IEEE P802.11  
Wireless LANs

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| --- | --- | --- | --- | --- |
| Proposed resolution to proposed resolution to CID 177, 178, 188, 213, 225, 228, 230, etc. in LB217 | | | | |
| Date: 2016-03-15 | | | | |
| Author(s): | | | | |
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|  |  |  |  |  |

Abstract

This document proposes resolutions to 78 CIDs on TGaj D1.0: 177, 268, 269, 178, 187, 188, 203, 213, 225, 228, 230, 237, 241, 244, 254, 255, 256, 261, 266, 273, 274, 279, 290, 181, 182, 184, 186, 193, 198, 199, 205, 206, 214, 216, 218, 222, 229, 233, 236, 239, 243, 245, 249, 250, 251, 252, 257, 262, 263, 265, 267, 270, 271, 276, 277, 278, 280, 281, 282, 285, 286, 287, 288, 289, 291, 293, 299, 185, 189, 204, 232, 238, 248, 275, 284, 272, 175 and 259.

**Revision History**

R0: Initial version.

R1: Updated based on the discussions occurred in 11aj session.

**Technical Comments**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Type | Comment | Proposed Change | Remark |
| 177 | 6.3.8.3.2 | 10 | 1 | T | Description of parameters is included twice. (maybe copy and paste error) | Delete the (table with) the description of the added parameters at P10 L 1--17 |  |
| 268 | 6.3.8.2 | 9 | 49 | T | "CDMG Capabilities" is inserted as a parameter of the request but is not described in the subclause | Insert a description of the parameter in the table following the request-method-call. |  |
| 269 | 6.3.8.2 | 9 | 50 | T | "QMG Capabilities" is inserted as a parameter of the request but is not described in the subclause | Insert a description of the parameter in the table following the request-method-call. |  |

Proposed resolution: **Revised.**

Actually this is an editorial issue. The table at P10L1~L15 mentioned in CID177 belongs to the previous subclause 6.3.8.2 (MLME-REASSOCIATE.request), which is the description of the parameter mentioned in CID259. The table at P10L32~46 is as the same as the previous one and belongs to subclause 6.3.8.3 (MLME-REASSOCIATE.confirm). Move the following table at P10L1~L15 to 6.3.8.2 to avoid confusion.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| CDMG  Capabilities | As defined in frame format | As defined in 8.4.2.172 (CDMG Capabilities element) | …(See resolution to CID 8 for the proposed changes here). |
| QMG Capabilities | As defined in frame format | As defined in 8.4.2.182 (QMG Capabilities element). | Specifies the parameters within the QMG Capabilities element that are supported by the MAC entity. The parameter is present if dot11QMGOptionImplemented is true; otherwise not present. |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Type | Comment | Proposed Change | Remark |
| 178 | 6.3.7.3.2 | 8 | 4 | T | "As defined in frame format" is not a valid Type, especially as a specific cross reference to the definition of frame format is not given | Insert the correct cross reference or provide a complete stand-alone type definition |  |
| 187, 188, 203, 213, 225, 228, 230, 237, 241, 244 , 254, 255, 256, 261, 266, 273, 274, 279, 290 | See clause/page/line number in comment database respectively | | | T | As the same as CID178 | T |  |

Proposed resolution: **Revised.**

In the light of the type of DMG Capabilities in the corresponding table in REVmc4.0 (P179L34) is “DMG Capabilities element”. So change the table at P8L4 in 11aj D1.0 accordingly and make cross-reference for the referred subclause number as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Valid range | Description |
| CDMG  Capabilities | CDMG Capabilities element  ~~As defined in frame format~~ | As defined in 8.4.2.172 (CDMG Capabilities element) | … |
| QMG Capabilities | QMG Capabilities element  ~~As defined in frame format~~ | As defined in 8.4.2.182 (QMG Capabilities element). | … |

Do the same in the tables at P8L1~15, P8L41~57, P9L15~31, P10L1~15, P10L32~47, P11L7~22, P11L50~65 and P12L32~52.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Type | Comment | Proposed Change | Remark |
| 181 | 8.3.4.2 | 30 | 6 | T | The Clustering Interference Assessment element is optionally present if dot11ClusteringActivated is true. Incomplete statement when element is present; use language suggested by REVmc. |  |  |

