



Configuring and Validating Key Controller (Wireless Security)

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To support wireless security to standard Wi-Fi Protected Access (WPA) protocols, a key rotation strategy is implemented for Catalyst IW9167E. The key controller protocol is a packet exchange between two devices, in which different stages of the process correspond to different states of each device. The algorithm flow is controlled by a set of timers scheduled periodically to generate new Pairwise Transient Key/Group Transient Key for packet encryption. The more frequently keys are updated, the lesser amount of information is leaked in the event of an attack.

Configuring Key Controller from CLI

To configure a key controller, use the following CLI commands:

1. To enable Advanced Encryption Standard (AES) on Radio, use the following CLI command:

```
Device# configure dot11Radio <interface> crypto aes enable
```

2. To enable key controller, use the following CLI command:

```
Device #configure dot11Radio <interface> crypto key-control enable
```

3. To enable key rotation, use the following CLI command:

```
Device# configure dot11Radio <interface> crypto key-control key-rotation enable
```

4. To set key rotation timer, use the following CLI command:

```
Device# configure dot11Radio <interface> crypto key-control key-rotation 3600
```



Note By default, AES mode is disabled. Configuration should be same on all devices.

Validating Key Controller from CLI

To validate a key controller, use the following show command:

```
Device# show dot11Radio X crypto
AES encryption: enabled
AES key-control: enabled
Key rotation: enabled
Key rotation timeout: 3600(second)
```