IEEE P802.11
Wireless LANs

|  |
| --- |
| Miscellaneous 802.11mc/D3.0 issues |
| Date: 2014-07-15 |
| 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 |
|  |  |  |  |  |

Abstract

This document points out some issues with 802.11mc/D3.0 and suggests fixes.

**“control type of MPDU”**

*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”?

*Proposal:*

Replace with “MPDU of type Control”.

**“MMPDU of type Data” and dot11GAS horrors**

*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 (very tentative):*

Rename dot11GASReceivedFragmentCount to dot11GASReceivedCount (2 instances, both in C.3).

Rename dot11GASTransmittedFragmentCount to dot11GASTransmittedCount (2 instances, both in C.3).

At 3243.5 make the following changes:

dot11GASReceived~~Fragment~~Count OBJECT-TYPE

 SYNTAX Counter32

 MAX-ACCESS read-only

 STATUS current

 DESCRIPTION

"This is a status variable.

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

This counter shall be incremented for ~~each successfully received MMPDU of type Data~~ a received GAS MMPDU for the protocol identified by dot11GASAdvertisementId."

 ::= { dot11GASAdvertisementEntry 12 }

**DMG MPDU Length**

*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 1216.45 make the following change:

The format of the non-DMG MPDU Length field is shown in Figure 8-721 (MPDU Length field).

At 1216.59 make the following change:

Figure 8-721—MPDU Length field (non-DMG)

At 1217.1 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 1215.32, 1216.14 and 1216.37.

**“DS PHY”**

*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**

*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).

**VHT in TVHT clause**

*Issue:*

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

*Proposal:*

Replace “VHT” with “TVHT” at 2573.53, 2573.57, 2573.60.

**References:**

802.11mc/D3.0