

Configuration of Power over Ethernet (PoE) Settings on Cisco 200/300 Series Managed Switches

Objective

Power over Ethernet (PoE) allows a switch to provide power to connected devices via the same Ethernet cable that transmits data. This eliminates the need for a separate power cord to power devices such as IP phones and wireless access points.

The objective of this document is to show the user how to configure the PoE settings on a 200/300 Series Managed Switch.

Applicable Devices

- SF/SG 200 and 300 Series Managed Switches

Software Version

- 1.3.0.62

Configuration of PoE Settings

Port Limit

Note: This section explains the *Settings* page for Port Limit PoE mode. If you chose Class Limit in Step 2 of the article [Configuration of Power over Ethernet \(PoE\) Properties on Cisco 200/300 Series Managed Switches](#), go to the section titled *Class Limit* below.

Step 1. Log in to the web configuration utility and choose **Port Management > PoE > Settings**. The PoE *Settings* page opens:

Step 2. Click the radio button of a port whose settings you wish to edit and click the **Edit** button.

The *Edit PoE Settings* window appears.

Interface:	Port	FE35
PoE Administrative Status:	<input checked="" type="checkbox"/>	Enable
Power Priority Level:	<input type="radio"/>	Critical
	<input checked="" type="radio"/>	High
	<input type="radio"/>	Low
Administrative Power Allocation:	10000	mW (Range: 0 - 15400, Default: 15400)
Max Power Allocation:	16900	mW
Power Consumption:	0	mW
Overload Counter:	0	
Short Counter:	0	
Denied Counter:	0	
Absent Counter:	0	
Invalid Signature Counter:	0	

Apply Close

Step 3. (Optional) Choose a port from the drop-down list to edit.

Step 4. Check the **Enable** check box in the *PoE Administrative Status* field to enable PoE on the port.

Step 5. Click the radio button that corresponds with the *Power Priority Level* for the port.

Step 6. Enter the power in milli watts that will be allocated to the port in the *Administrative Power Allocation* field.

The following information is also displayed in the *Settings* page:

- Max Power Allocation — Maximum amount of power that is allowed on the chosen port.
- Power Consumption — Amount of power in milliwatts that is assigned to the powered device connected to the port.
- Overload Counter — Number of times there has been a power overload.
- Short Counter — Number of times there has been a power shortage.
- Denied Counter — Number of times the powered device has been denied power.
- Absent Counter — Number of times power has stopped because the powered device was not detected.

- Invalid Signature Counter — Number of times an invalid signature was received.

Step 7. Click **Apply** to save changes and then click **Close** to exit the *Edit PoE Settings* window.

Class Limit

Note: This section explains the *Settings* page for Class Limit PoE mode. If you chose Port Limit in Step 2 of the article [Configuration of Power over Ethernet \(PoE\) Properties on Cisco 200/300 Series Managed Switches](#), go to the section titled *Port Limit* at the beginning of this document.

Step 1. Log in to the web configuration utility and choose **Port Management > PoE > Settings**. The *PoE Settings* page opens.

Step 2. Click the radio button of a port whose settings you wish to edit and click the **Edit** button.

The *Edit PoE Settings* window appears.

Interface:	Port	FE17
PoE Administrative Status:	<input checked="" type="checkbox"/>	Enable
Power Priority Level:	<input type="radio"/>	Critical
	<input checked="" type="radio"/>	High
	<input type="radio"/>	Low
Class:		3
Max Power Allocation:		16900 mW
Power Consumption:		0 mW
Overload Counter:		0
Short Counter:		0
Denied Counter:		0
Absent Counter:		0
Invalid Signature Counter:		0

Apply Close

Step 3. (Optional) Choose a port from the drop-down list to edit.

Step 4. Check the **Enable** check box in the *PoE Administrative Status* field to enable PoE on the port.

Step 5. Click the radio button that corresponds with the *Power Priority Level* for the port.

The following information is also displayed in the *Settings* page.

- Class — Determines the power level that the end device can receive.
- Max Power Allocation — Maximum amount of power that is allowed on the chosen port.
- Power Consumption — Amount of power in milliwatts that is assigned to the powered device connected to the port.
- Overload Counter — Number of times there has been a power overload.
- Short Counter — Number of times there has been a power shortage.
- Denied Counter — Number of times the powered device has been denied power.
- Absent Counter — Number of times power has stopped because the powered device was not detected.
- Invalid Signature Counter — Number of times an invalid signature was received.

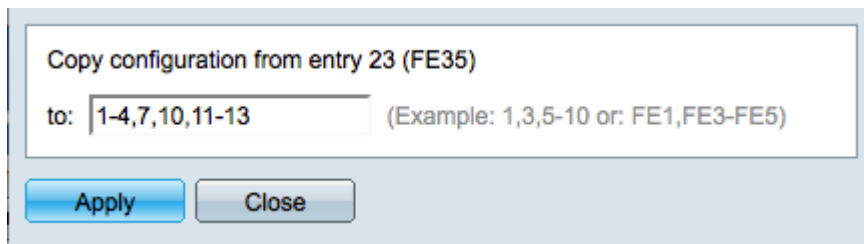
Step 6. Click **Apply** to save changes and then click **Close** to exit the *Edit PoE Settings* window.

Copy PoE Port Settings

Step 1. Log in to the web configuration utility and choose **Port Management > PoE > Settings**. The *PoE Settings* page opens.

Step 2. To copy the PoE settings of a port to several other ports, click the radio button of the desired port and click Copy Settings.

The *Copy Settings* window appears.



The screenshot shows a dialog box titled "Copy configuration from entry 23 (FE35)". Below the title is a text input field containing "1-4,7,10,11-13" and a hint "(Example: 1,3,5-10 or: FE1,FE3-FE5)". At the bottom of the dialog are two buttons: "Apply" and "Close".

Step 3. Enter the port number(s) or port name(s) of the port(s) to which you wish to copy the settings of the chosen port.

Step 4. Click **Apply** to apply the settings or click **Close** to cancel the settings.