IEEE P802.11
Wireless LANs

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| Proposed Resolution to DSE Link Identifier Element  |
| Date: 2011-09-05 |
| Author(s): |
| Name | Company | Address | Phone | Email |
| Eunsun Kim | LG Electronics | Mobile Comm. Lab, LG R&D Complex 533, Hogye1, Dongan, Anyang, Korea | +82-31-450-1860 | Esun.kim@lge.com |
| Yongho Seok  | LG Electronics | Mobile Comm. Lab, LG R&D Complex 533, Hogye1, Dongan, Anyang, Korea | +82-31-450-1947 | Yongho.seok@lge.com |

Abstract

This document provides proposed resolutions for technical comments 39, 40, 105, 150, 184, 276, 277, 278, 280, 281, 282, 283, 284, 285, 330, 388, 407, 408, 487, 488, 489, 743, 963, 1011, 1072 and 1228.

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

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

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** |
| 38 | 30.25 | 8.4.2.af2 | The length can be 6 or 12 | As in comment |
| 275 | 30.25 | 8.4.2.af2 | Length cannot be fixed if some fields are optional. | Allow for flexible lengths to accommodate optionally present fields. Also fix the corresponding table entry in 8.4.2.1 |
| 386 | 30.00 | 8.4.2.af2 | The text "The Length field is set to 12." doesn't coincident with the picture. The picture states that the second element may or may not be present. | Change "The Length field is set to 12." to "The Length field is set to 8 or 14." |
| 683 | 30.25 | 8.4.2.af2 | Figure 8-42af4 and line 32 below describe the BSSID field as an optional field that may not be present in the DSE Link Identifier element. However, this statement about the Length field having value 12 does not take into account that. | Replace “The Length field is set to 12” with “The Length field is set to 6 to 12”. |
| 707 | 30.24 | 8.4.2.af2 | The length field can be 6 or 12, depending on the presence of the BSSID field | Change to "The Length field is set to either 6 or 12" |
| 959 | 30.25 | 8.4.2.af2 | The length field does not capture the optional BSSID, e.g., when BSSID field is not present it should be 6. | Replace "The Length field is set to 12" with "The Length field is set to 12, or 6 depending on whether BSSID field is present or not. |
| 1068 | 30.25 | 8.4.2.af2 | "The Length field is set to 12." - how does this agree with the optionality of the BSSID field | Chang to "... 6 or 12". |
| 1069 | 30.28 | 8.4.2.af2 | "The length of the ResponderSTAAddress field is 6 octets." - this is doubly unnecessary. The figure above shows it as 6, and a MAC address is by definition 6 octets. | Remove cited text. |
| 1218 | 30.25 | 8.4.2.af2 | The Length field is not always set to 12 if the BSSID field is optional. | Clarify. |
| 172 | 32.34 | 8.4.2.1 | The length of the DSE Link identifier element is incorrect. 8.4.2.af2 requires the BSSID to be present when transmitted over the air (6 octetts in additoin to the 8 octetts for the element id, length, and responder STA address field) | Change length from 12 to 14 |
| 385 | 27.34 | 8.4.2.1 | The lenght of the total Element "DSE Link Identifier (see 8.4.2.af2)" is wrong. You need to count the Element ID and the Length field too. Also the second field in 8.4.2.af2 is 0 or six. So this IE can have two lengths. | Set length to 8 or 14. |
| 823 | 27.34 | 8.4.2.1 | Length of DSE Link Identifier doesn't agree with description in 8.4.2.af2. | Change length to “8 or 14”. |

**Discussion:**

CIDs 38, 275, 386, 683, 707, 959, 1068, 1069, 1218, 172, 385 and 823 request to correct the value of length field in the DSE Link Identifier. It should be 6 by removing optional BSSID field.

**Propose** Revised for 38, 275, 386, 683, 707, 959, 1068, 1069, 1218, 172, 385 and 823.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 183 | 30.31 | 8.4.2.af2 | If the enablement responder is the AP, what would be put in the BSSID field? Is such an AP associated to itself? What if the enablement responder is not associated to an AP? Example: Mode II device (e.g. mobile phone with WiFi Interface) accessing the database via the cellular network and enabling oder Mode I devices (WiFi) via ad-hoc communication / iBSS set-up? | Please clarify. |
| 706 | 30.10 | 8.4.2.af2 | What are "enablement requester" and "enablement responder". These are the first time these terms are used in the document. | Please provide a definition for these terms or reference another clause in IEEE 802.11REVmb (perhaps from a previous 802.11y clause??) |

**Discussion:**

CID 183 comments on the BSSID filed in the DSE Link Identifier frame. Propose to remove it.

CID 706 asks for definitions of the enablement requester and enablement responder. As the document 11-11/414r7 is approved, which propose replacement of DSE related terminologies with GDC enablement terminologies and provides the definitions, propose to replace the enablement requester/responder with GDC Enabling/Dependent STA.

**Propose** Revised for 183 and 706.

## Editing instructions:

8.3.3.2 Beacon frame format

TGaf editor: Change the following row in Table 8-20:

|  |  |  |
| --- | --- | --- |
| **Order** | **Information** | **Notes** |
| <ANA> | ~~DSE~~ GDC Link Identifier | The ~~DSE~~ GDC Link Identifier element may be present if dot11MultiDomainCapabilityActivated is true. |

8.3.3.10 Probe Response frame format

TGaf editor: Change the following row in Table 8-27:

|  |  |  |
| --- | --- | --- |
| **Order** | **Information** | **Notes** |
| <ANA> | ~~DSE~~ GDC Link Identifier | The ~~DSE~~ GDC Link Identifier element may be present if dot11MultiDomainCapabilityActivated is true. |

**8.4 Management frame body components**

**8.4.2 Information elements**

***TGaf editor: modify the following row in Table 8-54:***

Table 8-54 – Element IDs

|  |  |  |  |
| --- | --- | --- | --- |
| Information Element | Element ID | Length (in octets) | Extensible |
| ~~DSE~~ GDC Link Identifier (see 8.4.2.130 (~~DSE~~ GDC Link Identifier element) | <ANA> | 8 ~~or 14~~ | Yes |

***TGaf Editor: Modify the 8.4.2.130 sub-clause as the following:***

**8.4.2.130 ~~DSE~~ GDC Link Identifier element**

The ~~DSE~~ GDC Link Identifier element contains information that identifies a link between ~~an enablement requester and an enablement responder~~ GDC enabling STA and GDC dependent STA. The element information format is defined in Figure 8-402n (~~DSE~~ GDC Link Iden­tifier element format).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  | Element ID | Length | ~~Responder STA Address~~ GDC Enabling STA Address | ~~BSSID (Optional)~~ |
| **Octets:** | 1 | 1 | 6 | ~~0 or 6~~ |

**Figure 8-402n—~~DSE~~ GDC Link Identifier element format**

The Element ID field is equal to the ~~DSE~~ GDC Link Identifier value in Table 8-54 (Element IDs).

The Length field is set to 6 ~~or 12~~.

The ~~ResponderSTAAddress~~ GDC Enabling STA Address field is the MAC address of the ~~enablement responder STA~~ GDC enabling STA that grants GDC enable­ment. ~~The length of the ResponderSTAAddress field is 6 octets.~~

~~The BSSID field is set to the BSSID of the BSS to which the enablement responder STA is associated. When the DSE enablement messages are exchanged not over the air, the BSSID field is not present.~~