Proposed resolution: **Revised.**

Change the table at P30L6 as follows:

|  |  |  |
| --- | --- | --- |
| * DMG Beacon frame body | | |
| Order | Information | Notes |
| ... | ... | ... |
| ... | CDMG Capabilities | The CDMG Capabilities element is present if dot11CDMGOptionImplemented is true; otherwise not present. |
| ... | Dynamic Bandwidth Control | The Dynamic Bandwidth Control element is optionally present if a STA operates as an AP or PCP and dot11CDMGOptionImplemented is true; otherwise not present. |
| ... | Cluster Probe | The Cluster Probe element is optionally present if dot11ClusteringActivated is true; otherwise not present. |
| ... | Extended Cluster Report | The Extended Cluster Report element is optionally present if dot11ClusteringActivated is true; otherwise not present. |
| ... | Cluster Switch Announcement | The Cluster Switch Announcement element is optionally present if dot11ClusteringActivated is true; otherwise not present. |
| ... | Extended Cluster Report | The Extended Cluster Report element is optionally present if dot11ClusteringActivated is true; otherwise not present. |
| ... | Cluster Switch Announcement | The Cluster Switch Announcement element is optionally present if dot11ClusteringActivated is true; otherwise not present. |
| ... | SPSH Report | The SPSH Report element is optionally present if dot11ClusteringActivated is true; otherwise not present. |
| ... | Clustering Interference Assessment | The Clustering Interference Assessment element is optionally present if dot11ClusteringActivated is true; otherwise not present. |
| ... | QMG Capabilities | The QMG Capabilities element is optionally present if dot11QMGOptionImplemented is true; otherwise not present. |
| ... | QMG Operation | The ~~D~~QMG Operation element is optionally present if dot11QMGOptionImplemented is true; otherwise not present. |
| ... | Power Constraint | The Power Constraint element is present if dot11SpectrumManagementRequired is true and is optionally present if dot11RadioMeasurementActivated is true; otherwise not present. |
| ... | TPC Report | The TPC Report element is present if dot11SpectrumManagementRequired is true or dot11RadioMeasurementActivated is true; otherwise not present. |
| ... | BSS Load | The BSS Load element is present if dot11QosOptionImplemented and dot11QBSSLoadImplemented are both true; otherwise not present. |
| ... | QMG Extended Capabilities | The Extended Capabilities element is present if any of the fields in this element are nonzero; otherwise not present. |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Type | Comment | Proposed Change | Remark |
| 182 | 8.4.2.131 | 44 | 6 | T | incorrect usage of editorial instructions. (new) figure is added, hence no underline in figure 8-513a. | per comment |  |

Proposed resolution: **Accept.**

Remove the unnecessary underline in Figure 8-513a:

Insert the following figure, Figure 8-513a, after Figure 8-513:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | B0 B3 | | B4 B6 | | B7 | | B8 | | B9 | B10 |
|  | Allocation ID | | Allocation Type | | Pseudo-static | | Truncatable | | Extendable | PCP Active |
| Bits: | 4 | | 3 | | 1 | | 1 | | 1 | 1 |
| B11 | | B12 | | B13 B14 | | B15 | |
| LP SC Used | | Truncation Type  ~~Truncation Type~~ | | Protected Period  ~~Protected Period~~ | | Reserved | |
| 1 | | 1 | | 2 | | 1 | |
| * Allocation field format (CDMG) | | | | | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Type | Comment | Proposed Change | Remark |
| 184 | 6.3.7.3.2 | 8 | 9 | T | "The parameter is optionally present only if dot11CDMGOptionImplemented is true."  Use language suggested by REVmc | Replace  "The parameter is optionally present only if dot11CDMGOptionImplemented is true."  with  "The parameter is optionally present if dot11CDMGOptionImplemented is true; otherwise not present" |  |

Proposed resolution: **Revised.**

According to the proposed change and 802.11 Style Guide (11-09/1034r11), change related text in TGaj D1.0 as follows:

Change the table at P6L26~60 as follows:

Insert the following rows at the end of the untitled table describing BSSDescriptions in 6.3.3.3.2:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Valid range | Description | IBSS adoption |
| CDMG  Capabilities | … | As defined in 8.4.2.172 (CDMG Capabilities element) | The values from the CDMG Capabilities element if such an element was present in the Probe Response or DMG Beacon frame, else null.  The parameter is optionally present ~~only~~ if dot11CDMGOptionImplemented is true; otherwise not present. | Do not adopt |
| QMG Capabilities | … | As defined in 8.4.2.182 (QMG Capabilities element). | The values from the QMG Capabilities element if such an element was present in the Probe Response or DMG Beacon frame, else null.  The parameter is optionally present ~~only~~ if dot11QMGOptionImplemented is true; otherwise not present. | Do not adopt |
| QMG Operation | … | As defined in 8.4.2.183 (QMG Operation element). | The values from the QMG Operation element if such an element was present in the Probe Response or DMG Beacon frame, else null.  The parameter is optionally present ~~only~~ if dot11QMGOptionImplemented is true; otherwise not present. | Do not adopt |

