



Confirming the Port Security Installation

This chapter explains how to confirm the port security installation in the APIC and leaf switch using Visore and how to confirm port security has been programmed in the hardware using the Cisco NX-OS-style CLI. For information about configuring port security, see the *Cisco Port Security* document.

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Confirming Your Port Security Installation Using Visore

Step 1 On the Cisco APIC, run a query for the I2PortSecurityPol class in Visore to verify the port security policy installation.

Step 2 On the leaf switch, run a query for I2PortSecurityPolDef in Visore to confirm that the concrete object exists on the interface.

If you have confirmed that port security is installed on the Cisco APIC and leaf switch, use the Cisco NX-OS CLI to confirm that port security has been programmed in the hardware.

Confirming Your Hardware Port Security Installation Using the Cisco NX-OS CLI

Step 1 View the port security status on the switch interface as follows:

Example:

```
switch# show system internal epm interface ethernet 1/35 det
name : Ethernet1/35 ::: if index : 0x1a022000 ::: state : UP
vPC : No ::: EPT : 0x0
MAC Limit : 8 ::: Learn Disable : No ::: PortSecurity Action : Protect
VLANs : 4-23
Endpoint count : 5
Active Endpoint count : 5
```

```
switch# show system internal epm interface port-channel 1 det

name : port-channell1 ::: if index : 0x16000000 ::: state : UP
vPC : No ::: EPT : 0x0
MAC Limit : 6 ::: Learn Disable : No ::: PortSecurity Action : Protect
VLANs :
Endpoint count : 0
Active Endpoint count : 0
Number of member ports : 1
Interface : Ethernet1/34 /0x1a021000
:::
```

Step 2 View the port security status on the module interface as follows:

Example:

```
module-1# show system internal epmc interface ethernet 1/35 det
if index : 0x1a022000 ::: name : Ethernet1/35 ::: tun_ip = 0.0.0.0
MAC limit : 8 ::: is_learn_disable : No ::: MAC limit action: Protect
pc if index : 0 ::: name :
is_vpc_fc FALSE ::: num_mem_ports : 0
interface state : up
Endpoint count : 5
EPT : 0

module-1# show system internal epmc interface port-channel 1 det
if index : 0x16000000 ::: name : port-channell1 ::: tun_ip = 0.0.0.0
MAC limit : 6 ::: is_learn_disable : No ::: MAC limit action: Protect
pc if index : 0 ::: name :
is_vpc_fc FALSE ::: num_mem_ports : 1
interface state : up
Endpoint count : 0
EPT : 0
:::
```

Step 3 View the port security status on the leaf switch as follows:

Example:

```
swtb15-leaf2# show system internal epm interface ethernet 1/35 det

name : Ethernet1/35 ::: if index : 0x1a022000 ::: state : UP
vPC : No ::: EPT : 0x0
MAC Limit : 5 ::: Learn Disable : Yes ::: PortSecurity Action : Protect
VLANs : 4-23
Endpoint count : 5
Active Endpoint count : 5
:::
```

Step 4 Confirm the MAC limit on the module interface as follows:

Example:

```
module-1# show system internal eltmc info interface port-channell1 | grep mac_limit
mac_limit_reached: 0 ::: mac_limit: 8
port_sec_feature_set: 1 ::: mac_limit_action: 1
```

Example:

```
module-1# show system internal eltmc info interface ethernet 1/35 | grep mac_limit
mac_limit_reached: 0 ::: mac_limit: 8
port_sec_feature_set: 1 ::: mac_limit_action: 1
```

Step 5 View the port security status in the module and confirm the MAC limit as follows:

Example:

```
module-1# show system internal epmc interface ethernet 1/35 det
if index : 0x1a022000 ::: name : Ethernet1/35 ::: tun_ip = 0.0.0.0
MAC limit : 5 ::: is_learn_disable : Yes ::: MAC limit action: Protect
pc if index : 0 ::: name :
is_vpc_fc FALSE ::: num_mem_ports : 0
interface state : up
Endpoint count : 5
EPT : 0
::::
```

Example:

```
module-1# show system internal eltmc info interface ethernet 1/35 | grep mac_limit
mac_limit_reached:          1  ::: mac_limit:          5
port_sec_feature_set:       1  ::: mac_limit_action:    1
module-1# exit
```
