IEEE P802.11
Wireless LANs

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| LB 200 Comment Resolution for Clause 8.7.6 |
| Date: 2014-12-10 |
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Abstract

This submission proposes resolutions for comments in clause 8.7.6 of TGah Draft 1.0 with the following CIDs:

1461, 2442, 2443, 2444, 2445

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 TGah Draft. This introduction is not part of the adopted material.

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

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

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| **CID** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 1461 | 148.04 | 8.7.6 | Maximum size of an MSDU is currently undefined for 11ah. Hence it is undefined for A-MSDUs as well. Also is padding needed? The Length field has a resolution to the octet which means it can indicate a length of multiples of bytes. | In Figure 8-532l replace "0-2034" with "variable" and eventually remove the Padding field if not needed. | Agree in principle with the commenter. Proposed resolution is to not remove padding to keep compatibility with other A-MSDU frame formats.Revised – TGah editor to make changes shown in 14/1513r0 under the heading for CIDs from 1461 to 2445. |
| 2442 | 147.52 | 8.7.6 | A Dynamic A-MSDU subframe consists of more than the header, and that figure doesn't describe just the header either | Change to "Each Dynamic A-MSDU subframe consists of a Dynamic A-MSDU subframe header followed by an MSDU and 0 to 3 octets of padding as shown in [...]" (or delete, since duplication). Add an arrow to show the "A-MSDU subframe header" as in the baseline | Agree with the commenter.Revised – TGah editor to make changes shown in 14/1513r0 under the heading for CIDs from 1461 to 2445. |
| 2443 | 148.04 | 8.7.6 | "2034" | "2304" | Agree in principle with the commenter.Revised – TGah editor to make changes shown in 14/1513r0 under the heading for CIDs from 1461 to 2445. |
| 2444 | 148.16 | 8.7.6 | I can't see "Long version" and "Short version" actually being used anywhere else | Delete (or if actually used somewhere, isn't "Medium version" also needed?) | Agree with the commenter. Revised – TGah editor to make changes shown in 14/1513r0 under the heading for CIDs from 1461 to 2445. |
| 2445 | 147.47 | 8.7.6 | This new subclause on Dynamic A-MSDUs conflicts with the baseline subclause 8.3.2.2 which says things like "Two A-MSDU subframe formats are defined: the Basic A-MSDU subframe described in 8.3.2.2.2 (Basic AMSDUsubframe format) and the Short A-MSDU subframe described in 8.3.2.2.3 (Short A-MSDUsubframe format)." | Merge 8.7.6 into 8.3.2.2 (with appropriate caveats about not using Dynamic A-MSDUs in non-S1G STAs) | Agree with the commenter. Revised – TGah editor to make changes shown in 14/1513r0 under the heading for CIDs from 1461 to 2445. |

**Discussion:** *None.*

**Proposed Changes:**

* **Aggregate MSDU(11ad) (A-MSDU) format**
* **General(11ad)**

**Instructions to TGah Editor*: Change this subclause as follows (@802.11REVmc D2.0):***

An A‑MSDU is a sequence of A‑MSDU subframes as shown in Figure 8-45 (A-MSDU structure). Each A‑MSDU subframe consists of an A‑MSDU subframe header followed by an MSDU and 0 to 3 octets of padding as shown in Figure 8-46 (Basic A-MSDU subframe structure), Figure 8-48 (Short A-MSDU subframe structure) (in 8.3.2.2.3 (Short A-MSDU subframe format)), and Figure 8.532l (Dynamic A-MSDU subframe structure) (in 8.3.2.2.4 (Dynamic A-MSDU subframe format)).(11ad)

|  |  |  |  |
| --- | --- | --- | --- |
| A-MSDU subframe 1 | A-MSDU subframe 2 | … | A-MSDU subframe n |
| * **A-MSDU structure**
 |

  ThreeA‑MSDU subframe formats are defined: the Basic A‑MSDU subframe described in 8.3.2.2.2 (Basic AMSDU subframe format), the Short A‑MSDU subframe described in 8.3.2.2.3 (Short A-MSDU subframe format), and the Dynamic A-MSDU subframe described in 8.3.2.2.4 (Dynamic A-MSDU subframe format). Unless otherwise noted, in this standard, the term A‑MSDU applies to any of the Basic A‑MSDU. the Short A‑MSDU, and the Dynamic A-MSDU. The Basic A‑MSDU uses only the Basic A‑MSDU subframe format, the Short A‑MSDU uses only the Short A‑MSDU subframe format, and the Dynamic A-MSDU uses only the Dynamic A-MSDU subframe format. (11ad)

* **Dynamic A-MSDU format**

**Instructions to TGah Editor*: Change this subclause as follows:***

. The structure of a Dynamic A-MSDU subframe is shown in Figure 8-532l (Dynamic A-MSDU subframe structure). In the Dynamic A-MSDU subframe, each A-MSDU subframe (except the last) is padded, so that its length is a multiple of 4 octets. The last A-MSDU subframe has no padding.

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| --- | --- | --- | --- | --- | --- |
| Octets: | 2 | 0 or 6 | 0 or 6 | variable | 0-3 |
|  | Subframe Control | DA (Optional) | SA (Optional) | MSDU | Padding |
|  |  A-MSDU subframe header |
| * **Dynamic A-MSDU subframe structure**
 |

The A-MSDU subframe header contains the Subframe Control field and optionally the DA and SA fields. A Dynamic A-MSDU subframe has 0, 1 or 2 addresses associated with it, as governed by the Subframe Control field.

The Subframe Control is defined in Figure 8-532m (Subframe Control field) and contains the Length, DA Present and SA Present subfields.

|  |  |  |  |
| --- | --- | --- | --- |
|  | B0 B13 | B14 | B15 |
|  | Length | DAPresent | SA Present |
| Bits: | 14 | 1 | 1 |
| * **Subframe Control field**
 |

The Length subfield contains the length in octets of the MSDU.

The DA Present bit is set to 1 when the DA field is present in the Dynamic A-MSDU subframe header and is set to 0 when the DA field is not present.

The SA Present bit is set to 1 when the SA field is present in the Dynamic A-MSDU subframe header and is set to 0 when the SA field is not present.

The DA Present and SA Present bits in the Subframe Control field of each Dynamic A-MSDU subframe are set to 1 unless the frame carrying the A-MSDU is a Short frame (see 8.7 (MAC frame format for short frames)).

**Instructions to TGah Editor*: Add the following note at the end of this subclause:***

NOTE—The Dynamic A-MSDU subframe format is not transmitted by a non-S1G STA.

**Instructions to TGah Editor*: Move subclause 8.7.6 immediately after subclause 8.3.2.2.3 as a new subclause 8.3.2.2.4 (@802.11REVmc D2.0)***

**Instructions to TGah Editor: *Remove the following sentence of the last paragraph of subclause 9.11:***