IEEE P802.11
Wireless LANs

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| SAE Password Identifier Indication |
| Date: 2018-11-12 |
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Abstract

This submission proposes a resolution to CID 1284 by adding two indicators to allow an AP to announce the presence of passwords with identifiers in its password database.

**Discussion:** SAE supports optional identifiers to be passed as part of the exchange to indicate which of a possible multitude of passwords an AP may have that it wants to use. This poses UI/UX issues for STAs who do not know whether to prompt for an identifier or not during provisioning time. CID 1284 requests that indicators be added to allow an AP to indicate password in its database of passwords use a password identifier. There is no defined STA behavior as 802.11 does not discuss UI/UX behavior of STAs.

***Request the allocation of <ANA> and instruct the editor to modify table 9-146 as indicated replacing <ANA> references with the assigned numbers:***

 **Table 9-146—Extended Capabilities field**

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|  74 | Future Channel Guidance | The STA sets the Future Channel Guidance field to 1 when dot11FutureChannelGuidanceActivated is true and sets it to 0 otherwise. See 11.8.10 (Future Channel Guidance operation). |
|  <ANA> | SAE Password Identifiers In Use | The AP sets SAE Password Identifiers In Use field to 1 when any password in the dot11RSNConfigPasswordValueTable has a password identifier and sets it to 0 otherwise. See 12.4.3 (Representation of a password). |
|  <ANA+1> | SAE Password Identifiers Used Exclusively | The AP sets SAE Password Identifiers Used Exclusively to 1 when every password in the dot11RSNConfigPasswordValueTable has a password identifier and sets it to 0 otherwise. See 12.4.3 (Representation of a password). |
| <ANA+2> -n |  Reserved |  |

***Instruct the editor to modify section 12.4.3 as indicated:***

**12.4.3 Representation of a password**

When a "password identifier" is called for in the description of SAE that follows, the identifier from the dot11RSNConfigPasswordValueTable is used.

In an infrastructure BSS for which an SAE AKM is indicated, the AP shall set the SAE Password Identifiers In Use bit of the Extended Capabilites field of the Extended Capabilities element to 1 if any entry in the dot11RSNConfigPasswordValueTable has a non-NULL dot11RSNAConfigPasswordIdentifier, and shall set it to 0 otherwise. Similarly, an AP shall set the SAE Password Identifiers Used Exclusively bit of the Extended Capabilities field of the Extended Capabilities element to 1 if every entry in the dot11RSNConfigPasswordValueTable has a non-NULL dot11RSNAConfigPasswordIdentifer and shall set it to 0 otherwise.

**References:**