IEEE P802.11
Wireless LANs

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |
| --- |
| CC40 CR for CIDs on MIBs  |
| Date: 2022-09-28 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Mahmoud Kamel | InterDigital |  |  | mahmoud.kamel@interdigital.com |
| Zinan Lin | InterDigital |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

 |

Abstract

This submission proposes resolutions for 5 CIDs (747, 800, 868, 771, 887) in subclause 11.21 in P802.11bf D0.1:

NOTE – Set the Track Changes Viewing Option in the MS Word to “All Markup” to clearly see the proposed text edits.

**Revision History:**

R0: Initial version

# CIDs 747, 800

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** | **Resolution** |
| 747 | 11.21.18.2 | 66.37 | Consider replacing "dot11SensingMsmtImplemented" with a set of dot11TBSensingMsmtImplemented, dot11NTBSensingMsmtImplemented, dot11SPBSensingMsmtImplemented" and modify the coresponding text in this paragraph accordingly | As per comment | **Revised**The MIB variable **dot11SensingMsmtImplemented** is replaced by **dot11WLANSensingImplemented** in 802.11bf D0.3 to indicate the support of both TB and non-TB sensing measurement instances. Further, the MIB variable **dot11SBPImplemented** is used to indicate the support of sensing by proxy.  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 800 | 11.21.18.2 | 66.42 | It’s not clear whats the connection between dot11SensingMsmtImplemented and the ability to support TB and NTB sensing. Does the fomer mean a STA is capable of supporting both TB and NTB sensing or one or the other ? | Clarify that if dot11SensingMsmtImplemented is true, an AP shall support TB sensing session as an initiator and NTB sensing as a responder. Conversely, if this MiB variable is true, a non-AP STA shall support NTB sensing session as an initiator and TB sensing as a responder. Also, add the corresponding MiB variable in Annex C. | **Revised**The MIB variable **dot11SensingMsmtImplemented** is replaced by **dot11WLANSensingImplemented** in 802.11bf D0.3 to indicate the support of both TB and non-TB sensing measurement instances. Also, this MIB variable and other MIB variables are added to Appendix C. TGbf editor: please incorporate changes shown in 11-22/1674r0 below. |

***TGbf Editor: Insert the following text in Appendix C***

# Annex C

# (normative)

# ASN.1 encoding of the MAC and PHY MIB.

# C.3 MIB Detail

***Insert the following entry at the end the following object as shown below:***

Dot11WirelessMgmtOptionsEntry ::=

SEQUENCE {

 …

 dot11WLANSensingImplemented TruthValue,

 dot11SBPImplemented TruthValue,

 dot11DMGSensingMsmtImplemented TruthValue

 }

# CID 868

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** | **Resolution** |
| 868 | 11.21.19.6 | 73.60 | It is clear that an AP STA must indicate in the extended capabilities field that it supports the SPB responder role. However, it is not clear why a non-AP STA would need to indicate it supports a SBP initiator role in the extended capabilities. The SBP bit is described as being set by a STA, which would require a non-AP STA to set that bit. Define the SBP bit as being set to 1 by an AP STA if dot11SBPImplemented is true, and 0 otherwise. | Change text to: "An AP STA in which dot11SBPImplemented is true shall set the SBP field of the Extended Capabilities element to 1." "An AP STA in which dot11SBPImplemented is false shall set the SBP field of the Extended Capabilities element to 0."Add the sentance: "A non-AP STA shall set the SBP field of the Extended Capabilities element to 0." | **Revised**Since SBP is optional, it should be indicated by both the AP and the non-AP such that the AP knows before hand which non-AP STAs support this feature and would setup its availability for such service accordingly.  |

# CIDs 771, 887

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** | **Resolution** |
| 771 | 11.21.18 | 64.32 | The concept of WLAN sensing procedure should cover the baseline WLAN sensing procedure, SBP procedure, and DMG sensing procedure. | Change the title of clause 11.21.18 to "Baseline WLAN sensing procedure" | **Revised** We may change the titles of the subclauses 11.21.18, 11.21.19, 11.21.20 to reflect that each subclause addresses different variants of WLAN sensing TGbf editor: please incorporate changes shown in 11-22/1674r0 below. |
| 887 | 11.21 | 64.26 | Somewhere in the spec should indicate subclauses 11.21.18 and 11.21.19 are for 1-7.125 GHz bands, and 11.21.20 is for above 45 GHz bands | as in comment | **Revised** We may change the titles of the subclauses 11.21.18, 11.21.19, 11.21.20 to reflect that each subclause addresses different variants of WLAN sensing TGbf editor: please incorporate changes shown in 11-22/1674r0 below. |

***TGbf Editor: Please modify Clause 11.21 11bf D0.3 P88L31 as follows***

**11.21.18 WLAN baseline sensing procedure**

**11.21.18.1 Overview**

A WLAN baseline sensing procedure allows a STA to perform WLAN sensing in Sub-7 GHz band.

**11.21.19 WLAN SBP procedure**

**11.21.19.1 General**

SBP is a procedure that allows a non-AP STA to request an AP to perform WLAN sensing (see 11.21.18

(WLAN sensing procedure)(#455)) on its behalf in either Sub-7 GHz band or above 45 GHz band.

**11.21.20 WLAN (E)DMG sensing procedure**

**11.21.20.1 Overview**

DMG sensing types include monostatic, bistatic, multistatic, monostatic sensing with coordination, bistatic

sensing with coordination, and passive sensing in above 45 GHz band.