IEEE P802.11
Wireless LANs

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| LB225 11ax D1.0 Comment Resolution 9.7.1 |
| Date: 2017-06-01 |
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Abstract

This submission proposes resolutions for multiple comments related to TGax D1.0 with the following CIDs :

* 6478, 7537, 7937, 8138, 9348, 10318.

Revisions:

* Rev 0: Initial version of the document.

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGax Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGax Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGax Editor: Editing instructions preceded by “TGax Editor” are instructions to the TGax editor to modify existing material in the TGax draft. As a result of adopting the changes, the TGax editor will execute the instructions rather than copy them to the TGax Draft.***

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| **CID** | **PP** | **LL** | **Comment** | **Proposed Change** | **Resolution** |
| 6478 | 106 | 4 | In the first and third elements of the list, it is stated that "The content of these octets is unspecified. However in the second element we have no such phrase. Since there can be more than zero EOF Padding Subframes, either the content needs to be specified or a note added to say that the content is left unspecified. | Either the content needs to be specified or a note added to say that the content is left unspecified. | **Rejected****Discussion: the first and third bullets are about 0-3 octets padding which have no pattern. The receiver just discards them. The second bullet is about EoF padding with specific format. The receiver needs to skip the padding per the specific format.**  |
| 7537 | 106 | 32 | The EOF field description does not take into account of ack-enabled Multi-TID A-MPDU, in which EOF could be set to 1 but not for padding and not for S-MPDU as described in the table | add 'Set to 1 in the MPDU delimiter of a multi-TID A-MPDU as described in 27.0.4' before 'Set to 0 otherwise' | **Revised****Generally agree with the commenter.**TGax editor to make the changes shown in 11-17/0884r1 under all headings that include CID 7537.  |
| 7937 | 106 | 32 | "Set to 1 in an A-MPDU subframe that has 0 in theMPDU Length field and that is used to pad the A-MPDU in a VHT or HE PPDUas described in 10.13.6 (A-MPDU padding for VHT PPDU). Set to 1 in theMPDU delimiter of a S-MPDU as described in 10.13.7 (Setting the EOF field ofthe MPDU delimiter). Set to 0 otherwise." -- it can also be set to 1 in a multi-TID A-MPDU | Before the last sentence add "Can be set to 1 in the MPDU delimiter of one or more MPDUs in a multi-TID A-MPDU as described in 27.10.4." | **Revised****Generally agree with the commenter.**TGax editor to make the changes shown in 11-17/0884r1 under all headings that include CID 7937.  |
| 8138 | 105 | 50 | Is there a rule that says that the presence or absence of optional MAC header fields must be consistent within a TID within an AMPDU? How about across TIDs? | Clarify. | **Rejected.****Discussion:** Yes, there are already such rules defined. Please refer to 10.13.1 (A-MPDU contents) which specifies any restrictions for the contents of the QoS Control field and in 10.9(HT Control field operation) that specifies any restrictions related to HT Control field**.**  |
| 9348 | 106 | 32 | The "EOF" subfield is no longer an end of frame indication. This is used by HE STAs to let the responder know in acknowledging the frame in Ack, not in BlockAck bitmap, through the Multi-STA BlockAck. | Update the description of "EOF" subfield in Table 9-422 to cover the usage described in subclause 27.10.4. An S-MPDU should be destinguished by EOF set to 1 and no subframes other than with MPDU Length field equal to 0 following.Change the subfield name from "EOF" to "EOF/Ack indication". | **Revised****Generally agree with the commenter.**TGax editor to make the changes shown in 11-17/0884r1 under all headings that include CID 9348.  |
| 10318 | 105 | 52 | Define a new MPDU delimeter for power save optimization | per comment | **Rejected****Discussion:** The comment fails to identify a technical issue. The 11ax amendment has already introduced the intra-PPDU PS mechanism that provides power saving benefits for an HE STA that receives a PPDU. Please refer to 27.14.1 (Intra-PPDU power save for non-AP HE STAs). |

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

**9.7.1 A-MPDU format**

***TGax editor: Change Table 9-422 as follows (CID 7537, 7937, 9348):***

**Table 9-422— MPDU delimiter fields (non-DMG)**

|  |  |  |
| --- | --- | --- |
| 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 a VHT or HE PPDU as described in 10.13.6 (A-MPDU padding for VHT PPDU). Set to 1 in the MPDU delimiter of an S-MPDU(#6479) as described in 10.13.7 (Setting the EOF field of the MPDU delimiter) and set to 1 in a MPDU delimiter preceding a QoS Data or Action frame soliciting an Ack frame in response that are contained in an Ack-enabled Multi-TID A-MPDU as described in 10.13.7 (Setting the EOF field of the MPDU delimiter) and 27.10.4.2 (Ack Enabled Multi-TID A-MPDU) (CID 7537, 7937, 9348). Set to 0 otherwise. |
| Reserved | 1 |  |
| MPDU Length | 14 | 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 (Minimum MPDU Start Spacing field) to meet the minimum MPDU start spacing requirement and also to pad the A-MPDU to fill the available octets in a VHT or HE PPDU as defined in 10.13.6 (A-MPDU padding for VHT PPDU). |
| CRC | 8 | 8-bit CRC of the preceding 16 bits |
| Delimiter Signature | 8 | Pattern that may be used to detect an MPDU delimiter when scanning for an MPDU delimiter.The unique pattern is 0x4E (see NOTE below). |
| NOTE—The ASCII value of the character 'N' was chosen as the unique pattern for the value in the Delimiter Signature field. |