IEEE P802.11 Wireless LANs

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| Suggested resolution for submitted TGai comment 1029 (Specification text for FILS Capability field) |
| Date:2013-05-14 |
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Abstract

This submission proposes the 802.11ai specification text for FILS Capability field, as a suggested resolution to a comment submitted for IEEE 802.11 Comment Collection 8 for 802.11ai Draft 0.5[Ref-2].

# Introduction

The following comment has been submitted to IEEE 802.11 Comment Collection 8 for 802.11ai Draft 0.5[Ref-2]:

**Comment 1029: page 30 line 15, Section 8.4.2.29**

*AP shall know the FILS capability of the STA. However, ai draft only described FILS indication of AP. Thus, FILS capability of the STA shall be defined in the Draft.*

**Proposed Change:**

*Add the "FILS capability" in the Extended Capabilities element (Table 8-103 Capabilities field).*

This contribution proposes detailed changes in 802.11ai/D0.5 [Ref-2], to add the FILS capability field in the Extended Capabilities element.

# Conventions

In this contribution, the proposed 802.11ai Specification Document text will be presented as changes to the current TGai draft specification, 11ai/D0.5 [Ref-2]. The following format conventions are used:

1. The new added text is marked as blue underline text;
2. The deleted text is marked as ~~red strikethrough text~~;
3. The unchanged baseline standard text stays in black text in the context of proposed TGai specification text;
4. The editorial instruction is marked as *italic text highlighted by Yellow*; and
5. Any other text, e.g., discussions, proposed motions, etc., is in black text, but not in the context of proposed TGai specification text.

# Proposed 802.11ai Specification Text

*Instructions to Editor: Add the following subsection 8.4.2.29 Extended Capabilities element in the line 15 on page 30 and add the new subfield in the table 8-103 Capabilities field as follows:*

**8.4.2.29 Extended Capabilities element**

Table 8-103 Capabilities field

|  |  |  |
| --- | --- | --- |
| **Bit** | **Information** | **Notes** |
| 48 | UTF-8 SSID | The SSID in this BSS is interpreted using UTF-8 encoding |
| 49 | FILS capability | When dot11FILSActivated is true, the FILS capability field is set to 1 to indicate the non-AP STA supporting the fast initial link setup. |
| ~~49~~50-n | Reserved |  |

# References:

1. IEEE Std 802.11 – 2012
2. IEEE Std 802.11ai/D0.5