IEEE P802.11  
Wireless LANs

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| SA D6 resolution of CIDs 7036. 7090, 7037, 7073 | | | | |
| Date: 2020-10-04 | | | | |
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Abstract

Resolution of SA D6 ballot comments CID 7036. 7090, 7037, 7073

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Page** | **Line** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 7036 | 94.00 | 6 | 9.2.4.7.1 | Implementation of changes in Table 9-25 (Maximum data unit sizes (in octets) and durations (in microseconds)) is wrong. As result, the support of the SAR in the EDMG PPDU is not presented. There are a few more places related to the CID6115 that should be fixed. It happened due to the wrong assumption that the DMG is a superset of the EDMG that is fixed now, but the resolution of the CID6115 is not aligned with this fix. The proposals provided in the submissions 11-20-0242-03-00ay MPDU size extension CID 6115 6234 and 11-20-0542-00-00ay-sb000-comment-resolution-CID-6216 shall be satisfied | Change Table 9-25 (Maximum data unit sizes (in octets) and durations (in microseconds)) to align with 11-20-0242-03-00ay MPDU size extension CID 6115 6234 and 11-20-0542-00-00ay-sb000-comment-resolution-CID-6216 | **Revised**  See below in the document |
| 7090 | 95.00 | 1 | 9.2.4.7 | In Table 9-25, the DMG PPDU column; the sentence "Without SAR agreement" needs clarification | Change "the value of A-MSDU size minus 14 for basic A-MSDU format or minus 2 for short" to “The basic A-MSDU format is equal to the value of the A-MSDU size minus 14, and minus 2 for the short” | **Revised**  See below in the document |
| 7037 | 250.00 | 28 | 10.25.10.5 | The attribute NextExpectedSequenceNumber is no more in use and removal of the related text is proposed in11-20-0157-01-00ay-sa-ballot-comment-resolution-cids-6113-6114-6110-6111-6112, but one paragraph is still left. Remove the paragraph. | Remove one paragraph that starts with "Each time that the recipient passes an MSDU or A-MSDU for a …" | **Accept** |
| 7073 | 294.00 | 5 | 10.42.7 | The added text now leaves it unclear what a responder may do when the received frame is not EDMG. Because this is a common subclause (not unique to EDMG), it needs to still apply to DMG PHY. | Insert "or the received PPDU is not EDMG, " before "a responder may ignore…" | **Accept** |

CID 7036

Discussion

As defined and used in the spec, the DMG PPDU and the EDMG MPDU are separate entities. The newly defined SAR and Extended MPDU features are applicable for both the DMG PPDU and EDMG PPDU. So, the changes made in Table 9-25 in relation to the Draft 5 shall apply to both PPDUs. It is not implemented this way due to the inconsistency of the relation between the terms DMG and EDMG in Draft 5, and support of the features by the EDMG PPDU is not properly defined. The proposed changes to the Draft 6 text close this gap. The text in Table 9-25 is fixed to comply with the definition of the Extended MPDU Capability field.

CID 7090

Discussion

The recommended sentence is not completely clear, format cannot be equal to the value as recommended “The basic A-MSDU format is equal to the value…” The recommendation has been considered when changing the text. It is implemented together with CID 7036

P1683L1

***TGay editor change as follows***

**Table 9-527–MPDU delimiter fields**

*P214 Table 9-527*

In a DMG PPDU, this field is reserved. In an EDMG PPDU, it is set to 1 in EOF padding subframes and set to 0 otherwise (see 10.12.7).

***Replace equation (9-5) with the following***

***TGay editor instruct editor to make changes in the sub clause 9.2.4.7.1 General***

***Modify the Table 9-25—Maximum data unit sizes (in octets) and durations (in microseconds) as follows***

**Table 9-25—Maximum data unit sizes (in octets) and durations (in microseconds)**

|  |  |  |
| --- | --- | --- |
|  | **DMG PPDU** | **EDMG PPDU** |
| MMPDU size | 2304 | 2304 |
| MSDU size | Without SAR agreement – for the basic A-MSDU format is equal to the value of A-MSDU size minus 14, and minus 2 for short A-MSDU format, if the MPDU Limit subfield of the Extended MPDU Capability field of the DMG Capabilities element is valid, otherwise is equal to 7920.  Figure 9-549 (DMG Capabilities element format).  With SAR agreement see NOTE 8 | Without SAR agreement – for the basic A-MSDU format is equal to the value of A-MSDU size minus 14, and minus 2 for short A-MSDU format, if the MPDU Limit subfield of the Extended MPDU Capability field of the DMG Capabilities element is valid, otherwise is equal to 7920.  Figure 9-549 (DMG Capabilities element format).  With SAR agreement see NOTE 8 |
| A-MSDU size | Without SAR agreement – indirectly limited by the value of the MPDU Limit subfield indicated in the Extended MPDU Capability field of the DMG Capabilities element, if the subfield is valid, otherwise is equal to 7935 (see Figure 9-549 (DMG Capabilities element format).  With SAR agreement see NOTE 8 | Without SAR agreement – indirectly limited by the value of the MPDU Limit subfield indicated in the Extended MPDU Capability field of the DMG Capabilities element, if the subfield is valid, otherwise is equal to 7935 (see Figure 9-549 (DMG Capabilities element format).  With SAR agreement see NOTE 8 |
| MPDU size | The value indicated in the MPDU Limit subfield of the Extended MPDU Capability field of the DMG Capabilities element if the subfield is valid, otherwise see NOTE 5.  Figure 9-549 (DMG Capabilities element format). | The value indicated in the MPDU Limit subfield of the Extended MPDU Capability field of the DMG Capabilities element if the subfield is valid, otherwise see NOTE 5.  Figure 9-549 (DMG Capabilities element format). |
| PSDU size | 218–1 (see Table 20-30 (DMG PHY characteristics)) | 222 – 1  (see Table 28-12 EDMG-Header-A field structure and definition for an SU PPDUand Table 28-19 EDMG-Header-B field structure and definition) |
| PPDU duration | 2000 (see Table 20-30 (DMG PHY characteristics)) | 2000  (see Table 20-30 (DMG PHY characteristics)) |

**References:**

1. IEEE P802.11ay/D6.0, September 2020
2. IEEE P802.11-REVmd/D5.0, September 2020