IEEE P802.11
Wireless LANs

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| Aggregate MPDU format for EDMG |
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Abstract

This document suggest text that defines the EOF Padding (EOF padding field format and MPDU delimeter) of the A-MPDU.

**Note:** A-MPDU must support MAC padding (EOF padding) for A-MPDU length alignment as defined in 11ac that enables MU-MIMO.

However, since the DMG MPDU does not support the EOF field, we defines an MPDU delimiter for EDMG by including EOF field.

10.13.6 (A-MPDU padding for VHT PPDU): should be also changed for EDMG

**TGay editor: Change this section as follows**

**9.7 Aggregate MPDU (A-MPDU)**

**9.7.1 A-MPDU format**

*Change the third paragraph as follows*

The EOF Padding field is shown in Figure 9-742 (EOF Padding field format). This is present in ~~a~~ VHT and EDMG PPDU.

*Change the sixth paragraph as follows*

In ~~a~~ VHT and EDMG PPDU, the following padding is present, as determined by the rules in 10.13.6 :
— 0–3 octets in the Padding subfield of the final A-MPDU subframe (see Figure 9-743 (A-MPDU
subframe format)) before any EOF padding subframes. The content of these octets is unspecified.
— Zero or more EOF padding subframes in the EOF Padding Subframes subfield.
— 0–3 octets in the EOF Padding Octets subfield. The content of these octets is unspecified.

*Change the ninth paragraph as follow*

*s*

The maximum length of an A-MPDU in an HT PPDU is 65 535 octets. The maximum length of an A- MPDU in a DMG PPDU is 262 143 octets. The maximum length of an A-MPDU pre-EOF padding in a VHT PPDU is 1 048 575 octets. The maximum length of an A-MPDU in an EDMG PPDU is 4,194,303 octets. The length of an A-MPDU addressed to a particular STA can be further constrained as described in 10.13.2.

*Change Figure 9-745—MPDU delimiter (DMG) as follows*



Figure 9-745 MPDU delimeter (DMG)

*Change Table 9-423—MPDU delimiter fields (DMG) as follows*

|  |  |  |
| --- | --- | --- |
| **MPDU Delimiter field** | **Size(bits)** | **Description** |
| EOF | 1 | End of frame indication. Set to 1 in an A-MPDU subframe that has 0 in the MPDU Length field and that is used to pad the A-MPDU in an EDMG PPDU as described in 10.13.6. Set to 1 in the MPDU delimiter of an EDMG single MPDU as described in 10.13.7 (Setting the EOF field of the MPDU delimiter). Set to 0 otherwise. |
| Reserved | 2 | 　 |
| MPDU Length  | 13 |  Length of the MPDU in octets. Set to 0 if no MPDU is present. An A-MPDU subframe with 0 in the MPDU Length field is used as defined in 10.13.3 (TBD) to meet the minimum MPDU start spacing requirement and also to pad the A-MPDU to fill the available octets in an EDMG PPDU as defined in 10.13.6 (TBD). |
| CRC  | 8 | 8-bit CRC on preceding 16 bits |
| Delimiter Signature | 8 | Pattern that can be used to detect an MPDU delimiter when scanning for a delimiter. The unique pattern is 0x4E. |

Table 9-423 MPDU delimiter fields (DMG)

**Straw poll / Motion #1**

* **Do you agree to include the text for A-MPDU fomat for EDMG STA EOF padding in (11-17-0547-00-00ay Aggregate MPDU format) to the spec draft?**