IEEE P802.11
Wireless LANs

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|  CC40-comments DMG comments resoltion part two |
| Date: 2022-07-06 |
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|  |  |  |  |  |

Abstract

Resolution of CID215, CID219, CID262, CID263, and CID377

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Subclause** | **page** | **Comment**  | **Proposed change** | **Resolution** |
| 263 | 9.6.7.50 | 58.65 | Can the DMG Sensing Measurement Setup Element and sensing measurement parameters element be included in the sensing measurement setup response frame at a time, if not, please make a note here either DMG Sensing Measurement Setup Element or sensing measurement parameters element can be included in the response frame to avoid any ambiguity | as comment | **Revised** See in 11-22-0944-01-00bf CC40-comments DMG comments resolution part two |
| 215 | 9.6.7.49 | 57.53 | The DMG Sensing Measurement Setup Element is not always present in the Sensing Measurement Setup Request frame | Replace the current length of "DMG Sensing Measurement Setup Element" ("TBD") with "0 or TBD". In page 58, replace lines 16-17 with "The DMG Sensing Measurement Setup element is present only when the frame is carried in a DMG PPDU or an EDMG PPDU. The element is defined in 9.4.2.322 (DMG Sensing Measurement Setup element)." | **Revised** See in 11-22-0944-01-00bf CC40-comments DMG comments resolution part two |
| 262 | 9.6.7.49 | 58.20 | Can the DMG Sensing Measurement Setup Element and sensing measurement parameters element be included in the sensing measurement setup request frame at a time, if not, please make a note here either DMG Sensing Measurement Setup Element or sensing measurement parameters element can be included in the request frame to avoid any ambiguity | as in comment | **Revised**See in 11-22-0944-01-00bf CC40-comments DMG comments resolution part two |
| 377 | 9.6.7.49 | 57.56 | Expect that either DMG or non-DMG sensing parameters IE would be included. We should revisit the format with the followiing optionsOption 1: Differentiate the frames in terms of DMG and non-DMGOption 2: Signaling to indicate whether it includes DMG or non-DMG parameters field | As in the comment. | **Revised**See in 11-22-0944-01-00bf CC40-comments DMG comments resolution part two |
| 219 | 9.6.7.50 | 58.41 | The DMG Sensing Measurement Setup Element is not always present in the Sensing Measurement Setup Response frame | Replace the current length of "DMG Sensing Measurement Setup Element" ("TBD") with "0 or TBD".  In page 58, replace lines 57-58 with "The DMG Sensing Measurement Setup element is present only when the frame is carried in a DMG PPDU or an EDMG PPDU.  The element is defined in 9.4.2.322 (DMG Sensing Measurement Setup element)." | **Revised**See in 11-22-0944-01-00bf CC40-comments DMG comments resolution part two |

**CID215, CID 219, CID262, CID263, and CID377**

The DMG Sensing Measurement Setup Element is not always present in the Sensing Measurement Setup Request frame.

Can the DMG Sensing Measurement Setup Element and sensing measurement parameters element be included in the sensing measurement setup response frame at a time, if not, please make a note here either DMG Sensing Measurement Setup Element or sensing measurement parameters element can be included in the response frame to avoid any ambiguity

**Discussion:**

The unification of the Sensing measurement setup frames and the DMG Sensing measurement setup frames introduces the complexity described in the comments. Also, there will be even more complexity in the text to keep the unification between the relevant non-DMG and DMG action frame categories.

Suggest defining the DMG Sensing measurement setup request and response frames separately.

**TGbf Editor – Modify as indicated and append new subcaluses to the draft:**

**Table 9-540 DMG Action field values**

|  |  |
| --- | --- |
| DMG Action field value  | Meaning |
| <ANA> | Protected DMG Sensing Measurement Setup Request. The format of the frame after the action field is identical to the format of the DMG Sensing Measurement Setup Request frame (9.6.21.8 DMG Sensing Measurement Setup Request frame format) |
| <ANA> | Protected DMG Sensing Measurement Setup Response. The format of the frame after the action field is identical to the format of the DMG Sensing Measurement Setup Response frame (9.6.21.9 DMG Sensing Measurement Setup Response frame format) |

**Table 9-569 Unprotected DMG Action field values**

|  |  |
| --- | --- |
| Unprotected DMG Action field value  | Meaning |
| <ANA> | DMG Sensing Measurement Setup Request.  |
| <ANA> | DMG Sensing Measurement Setup Response  |
| <ANA> | DMG Sensing Mesurement Report |

