IEEE P802.11
Wireless LANs

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| **Comment Resolution for Miscellaneous** |
| **Date:** 2013-08-01 |
| **Author(s):** |
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Abstract

This document provides comment resolution for TGah Draft 0.1 Comment Collection 9 with these CIDs: 21, 812, and 819.

Revisions:

* Rev 0: Initial comment resolution document.
* Rev 1: Changes with respect to REVmc D1.1 instead of D0.3
* Rev 2: Removed reference to non-existing subclause 9.33a (LOTS operation) in D0.1.

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 “Instruction to 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** | **SC** | **Comment** | **Proposed Change** | **Resolution** |
| 21 | 118.11 | 8.7.4 | Dynamic A-MSDU is described only for short MAC header. However, it can be used also for normal MAC header as it provides signaling that allows both Basic A-MSDU and short A-MSDU frame formats. A;so ned to clarify at 9.11 at P1144L61 of REVmc 1.4, | Add support for Dynamic A-MSDU for S1G in general. | Revised – TGah editor to make changes shown in 11-13-0972-02-00ah under the heading for CIDs 21. |

* **Dynamic A-MSDU format**

**Instruction to Editor: Please modify Figure 8-532e in subclause 8.7.4 as follows:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Octets: | 2 | 0 or 6 | 0 or 6 | 0-2034 | 0-3 |
|  | Subframe Control | DA (Optional) | SA (Optional) | MSDU | Padding |
|  |  |  |  |  |  |
| * **Dynamic A-MSDU subframe structure**
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**Instruction to Editor: Please modify subclause 8.7.4 as follows:**

A Dynamic A-MSDU subframe has 0, 1 or 2 addresses associated with it, as governed by the Subframe Control field. A Dynamic A-MSDU format where each subframe has 0 addresses is a Short version of Dynamic A-MSDU. A Dynamic A-MSDU format where each subframe has 2 addresses is a Long version of Dynamic A-MSDU.

The Padding field contains 0-3 octets of padding, so that the length of the Dynamic A-MSDU subframe is a multiple of 4 octets, except for the last Dynamic A-MSDU subframe in a Dynamic A-MSDU, which has no padding.

* **A-MSDU operation**

**Instruction to Editor: Please modify subclause 9.11 (@REVmc D1.1) as follows:**

An A-MSDU contains only MSDUs whose DA and SA parameter values map to the same RA and TA values (see 8.3.2.2 (Aggregate MSDU (A-MSDU) format)) unless it is generated by a S1G STA that follows the procedures described in 9.32n (Relay operation). For the Short A-MSDU case, an A-MSDU contains only MSDUs whose SA and DA parameter values are the same.

The following rules apply to the transmission of an A-MSDU in a non-DMG network:(11ad)

— A STA that has a value of false for dot11HighthroughputOptionImplemented shall not transmit an A-MSDU.

— A STA shall not transmit an A-MSDU to a STA from which it has not received a frame containing an HT Capabilities element.

A S1G STA shall use the Dynamic A-MSDU subframe format (see 8.7.4 (Dynamic A-MSDU format)). The DA Present and SA Present subfields in the Subframe Control field of each Dynamic A-MSDU subframe shall be set to 1 unless the frame carrying the A-MSDU is a short frame (see 8.7 (MAC frame format for short frames)).

Support for the reception of an A-MSDU, where the A-MSDU is carried in a QoS data MPDU with Ack Policy equal to Normal Ack and the A-MSDU is not aggregated within an A-MPDU, is mandatory for an HT STA.

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| **CID** | **P.L** | **SC** | **Comment** | **Proposed Change** | **Resolution** |
| 812 | 121.1 | 9.12.3 | Do we need any update for the minimum spacing for 11ah? 9.12.3 Minimum MPDU Start Spacing field | scale the values for 11ah | Revised – TGah editor to make changes shown in 11-13-0972-02-00ah under the heading for CID 812. |

**Discussion:** *None.*

* **Minimum MPDU Start Spacing field**

**Instruction to Editor: *Please modify subclause 9.12.3 as follows (@802.11ac D5.0):***

A~~n HT STA and a DMG~~ STA shall not start the transmission of more than one MPDU within the time limit described in the Minimum MPDU Start Spacing field declared by the intended receiver. To satisfy this requirement, the number of octets between the start of two consecutive MPDUs in an A-MPDU, measured at the PHY SAP, shall be equal or greater than



where

 is the time (in microseconds) defined in the “Encoding” column of Table 8-125 (Subfields of the A-MPDU Parameters field) for an HT STA and of Table 8-183f for a DMG STA for the value of the Minimum MPDU Start Spacing field

*r* is the value of the PHY Data Rate (in megabits per second) defined in Clause 21 for a DMG STA, ~~and for an HT STA defined~~ in 20.6 (Parameters for HT MCSs) for HT PPDUs(#7254) and in 22.5 (Parameters for VHT-MCSs) for VHT PPDUs and in 24.5 (Parameters for S1G-MCSs) for S1G PPDUs ~~based on the TXVECTOR parameters: MCS, GI\_TYPE, and CH\_BANDWIDTH~~

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| **CID** | **P.L** | **SC** | **Comment** | **Proposed Change** | **Resolution** |
| 819 | 121.1 | 9.12.1 | 9.12.1 A-MPDU contents: need to define equivalent rules for short MAC header "When an A-MPDU contains multiple QoS Control fields, bits 4 and 8-15 of these QoS Control fields shall be identical." | Short MAC header does not have a QoS control field, but some correspnding bits are in FC and may have to follow similar limitations as in paragraph. Add such limitations. | Revised – TGah editor to make changes shown in 11-13-0972-02-00ah under the heading for CID 819. |

**Discussion:** *None.*

* **A-MPDU contents**

**Instruction to Editor: *Please modify subclause 9.12.1 as follows (@REVmc D1.1):***

According to its context (defined in Table 8-366 (A-MPDU Contexts)), an A-MPDU shall be constrained so that it contains only MPDUs as specified in the relevant table referenced from Table 8-366 (A-MPDU Contexts).

The values of the Protocol Version field in the Frame Control field of the MPDUs contained in an A-MPDU shall be the same.

When an A-MPDU contains multiple QoS Control fields, bits 4 and 8–15 of these QoS Control fields shall be identical. When an A-MPDU contains multiple MPDUs with Protocol Version field in the Frame Control field set to 1, the values of EOSP and Relayed Frame fields in the Frame Control field, and A3 Present, A4 Present subfields in the SID field shall be identical across MPDUs within the A-MPDU.