Do the same in the tables at P8L41~57, P9L15~31, P10L32~47, P11L7~22, P11L50~65 and P12L32~52.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Type | Comment | Proposed Change | Remark |
| 186 | 8.3.3.8 | 28 | 9 | T | "The CDMG Capabilities element is present if dot11CDMGOptionImplemented is true."  Incomplete statement when element is present | Replace "The CDMG Capabilities element is present if dot11CDMGOptionImplemented is true." with "The CDMG Capabilities element is present if dot11CDMGOptionImplemented is true; otherwise not present." |  |

Proposed resolution: **Revised.**

Do as noted in the suggested remedy; change the text in Table 8-24 as follows:

|  |  |  |
| --- | --- | --- |
| * Reassociation Response frame body | | |
| **Order** | **Information** | **Notes** |
| <ANA> | CDMG Capabilities | The CDMG Capabilities element is present if dot11CDMGOptionImplemented is true; otherwise not present. |
| <ANA> | QMG Capabilities | The QMG Capabilities element is present when the dot11QMGOptionImplemented is true; otherwise not present. |
| <ANA> | QMG Operation | The QMG Operation element is present when the dot11QMGOptionImplemented is true; otherwise~~, it is~~ not present. |

Do the same in Table 8-21~26, and 8-41.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Type | Comment | Proposed Change | Remark |
| 193, 198, 199, 205, 206, 214, 216, 218, 222, 229, 233, 236, 239, 243, 245, 249, 250, 251, 252, 257, 262, 263, 265, 267, 270, 271, 276, 277, 278, 280, 281, 282, 285, 286, 287, 288, 289, 291, 293, 299, | … | … | … | T | Similar with CID186 | Similar with CID186 |  |

Proposed resolution: **Revised.**

Make the statement complete by inserting “….is true; otherwise not present.” See resolution to CID186 above.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Type | Comment | Proposed Change | Remark |
| 185 | 6.3.116.6.2 | 19 | 9 | T | "As defined in the DCT Request frame format"  missing clause number as cross ref | Insert clause number as cross ref |  |

Proposed resolution: **Revised.**

Change the table at P19L3-11 as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| DCTResponderAddress | MAC Address | Any valid individual MAC address | Specifies the MAC address of the AP or PCP to which the DCT Request frame is transmitted. |
| DCTRequest | DCT Request Action field | As defined in 8.6.8.38 (DCT Request frame) ~~As defined in the DCT Request frame format~~ | Specifies the parameters of the DCT Request. |

Do the similar changes in tables at P16L30~40, P17L8~19, P17L48~59, P18L26~36, P19L46~55, P20L24~33 and P21L3~12.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Type | Comment | Proposed Change | Remark |
| 189, | 6.3.116.9.2 | 21 | 11 | T | "As defined in the DCT Response frame format" missing clause number as cross ref | Insert clause number as cross ref |  |
| 204, 232, 238, 248, 275, 284, | … | … | … | T | As the same as CID189 | As the same as CID189 |  |

Proposed resolution: **Revised.**

Insert corresponding clause number and cross reference where applicable. See resolution to CID185 above.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Type | Comment | Proposed Change | Remark |
| 272 | 8.3.1.10 | 26 | 51 | T | Insert the following figure and paragraphs at the end of 8.3.10:  Wrong ref. Should be 8.3.1.10 | per comment |  |

Proposed resolution: **Accept.**

Change the editing instruction as follows:

***“Insert the following figure and paragraphs at the end of 8.3.1.10:”***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Type | Comment | Proposed Change | Remark |
| 175 |  | i | 0 | T | The front page of the document should make a very precise statement which documents are amended. Right now, the draft version numbers of the documents that .11aj amends are not given which makes it hard to parse the doc (or file hundreds of comments regarding mismatches | Include the revision numbers of REVmc, ah, and ai |  |

Proposed resolution: **Revised**

Do as noted in the suggested remedy on the top right of frontmatter page I as follows:

“**IEEE P802.11aj™/D1.0, November 2015**

(Amendment to IEEE Std 802.11REVmc 4.2™,

as amended by IEEE Std 802.11ah 5.0™

IEEE Std 802.11ai 6.2™

IEEE Std 802.11ak 1.3™

and IEEE Std 802.11aq 3.0™)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Type | Comment | Proposed Change | Remark |
| 259 | 8.4.2.1 | 42 | 43 | T | The draft does not reflect the all amendments it is based on. The amended Table 8-74 has an additional column "Fragmentable" as added by Tgai | Add a "Fragmentable" column in the table shown in the Tgaj draft and insert "No" in all fields for that column |  |

Proposed resolution: **Accept.**

Do as noted in the proposed change. Go through the 11aj, 11ah/ai/ak/aq draft and make other necessary changes in 11aj according to the amendments occurred in 11ah/ai/ak/aq based on REVmc4.2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Table 8-74 Element IDs | | | | | |
| Element | Element ID | Element ID Extension | Extensible | Fragmentable |
| ... | ... | ... | ... | No |