitrakar | 11.55.2.2 | 191.01 | Can dot11SBPImplemented be true without dot11WLANSensingImplemented being true? If not it is not necessary to mention dot11WLANSensingImplemented. If a dependency is assumed, then it is simpler to state the dependency in the definition of dot11SBPImplemented, instead of repeating it everytime. | Change as: "An AP may act as SBP responder when dot11SBPImplemented is true." | Revised.  TGbf Editor: Perform changes specified in  https://mentor.ieee.org/802.11/dcn/23/11-23-0762-02-00bf- LB272 Comment Resolution for SBP procedure.docx |
| 1654 | Rojan Chitrakar | 11.55.2.2 | 191.07 | Can dot11SBPImplemented be true without dot11WLANSensingImplemented being true? If not it is not necessary to mention dot11WLANSensingImplemented. If a dependency is assumed, then it is simpler to state the dependency in the definition of dot11SBPImplemented, instead of repeating it everytime. | Simplify as: "If dot11SBPImplemented is true, to establish ..." | Revised.  TGbf Editor: Perform changes specified in  https://mentor.ieee.org/802.11/dcn/23/11-23-0762-02-00bf- LB272 Comment Resolution for SBP procedure.docx |
| 1655 | Rojan Chitrakar | 11.55.2.2 | 191.20 | Can dot11SBPImplemented be true without dot11WLANSensingImplemented being true? If not it is not necessary to mention dot11WLANSensingImplemented. If a dependency is assumed, then it is simpler to state the dependency in the definition of dot11SBPImplemented, instead of repeating it everytime. | Simplify as: "On receiving an SBP Request frame, if dot11SBPImplemented is true, the SBP responder shall ..." | Revised.  TGbf Editor: Perform changes specified in  https://mentor.ieee.org/802.11/dcn/23/11-23-0762-02-00bf- LB272 Comment Resolution for SBP procedure.docx |
| 1243 | Claudio da Silva | 11.55.2.2 | 191.21 | "On receiving an SBP Request frame, if both dot11WLANSensingImplemented and dot11SBPImplemented are true, the SBP responder..." Suggest deleting "if both... are true" from this sentence, and write normative text that defines that an SBP Request frame shall only be sent to an AP which has these 2 dot11 values set to true. | As suggested. | Accepted. |

**Discussion**:

The CIDs, 1651-1655, all focus on the issue of whether there is a dependency between dot11SBPImplemented and dot11WLANSensingImplemented. The contributor generally agrees with these comments that there is no need to repeating dot11SBPImplemented and dot11WLANSensingImplemented everytime, but would like to use SBP field to indicate the ability of STA or AP to participate in the SBP procedure, and clarify the dependency to align with the syntax of paragraph11.55.1.2 and 11.55.3.2.

According to the SP in 11-23/0428, “WLAN sensing” will be replaced with “Sensing”.

***TGbf editor, please make the following change in subclause 11.55.2.1:***

**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. A STA in which both dot11SensingImplemented and dot11SBPImplemented are true is defined as a STA that supports SBP.

Implementation of SBP is optional.

A STA in which both dot11WLANSensingImplemented and dot11SBPImplemented are true shall set the

SBP field of the Extended Capabilities element to 1.

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

to 0.

(#1652)A non-AP STA may act as SBP initiator when ~~both dot11WLANSensingImplemented and dot11SBPImplemented are true~~ *the SBP field of the Extended Capabilities element is set to 1*.

(#1653)An AP may act as SBP responder when ~~both dot11WLANSensingImplemented and dot11SBPImplemented are true~~ *the SBP field of the Extended Capabilities element is set to 1*.

***TGbf editor, please make the following change in subclause 11.55.2.2:***

(#1654) ~~If both dot11WLANSensingImplemented and dot11SBPImplemented are true~~ *If SBP is supported*, to establish an SBP procedure, the SME of a non-AP STA (SBP initiator) shall issue an MLME-SBP.request primitive with PeerSTAAddress parameter equal to the intended SBP responder’s MAC address. The MLME-SBP.request primitive shall include valid SBPParameters and SensingMeasurementParameter parameters. The MLMESBP.request primitive may include a SensingResponderAddresses parameter to indicate a set of preferred sensing responders.

(#1655, 1243)On receiving an SBP Request frame, ~~if both dot11WLANSensingImplemented and dot11SBPImplemented are true~~ the SBP responder shall validate the frame and issue an MLME-SBP.indication primitive.

SP: Do you agree to the resolutions of CIDs 1651, 1652, 1653, 16544, 1655, 1243 as depicted in document 11-23-0563r3?

**References: 802.11bf\_D1.0**