IEEE P802.22
Wireless RANs

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| TGb LB1 CID 225/226 Comment Resolution Implementation |
| Date: 2014-02-20 |
| Author(s): |
| Name | Company | Address | Phone | email |
| Ranga Reddy | Self |  |  | ranga.reddy@me.com |
|  |  |  |  |  |

Abstract

Implementation of resolution for Comment ID 225 & 226, as listed in the TGb Letter Ballot 1 comment database, DCN: 22-13/158r0 (or latest revision). The proposed resolution is outlined in DCN: 22-14/5r1.

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**Introduction**

This document describes the implementation to the resolution of CID 225 and 226 in the TGb LB1 ballot. The agreed upon resolution is documented in DCN 22-14/5r1. The comment database is located in DCN: 22-13/158r0 (or latest revision) and is listed as follows:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 225 | Ranga Reddy | Self | 7 | 7.7.2.2 | 1 | 44 | 40 | T | Why is a new AZ DS-MAP IE defined (see Table G1). How is different than the DS-MAP IE as defined in 7.7.2.1 of IEEE Std. 802.22-2011 |   |
| 226 | Ranga Reddy | Self | 7 | 7.7.2.4 | 1 | 45 | 44 | T | Why is a new DRZ DS-MAP IE defined (see Table I1). How is different than the DS-MAP IE as defined in 7.7.2.1 of IEEE Std. 802.22-2011 |   |

**Proposed Resolution**

The proposed resolution to this comment is discussed in 22-14/5r1. Proposed modifications entail mostly editorial changes to make sure the new IEs that are handled by Advanced CPEs, or only processed through the DS as Extended DIUC IEs, and through the US as Extended UIUC IEs.

**Proposed Text Modifcations to draft**

***Increase the value of the first column by +1 and Modify the last entry in Table 27 in the draft as follows. This suggestion is made because the “End of Map” should be kept at 63, but any new modes should exist solely in the extend space given by the use of an additional bit for DIUC in the AZDS-MAP, CRZDS-MAP, DRZDS-MAP, and DRZDS-MAP GRA IEs***

|  |  |
| --- | --- |
| 9~~1~~2-126 | reserved |

***Modify Table 28 in section 7.7.2.1.2 “DS-MAP Extended DIUC IE” of the draft as follows***

**Table 28 – DS-MAP Extended DIUC IE general format**

|  |  |  |
| --- | --- | --- |
| **Syntax** | **Size** | **Notes** |
| DS\_Extended\_IE(){ |  |  |
| Extended DIUC Type | 8 bits | Type of Extended DIUC IE as specifed in Table 28a. |
| ~~Extended DIUC~~ | ~~6 bits~~ |  |
| Length | 8 bits | Length of IE data in ~~bits~~bytes |
| Unspecified Data | Variable |  |
| } |  |  |

***Modify Table 28a in draft as follows***

|  |  |
| --- | --- |
| **Extended DIUC Type** | **Usage** |
| 0x00 | DS-MAP Dummy Extended IE |
| 0x01 | DS Multi-Zone Configuration IE |
| 0x02 | AZDS-MAP IE |
| 0x03 | CRZDS-MAP IE |
| 0x04 | DRZDS-MAP IE |
| 0x05 | DRZDS-MAP GRA IE |
| 0x06-0xFF | Reserved |

***Modify Table 29 “DS-MAP Dummy Extended IE format” in the base standard as follows***

**Table 29 – DS-MAP Dummy Extended IE format**

|  |  |  |
| --- | --- | --- |
| **Syntax** | **Size** | **Notes** |
| DS\_Dummy \_IE(){ |  |  |
| Extended DIUC | ~~6~~7 bits | 0x00 |
| Length | 8 bits | Length of IE data in ~~bits~~bytes |
| Unspecified Data | Variable |  |
| } |  |  |

***Include text of section 7.7.2.1.2.2 “DS Multi-Zone Configuration IE” after Table 29. Remove the “Type” and “Length” fields of Table F1, as they are redundant with “Extended DIUC Type” and “Length” as handled in the updated version of Table 28***

***Change # of section 7.7.2.2, titled “Access Relay Zone DS-MAP IE (AZDS-MAP IE)” to 7.7.2.1.2.3 and move the text to be after section 7.7.2.1.2.2. Remove “Type” field from Table G1, as it’s rendundant with specification of “Extended DIUC Type” as handled in the updated version of Table 28***

***Change # of section 7.7.2.3, titled “Centralized Zone DS-MAP IE (CRZDS-MAP IE)” to 7.7.2.1.2.4 and move the text to be after section 7.7.2.1.2.3. Remove “Type” field from Table H1, as it’s rendundant with specification of “Extended DIUC Type” as handled in the updated version of Table 28***

