IEEE P802.11
Wireless LANs

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| LB276 comment resolutions for measurement session |
| Date: 2023.10.31 |
| Author(s): |
| Name | Company | Address | Phone | email |
| Zhuqing Tang | Huawei Technologies | Huawei Base, Shenzhen, Guangdong, China, 518129 |  | tangzhuqing@huawei.com |
| Rui Du |  |  |
| Narengerile |  |  |
| Mengshi Hu |  |  |
| Yiyan Zhang |  |  |

Abstract

This submission proposes resolutions to the following comments submitted in LB276 under measurement session topic.

CIDs: 3129, 3311, 3312, 3534

Revision history:

R0: Original version

R1: Revised version based on Ali’s suggestions

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| **CID** | **Clause** | **Page** | **Comment** | **Proposed change** | **Proposed resolution** |
| 3129 | 11.55.1.4.1 | 140.26 | Figures are missing. | Figures 9-788edk, 9-788edl, and 9-788edm are missing. Put a note as in SBP description.Editor's Note: Figure 9-788edk (Example of a bitmap with 200 TU periodicity signalled in the ISTAAvailability Window element), 9-788edl (Example of mapping of ISTA's availability bitmap to RSTA'sTSF) and 9-788edm (Example of how an RSTA assigns an Availability Window to an ISTA) are found inIEEE P802.11az/D7.0. | ~~Accepted~~RevisedTGbf Editor make changes specified in 1715r1.([https://mentor.ieee.org/802.11/dcn/23/11-23-1715-01-00bf-lb276-comment resolutions-for-measurement-session-part-1.docx](https://mentor.ieee.org/802.11/dcn/23/11-23-1715-01-00bf-lb276-comment%20resolutions-for-measurement-session-part-1.docx)) |

**Discussion:**

It is applicable to add the same note in the indicated place describing the same figures.

Note that 11az has been published. Thus, the editor’s note needs to be updated.

**Resolution:**

***Instructions to the editor: please add the following paragraph in P140L45 in the subclause 11.55.1.5.2.1 in D2.1 as shown below:***

Figure 9-788edk (Example of a bitmap with 200 TU periodicity signalled in the ISTA Availability Window element), 9-788edl (Example of mapping of ISTA’s availability bitmap to RSTA’s TSF) and 9-788edm (Example of how an RSTA assigns an Availability Window to an ISTA) together also show an example of how an SBP responder assigns a sensing availability window from the received Availability Window element of the SBP initiator.

*Editor’s Note: Figure 9-788edk (Example of a bitmap with 200 TU periodicity signalled in the ISTA*

*Availability Window element), 9-788edl (Example of mapping of ISTA’s availability bitmap to RSTA’s TSF) and 9-788edm (Example of how an RSTA assigns an Availability Window to an ISTA) are found in ~~IEEE P802.11az/D7.0~~ IEEE 802.11az Standard.*

If the sensing initiator includes a TB Sensing Specific subelement in a Sensing Measurement Request frame,

the CSI Variation Threshold field shall be set according to the following:

— If the Sensing Receiver field or the Sensing Measurement Report Requested field of the Sensing

Measurement Parameters is set to 0, then the CSI Variation Threshold field is reserved.

— If the last Sensing Capabilities element received from the STA addressed by the AID/USID field has

the Threshold-based Reporting field set to 1, and the sensing initiator intends to use threshold-based

reporting in the corresponding TB sensing measurement exchanges, then the CSI Variation Threshold

field shall be set to a value in the range of 0 to 10 to indicate the CSI variation threshold (see

Table 9-401u (CSI Variation Threshold field definition)). Otherwise, the CSI Variation Threshold

field shall be set to 15 to indicate basic reporting is used in the corresponding TB sensing measurement

exchanges.

***Instructions to the editor: please modify the following sentence in red in P165L8 in the subclause 11.55.2.2 in D2.1 as shown below:***

Figure 9-788edk (Example of a bitmap with 200 TU periodicity signalled in the ISTA Availability Window element), 9-788edl (Example of mapping of ISTA’s availability bitmap to RSTA’s TSF) and 9-788edm (Example of how an RSTA assigns an Availability Window to an ISTA) together also show an example of how an SBP responder assigns a sensing availability window from the received Availability Window element of the SBP initiator.

*Editor’s Note: Figure 9-788edk (Example of a bitmap with 200 TU periodicity signalled in the ISTA*

*Availability Window element), 9-788edl (Example of mapping of ISTA’s availability bitmap to RSTA’s TSF) and 9-788edm (Example of how an RSTA assigns an Availability Window to an ISTA) are found in ~~IEEE P802.11az/D7.0~~ IEEE 802.11az Standard.*

An SBP responder shall reject a request for SBP from an SBP initiator by setting the Status Code field in the SBP Response frame to REQUEST\_DECLINED or REJECTED\_WITH\_SUGGESTED\_CHANGES if the SBP responder cannot assign the SBP initiator to a sensing availability window that overlaps with a 10 TUs interval in which the SBP initiator is available (as signalled by the ISTA Availability Window element in the SBP Request frame).

