IEEE P802.11  
Wireless LANs

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| LB272-DMG-CIDs-v3 | | | | |
| Date: 2023-03-29 | | | | |
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Abstract

This document proposes resolution to several LB272 DMG related CIDs.

The list of CIDs is: 1054, 1851, 2106, 2174, 2175, 2177, 1367, 1368, 2214, 2093, 2180, 2091, 1411, 1371, 1372, 1373, 1682, 1378, 1374

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| 1054 |  | 0.00 | 11bf lacks of phase report in (E)DMG report elements for vital sign detection. Vital sign detection is one of 11BF use cases. | Add phase report in (E)DMG report elements for vital sign detection | Revised: this CID has been resolved by https://mentor.ieee.org/802.11/dcn/23/11-23-0505-01-00bf-lb272-dmg-cids-phase-report.docx |

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| 1851 | 11.55.3.1 | 106.42 | This paragraph refers to 4 timer values, T1 through T4. Presumably, these values for T1 and T2 are intra-burst intervals defined in Figure 11-741. However there is no cross reference to the figure where they are defined. Furthermore the WLAN sensing sub-clauses define T2 and T3 as timers, which conflicts with this definition. | In the cited paragraph, add a cross reference to the figure where T1 through T4 are defined. And describe what T1-T4 are. | Reject. The whole set of paragraphs discuss an example that is based on figure 11-74l. The figure is referenced at the beginning of the example. The values of T1, T2, T3, T4 areactually defined in the text the commenter is referring to. |

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| 2106 | 9.4.2.296 | 108.43 | In the sentense "If used in a WLAN sensing procedure (see 11.55.1 (WLAN sensing procedure)) or in a DMG sensing procedure (see 11.55.3 (DMG sensing procedure))", Availability window is not used in DMG sensing. | delete "or in a DMG sensing procedure (see 11.55.3 (DMG sensing procedure))" | Accept |
| 2174 | 9.4.2.296 | 108.43 | ISTA Availability Window element is not used in DMG sensing procedure. The text is inaccurate. | Delete "or in a DMG sensing procedure (see 11.55.3 (DMG sensing procedure)) " | Accept |
| 2175 | 9.4.2.297 | 109.19 | RSTA Availability Window element is not used in DMG sensing procedure. The text is inaccurate. | Delete "or in a DMG sensing procedure (see 11.55.3 (DMG sensing procedure)) " | Accept |

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| 2177 | 9.4.2.323 | 120.04 | The text should specify which frames can contain DMG Sensing Beam Descriptor element. | Add text to specify the possible frames that can include a DMG Sensing Beam Descriptor element. | Revise  TGbf Editor: Perform changes specified in  https://mentor.ieee.org/802.11/dcn/23/11-23-0563-03-00bf-lb272-dmg-cids-v3.docx |

***TGbf Editor: Change the text in P120L243 (first sentence of 9.4.2.323) as follows:***

The DMG Sensing Beam Descriptor element contains a set of descriptors of the beam patterns. The DMG Sensing Beam Descriptor element is present at frames in which the DMG Sensing Capabilities element (see 9.4.2.322 DMG Sensing Capabilities element) is present. The number

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| 1367 | 9.4.2.323 | 121.01 | The encoding of the beam gain subfield is not clear. Not sure whether it is signed or unsigned. | replace "The Beam Gain subfield contains the beam gain" with "The Beam Gain subfield is an usigned integer containing the beam gain" | Accept |

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| 1368 | 9.4.2.324 | 121.62 | The Paragraph in P121L63 refers to STA while the rest of subclause refers to AP. "AP" should be used where "STA" is used in this paragraph | replace "STA" with "AP" in this paragraph | Revise  TGbf Editor: Perform changes specified in  https://mentor.ieee.org/802.11/dcn/23/11-23-0563-03-00bf-lb272-dmg-cids-v3.docx |

Disucssion:

Its actually the paragraph above, that limits the discussion to AP that is wrong.

***TGBf Editor: change the text in P121L59 as follows:***

The Location Available subfield indicates that the STA can provide its location.

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| 2214 | 9.4.2.325 | 123.20 | Multiple Golays subfield is in the DMG Sensing Measurement Setup element, which is not included in a DMG sensing measurement response frame when the setup is successful. Therefore, if this subfield is present in a response frame, it can only be the case where the status code is REJECTED\_WIT\_SUGGESTED\_CHANGES. So, it is not an "agreement". | Please modify the text for clarification. | Revise  TGbf Editor: Perform changes specified in  https://mentor.ieee.org/802.11/dcn/23/11-23-0563-03-00bf-lb272-dmg-cids-v3.docx |

***TGbf Editor: change the text in P123L17-22 as follows:***

If present in a DMG Sensing Measurement Setup Request frame, the Multiple Golays subfield is set to 1 to indicate a request by the sensing initiator to use different Golay sequences in the TRN fields of PPDUs sent in different DMG sensing instances.

