IEEE P802.11
Wireless LANs

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| LB276 CR on sensing measurement reporting  |
| Date: 2023-11-14 |
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Abstract

This document aims to resolve the following five LB272 CIDs related to sensing measurement reporting: 3356, 3358, 3377, 3412, and 3467.

R0: Initial version (never presented)

R1: Some minor changes

R2: Changes in the proposed resolution

The following five LB276 CIDs are related to sensing measurement reporting:

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| **CID** | **Clause**  | **Page** | **Comment** | **Proposed Change** |
| 3356 | 11.55.1.3 | 137.54 | Currently, there is no way for a non-AP STA to indicate to an AP STA that it is not capable or willing to send reports, although the current sensing procedures support sensing without sending over-the-air report. The standard should include a way to relay this information to the AP STA for a more efficient setup. | Include 'No OTA report support' as a possible status code or a field in the sensing subelements included as a part of REJECTED\_WITH\_SUGGESTED\_CHANGES status code. |
| 3358 | 11.55.1.3 | 137.54 | A non-AP STA should be capable of indicating to an AP that it won't send the sensing report to the AP via 802.11 frames. | Include a signaling to allow a non-AP STA to indicate "No OTA report support" to an AP. |
| 3377 | 11.55.1.3 | 137.54 | Spec allows non-AP STAs to support sending without having to send an over-the-air report. Unfortuntely, there is no way for the non-AP STA to indicate that it is not capable or unwilling to send reports. Define a signaling scheme to allow non-AP STA to report this information to an AP STA | In the sensing subelelemts (as part of the REJECTED\_WITH\_SUGGESTED\_CHANGES status code or a field), allow a non-AP STA to report: "No OTA Report Support" |
| 3412 | 11.55.1.4.1 | 137.54 | Currently, the only method for a sensing responder to tell a sensing initiator that it is not able or willing to provide sensing measurement reports is to reject a request, but the sensing initiator still isn't aware of the reason such that it will potentially try to establish a session with this responder over and over again, which is inefficient. | Add a more efficient method for a sensing responder to tell the sensing initiator about its current reporting capability. |
| 3467 | 11.55.1.3 | 137.54 | Current sensing procedures support sensing without sending over-the-air report. However, there is no way for a non-AP STA to indicate to an AP STA that it is not capable or willing to send reports. The standard should include a way to relay this information to the AP STA for a more efficient setup. | Include 'No OTA report support' as a possible status code or a field in the sensing subelements included as a part of REJECTED\_WITH\_SUGGESTED\_CHANGES status code. |

**Discussion:**

According to the current draft (D2.0), if a sensing responder is unwilling to transmit Sensing Measurement Report frames over the air due to a certain reason, it is allowed to decline the sensing measurement request and let the sensing initiator know that it is unwilling to feedback CSI measuement.

**Proposed resolution**: Revised. Incorporate the changes in

<https://mentor.ieee.org/802.11/dcn/23/11-23-2071-02-00bf-lb272-cr-on-sensing-measurement-reporting.docx>

*TGbf Editor: Please insert the following paragraph on Page 139 Line 49 of Clause 11.55.1.4.1 (General) of D2.1.*

NOTE - If a sensing responder is not able to accept a request carried within a Sensing Measurement Request frame with the Sensing Measurement Report Requested field being set to 1, it can set the status code to REJECTED\_WITH\_SUGGESTED\_CHANGES and set the Sensing Measurement Report Requested field of Sensing Measurement Parameters element to 0 in the Sensing Measurement Response frame.

**SP:** Do you agree to the resolution provided in the document 11-23/2071r2for the following five CIDs: 3356, 3358, 3377, 3412, and 3467?