

PoE Settings & Troubleshooting

Overview

Power over Ethernet (PoE) powers cameras, readers, and access control devices over the data cable. Most physical security installs rely heavily on PoE. These commands let you check power draw, set power budgets, and reset PoE on a port.

Cisco IOS / Catalyst

```
# Show PoE status for all ports
show power inline

# Show PoE status for a specific port
show power inline GigabitEthernet1/0/5

# Enable PoE on a port (default is auto)
interface GigabitEthernet1/0/5
power inline auto

# Disable PoE on a port
interface GigabitEthernet1/0/5
power inline never

# Set a PoE power limit on a port (watts)
interface GigabitEthernet1/0/5
power inline auto max 15400

# Reset PoE (power-cycle the device) - shut/no shut
interface GigabitEthernet1/0/5
shutdown
no shutdown
```

PoE Standards:

- PoE (802.3af) — up to 15.4W per port (cameras, readers)
 - PoE+ (802.3at) — up to 30W per port (PTZ cameras, heated domes)
 - PoE++ (802.3bt) — up to 60W or 100W (high-power devices)
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Cisco Meraki

Via Dashboard:

- 1. Go to **Switch > Switches**, select the switch
- 2. Click the **Ports** tab
- 3. Select the port and click edit
- 4. Toggle **PoE** on/off, or set a power limit

To reset PoE on a port: **Disable PoE > Save > Re-enable PoE > Save**

HP / Aruba ProCurve

```
# Show PoE status all ports
show power-over-ethernet

# Show PoE for specific port
show power-over-ethernet 5

# Enable PoE on a port
interface 5
power-over-ethernet

# Disable PoE on a port
interface 5
no power-over-ethernet

# Set PoE power limit (milliwatts)
interface 5
power-over-ethernet value 15400
```

Troubleshooting

Symptom	Likely Cause	Fix
Port shows "searching" or "fault"	Device not PoE compatible, or cable fault	Check cable, verify device accepts PoE
Device powers on then off	Exceeded port power budget	Check draw with <code>show power inline</code> , upgrade to PoE+
Switch PoE budget exhausted	Too many high-draw devices	Review total draw, add PoE injector or second switch
Camera or reader offline but port is up	PoE disabled, or device needs reboot	Shut/no shut the port to power-cycle

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