IEEE P802.11Wireless LANs

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| Proposed Resolutions to Miscellaneous CIDs of 11az SAB1 | | | | |
| Date: 2022-04-04 | | | | |
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Abstract

This submission proposes the resolutions to 11az SAB1 CID- 7285, 7286, 7204, 7205, 7207, and 7215.

The page and line numbers refer to those in 11az Draft 4.1 [1].

**Introduction**

This submission proposes the resolutions to miscellaneous 11az SAB1 CID- 7285, 7286, 7204, 7205, 7207, and 7215.

The page and line numbers refer to those in 11az Draft 4.1 [1].

**Comments:**

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| CID | Page/Line | Clause | Comment | Proposed change | Resolution |
| 7285 | P132/L22 | 11.21.6.3.3 | "When an ISTA has included the Secure LTF subelement in the Ranging Parameters element in its 22 IFTMR frame and sets the value of the Secure LTF Required field to 1, the ISTA shall set the Max 23 R2I Rep and Max I2R Rep subfields to a value greater than 0, and both RSTA Assigned R2I Rep 24 and RSTA Assigned I2R Rep shall be greater than 0." There is no technical reason for the requirement to always use >1 repetitions | remove | Reject.  The 11az group discussed the mandating of repetition when using Secure HE-LTF several times, and the agreement within the group was that repetition shall be used in a secure HE-LTF session. |
| 7286 | P133/L05 | 11.21.6.3.3 | "NOTE 1—The setting of the I2R LMR Feedback subfield to 1 in the Ranging Parameters field in the Ranging Parameters element contained in the IFTMR frame and IFTM frame respectively is based on higher layer agreements." - always? How about headless devices? | Change to "NOTE 1—The setting of the I2R LMR Feedback subfield to 1 in the Ranging Parameters field in the Ranging Parameters element contained in the IFTMR frame and IFTM frame respectively may be based on higher layer agreements." | Reject.  When a device provides the I2R LMR Feedback at the MAC layer (i.e., setting the I2R LMR Feedback subfield to 1), it is based on the device owner’s agreement, given at a higher layer above the MAC layer, to share its I2R LMR Feedback at the MAC layer. This applies to all device categories. No text change on this Note 1 is needed. |
| 7204 | P154/L03 | 11.21.6.4.3.3 | "The number of LTF repetitions in the R2I Rep subfield shall be set to a value not to exceed the RSTA Assigned R2I Rep, for the correponding ISTA." Please clarify in the STA Info field for different users, the value for the R2I Rep shall be the same when secure LTF is not used. | As in comment. | Revised.  Agree with the commenter.  TGaz editor: please incorporate the text change in this document (22/605r0) with tag (# 7204).  Insert link.  <https://mentor.ieee.org/802.11/dcn/21/11-22-0605-00-00az-proposed-resolutions-to-miscellaneous-CIDs-of-11az-SAB1.docx> |
| 7205 | P46/L01 | 9.3.1.19 | "I2R Rep" in STA Info field fomat in the Raniging NDPA shall be specified as "reserved" for TB ranging, because I2R Rep is included in TF\_sounding for TB ranging. | As in comment. | Revised.  Agree with the commenter.  TGaz editor: please incorporate the text change in this document (22/605r0) with tag (# 7205).  <https://mentor.ieee.org/802.11/dcn/21/11-22-0605-00-00az-proposed-resolutions-to-miscellaneous-CIDs-of-11az-SAB1.docx> |
| 7207 | P60/L13 | 9.4.2.21.10 | Figure 9-256d missing the lower half of the figure. | Correct the figure to make it complete. | Revised.  Agree with the commenter. The lower half of Figure 9-256d is missing due to editorial errors.  TGaz editor: please restore Figure 9-256d as shown in 11az\_D3.0 page 57. |
| 7215 | P21/L21 | 3.4 | Abbreviation for "KDK" is missing. | Please add "KDK: key derivation key" to the abbreviation list. | Accept. |

**Proposed resolution**

***TGaz Editors: Change the text in 9.3.1.19, page 153, line 21-32. as follows: (# 7204)***

Similarly, in the Ranging NDP Announcement frame, the RSTA shall set the R2I N\_STS subfield and R2I Rep subfield of the STA Info fields corresponding to each of the ISTAs, addressed by that frame in the following way

* The R2I N\_STS subfield value shall not exceed the *RSTA assigned R2I STS ≤ 80 MHz* for the corresponding ISTA, if the TXVECTOR parameter CH\_BANDWIDTH for this Ranging NDP Announcement frame is less than or equal to 80 MH, and not exceed *RSTA assigned R2I STS > 80 MHz* for the corresponding ISTA otherwise.
* The number of LTF repetitions in the R2I Rep subfield shall be set to a value not to exceed the *RSTA Assigned R2I Rep*, for the corresponding ISTA. (#3699)
* Whe secure LTF is not used, the R2I Rep subfield in the STA Info field for different users shall be set to the same value.
* The combination of the values of the R2I N\_STS and the R2I Rep shall not lead to a total number of LTF that exceeds the *RSTA Assigned R2I LTF Total* for each corresponding ISTA.

***TGaz Editors: Change the text in 9.3.1.19, page 47, line 1-4 as follows: (# 7205)***

The R2I Rep and I2R Rep subfields are set to the number of HE-LTF repetitions of the corresponding HE Ranging NDP minus 1; see 27.3.18a (HE Ranging NDP). In the case of TB ranging measurement exchange, see 11.22.6.4.3 (TB ranging measurement exchange), the I2R Rep subfield is reserved. If the I2R and R2I Rep subfields have a value equal to 0, then there is no repetition in the I2R and R2I NDP respectively. (#**5435**, #**5452**, #**5376**, #**7026**)

**References**

[1] IEEE P802.11az™/D4.1, Draft Standard for information technology – Telecommunications and information exchange between systems Local and metropolitan area networks – Specific requirements, Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications, Amendment 4: Enhancements for positioning