

Configuration of Power over Ethernet (PoE) Properties 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 explain how to configure the PoE properties on a 200/300 Series Managed Switch.

Applicable Devices

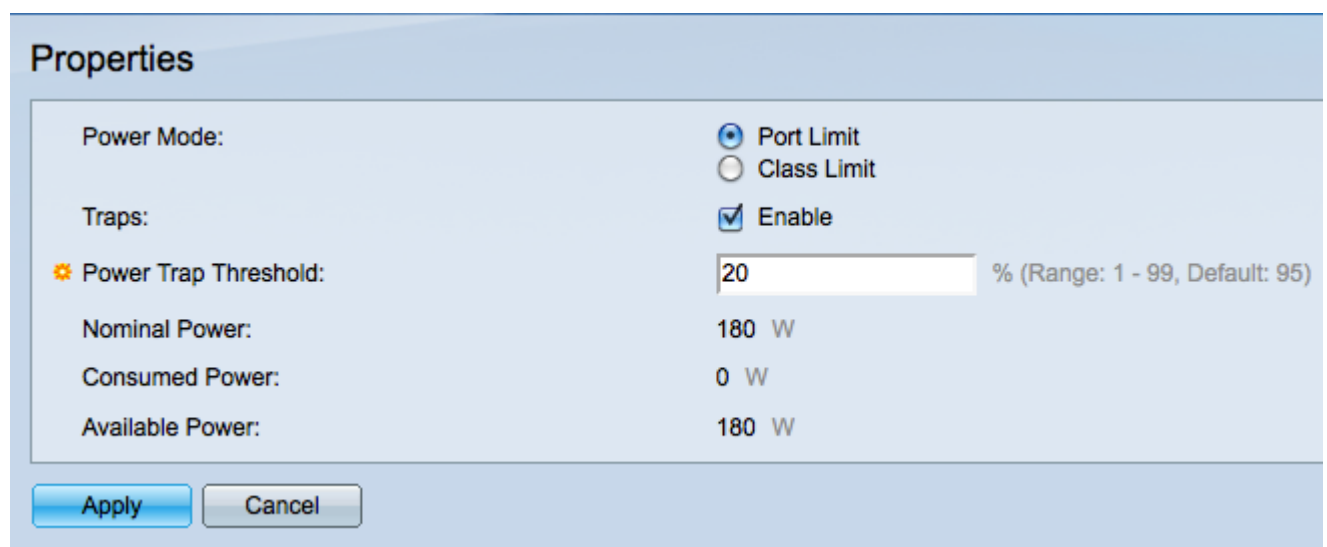
- SF/SG 200 and SF/SG 300 Series Managed Switches

Software Version

- 1.3.0.62

Configuration of PoE Properties

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



The screenshot shows the 'Properties' configuration page for PoE. It includes the following fields and options:

- Power Mode:** Two radio buttons: Port Limit and Class Limit.
- Traps:** A checkbox labeled 'Enable' which is checked.
- Power Trap Threshold:** A text input field containing '20' followed by a percentage sign. A note indicates '(Range: 1 - 99, Default: 95)'.
- Nominal Power:** 180 W
- Consumed Power:** 0 W
- Available Power:** 180 W

At the bottom of the form are two buttons: 'Apply' and 'Cancel'.

Step 2. In the Power Mode field, click the radio button that corresponds with the PoE mode you would like to use.

- **Port Limit** — The total amount of power that the switch will provide is decided by the administrator.
- **Class Limit** — The switch will provide as much power as the powered device requests.

Step 3. Check the **Enable** check box in the Traps field to allow the switch to send warning messages (traps) when the power output exceeds a predefined threshold.

Note: SNMP must be enabled and there must be at least one SNMP Notification Recipient available if you want to use traps. Refer to [Simple Network Management Protocol \(SNMP\) Notification Filter and Notification Recipient Configuration on 300 Series Managed Switches](#) for more information.

Step 4. In the Power Trap Threshold field, enter a percentage of the power limit that will cause a trap message to be sent.

The following information is displayed at the bottom of the *Properties* page.

- Nominal Power — Total amount of power that the switch can supply.
- Consumed Power — Amount of power currently being consumed by PoE ports.
- Available Power — Amount of power that can still be given. Available power is the difference between nominal power and consumed power.