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| 2093 | 9.4.2.325 | 123.24 | The Report Type subfield indicates .... Possible values for this subfield are defined ... | As in comment. | Revise  TGbf Editor: Perform changes specified in  https://mentor.ieee.org/802.11/dcn/23/11-23-0563-03-00bf-lb272-dmg-cids-v3.docx |

***TGbf Editor: Change the text in P123L24-25 as follows***

The Report Type subfield indicates which type of report the sensing initiator expects from the sensing responder. Possible values for this subfield are defined in Table 9-401v (Report Type subfield definition).

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| 2180 | 9.4.2.325.4 | 126.33 | Burst Response Delay should be a maximum delay needed by the sensing responder to generate a burst-based report. | Change "time" to "maximum time". | Accept |

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| 2091 | 9.4.2.328 | 127.44 | The DMG Sensing Report Control element is sent in a DMG Sensing Measurement Report frame if ... | As in comment. | Revise  TGbf Editor: Perform changes specified in  https://mentor.ieee.org/802.11/dcn/23/11-23-0563-03-00bf-lb272-dmg-cids-v3.docx |

***TGbf Editor: Change the text in P126L44-45 as follows:***

The DMG Sensing Report Control element is sent in a DMG Sensing Measurement Report frame. The structure of the DMG Sensing Report Control element is shown in Figure 9-1002bu (DMG Sensing Report Control element format).

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| 1411 | 9.4.2.328 | 128.42 | Table number needs to be consistent with the one in 802.11REVme D2.1. "The subfields of the Channel Measurement Type subfield are defined in Table 9-293 (FBCK-TYPE field description)." | change table number to Table 9-294 | Accept |

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| 1371 | 9.4.2.328 | 128.46 | "The Channel Measurement Feedback type field is defined in 9.4.2.136 (Channel Measurement Feedback element)" - there is no Channel Measurement Feedback type field in figure 9-1002bv | Remove the paragraph in P128L45-47 | Accept |

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| 1372 | 9.4.2.328 | 128.49 | "The Sensing Report frame contains more than one Channel Measurement Feedback element if the measurement information exceeds 255 octets (see 9.6.21.3 (BRP frame format))" - the Sensing Report frame does not contain Channel Feedback. The text about Channel Measurement Feedback exceeding the length of 256 should move to 9.6.21.10 - DMG Sensing Measurement Report frame | Remove the paragraph in P128L49-51, Add text about the case of channel measurement feedback to 9.6.21.10 | Revise  TGbf Editor: Perform changes specified in  https://mentor.ieee.org/802.11/dcn/23/11-23-0563-03-00bf-lb272-dmg-cids-v3.docx |

***TGbf Editor: Delete the text in P128:27-29***

***TGbf Editor: Add the following text at the end of the paragraph in P158L46:***

The DMG Sensing Measurement Report frame contains more than one Channel Measurement Feedback element if the measurement information exceeds 255 octets (see 9.6.21.3 (BRP frame format))

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| 1373 | 9.4.2.329.1 | 129.06 | "The DMG Sensing Report element contains a DMG sensing report (see 11.55.3 (DMG sensing procedure))" - this sentence does not realy say anything | Remove this sentence | Revise  TGbf Editor: Perform changes specified in  https://mentor.ieee.org/802.11/dcn/23/11-23-0563-03-00bf-lb272-dmg-cids-v3.docx |

***TGbf Editor: Change the text in P129L6 as follows***

The DMG Sensing Report element contains DMG sensing report information (see 11.55.3.7 (DMG sensing measurement reporting)).

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| 1682 | 9.4.2.329.1 | 129.60 | In Figure 9-1002by, why is the AID/USID field 8 bits and the total field length not 3 octets? | Please clarify. | Reject:  The AID field was kept at 8 bits in DMG to keep consistency with other usages of AID in DMG. |

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| 1378 | 9.4.2.329.1 | 130.47 | There is not text here indicating that multiple subelements of the same type (DMG sensing report and DMG Sensing Target Report Data) are present in the same element. This should be indicated here | Indicate that multiple copies of the same subelement may be present. | Revise  TGbf Editor: Perform changes specified in  https://mentor.ieee.org/802.11/dcn/23/11-23-0563-03-00bf-lb272-dmg-cids-v3.docx |

***TGbf Editor: Add the following text at the end of the paragraph in P130L46-49:***

Multiple DMG Sensing Image Report Data subelements may be present in a DMG Sensing Report element if the sensing image report information is longer than 255 octets.

***TGbf Editor: Add the following text at the end of the paragraph in P130L51-54:***

Multiple DMG Sensing Targets Report Data subelements may be present in a DMG Sensing Report element if the sensing targets report information is longer than 255 octets.

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| 1374 | 9.4.2.329.2 | 131.32 | "The Reference Timestamp field contains the lower 4 octets of the TSF timer value sampled at the instant that the last DMG sensing instance incorporated in this report was received." - reference time is not accurate enough | replace with "The Reference Timestamp field contains the lower 4 octets of the TSF timer value sampled at the PHY-RXSTART.indication of first PPDU in the last DMG sensing instance incorporated in this report was received" | Accept |

SP: Do you agree to the resolutions of CIDs 1054, 1851, 2106, 2174, 2175, 2177, 1367, 1368, 2214, 2093, 2180, 2091, 1411, 1371, 1372, 1373, 1682, 1378, 1374 as depicted in document 11-23-0563r3?

**references: Draft P802.11bf\_D1.0**