IEEE P802.11
Wireless LANs

|  |
| --- |
| LB272-DMG-CIDs-v1 |
| Date: 2023-03-12 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Assaf Kasher | Qualcomm |  |  | akasher@qti.qualcomm.com |

Abstract

This document proposes resolution to several LB272 DMG related CIDs.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1299 | 9.3.1.25.5 | 82.35 | Some subfields in Figure 9-110a are not necessary for the coordinated bistatic sensing type, such as the Num of STAs in Instance, Number of PPDUs in Instance, EDMG TRN-Unit P, EDMG TRN-Unit M, EDMG TRN-Unit N and so on. We need to define which subfieds shall be reserved in coordianted bistatic sensing. | As in comment | Revised: TGbf Editor make changes as in https://mentor.ieee.org/802.11/dcn/22/ 11-23-0412-01-00bf-LB272-DMG-CIDs-v1 |
| 1298 | 9.3.1.25.5 | 82.40 | In coordinated Bistataic DMG Sensing instances, both the DMG Sensing Request frame and the BRP frame are used. The two frames both include the Sensing Instance SN subfield and the First Beam Index subfield which have the same meaning. It is necessary to clarify that these two subfields in DMG Sensing Request frame and the BRP frame shall have the same value. | As in comment | Revised: TGbf Editor make changes as in https://mentor.ieee.org/802.11/dcn/22/ 11-23-0412-01-00bf-LB272-DMG-CIDs-v1 |
| 1355 | 9.3.1.25.5 | 83.17 | These subfields are reserved when the Sensing Type is set to Coordinated Monostatic - also for coordianted bistatic | replace "Coordianted Monstatic" with "Corrdianted Monstatic or Coordinated Bistatic" |  Revised: TGbf Editor make changes as in https://mentor.ieee.org/802.11/dcn/22/ 11-23-0412-01-00bf-LB272-DMG-CIDs-v1 |

***TGbf Editor: Change the text in P83L14-18 as follows:***

The EDMG TRN Length, RX TRN-Units per Each TX TRN-Unit, EDMG TRN-Unit P, EDMG TRN-Unit M, EDMG TRN-Unit N, TRN Subfield Sequence Length, BW, Sense Multiple Golays, and Sense Golay Index subfields contain the values of the corresponding header fields in the EDMG multistatic sensing PPDU. These subfields are reserved when the Sensing Type is set to Coordinated Monostatic or Coordinated Bistatic.

***TGbf Editor: Change the text in P83L1-2 as follows:***

The First Beam Index field is an index into the TX Beam List in the DMG Sensing Measurement Setup element. It indicates the first beam to be used in the DMG sensing instance. It is reserved if the Sensing Type is set to Coordinated Bistatic.

***TGbf Editor: Add the following bullet at the end of the bulleted list on P212L6-19***

BRP frames transmitted in a coordinated bistatic instance shall have the DMG Sensing subfield in the BRP Request field set to 1. The Sensing Instance SN in the BRP Sensing Element in BRP frames transmitted as part of the instance shall have the same value as the Sensing Instance SN transmitted by the sensing initiator in the DMG Sensing Request frame.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1353 | 9.3.1.25.5 | 82.44 | The Sensing Type field indicates the type of sensing request by the DMG Sensing Request. - language | Replace with "The Sensing Type field indicates the type of sensing requested by the DMG Sensing Request" |  Accept |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1229 | 9.3.1.25.5 | 82.64 | The STA ID field indicate the order of sending DMG Sensing Request frames when the Sensing Type is set to Coordinated Monostatic. This role of the STA ID does not depend on the Sensing Type. | Remove "when the Sensing Type is set to Coordinated Monostatic" | Revised: TGbf Editor make changes as in https://mentor.ieee.org/802.11/dcn/22/ 11-23-0412-01-00bf-LB272-DMG-CIDs-v1  |
| 2166 | 9.3.1.25.5 | 82.65 | Lack the description of the use of STA ID field in coordinated bistatic sensing. | Add clarification of STA ID field for Coordinated Bistatic. | Revised: TGbf Editor make changes as in https://mentor.ieee.org/802.11/dcn/22/ 11-23-0412-01-00bf-LB272-DMG-CIDs-v1  |

