IEEE P802.11
Wireless LANs

|  |
| --- |
| Getting Rid of The Short SSID |
| Date: 2015-03-12 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Dan Harkins | Aruba Networks | 1322 Crossman avenue, Sunnyavle, California, United States of America | +1 408 227 4500 | dharkins at arubanetworks dot com |
|  |  |  |  |  |

Abstract

This submission resolves CID 7256

***Instruct the editor to modify section 6.3.3.2 as indicated:***

**6.3.3.3.2 Semantics of the service primitive**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  Name |  Type |  Valid range |  Description |  IBSS adoption |
|  SSID | The SSID as defined in the SSID element  | As defined in the SSID element  | The SSID of the found BSS | Do not adopt |

***Instruct the editor to modify section 8.4.2.169.1 as indicated:***

**8.4.2.169.1 Neighbor AP Information field**

When the TBTT Information Field Type is equal to 1, the TBTT Information Length subfield is interpreted

as follows:

* When the value of TBTT Information Length is 1, the TBTT Information field contains the AP's Next TBTT Offset (ANTO) subfield.
* When the TBTT Information Length is 7, the TBTT Information field contains the AP's Next TBTT Offset subfield and the BSSID subfield.
* Other values of the TBTT Information Length are reserved.

|  |  |  |
| --- | --- | --- |
|  TBTT Offset |  BSSID |   |

 Octets: 1 0 or 6

 **Figure 8-573—TBTT Information field format when TBTT Information Field Type is 0**

|  |  |  |
| --- | --- | --- |
| AP’s Next TBTT  Offset |  BSSID |  |

 Octets: 1 0 or 6

 **Figure 8-573a—TBTT Information field format when TBTT Information Field Type is 1**

The AP's Next TBTT Offset (ANTO) subfield in the TBTT Information field indicates the time offset in

number of TUs, rounded down to the nearest TU, between the transmission of the current frame and the next

TBTT of a neighbor AP. If the BSSID subfield is present, the neighbor AP is identified by the

BSSID. The value 254 is used to indicate an offset of 254 TUs or higher. The value 255 is

used to indicate an unknown offset value.

***Instruct the editor to modify section 8.6.8.36 as indicated:***

**8.6.8.36 FILS Discovery frame format**

The FILS Discovery Information field is shown in Figure 8-663a (FILS Discovery Information field format).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  FILS Discovery Frame Control | SSID |  AP’s Next TBTT Offset |  Length |  FD Capability |  Operating Class |

 Octets: 2 1-32 1 0 or 2 0 or 2 0 or 1

 **Figure 8-663a—FILS Discovery Information field format**

The format of the FILS Discovery Frame Control subfield is shown in 8-663b (FILS Discovery Frame Control

subfield format).

 B0 B4 B5 B6

|  |  |  |  |
| --- | --- | --- | --- |
|  SSID Length | Capability Presence Indicator |  | AP-CSN Presence Indicator |

 Bits: 5 1 1

 B7 B8 B9 B10 B11 B12 B15

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  ANO Presence Indicator | CCFS-1 Presence Indicator | Primary Channel Presence Indicator | RSN Info Presence Indicator | Length Presence Indicator | Reserved |

 Bits: 1 1 1 1 1 3

 **Figure 8-663b—FILS Discovery Frame Control subfield format**

The SSID Length subfield of the FILS Discovery Frame Control subfield indicates the length, in octets, of the SSID/ subfield in the FILS Discovery frame. The value of this subfield is equal to the length of the SSID subfield in octets minus 1.

A value of 1 for the Capability Presence Indicator subfield indicates that the FD Capability subfield is present in the FILS Discovery frame. A value of 0 indicates that the FD capability subfield is not present in the FILS Discovery frame.

The SSID subfield is variable length between 1 and 32 octets. The SSID/ field contains the SSID, of which the length is specified by the 5-bit SSID Length subfield in the FILS Discovery Frame Control of the FILS Discovery frame (see 8.4.2.2 (SSID element)).

***Instruct the editor to modify section 10.45.2.2 as indicated:***

**10.45.2.2 FILS Discovery frame reception**

A scanning FILS STA that receives an FILS Discovery frame should compare the received SSID in the FILS Discovery frame with the SSID parameter or SSID list provided to the STA previously in a MLME-SCAN request primitive. If the STA has the ReportingOption parameter in the MLMESCAN. request primitive equal to IMMEDIATE and if the SSID in the FILS Discovery frame matches the SSID parameter or one of the SSIDs in the SSID list the STA shall issue an MLME-SCAN.confirm primitive with the information obtained from the received FILS Discovery frame immediately after the reception of the FILS Discovery frame, with the ResultCode equal to INTERMEDIATE\_SCAN\_RESULT.

**References:**