IEEE P802.11
Wireless LANs

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| Security related requirements for Specification Frame Work Document  |
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# 3. Security Framework

3.1 EAP-RP Support for FILS

### Concept Summary:

* EAP-RP is defined in IETF RFC 5295/5296.
* EAP-RP reduces the number of EAP messages to 1 pair
* Details in 1160/r6 (slides 9, 10, 12)

### Motion:

**Move to add the following statement to the TGai Spec Framework:**

R.3.A: The draft specification shall include support for the EAP-RP [as defined in IETF RFC 5295/5296] for fast authentication by using a pre-established FILS context (EMSK, rRK, rIK) to improve the authentication time during association

**Y:**

**N:**

**A:**

3.2 Optimized EAP Support for FILS

### Concept Summary:

* Reduces the number of messages needed for EAP
* Details in 1160/r6 (slides 13)

### Motion:

**Move to add the following statement to the TGai Spec Framework:**

R.3.B: The draft specification shall include support for the use of optimized EAP by concurrent association, authentication and key distribution to set up initial link and establish the FILS context

**Y:**

**N:**

**A:**

3.3 Concurrent 4-way handshake with Authentication

### Concept Summary:

* Sending of 4-Way Handshake Messages concurrently with EAP/EAP-RP authentication
* Reduces total number of messages
* Details in 1160/r6 (slides 13, 14)

### Motion:

**Move to add the following statement to the TGai Spec Framework:**

R.3.C: The draft specification shall include support for exchanging EAP/EAP-RP messages concurrently to 4-way handshake.

**Y:**

**N:**

**A:**

3.4 Concurrent Authentication & IP address assignment

### Concept Summary:

* Sending of IP address assignment request messages concurrently with EAP/EAP-RP authentication
* Details in 1160/r6 (slides 13, 14)

### Motion 1:

**Move to add the following statement to the TGai Spec Framework:**

R.3.D: The draft specification shall include support for transmitting Authentication, Key-Exchange and High Layer messages (e.g. IP address assignment) concurrently, to improve link setup time

**Y:**

**N:**

**A:**

### Motion 2:

**Move to add the following statement to the TGai Spec Framework:**

The draft specification shall include support for transmitting EAP authentication result to STA without including High Layer messages transmission (e.g. IP address assignment) if authentication finishes before IP address assignment.

Y:

N:

A:

3.5 Encryption of IP Address Assignment Request message

### Concept Summary:

* Include option to allow STA to send IP address assignment request Messages in an un-encrypted manner
	+ AP advertises if STA is allowed to send IP address assignment request messahe in an un-encrypted manner
* Allows concurrent backhaul operations
* Details in 1160/r6 (slide 16)

### Motion:

**Move to add the following statement to the TGai Spec Framework:**

R.3.E: The draft specification shall include support for transmitting IP address assignment request message in encrypted and in unencrypted manner by the STA, based on the feature-support indication sent by the AP

**Y:**

**N:**

**A:**