IEEE P802.11  
Wireless LANs

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| --- | --- | --- | --- | --- |
| Clean up of FILS Container | | | | |
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Abstract

The submission cleans the editorial challenges and poor structure of the FILS Container element, FILS Container TLV and element defragmentation.

**8.4.2.186 FILS ~~Secure~~ Container element**

***Instructions to the Editor. Make the changes to the clause 8.4.2.186 as shown below. The orginal text is 802.11ai D1.2.***

FILS ~~Secure~~ Container element includes one ~~or more~~ FILS ~~Secure~~ Container ~~Type Length Value(s) (~~TLV~~) (s)~~. The FILS Container element is shown in figure 8-401db(FILS Container element format).

|  |  |  |  |
| --- | --- | --- | --- |
|  | Element ID | Length | FILS Container TLV |
| Octets: | 1 | 1 | Variable |

Figure 8-401db—FILS Container element format

The Element ID and Length fields are defined in 8.4.2.1 (General).

FILS Secure Container TLV carries out various purposes such as IP address assignment and GTK transfer. A FILS Container TLV encoding consists of three fields: Type, Length, and Value field as shown in Figure 8-401dc~~v~~ (FILS Container TLV format).

|  |  |  |  |
| --- | --- | --- | --- |
|  | Type | Length | Value |
| Octets: | 1 | 2 | Variable |

Figure 8-401dc~~b~~—FILS ~~Secure~~ Container TLV format

The ~~first field,~~ Type field~~,~~ specifies the type of the data carried by the V~~v~~alue field, and it is unique within the FILS ~~Secure~~ Container TLVs~~element~~. The values of the Type field are shown in Table Table 8-183d—FILS Secure Container TLV.The ~~second field,~~ Length field~~,~~ specifies the actual length of the V~~v~~alue field in octets. The ~~third field,~~ Length field~~,~~ contains the data representing the value for the T~~t~~ype field.

If a FILS Container TLV is too large to fit into a single FILS Container element, the FILS Container element is fragmented as described in 9.33 (Element Fragmentation).

**Table 8-183d—FILS Secure Container TLV**

|  |  |  |  |
| --- | --- | --- | --- |
| ~~Type~~ Name of TLV | Type ID | Length (octets) | Extensible |
| FILS HLP Wrapped data | 1 | ~~variable but limited~~  ~~by MPDU~~ Up to 65535 | No |
| FILS IP Address Request | 2 | 4 to 255 | No |
| FILS IP Address Assignment | 3 | 4 to 255 | No |
| FILS DNS Information | 4 | 4 to 255 | No |
| KEY RSC | <ANA> | 19 | No |
| KDE Container | <ANA> | 4 to 255 | No |

|  |  |  |  |
| --- | --- | --- | --- |
|  | ~~Element ID~~ | ~~Length~~ | ~~FILS Secure Container TLV~~ |
| ~~Octets:~~ | ~~1~~ | ~~1~~ | ~~Variable~~ |

~~Figure 8-401db—FILS Secure Container element format~~

~~FILS Secure Container TLVs are used to carry out various purposes such as IP address assignment and GTK transfer.~~

~~If a FILS Secure Container TLV is too large to fit into a single element, the FILS Secure Container element is fragmented by using the Fragment elements (see 8.4.2.189 (Fragment element)).~~

**8.4.2.189 Fragment element**

***Instructions to the Editor. Make the changes to the clause 8.4.2.189 as shown below. The orginal text is 11-14-0003r2***

The payload of e~~E~~ach ~~information~~ element is limited to a maximum of 255 octets since their L~~l~~ength field is a single octet (Figure 8-104). If data to be represented in an element ~~IE~~ is too large ~~and the generic advertisement service (GAS) is not used~~, it is necessary to fragment the data (see section 9.33 and 9.34). The format of the Fragment element ~~IE~~ is indicated in Figure 8-183dx (Fragment element format ~~IE~~).

~~The length of the all but the final Fragment element shall be 255. The length of the final Fragment element depends on the amount of fragmented data left over. The length of a Fragment element shall always be nonzero.~~

|  |  |  |  |
| --- | --- | --- | --- |
|  | Element ID | Length | Fragmented Data |
| Octets: | 1 | 2 | Variable |

Figure 8-183dx—Fragmented Data element format

**9.34 Element ~~Reassembly~~ Defragmentation**

***Instructions to the Editor. Make the changes to the clause 9.34 as shown below. The orginal text is 11-14-0003r2***

Elements which have had their information fields fragmented are those that are followed by one or more Fragment elements. To reconstruct the original data the chunk of data from the leading element is concatenated, in order, with the chunks of data from the series of Fragment elements that follow it. The defragmentation ~~reassembly~~ procedure finishes when any element other than a Fragment element is encountered or the end of the MMPDU is reached.