***TGbf Editor: Change the text in P82L64-65***

PPDU (see 28.9.3.4.2 (Sync subfield definition)). The STA ID field also indicates the order of sending DMG Sensing Request frames in sensing instance in which DMG Sensing Request frames are used.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1356 | 9.3.1.25.5 | 83.44 | The beam indices representindices in the Beam Descriptors list - language | replace "in" with 'into" | Accept |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 2070 | 9.3.1.25.5 | 83.09 | It should be 'EDMG Multistatic Sensing PPDUs' instead of 'DMG Multistatic Sensing PPDUs'. The way to set 'The Num of PPDUs in Instance field' for coordinated bistatic is not stated. | As in comment. | Revised: TGbf Editor make changes as in https://mentor.ieee.org/802.11/dcn/22/ 11-23-0412-01-00bf-LB272-DMG-CIDs-v1  |
| 1354 | 9.3.1.25.5 | 83.10 | The Num of PPDUs in Instance field is reserved when the Sensing Type is set toCoordinated Monostatic - also for coordinated bistatic | replace "Coordianted Monstatic" with "Corrdianted Monstatic or Coordinated Bistatic" | Revised: TGbf Editor make changes as in https://mentor.ieee.org/802.11/dcn/22/ 11-23-0412-01-00bf-LB272-DMG-CIDs-v1  |

***TGbf Editor: Change the text in P83L9-11 as follows***

The Num of PPDUs in Instance field indicates the number of EDMG Multistatic Sensing PPDUs present in the DMG sensing instance. The Num of PPDUs in Instance field is reserved when the Sensing Type is set to Coordinated Monostatic or Coordinated Bistatic.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1302 | 9.3.1.25.5 | 83.15 | The Sense Multiple Golays subfield and the Sense Golay Index subfied are not defined in the header of the EDMG multistatic sensing PPDU. | Define these two subfieds in subclause 28.9.3.3 EDMG multistatic sensing PPDU header fields | Revised: TGbf Editor make changes as in https://mentor.ieee.org/802.11/dcn/22/ 11-23-0412-01-00bf-LB272-DMG-CIDs-v1   |
| 2071 | 9.3.1.25.5 | 83.15 | Sense Multiple Goalys and Sense Golay Index subfields are not included in the Header of EDMG Multistatic Sensing PPDU. The way to set these fields for coordianted bistatic is not stated. | As in comment. | Revise:  Those fields are part of the header of and EDMG Multi-static sensing PPDU (although it is irrelevant since the header is not decoded by intended recipients). The way to set them for coordinated bistatic is resolved by the resolution of CID 1298 in https://mentor.ieee.org/802.11/dcn/22/ 11-23-0412-01-00bf-LB272-DMG-CIDs-v1 |

***TGbf Editor: Add the following text at the end of 28.9.3.3:***

The Sensing Multiple Golay field is set to 1 to indicate the Golay sequences used in the TRN field are based on sequence index specified in the Sense Golay Index field.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1357 | 9.3.1.25.5 | 83.48 | The padding field of the "Updated TX Beam List subfield" is not described. | Add the following text at the end of P83LL58: "The Padding fileld length is set to make the length of the TDD Beamforming Information field an integer number of octets" |  Revised: TGbf Editor make changes as in https://mentor.ieee.org/802.11/dcn/22/ 11-23-0412-01-00bf-LB272-DMG-CIDs-v1   |

***TGbf Editor: Add the following text at the end of P83L58:***

The Padding field length is set to make the length of the Updated Tx Beam List subfield an integer number of octets.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1235 | 9.3.1.25.5 | 212.23 | A multistatic EDMG sensing instance is a DMG sensing instance of a DMG sensing procedure of sensing type multistatic. Format violation | Move the text under 11.55.3.6.5.1 (Initiation) |  Revised: TGbf Editor make changes as in https://mentor.ieee.org/802.11/dcn/22/ 11-23-0412-01-00bf-LB272-DMG-CIDs-v1   |

***TGbf Editor: Delete the text in P212L23-25***

**references:**