

Configuring Perpetual PoE and Fast POE

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Restrictions for Perpetual and Fast PoE

The following restrictions apply to perpetual and fast PoE:

- Configuration of Fast PoE or Perpetual PoE has to be done before physically connecting any endpoint. Alternatively do a manual shut/no-shut of the ports drawing power.
- Power to the ports will be interrupted in case of PSE firmware upgrade and ports will be back up immediately after the upgrade.
- The CREE light powered device (PD) may flap at regular intervals if not configured with IP assigned from the DHCP server.

Information About Perpetual PoE

Perpetual PoE provides uninterrupted power to connected powered device even when a power sourcing equipment (PSE) switch is starting after a reload from executing the Cisco IOS software **reload** command.



Caution

Power to the ports will be interrupted in case of M3 or PSE firmware upgrade, and power to the ports will be backed up after Cisco IOS software starts.

Fast POE

This feature switches on power without waiting for IOS to boot up. When **poe-ha** is enabled on a particular port, the switch on a recovery after power failure, provides power to the connected endpoint devices within short duration before even the IOS forwarding starts up.

Configuring Perpetual and Fast PoE

To configure perpetual and Fast PoE, perform the following steps.

Procedure

	Command or Action	Purpose
Step 1	enable	Enables privileged EXEC mode.
	Example:	Enter your password, if prompted.
	Device> enable	
Step 2	configure terminal	Enters global configuration mode.
	Example:	
	Device# configure terminal	
Step 3	interface interface-id	Specifies the physical port to be configured,
	Example:	and enters interface configuration mode.
	Device(config) # interface gigabitethernet 1/1	
Step 4	power inline port perpetual-poe-ha Example:	Configures perpetual PoE. When you configure perpetual PoE on a port connected to a powered device, the powered device remains powered
	Device(config-if)# power inline port perpetual-poe-ha	on during reload.
Step 5	power inline port poe-ha	Configures Fast PoE. When you configure Fast
	Example:	PoE, if the switch is power cycled, PD device powers on within 50-60 seconds of plugging
	Device(config-if)# power inline port poe-ha	into a power source without waiting for IOS to boot up.
Step 6	end	Returns to privileged EXEC mode.
	Example:	
	Device(config-if)# end	

Example: Configuring Perpetual and Fast PoE

This example shows how you can configure perpetual PoE on a switch:

```
Device> enable
Device# configure terminal
Device(config)# interface gigabitethernet1/1
Device(config-if)# power inline port perpetual-poe-ha
Device(config-if)# end
```

This example shows how you can configure fast PoE on the switch:

```
Device> enable
Device# configure terminal
Device(config)# interface gigabitethernet1/1
Device(config-if)# power inline port poe-ha
Device(config-if)# end
```

Example: Configuring Perpetual and Fast PoE