**9.6.21.8 DMG Sensing Measurement Setup Request frame format**

The DMG Sensing Measurement Setup Request frame is an Action frame. It is transmitted by a DMG sensing initiator to request a DMG sensing measurement setup. The format of the DMG Sensing Measurement Setup Request frame Action field is defined in Table 9-576a (DMG Sensing Measurement Setup Request frame format)

**Table 9-576a—DMG Sensing Measurement Setup Request frame format**

|  |  |
| --- | --- |
| **Order** | **Information** |
| 1 | Category |
| 2 | Unprotected DMG Action |
| 3 | Dialog Token |
| 4 | Measurement Setup ID |
| 5 | DMG Sensing Measurement Setup element |

The Category field is defined in 9.4.1.11 (Action field).

The Unprotected DMG Action field is defined in 9.6.21.1 (Unprotected DMG Action field).

The Dialog Token field is set to a value chosen by the STA sending the frame to uniquely identify the

transaction.

The Measurement Setup ID field in the DMG Sensing Measurement Setup Request frame indicates a Measurement Setup ID that identifies assigned parameters in the DMG Sensing Measurement Setup element to be used in the corresponding sensing measurement instances as shown in Figure 9-1138b (Measurement Setup ID field format).

The DMG Sensing Measurement Setup element is defined in 9.4.2.322 (DMG Sensing Measurement Setup

element).

**9.6.21.9 DMG Sensing Measurement Setup Response frame format**

The DMG Sensing Measurement Setup Responset frame is an Action frame. It is transmitted by a DMG sensing responder in response to a DMG Sensing Measurement Setup Request frame. The format of the DMG Sensing Measurement Setup Response frame Action field is defined in Table 9-576b (DMG Sensing Measurement Setup Response frame format)

**Table 9-576b—DMG Sensing Measurement Setup Response frame format**

|  |  |
| --- | --- |
| **Order** | **Information** |
| 1 | Category |
| 2 | Unprotetcted DMG Action |
| 3 | Dialog Token |
| 4 | Measurement Setup ID |
| 5 | Status code |
| 6 | DMG Sensing Measurement Setup element |
| 7 | DMG Sensing Image Range Axis LUT |
| 8 | DMG Sensing Image Doppler Axis LUT  |

The Category field is defined in 9.4.1.11 (Action field).

The Unprotected DMG Action field is defined in 9.6.21.1 (Unprotected DMG Action field).

The Dialog Token field is defined in 9.4.1.12 (Dialog Token field) and is set to the value in the corresponding DMG Sensing Measurement Setup Request frame.

The Measurement Setup ID field in the DMG Sensing Measurement Setup Response frame is shown in Figure 9-1138b (Measurement Setup ID field format) and is set to the value in the corresponding DMG Sensing Measurement Setup Request frame.

The Status Code is defined in 9.4.1.9 (Status Code field).

The DMG Sensing Measurement Setup element is defined in 9.4.2.322 (DMG Sensing Measurement Setup

element). It is present in the Sensing Measurement Setup Response frame if the Status Code is set to TBD

(PREFERRED\_MEASURMENT\_SETUP\_PARAMETERS\_SUGGESTED). Otherwise, it is not present in the DMG Sensing Measurement Setup Response frame.

The DMG Sensing Image Range Axis LUT element is defined in 9.4.2.323 (DMG Sensing Image Range Axis LUT element).

The DMG Sensing Image Doppler Axis LUT element is defined in 9.4.2.324 (DMG Sensing Image Doppler Axis LUT element).

**TGbf Editor – Modify as indicated:**

*Remove the cell of the DMG Sensing Measurement Setup Element in Figure 9-1138a —Sensing Measurement Setup Request frame Action field format.*

*P58L16 Delete*

*Remove the cell of the DMG Sensing Measurement Setup Element in Figure 9-1139c—Sensing Measurement Setup Response frame Action field format*

*P58L57 Delete*

In all subclauses under 11.21.20 DMG sensing procedure, replace Sensing Measurement Setup Request with DMG Sensing Measurement Setup Request and Sensing Measurement Setup Response with DMG Sensing Measurement Setup Response.

Remove the cell of the *Measurement Setup ID in Figure 9-1002be—DMG Sensing Measurement Setup element format*

*P40L14 Delete*

**References:**