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. TBD.

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

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

**9.7.1 A-MPDU format**

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

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In ~~a~~ VHT and EDMG PPDU, the following padding is present, as determined by the rules in 10.13.6 (TBD):
— 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.

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The MPDU delimiter is 4 octets in length. The structure of the MPDU delimiter when transmitted by a nonDMG STA is defined in Figure 9-744 (MPDU delimiter (non-DMG)). The structure of the MPDU Delimiter
field when transmitted by a DMG STA is shown in Figure 9-745 (MPDU delimiter (DMG)). The structure of the MPDU Delimiter field when transmitted by an EDMG STA is shown in Figure 9-746 (MPDU delimiter (EDMG)).



Figure 9-746 MPDU delimeter (EDMG)

The fields of the MPDU delimiter when transmitted by a non-DMG STA are defined in Table 9-422 (MPDU
delimiter fields (non-DMG)). The fields of the MPDU delimiter when transmitted by a DMG STA are
defined in Table 9-423 (MPDU delimiter fields (DMG)). The fields of the MPDU delimiter when transmitted by an EDMG STA are defined in Table 9-424 (MPDU delimiter fields (EDMG)).

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| --- | --- | --- |
| **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 (TBD). 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 9-424 MPDU delimiter fields (EDMG)