IEEE P802.11
Wireless LANs

|  |
| --- |
| DMG comments resolution part four |
| Date: 2022-08-14 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Solomon Trainin | Qualcomm |  |  | strainin@qti.qualcomm.com |
|  |  |  |  |  |

Abstract

Resolution for CIDs 42, 43, 44, 520, 521, 592, 337, 600

The resolutions refer to IEEE P802.11bf/D0.2, July 2022

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Must Be Satisfied** | **Clause Number(C)** | **Page(C)** | **Line(C)** | **Comment** | **Proposed Change** | **Resolution**  |
| 42 | No | 9.6.7.49 | 57 | 53 | "DMG Sensing Measurement Setup Element" should be "Sensing Measurement Setup Element". | As in comment. | Reject 11-22-1337-00-00bf cc40-comments DMG comments resolution part four  |
| 43 | No | 9.6.7.49 | 58 | 16 | "DMG Sensing Measurement Setup Element" should be "Sensing Measurement Setup Element". Sensing Measurement Setup Element is missing in draft 0.1. | As in comment. | Reject 11-22-1337-00-00bf cc40-comments DMG comments resolution part four |
| 44 | No | 9.6.7.50 | 58 | 37 | "DMG Sensing Measurement Setup Element" should be "Sensing Measurement Setup Element". | As in comment. | Reject 11-22-1337-00-00bf cc40-comments DMG comments resolution part four |
| 520 | No | 9.6.7.50 | 58 | 34 | In Figure 9-1138a, two Sensing Measurement Setup Elements are included in the sensing measurement setup response frame. however, according to the band for processing the sensing measurement, one of them is unnecessary. So to indicate the presence of an element, we consider the presence bit in this frame. | Add the indication bit to note the presence of the sensing measurement parameter element for each band. | Reject 11-22-1337-00-00bf cc40-comments DMG comments resolution part four |
| 521 | No | 9.6.7.50 | 58 | 41 | The DMG Sensing Measurement Setup Element and Sensing Measurement Setup Element are not always existed in the sensing measurement setup response frame. | Change the TBD with 0/TBD for the DMG Sensing Measurement Setup Element and Sensing Measurement Setup Element in Figure 9-1139c | Reject 11-22-1337-00-00bf cc40-comments DMG comments resolution part four |
| 592 | No | 9.6.7.50 | 58 | 62 | Sensing Measurement Parameters Element is not used by DMG sensing. | Clarify that "Sensing Measurement Parameters Element is not included for DMG sensing" | Reject 11-22-1337-00-00bf cc40-comments DMG comments resolution part four |
| 337 | No | 9.6.36.3 | 63 | 60 | Protected DMG Sensing Measurement Report frame. There is no definition of the DMG frame. I suggest having two separate frames: the Sensing Measurement report frame, and the DMG Sensing Measurement report frame. The formats of the frames and elements differ, so having a separate definition is simpler, it requires different action values even in the same category (protected sensing). Keeping it the same makes it complicated, because the IE depends on the category (Public versus Unprotected DMG). Referencing the level up is not good. | Prepare submission to define the DMG report frames and keep them in categories as in the current text. Unify the definition of the protected and unprotected DMG Reports. | Revised 11-22-1337-00-00bf cc40-comments DMG comments resolution part four |
| 600 | No | 9.6.36.3 | 63 | 60 | Redundant clause for Protected DMG Sensing Measurement Report frame | Delete the clause and add a description in Table 9-623k saying "The format of the frame after the action field is identical to the format of the Sensing Measurement Report unprotected DMG frame." | Revised 11-22-1337-00-00bf cc40-comments DMG comments resolution part four |

**CIDs 42, 43, 44, 520, 521, 592**

The CIDs are about the Sensing Measurement Setup Request and DMG Sensing Measurement Setup Request frames format.

Discussion:

The resolution of CID215, CID 219, CID262, CID263, and CID377 presented in 11-22-0944-02-00bf CC40-comments DMG comments resolution part two is approved by motion 109. As a result, the July 2022 draft IEEE P802.11bf/D0.2 does not contain the text commented on in CIDs 42, 43, 44, 520, 521, 592.

