IEEE P802.11  
Wireless LANs

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| LB281 CR for OST CIDs (11.55.1 Sensing Procedure) | | | | |
| Date: 2024-01-16 | | | | |
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Abstract

This submission discusses resolutions to the following 12 CIDs from LB281 of TGbf D3.0.

The CID list is: 4014, 4015, 4017, 4045, 4046, 4073, 4074, 4085, 4251, 4281, 4284, 4292

Proposed changes in this document are with reference to TGbf D3.0.

Revisions:

* Rev 0: Intitial version of the document
* Rev 1: Updated CR to CID 4251
* Rev 2:
  + Changed title of contribution and obtained new DCN from <https://mentor.ieee.org/802.11/dcn/24/11-24-0082-01-00bf-lb281-cr-for-ost-cids-11-5-1-sensing-procedure.docx>
  + Update after discussions to CR to CIDs 4015, 4085, 4251, 4281
* Rev 3: Updated DCN in header

Proposed comment resolution

Presented and discussed, no open discussion points

Under discussion

G/T must be satisfied comment

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| **CID** | **Commentor** | **Cat** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 4281 | Liuming Lu | G | 136.08 | The description is confusing as a sensing procedure may contain one or more sensing measurement session(s). | Suggest to change "A sensing procedure is initiated with the establishment of a sensing measurement session, which is then followed by" to "A sensing procedure is initiated with the establishment of one or more sensing measurement session(s), which is then followed by..." | Revised  **TGbf Editor:**  Please change “the establishment of a sensing measurement session” to “the establishment of at least one sensing measurement session” |
| 4292 | Chris Beg | T | 136.13 | The description in the overview section describes the session, exchange, and termination parts of the sensing procedure, but does not reference the capabilities exchange. | Suggest adding the following text in section 11.55.1.1 to introduce the capability exchange (perhaps to the first paragraph): "Before initiating a sensing procedure, a capability exchange (see 11.55.1.3 (Sensing capabilities exchange)) is required to allow two sensing STAs to obtain the sensing capabilities of each other." | Revised  **TGbf Editor:**  Please add the following paragraph after P135L12:  “Before initiating a sensing procedure, two sensing STAs may exchange their sensing capabilities (see 11.55.1.3 (Sensing capabilities exchange)) to obtain the sensing capabilities of each other." |
| 4014 | Chaoming Luo | E | 136.28 | Change "as both a sensing transmitter and sensing receiver" to "as both a sensing transmitter and a sensing receiver" | As in comment, add "a" before "sensing receiver" | Accepted |
| 4015 | Chaoming Luo | E | 136.55 | The Q matrix stuff related text, from P136L55 to P137L44, should be moved to 11.55.1.5.4 Common rules, since that subclause talks about no antenna swapping. | As in comment. | Revised  **TGbf Editor:**  Please move the text from P136L55 to P137L44 to subclause 11.55.1.5.4 after P161L30 |
| 4251 | Dong Wei | T | 137.62 | Since the support of Ng values are the same for a STA supporting receiving five or more spatial streams regardless of bandwidth, it is better to merge the two paragraphs. | Replace the 4th and 5th paragraphs of 11.55.1.2 with "A sensing STA that supports receiving five or more spatial streams shall support Ng=8 and may support Ng=16 in the Sensing Measurement Report frame that results from an SI2SR NDP, SR2SI NDP, or SR2SR NDP regardless of the bandwidth." | Revised  Table 9-127l starting on P58L52 only defines Ng = 8 for BW >= 160 MHz. Hence P137L62-65, should be only defined for Ng = 4 and 16 for BW <= 80 MHz.  **TGbf Editor:**  Please replace “Ng = 8” with “Ng = 4” on P137L62. |
| 4284 | Mahmoud Kamel | T | 139.49 | In P137L51, it is stated that "A sensing STA shall support the sensing procedure as both a sensing initiator and a sensing responder." which makes it mandatory for all sensing STAs to support both initiator and responder roles. However, in the note in P139L49 it is stated that "NOTE--An unassociated non-AP STA that is only a sensing responder ... ". There is a contardiction between both sentences. | change the note text to "NOTE--An unassociated non-AP STA can store an AP's sensing capabilities if at least one of the established sensing measurement sessions initiated by the AP is not terminated. Based on the AP's sensing capabilities, the unassociated non-AP STA can establish a sensing measurement session with the AP to perform non-TB sensing measurement exchanges." | Revised  See also CID 4017  **TGbf Editor:**  Please replace the sentence on P139L49-51 with the following one: “An unassociated non-AP STA can store an AP’s sensing capabilities if at least one of the established sensing measurement sessions is active.” |
| 4017 | Chaoming Luo | E | 139.51 | Use positive word, change "is not terminated" to "active" since in 11.55.1.1 we have stated "A sensing measurement session shall be active ..." | As in comment. | Revised  See CID 4284 |
| 4045 | Chaoming Luo | E | 162.53 | The note should be move to P163L37 since it talks about implicit termination. And change the last sentence to "all of the corresponding sensing measurement session expiry timers of multiple sensing measurement sessions within the same sensing availability window set to aMeasurementSessionExpiry (see Table 11-32a (Sensing procedure timing-related parameters))." | As in comment. | Revised  See also CID 4073  **TGbf Editor:**  Please move the note form P162L53-58 to P163L37 and change it as follows:  “If a sensing responder establishes multiple sensing measurement sessions with an AP and a sensing responder acts as a transmitter ~~role~~, participating only in the TF sounding phase with SR2SI variant in ~~a~~ TB sensing measurement exchanges, after the corresponding TF sounding phase, all of the corresponding sensing measurement session expiry timers of multiple sensing measurement sessions are set to aMeasurementSessionExpiry (see Table 11-32a (Sensing procedure timing-related parameters)).” |
| 4073 | Stephan Sand | E | 162.56 | "all of the corresponding sensing measurement session expiry timers of multiple sensing measurement sessions set to aMeasurementSessionExpiry" is grammatically incorrect | Please add "are" before "set to" | Accepted |
| 4074 | Stephan Sand | E | 163.11 | Please use "a Sensing Measurement Termination frame" instead of "sensing Measurement Temrination frame" on P163L11 and apply the same change to P170L23 | As in comment | Accepted |
| 4085 | Xiandong Dong | T | 163.11 | The AP shall send the sensing Measurement Termination frame to the Unassocaited STA in the AVW, it is more accurate, rephrase the sentence. | as in comment | Rejected  The paragraph addresses both TB and non-TB sensing measurement exchange terminations for an unassociated STA, but the AVW is only valid for TB sensing measurement exchanges. |
| 4046 | Chaoming Luo | E | 163.12 | Remove "(see 11.55.1.6 (Sensing measurement session termination))", since the commented paragraph itself is in 11.55.1.6. | As in comment | Accepted |

# Straw Poll

Do you support the resolution of the following 12 CIDs and instruct TGbf editor to incorporate the changes into the latest TGbf draft: 4014, 4015, 4017, 4045, 4046, 4073, 4074, 4085, 4251, 4281, 4284, 429?

Y/N/A