IEEE P802.11  
Wireless LANs

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| 802.11  Resolutions to a few LB249 comments – Part 5  (relative to IEEE 802.11 REVmd D3.2 and P802.11az D2.2) | | | | |
| Date: 2020-06-17 | | | | |
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**Abstract**

This submission proposes resolutions to the following LB249 CIDs: 3232, 3440.

History:

R0: Initial Version

R1: updated with discussion in the July 17th teleconference

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| 3232 | 76.22 | 9.4.2.296 | In Figure 9-1008--TB Specific subelement format the "Availability Window" field is in the middle, wouldn't it be easier to put this variable length field at the end so all the other fields are in predictable positions? | Move "Availability Window" field to the end of the element | Reject. Please refer to the discussion under CID #3232 in submission 11-20-0800 for the reason for Rejection. |

Discussion:

The Availability Window field in the TB Specific subelement (included in the Ranging Parameters element) is either a ISTA Availability Window element or a RSTA Availability Window element depending on the frame which includes the Ranging Parameters element (initial Fine Timing Measurement Request or initial Fine Timing Measurement frame, respectively). So despite being labelled as a field of variable length in Figure 9-1008, the element in this specific field has a length field within it that deterministically indicates what the length of the Availability Window field is. So moving this field to the element of the subelement format is not needed.

Resolution: Reject.

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| 3440 | 74.13 | 9.4.2.296 | The first sentence is not needed since it is clear per the the format. | Remove the first sentence | Revise. Incorporate editor instructions corresponding to CID 3440 in submission 11-20-0800. |

Discussion: Agree that the first sentence is redundant. However, removing it will make the rest of paragraph no readbable. Need an introductory sentence.

Resolution: Revise.

***TGaz Editor: Render consistent usage of ISTA-to-RSTA LMR and RSTA-to-ISTA LMR in the entire specification***

***TGaz Editor: Modify the paragraph in P74L13-19, Clause 9.4.2.296 as shown below:***

The Immediate R2I Feedback and Immediate I2R Feedback subfields indicate if the measurement results from the current measurement exchange are reported immediately by setting it to 1 (from the current measurement) or delayed by setting it to 0 (from the previous measurement) in the RSTA-to-ISTA LMR and ISTA-to-RSTA LMR respectively.

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| 3565 | 115.4 | 11.22.6.2 | "If the STA in which dot11FineTimingMsmtRespActivated is true supports Passive TB Ranging. 4  It shall set the Passive TB Ranging Responder Measurement Support field of the Extended 5  Capabilities element to 1. Otherwise it shall set the Passive TB Ranging Responder Measurement 6  Support field of the Extended Capabilities element to 0. " -- if support for RSTA implies support for PSTA (and lack of support for RSTA implies lack of support for PSTA), then there's no need to signal the latter | Get rid of the Passive TB Ranging Responder Measurement Support field and Passive TB Ranging Initiator Measurement Support field | Revise  A TB Responder may not be a Passive TB Responder.  A TB Initiator may not be a Passive TB initiator |

Discussion: A Responder implementation may or may not support Passive Ranging. So, a field is intended to indicate if the implementation supports Passive Ranging. The same applies to Initiator implementations as well. A potential optimization could be to coalesce

1. Passive TB Ranging Initiator and Passive TB Responder fields into one Passive TB Ranging field.
2. Or disassociate Responder/Initiator capabilities from Passive TB Ranging Responder/Initiator capabilities – in which both the fields Passive TB Ranging Initiator and Passive TB Ranging Responder capability are needed.

Resolution: Revise.

***TGaz Editor: Change the following paragraphs in P115L4012 (Cl. 11.22.6.2) as shown below:***

If the STA in which dot11FineTimingMsmtRespActivated is true supports Passive TB Ranging. It shall set the Passive TB Ranging Responder Measurement Support field of the Extended Capabilities element to 1. Otherwise it shall set the Passive TB Ranging Responder Measurement Support field of the Extended Capabilities element to 0.  
  
If the STA in which dot11FineTimingMsmtInitActivated is true supports Passive TB Ranging. It shall set the Passive TB Ranging Initiator Measurement Support field of the Extended Capabilities element to 1. Otherwise it shall set the Passive TB Ranging Initiator Measurement Support field of the Extended Capabilities element to 0.