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| 3311 | 11.55.1.4.1 | 140.15 | The text needs correction. 'If the sensing responder is not available in the sensing availability window provided by the AP, ...', this rule applies only to associated STA, because U-STA has already provided it's ISTA AVW in MS-Q, no reason to provide it in MS response again. | Change to: If the sensing responder, which is associated with the AP, is not available in the sensing availability window provided by the AP, | ~~Accepted~~RevisedTGbf Editor make changes specified in 1715r1.([https://mentor.ieee.org/802.11/dcn/23/11-23-1715-01-00bf-lb276-comment resolutions-for-measurement-session-part-1.docx](https://mentor.ieee.org/802.11/dcn/23/11-23-1715-01-00bf-lb276-comment%20resolutions-for-measurement-session-part-1.docx)) |
| 3312 | 11.55.1.4.1 | 140.19 | The sentence 'The TB sensing specific subelement shall include an ISTA availability window element' misses its condition, which is stated in the previous sentence. Suggest to merge the two sentences. | Change to: If the sensing responder, which is associated with the AP, is not available in the sensing availability window provided by the AP, the sensing responder shall set the STATUS CODE to REJECTED\_WITH\_SUGGESTED\_CHANGES and include a TB sensing specific subelement, which shall include an ISTA availability window element (see 9.4.2.296 (ISTA Availability Window element)), in the Sensing Measurement Response frame. | RevisedTGbf Editor make changes specified in 1715r1.([https://mentor.ieee.org/802.11/dcn/23/11-23-1715-01-00bf-lb276-comment resolutions-for-measurement-session-part-1.docx](https://mentor.ieee.org/802.11/dcn/23/11-23-1715-01-00bf-lb276-comment%20resolutions-for-measurement-session-part-1.docx)) |

**Resolution:**

***Instructions to the editor: please revise the following paragraph in P144L52 in the subclause 11.55.1.5.2.1 in D2.1 as shown below:***

If the sensing initiator is an AP and it intends to assign operational parameters to a sensing responder, it shall include a TB Sensing Specific subelement in the Sensing Measurement Parameters element in a Sensing Measurement Request frame and shall assign the following:

— The 12bit AID/USID field.

— The Poll Assigned field shall be set to 1 if the Poll Required field within the last Sensing Capabilities element received from the sensing responder is set to 1, or it intends to poll the non-AP STA in the TB sensing measurement exchange.

— The CSI Variation threshold field shall be set to the range between 0 to 10 if the sensing responder is

to be part of threshold-based reporting and set to 15 if the sensing responder is to be part of basic

reporting.

— The SR2SR field shall be set to 1 only if the SR2SR subfield in the last Sensing Capabilities element

received from the sensing responder is set to 1.

— The RSTA Availability Information field in the RSTA Availability Window element containing

exactly one Availability Window Information field. The Availability Window Broadcast Format

subfield in the Header subfield in the RSTA Availability Information field in this RSTA Availability

Window element shall be set to 0 (see 9.4.2.297 (RSTA Availability Window element)). The assigned availability window for the unassociated sensing responder shall overlap with a 10 TU interval signaled by the ISTA Availability Window element in the Sensing Measurement Session Query frame.

If the sensing responder is an associated non-AP STA, and it is not available in the sensing availability window provided by the AP, the sensing responder shall set the STATUS CODE to REJECTED\_WITH\_SUGGESTED\_CHANGES and include a TB sensing specific subelement in the Sensing Measurement Response frame. The TB sensing specific subelement shall include an ISTA availability window element (see 9.4.2.296 (ISTA Availability Window element)).

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| 3534 | 11.55.1.4.1 | 141.49 | Any action constraint for the sensing initiator if a Sensing Measurement Response frame with the Status Code equals to " REJECTED\_WITH\_SUGGESTED\_CHANGES" is received from the sensing responder? May the sensing initiator send a new Sensing Measurement Request frame including the suggested changes? If So, when can the new Sensing measurement Request frame be sent? Within the time Decline Duration field indicates or after the time Decline Duration field indicates? | Please clarify the procedure requirement for the case where the Status Code field is REJECTED\_WITH\_SUGGESTED\_CHANGES | ~~Revised~~RejectReason: there is no need to constrain the behaviour when the Status Code field is REJECTED\_WITH\_SUGGESTED\_CHANGES. The behaviour is implementation dependent. |

**Discussion**

When the sensing initiator receives a sensing measurement response frame with a status code set to REJECTED\_WITH\_SUGGESTED\_CHANGES, it is up to the sensing initiator whether to initiate a new session or not. The sensing initiator could refer to the suggested parameters provided by the sensing responder to increase the session setup efficiency. The new Sensing measurement Request frame can be sent whenever necessary. The Decline Duration field is only present when the status code has been set to REQUEST\_DECLINED.

## SP

Do you support the proposed resolutions to the CIDs 3129, 3311, 3312, 3534 and incorporate the text changes into the latest TGbf draft?

Y/N/A