IEEE P802.11
Wireless LANs

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| LB276 CR on capability of sensing measurement reporting  |
| Date: 2023-11-16 |
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Abstract

This document aims to resolve the following 16 LB276 CIDs related to the capability of sensing measurement reporting: 3079, 3080, 3086, 3088, 3090, 3098, 3099, 3101, 3102, 3103, 3104, 3106, 3127, 3139, 3140, and 3141.

R0: Initial version

R1: Minor modification on the proposed resolution

R2: Further modification on the proposed resolution

The following 16 LB276 CIDs are related to the sensing responder’s capability of sensing measurement reporting:

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| --- | --- | --- | --- | --- |
| **CID** | **Clause**  | **Page** | **Comment** | **Proposed Change** |
| 3079 | 9.4.2.321 | 76.01 | According to Motion 60, transmission of Sensing Measurement Report frames by a sensing responder is optional. | Add a one-bit subfield "Reporting" to Figure 9-1002bi (Sensing field format) |
| 3080 | 11.55.1.2 | 135.20 | According to Motion 60, transmission of Sensing Measurement Report frames by a sensing responder is optional. | Add the following paragraph: "Implementation of transmitting Sensing Measurement Report frames is optional." |
| 3086 | 9.4.2.321 | 75.48 | There was a motion on SFD that conducting CSI report feedback is optional on the responder STA. The motion was not reflected in Draft 1.0 and 2.0. The corresponding CIDs for D1.0 were all rejected due to lack of consensus. The CSI report is not necessary for all applications. The simplest and most popular WiFi sensing applications nowadays do not require the CSI report. The standard should allow a "phased" roll-out plan for WiFi Sensing product certifications in the industry, and speed up the debut of the first gen 11bf solutions in the marketplace rather than delaying it by years, given that there are already competing wireless sensing technologies! The CSI report also has security concerns that were not addressed in D2.0. | In the Sensing field of Sensing Capability Element, add 1 bit to indicate whether CSI report is supported at the responding Station. |
| 3088 | 11.55.1.2 | 135.20 | Sensing Measurement Report Optional | Sensing Measurement Report support is optional, and needs to be explicitly listed. |
| 3090 | 9.4.2.321 | 76.01 | According to Motion 60, transmission of Sensing Measurement Report frames by a sensing responder is optional. | Add a one-bit subfield "Reporting" to Figure 9-1002bi (Sensing field format) |
| 3098 | 11.55.1.2 | 135.20 | According to Motion 60, transmission of Sensing Measurement Report frames by a sensing responder is optional. | Add the following paragraph: "Implementation of transmitting Sensing Measurement Report frames is optional." |
| 3099 | 9.4.2.321 | 76.01 | According to Motion 60, transmission of Sensing Measurement Report frames by a sensing responder is optional. | Add a one-bit subfield "Reporting" to Figure 9-1002bi (Sensing field format) |
| 3101 | 9.4.2.321 | 76.01 | Please make sure of that transmission of Sensing Measurement Report frames by a sensing responder is optional. | Add a one-bit subfield "Reporting" to Figure 9-1002bi (Sensing field format) |
| 3102 | 11.55.1.2 | 135.20 | Please make sure of that transmission of Sensing Measurement Report frames by a sensing responder is optional. | Add the following paragraph: "Implementation of transmitting Sensing Measurement Report frames is optional." |
| 3103 | 9.4.2.321 | 76.01 | According to Motion 60, transmission of Sensing Measurement Report frames by a sensing responder is optional. | Add a one-bit subfield "Reporting" to Figure 9-1002bi (Sensing field format) |
| 3104 | 11.55.1.2 | 135.20 | According to Motion 60, transmission of Sensing Measurement Report frames by a sensing responder is optional. | Add the following paragraph: "Implementation of transmitting Sensing Measurement Report frames is optional." |
| 3106 | 9.4.2.321 | 76.01 | CSI reporting should be made optional and a capability exchange bit needs to be added | Add a 1-bit indication to exchange CSI reporting capability0: CSI reporting not supported1: CSI reporting supported |
| 3127 | 11.55.1.2 | 135.20 | According to Motion 60, transmission of Sensing Measurement Report frames by a sensing responder is optional. | Add the following paragraph: "Implementation of transmitting Sensing Measurement Report frames is optional." |
| 3139 | 9.4.2.321 | 76.05 | According to Motion 60 in 11-20/1874, reporting of sensing measurement results by a sensing responder is optional. A capability bit is missing in the draft corresponding to the optional feature. | Add a capability bit definition to allow a sensing STA to claim its capability. |
| 3140 | 9.4.2.321 | 76.01 | Motion 60 stipulates that the transmission of Sensing Measurement Report frames by a sensing responder is optional. | It is recommended to include a one-bit subfield labeled as "Reporting" into Figure 9-1002bi(Sensing field format) |
| 3141 | 11.55.1.2 | 135.20 | Motion 60 stipulates that the transmission of Sensing Measurement Report frames by a sensing responder is optional. | it is important to note that the implementation of transmitting Sensing Measurement Report frames is optional. |

**Discussion:**

A set of LB272 CIDs proposing the same changes were discussed during the comment resolution process of LB272 (see document 23/0882) and rejected due to lack of technical consensus on resolution in TGbf. Based on offline discussions, we conclude that there is still no consensus in resolving the above LB276 CIDs.

**Proposed resolution**:

Rejected. The TG could not reach consensus on the changes necessary to address the comments. A set of LB272 CIDs proposing the same changes were discussed during the comment resolution process of LB272 (see document 23/0882). Based on offline discussions, we conclude that there is still no consensus in resolving the above LB276 CIDs.

**SP:** Do you agree to the resolutions provided in the document 11-23/2093r2for the following 16 CIDs: 3079, 3080, 3086, 3088, 3090, 3098, 3099, 3101, 3102, 3103, 3104, 3106, 3127, 3139, 3140, and 3141?