IEEE P802.11  
Wireless LANs

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| 802.11  Resolutions to a few LB249 comments – Part 3  (relative to IEEE 802.11 REVmd D3.0 and P802.11az D2.0) | | | | |
| Date: 2020-01-16 | | | | |
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**Abstract**

This submission proposes resolutions to the following LB249 CIDs: 3440, 3441, 3490, 3034, 3035, 3231, and 3840.

History:

R0: Initial Version

R1: With updates from the Thu PM1 session.

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| 3440 | 74.00 | 13 | 9.4.2.296 | The first sentence is not needed since it is clear per the the format. | Remove the first sentnce. | Revise. Incorporate the editor instructions corresponding to CID #3440 in submission 11-20/0126. |

Resolution: Revise.

***TGaz Editor: Modify the paragraph in P74L13 as shown below:***

The Immediate R2I Feedback and Immediate I2R Feedback subfields indicate if the R2I and I2R Location Measurement Report (LMR) is delayed or immediate (#3440). The value of 0 indicates a delayed feedback, in which case the measurement results included in the received LMR frame are from the previous measurement; the value of 1 indicates an immediate feedback, in which case the measurement results included in the LMR frame are from the received measurement. The Immediate R2I Feedback and Immediate I2R Feedback subfields correspond to the RSTA-to-ISTA LMR or ISTA-to-RSTA LMR respectively.

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| 3441 | 74.00 | 15 | 9.4.2.296 | It is not in the current LMR frame. It is in the LMR frames of the negotiated ranging session. | change the text per the comment. | Revise. The issue identified in this CID is addressed by the resolution to CID #3441. No further specification changes are required. |

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| 3490 | 75.00 | 9 | 9.4.2.296 | "The Device Class and Full Bandwidth I2R MU-MIMO subfields are defined in Table 9-322b, 9 Subfields of the HE PHY Capabilities Information field." -- no such table, and the table caption should be in parens, not after a comma. There is a Table 9-321b--Subfields of the HE PHY Capabilities Information field, but it doesn't contain a "Full Bandwidth I2R MU-MIMO subfield" (for obvious reasons) | As it says in the comment | Revise.  Incoporte the editor instructions corresponding to CID #3490 in submission 11-20/0126. |

Discussion: The correct reference is Table 9-321b is in PIEEE802.11ax D6.0. The Full Bandwidth I2R MU-MIMO in Table 9-321b is Full Bandwidth UL MU-MIMO.

Resolution: Revise.

***TGaz Editor: Replace Full Bandwidth I2R MU-MIMO to Full Bandwidth UL MU-MIMO in Table 9-1006.***

***TGaz Editor: Modify the paragraph in P75L9-12 as shown below:***

The Device Class and Full Bandwidth UL MU-MIMO subfields correspond to the Device Class and Full Bandwidth UL MU-MIMO fields (#3490) defined in Table 9-321b (Subfields of the HE PHY Capabilities Information field). For associated STAs the value of the Device Class and Full Bandwidth UL MU-MIMO subfields are equal to the value of the Device Class and Full Bandwidth UL MU-MIMO fields respectively that is exchanged during association.

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| 3034 | 76.00 | 3 | 9.4.2.296 | What is "Subelement ID (0)" ? What is the "(0)"? Should be a better name than (0) and (1) | Use a more descriptive name | Reject.  The field name is Subelement ID (and is descriptive of the function it serves). The value in parenthesis identifies the value of the Subelement ID as defined in Table 9-1001. |
| 3035 | 76.00 | 22 | 9.4.2.296 | What is "Subelement ID (1)" ? What is the "(1)"? Should be a better name than (0) and (1) | Use a more descriptive name | Reject.  The field name is Subelement ID (and is descriptive of the function it serves). The value in parenthesis identifies the value of the Subelement ID as defined in Table 9-1001. |

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| 3231 | 76.00 | 3 | 9.4.2.296 | Figure 9-1007--Non-TB specific subelement format still has a field "Immediate LMR Feedback". Since the Ranging Parameters field has both I2R and R2I Immediate feedback subfields, this is redundant | Remove and change to "Reserved" | Revise.  Incorporate the editor instructions corresponding to CID #3231 in submission 11-20/0126. |

Discussion: Agree that the Immediate LMR Feedback field needs to be removed. Should this bit be rendered reserved? Or should the Min Time Between Measurements be rendered 24 bits wide?

Resolution: Revise.

***TGaz Editor: Modify Figure 9-1007 Non-TB specific subelement format as shown below:***

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|  | B0 B7 | B8 B15 | B16 | B17 B39 | B40 B59 | B60 B63 |
|  | Subelement ID (0) | Length | Reserved  (#3231) | Min Time Between Measurements | Max Time Between Measurements | Reserved |
| Bits: | 8 | 8 | 1 | 23 | 20 | 4 |

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| 3965 | 76.00 | 21 | 9.4.2.296 | Figure 9-1008--TB Specific subelement format shows a "Response" bit. The bit is not defined and there is no reference to this bit. | Remove "Response" bit | Revise.  Incorporate the editor instructions corresponding to CID #3965 in submission 11-20/0126. |

Resolution: Revise.

***TGaz Editor: Modify Figure 9-1008 TB specific subelement format as shown below:***

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|  | Subelement ID (1) | Length | Availability Window | AID/RSID | Reserved  (#3965) | Trigger Frame Padding Duration | Passive TB Ranging | Max Session Exp | BSS Color Information |
| Bits: | 8 | 8 | Variable | 16 | 1 | 2 | 1 | 4 | 8 |

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| 3840 | 78.00 | 16 | 9.4.2.296 | "The range of valid values for Max Session Exp is 0 to 15 with corresponding 16 maximum time duration values ranging from 256 milliseconds to 140 minutes." -- this is obvious for a 4-bit field. This would only be needed to be stated if not all possible 4-bit values were allowed, but they are | Delete the cited text | Accept.  Incorporate the editor instructions corresponding to CID #3840 in submission 11-20/0126. |

Resolution: Accept.

TGaz Editor: Modify the paragraph in P78L14-18 as shown below:

The Max Session Exp field is the time before which a new measurement exchange between the ISTA and RSTA should be initiated and completed. This value is computed as 2(Max Session Exp + 8) milliseconds. The Max Session Exp field is reserved in an initial FTM Request frame.