***Change # of section 7.7.2.4, titled “Distributed Relay Zone DS-MAP IE (DRZDS-MAP IE)” to 7.7.2.1.2.5 and move the text to be after section 7.7.2.1.2.4. Remove “Type” field from Table I1, as it’s rendundant with specification of “Extended DIUC Type” as handled in the updated version of Table 28***

***Change # & title of section 7.7.2.5 “DRZDS-MAP GRA IE” to 7.7.2.1.2.6 “Distributed Relay Zone DS-MAP Group Resource Allocation (DRZDS-MAP GRA IE) and move the text to be after section 7.7.2.1.2.5.***

***Increase the value of the first column by +1 and Modify the last entry in Table 36 in the draft as follows. This suggestion is made because the “End of Map” should be kept at 63, but any new modes should exist solely in the extend space given by the use of an additional bit for DIUC in the AZUS-MAP, CRZUS-MAP, DRZUS-MAP, and DRZUS-MAP GRA IEs***

|  |  |
| --- | --- |
| 9~~1~~2-126 | reserved |

***Modify Table 39 in section 7.7.4.1.4 “US-MAP Extended UIUC IE” of the draft as follows***

**Table 39 – US-MAP ~~e~~Extended UIUC IE general format**

|  |  |  |
| --- | --- | --- |
| **Syntax** | **Size** | **Notes** |
| US\_Extended\_IE(){ |  |  |
| Extended UIUC Type | 8 bits | Type of Extended UIUC IE as specifed in Table 39a. |
| ~~Extended UIUC~~ | ~~6 bits~~ |  |
| Length | 8 bits | Length of IE data in ~~bits~~bytes |
| Unspecified Data | Variable |  |
| } |  |  |

***Modify Table 39a in draft as follows***

|  |  |
| --- | --- |
| **Extended UIUC Type** | **Usage** |
| 0x00 | US-MAP Dummy Extended IE |
| 0x01 | US Multi-Zone Configuration IE |
| 0x02 | AZUS-MAP IE |
| 0x03 | CRZUS-MAP IE |
| 0x04 | DRZUS-MAP IE |
| 0x05 | DRZUS-MAP GRA IE |
| 0x06-0xFF | Reserved |

***Modify Table 40 “US-MAP Dummy Extended IE format” in the base standard as follows***

**Table 40 – US-MAP Dummy Extended IE format**

|  |  |  |
| --- | --- | --- |
| **Syntax** | **Size** | **Notes** |
| US\_Dummy \_IE(){ |  |  |
| Extended UIUC | ~~6~~7 bits | 0x00 |
| Length | 8 bits | Length of IE data in ~~bits~~bytes |
| Unspecified Data | Variable |  |
| } |  |  |

***Include text of section 7.7.4.1.4.2 “US Multi-Zone Configuration IE” from the draft after Table 40. Remove the “Type” and “Length” fields of Table K1, as they are redundant with “Extended UIUC Type” and “Length” as handled in the updated version of Table 39***

***Change # of section 7.7.4.2, titled “Access Relay Zone US-MAP IE (AZUS-MAP IE)” to 7.7.4.1.4.3 and move the text to be after section 7.7.4.1.4.2.***

***Change # of section 7.7.4.3, titled “Centralized Zone US-MAP IE (CRZUS-MAP IE)” to 7.7.4.1.4.4 and move the text to be after section 7.7.4.1.4.3.***

***Change # of section 7.7.4.4, titled “Distributed Relay Zone US-MAP IE (DRZUS-MAP IE)” to 7.7.4.1.4.5 and move the text to be after section 7.7.4.1.4.4.***

***Change # & title of section 7.7.4.5 “DRZUS-MAP GRA IE” to 7.7.4.1.4.6 “Distributed Relay Zone D=US-MAP Group Resource Allocation (DRZUS-MAP GRA IE) and move the text to be after section 7.7.4.1.4.5.***

**References:**

[1] IEEE P802.22b WRAN Amendment: Enhancement for broadband services and monitoring applications Draft 1.0 WG Letter Ballot Template, DCN 22-13/158r2, <https://mentor.ieee.org/802.22/dcn/13/22-13-0158-02-000b-802-22b-letter-ballot-1-comment-database.xls>

[2] Comment Resolution related to MAC Frame (CID 225, 225), DCN 22-14/5r1, <https://mentor.ieee.org/802.22/dcn/14/22-14-0005-00-000b-comment-resolution-cid225-226.pptx>