Proposed resolution: **Reject**

**CID 337**

Prepare submission to define the DMG report frames and keep them in categories as in the current text. Unify the definition of the protected and unprotected DMG Reports

Proposed resolution: **Revise**

Discussion:

A new frame DMG Sensing Measurement Report is defined and 9.6.36.3 Protected DMG Sensing Measurement Report frame sublause is revised to comply with the comment. The resolution refers to IEEE P802.11bf/D0.2, July 2022.

**TGbf editor, provide the following changes**

*Append new subclause after 9.6.21.9 DMG Sensing Measurement Setup Response frame format*

**9.6.21.10 DMG Sensing Measurement Report frame** #337

The DMG Sensing Measurement Report frame is an Action frame. The format of the DMG Sensing

Measurement Report frame Action field is defined in Table 9-576c (DMG Sensing Measurement

Report frame Action field format).

**Table 9-576c—DMG Sensing Measurement Report frame Action field format**

|  |  |
| --- | --- |
| **Order** | **Information** |
| 1 | Category |
| 2 | Unprotected DMG Action |
| 3 | Dialog Token |
| 4 | DMG sensing report control element |
| 5 | DMG Sensing Report element or one or moreChannel Measurement Feedback elements. |

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 DMG sensing report control element is defined in 9.4.2.325 (DMG Sensing Report Control element).

The DMG Sensing Report element is defined in 9.4.2.326 (DMG Sensing Report element)

The Channel Measurement Feedback element is defined in 9.4.2.136 (Channel Measurement Feedback element)

If the Report Type field of the Report Control field in the DMG Sensing Report Control element is set to 0, the Channel Measurement Feedback(s) is present in the DMG Sensing Measurement Report frame.

If the Report Type field of the Report Control field in the DMG Sensing Report Control element is set to 1, the DMG Sensing Report element is present in the DMG Sensing Measurement Report frame.

**9.6.36.3 Protected DMG Sensing Measurement Report frame**

P78L25

**TGbf editor, change the text as follows**

The format of the frame after the action field is identical to the format of the **(9.6.21.10) DMG Sensing Measurement Report** #337 frame.

**CID 600**

**The comment proposes** Delete the clause (9.6.36.3) and add a description in Table 9-623k saying "The format of the frame after the action field is identical to the format of the Sensing Measurement Report unprotected DMG frame."

Proposed resolution: **Revise**

Discussion:

The convention established in the base specification (IEEE P802.11-REVme/D1.1) does not contain descriptions of frames in the tables that list the values of the Action field. The tables contain only frame names. See, for example, Table 9-447 Public Action field values, Table 9-615 HE Action field values, and Table 9-488 HT Action field values. Frames are defined in subclauses. Each frame is defined separately. I propose that the existing convention be kept in Amendment .11bf.

For this purpose, table 9-623k must be modified to contain only frame names.

The same problem appears in table 9-540. The way the table is defined in .11bf conflicts with the table format in the base specification. I propose to correct table 9-540 and add sub-clauses to define the frame formats included in the table.

**TGbf editor, provide the following changes**

*Replace Table 9-623k*

|  |  |
| --- | --- |
| **Protected Sensing Action field value #600** | **Meaning** |
| 0 | Reserved  |
| 1 | Protected Sensing Measurement Report #600 |
| 2 | Protected DMG Sensing Measurement Report #600 |
| 3-255 | Reserved |

*Replace Table 9-540:*

**Table 9-540—DMG Action field values (#263, #215, #262, #377, #219, #600)**

|  |  |
| --- | --- |
| **DMG Action field value** | **Meaning** |
| <ANA> | Protected DMG Sensing Measurement Setup Request.  |
| <ANA> | Protected DMG Sensing Measurement Setup Response.  |

**TGbf editor,**

*append new subcaluses after 9.6.19.23 Protected Announce frame format*

**9.6.19.24 Protected DMG Sensing Measurement Setup Request frame format #600**

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

The DMG Action field is defined in 9.6.19.1 (DMG Action field).

The format of the frame after the action field is identical to the format of the DMG Sensing Measurement Setup Request (9.6.21.8 (DMG Sensing Measurement Setup Request frame format (#263, #215, #262, #377, #219))).

**9.6.19.25 Protected DMG Sensing Measurement Setup Response frame format #600**

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

The DMG Action field is defined in 9.6.19.1 (DMG Action field).

The format of the frame after the action field is identical to the format of the DMG Sensing Measurement Setup Response (9.6.21.9 (DMG Sensing Measurement Setup Response frame format (#263, #215, #262, #377, #219))).