

# Cisco Discovery Protocol (CDP) Neighbor Information on the 200/300 Series Managed Switches

## Objective

Cisco Discovery Protocol (CDP) is a Link-Layer Cisco proprietary protocol that allows Cisco devices to communicate regardless of IP connectivity. It is used primarily to communicate protocol addresses and device capabilities. CDP sends frames that contain Type Length Values (TLVs), which are different properties of the port and/or connection.

This document explains the information displayed on the *CDP Neighbor Information* page on the 200/300 Series Managed Switches.

## Applicable Devices

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

## Software Version

- 1.3.0.62

## CDP Neighbor Information

This section explains how to access the *CDP Neighbor Information* page, and covers the information given by the CDP protocol about the connected devices, neighbors, and switch.

Step 1. Log in to the web configuration utility and choose **Administration > Discovery - CDP > CDP Neighbor Information**. The *CDP Neighbor Information* page opens:



The screenshot shows the 'CDP Neighbor Information' page. At the top, there is a 'CDP Neighbor Information Table' section. Below it, there is a filter section with a checkbox for 'Local interface equals to', a dropdown menu set to 'FE13', and 'Go' and 'Clear Filter' buttons. Below the filter is a table with the following columns: Device ID, System Name, Local Interface, Advertisement Version, Time to Live (sec.), Capabilities, Platform, and Neighbor Interface. The table contains one row with the following data: Device ID: f4acc13ba618, System Name: switch3ba618, Local Interface: FE13, Advertisement Version: 2, Time to Live (sec.): 152, Capabilities: Router, Switch, IGMP, Platform: Cisco SG300-20 (PID:SRW2016-K9)-VSD, Neighbor Interface: g13. Below the table are 'Clear Table', 'Details...', and 'Refresh' buttons.

Device ID	System Name	Local Interface	Advertisement Version	Time to Live (sec.)	Capabilities	Platform	Neighbor Interface
f4acc13ba618	switch3ba618	FE13	2	152	Router, Switch, IGMP	Cisco SG300-20 (PID:SRW2016-K9)-VSD	g13

Step 2. (Optional) To filter information about the neighbors connected on a given interface, in the Filter field, check the **Filter** check box, choose an interface from the Local interface equals to drop-down list, and click **Go**.

Step 3. (Optional) To clear a filter search, click **Clear Filter**.

Step 4. (Optional) To clear the CDP Neighbor Information Table, click **Clear Table**.

Step 5. (Optional) To refresh the CDP Neighbor Information Table, click **Refresh**.

A table with all of the devices with which the switch has formed a CDP relationship is shown. It displays basic information for each neighbor device.

- Device ID — Displays either the MAC address or the serial number of the neighbor device.
- Local Interface — Displays the physical port that the neighbor device is plugged into on the local switch.
- Advertisement Version — Displays the version of CDP that is used.
- Time to live (sec.) — Displays how long ago a CDP packet was received.
- Capabilities — Displays what kinds of operations the neighbor device can perform.
- Platform — Displays the neighbor device's platform name, number, and Product ID (PID).
- Neighbor Interface — Displays the port on the neighbor device to which the switch is connected.

Step 6. To view detailed information on a neighbor device, click the radio button for the device and then click **Details**. The *CDP Neighbor Details* window appears.

Device ID:	54781aea746d
System Name:	switchea746d
Local Interface:	GE8
Advertisement Version:	2
Time to Live:	171 sec.
Capabilities:	Switch, IGMP
Platform:	Cisco SF300-24MP (PID:SF300-24M-K9)-VSD
Neighbor Interface:	fa4
Native VLAN:	1
Duplex:	Full
Addresses:	0.0.0.0
Power Drawn:	0.000 Watts
Version:	1.2.9.44

Close

- Device ID TLV — Displays either the MAC address or the serial number of the neighbor device.
- Local Interface — Displays the physical port that the neighbor device is plugged into on the local switch.
- Advertisement Version — Displays the version of CDP being used.
- Time to live — Displays how long ago a CDP packet was received in seconds.
- Capabilities — Displays what kinds of operations the neighbor device can perform.
- Platform — Displays the neighbor device's platform name, number, and Product ID (PID).
- Neighbor Interface — Displays the port on the neighbor device to which the switch is

connected.

- Native VLAN — Displays the native VLAN of the port on the neighbor device.
- Duplex — Displays if the port on the neighbor device functions in full or half duplex mode.
- Addresses — Displays the Network Layer addresses assigned on the neighbor device.
- Power Drawn — Displays how much power is consumed on the interface of the neighbor device.
- Version — Displays the firmware that currently runs on the neighbor device.