IEEE P802.11
Wireless LANs

|  |
| --- |
| Miscellaneous 802.11mc/D3.0 and D4.0 issues |
| Date: 2015-05-29 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Mark RISON | Samsung Cambridge Solution Centre | SJH, CB4 0DS, U.K. | +44 1223 434600 | at samsung (a global commercial entity) I'm the letter emme then dot rison |
| Dorothy STANLEY | HP (Aruba Networks) | 1322 Crossman AveSunnyvale, CA 94089 | +1 630 363 1389 | dstanley@arubanetworks.com  |

Abstract

This document points out some issues with 802.11mc/D 3.0 and 4.0 and suggests fixes.

CID 6105 asks for incorporation of these changes; other CIDs noted in resolutions

**“control type of MPDU” – Also CIDs 6382 and 5063**

*Issue:*

9.7.7.4 at 1287.48 says

The rules in this subclause also apply to A-MPDUs that contain at least one control type of MPDU and at least one MPDU of type Data or Management.

What is a “control type of MPDU”?

*Proposed change:*

The rules in this subclause also apply to A-MPDUs that contain at least one ~~control type of~~ MPDU with Type subfield equal to Control and at least one MPDU ~~of type~~ with Type subfield equal to Data or Management.

**Proposed resolution to CID 6382:**

**Revised, “Incorporate the text changes in <this document, insert full link for 11-14-0935r2> under the heading of “control type of MPDU”**

**CID 5063:**

**Change**

**Replace "MPDU of type "with "MPDU with Type subfield equal to" throughout the draft.**

Note to editor: related editorial comments 6491, 6634, 6635, editors to propose resolutions

**“MMPDU of type Data” and dot11GAS horrors – Also CID 6383**

*Issue:*

C.3 at 3243.16 says:

This counter shall be incremented for each successfully received MMPDU of type Data

What is an “MMPDU of type Data”? And where’s the full stop?

Furthermore, the context just above is:

It is updated by the MAC after transmission of an MLME-GAS.confirm primitive.

MACs don’t transmit MLME primitives. From inspection, it seems this is a typo for “SME”.

Additionally, the name of the MIB variable is:

dot11GASReceivedFragmentCount

What has this got to do with fragments? Ditto for dot11GASTransmittedFragmentCount.

*Proposal:*

Delete the dot11GASReceivedFragmentCount and dot11GASTransmittedFragmentCount variables/attributes from the MIB.

**Proposed resolution to CID 6383:**

**Revised, “Incorporate the text changes in <insert full link for 11-14-0935r2> under the heading of “MMPDU of type Data” and dot11GAS horrors**

**DMG MPDU Length – Also CIDs 5120 and 6384**

*Issue:*

In 8.7.1 A-MPDU format there are two “MPDU Length” fields, one for DMG and one for non-DMG. These have different sizes. However, Figure 8-721 MPDU Length field only covers the non-DMG case. Furthermore, the main text only explicitly discusses non-DMG. Finally, the field is sometimes referred to as “MPDU length”.

*Proposal:*

At 1231.01 make the following change:

The format of the MPDU Length field when transmitted by a non-DMG STA is shown in Figure 8-725 (MPDU Length field).

At 1231.14 make the following change:

Figure 8-725—MPDU Length field (non-DMG)

At 1231.20 make the following changes:

 Llow + Lhigh × 4096, VHT PPDU

LMPDU = { Llow, HT PPDU

 L, DMG PPDU

where

 Llow is the value of the MPDU Length Low subfield

 Lhigh is the value of the MPDU Length High subfield

 L is the value of the MPDU Length field

Replace “MPDU length” with “MPDU Length” at 1229.49, 1230.20 and 1230.43.

**Proposed resolution to CIDs 5120 and 6384:**

**Revised, “Incorporate the text changes in <insert full link for 11-14-0935r2> under the heading of “DMG MPDU Length”**

**“DS PHY” – Discuss on June 5th**

*Issue:*

There are references to a non-existent “DS PHY”.

*Proposal:*

Delete subclauses 6.5.5 PLME-DSSSTESTMODE.request and 6.5.6 PLME-DSSSTESTOUTPUT.request.

Replace “DS PHY” with “DSSS PHY” at 2166.29, 2166.31 and 2166.37.

Replace “DS PHY” with “High rate PHY” [sic] at 2193.17 and 2193.20.

**Order of subelement IDs – Also CID 6386**

*Issue:*

Tables 8-177, 8-178, 8-179 are tables of subelement IDs, but they also contain an unused Order column.

*Proposal:*

Delete the Order column in these tables (the first deletion has already been agreed to as the resolution for CID 3093).

Corresponding D4.0 comment is 6386

**Proposed resolution to CID 6386 (GEN):**

**Revised:**

**Delete the “Order” columns from Tables 8-168 and 8-169**

**VHT in TVHT clause – Also CID 6387**

*Issue:*

There are references to “VHT AP” and “VHT STAs” in the TVHT PHY clause (clause 23).

*Proposal:*

**Proposed resolution to CID 6387 (GEN):**

**Revised:**

Replace “VHT” with “TVHT” at 2595.44 (twice), 2595.48 (twice), and 2595.51 (twice).

**References:**

802.11mc/D3.0, D4.0