IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Aggregate MPDU format for EDMG | | | | |
| Date: 2017-05-08 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | Email |
| Saehee Bang | LG |  |  | [saehee.bang@lge.com](mailto:saehee.bang@lge.com) |
| Jinmin Kim | LG |  |  | [jinmin.kim@lge.com](mailto:jinmin.kim@lge.com) |
| Jinsoo Choi | LG |  |  | [js.choi@lge.com](mailto:js.choi@lge.com) |
| Sungjin Park | LG |  |  | [allean.park@lge.com](mailto:allean.park@lge.com) |
| Sanggook Kim | LG |  |  | [sanggook.kim@lge.com](mailto:sanggook.kim@lge.com) |

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**

*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 (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.

*Change the tenth paragraph as follows*

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)).

|  |  |  |
| --- | --- | --- |
| **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)