IEEE P802.11
Wireless LANs

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| Resolutions for CID 49 and 50 — follow up |
| Date: December 1, 2022 |
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Abstract

This submission proposes resolutions to CID 49 and CID 50. The text used as reference is 802.11bf D0.4.

Revisions:

* Rev 0: Initial version of the document.

**Comments:**

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| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 49 | 11.21.18 | 64.32 | WLAN sensing discovery procedure is missing. An AP may carry the sensing capabilities information for its surrounding APs in order to speed up the discovery process. For example, in the RNR element. | As in comment. | **Revised.**Some members disagree with adding sensing capability related information to the RNR element in offline discussion. But it is acceptable to add such information to the Neighbor Report element.TGbf editor please implement changes as shown in doc 11-22/2086r0 tagged as #49. |
| 50 | 11.21.18 | 64.32 | WLAN sensing discovery procedure is missing. In multi-BSSID set, transmitted BSSID may carry the sensing capabilities information for the nontransmitted BSSID. | As in comment. | **Rejected.**According to offline discussion “AP and its corresponding antennas for the non-transmitted BSSIDs as well as transmitted BSSID are basically the same (same behavior for ranging) it really has no value to share the info as one of AP’s provide similar if not exactly the same sensing information.” This comment is rejected. |

**9.4.2.36 Neighbor Report element**

***TGbf Editor: Please change Figure 9-398 (BSSID Information field format) in 802.11be draft 2.2 as follows and add it into 802.11bf D0.4:***

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | B0 B1 | B2 | B3 | B4 B9 | B10 | B11 | B12 | B13 | B14 |
|  | AP Reachability | Security | Key Scope | Capabilities | Mobility Domain | High Throughput | Very High Throughput | FTM | High Efficiency |
| Bits: | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | B15 | B16 | B17 | B18 | B19 | B20 | B21 | B22 | B23 B31 |
|  | ER BSS | Co-Located AP | Unsolicited Probe Responses Active | Members Of ESS With 2.4/5GHz Co-Located AP | OCT Supported With Reporting AP | Co-Located With 6GHz AP | Extremely High Throughput | Sensing | Reserved |
| Bits: | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |

**Figure 9-398—BSSID Information field format(#49)**

The Sensing field is set to 1 to indicate that the AP represented by this BSSID is an AP that has set the WLAN Sensing field of the Extended Capabilities element to 1. The Sensing field is set to 0 to indicate either that the reporting AP has dot11WLANSensingImplemented equal to false, or the reported AP has not set the WLAN Sensing field of the Extended Capabilities element to 1 or that the WLAN Sensing field of the reported AP is not available to the reporting AP at this time.(#49)

***TGbf Editor: Please add the following contents to subclause 11.55.1.3 (Sensing session setup).***

##### 11.55.1.3 Sensing session setup

In the sensing session setup of a WLAN sensing procedure, a sensing session is established, and operational parameters associated with the sensing session are determined and may be exchanged between STAs.

In order to accelerate the sensing capability discovery between APs and STAs, an AP transmits a Beacon or Probe Response frame carrying one or more of its neighboring APs’ sensing capabilities shall include in the frame a Neighbor Report element. Neighboring AP’s sensing capability is indicated in the BSSID Information field (see Figure 9-398 (BSSID Information field format)) in the Neighbor Report element. (#49)

**SP : Move to approve resolutions to CID 49 and CID 50 as specified in doc.: 11-22/2086r0 and incorporate the text changes into the latest TGbf draft.**