

CDP Command Reference

This chapter describes commands used to monitor the router and network using Cisco Discovery Protocol (CDP).

- cdp enable, page 2
- cdp run, page 3
- show cdp, page 4
- show cdp entry, page 5
- show cdp interface, page 7
- show cdp neighbors, page 8
- show cdp traffic, page 10

cdp enable

To enable Cisco Discovery Protocol (CDP) on an interface, use the **cdp enable** command in interface configuration mode. To disable CDP on an interface, use the **no** form of this command.

cdp enable no cdp enable **Syntax Description** This command has no arguments or keywords. **Command Default** Enabled at the global level and on all the supported interfaces. **Command Modes** Interface configuration (config-if) **Command History** Release Modification 9.3.0 This command was introduced. **Usage Guidelines** CDP is enabled by default at the global level and on each supported interface to send or receive CDP information. **Examples** The following example shows how to disable CDP only on the TenGigabitEthernet4/1 interface. Router# config terminal Router(config) # interface TenGigabitEthernet4/1 Router(config-if) # no cdp enable **Related Commands** Command Description

Reenables CDP on a Cisco device.

cdp run

cdp run

-	To enable the CDP, use the cdp run command in global configuration mode. To disable CDP, use the no form of this command.		
	cdp run		
	no cdp run		
Syntax Description	This command has no arguments or	keywords.	
Command Default	Enabled at the global level and on al	l the supported in	terfaces.
Command Modes	Global configuration (config)		
Command History	Release	Modification	
	9.3.0	This command	l was introduced.
Usage Guidelines	information.		each supported interface to send or receive CDP h interface using the cdp enable interface configuration
Examples	The following example shows how t disabled globally.	o enable CDP on	the TenGigabitEthernet4/1 interface, when CDP is
	<pre>Router(config)# no cdp run Router(config)# end Router# show cdp % CDP is not enabled Router# configure terminal Enter configuration commands, one per line. End with CNTL/Z. Router(config)# interface TenGigabitEthernet4/1 Router(config-if)# cdp enable % Cannot enable CDP on this interface, since CDP is not running Router(config-if)#</pre>		
Related Commands	Command		Description
	cdp enable		Enables CDP on a supported interface.

show cdp To display global CDP information, including timer and hold-time information, use the show cdp command in privileged EXEC mode. show cdp Syntax Description This command has no arguments or keywords. **Command Modes** Privileged EXEC (#) **Command History** Release Modification 9.3.0 This command was introduced. **Examples** The following is a sample output from the **show cdp** command that shows that the current router is transmitting CDP advertisements every one minute (the default setting for cdp timer). Also shown is that the current router directs its neighbors to hold its CDP advertisements for 3 minutes (the default for cdp holdtime), and that the router is enabled to transmit CDP version 2 advertisements. Router# show cdp Global CDP information: Sending CDP packets every 60 seconds Sending a holdtime value of 180 seconds Sending CDPv2 advertisements is enabled **Related Commands** Command Description show cdp entry Displays information about a specific neighbor device listed in the CDP table. show cdp interface Displays information about the interfaces on which CDP is enabled. Displays detailed information about neighboring show cdp neighbors devices discovered using CDP. show cdp traffic Displays traffic information from the CDP table.

show cdp entry

To display information about a specific neighboring device discovered using CDP, use the **show cdp entry** command in privileged EXEC mode.

show cdp entry {* | entry-name [protocol | version]}

*	Wildcard showing all the CDP neighbors.	
entry-name	Name of the neighbor.	
	You can enter an asterisk (*) at the end of an <i>entry-name</i> , such as show cdp entry dev*, which would show information about the neighbor, device.cisco.com.	
protocol	(Optional) Limits the display to information about the protocols enabled on a router.	
version	(Optional) Limits the display to information about the version of software running on the router.	
Drivilaged EVEC (#)		
Privileged EXEC (#)		
Release	Modification	
9.3.0	This command was introduced.	
The following is sample output from the show cdp entry protocol command. Only information protocols enabled on device.cisco.com are displayed.		
Protocol information for device.cisco.com: IP address: 192.168.68.18 CLNS address: 490001.1111.1111.100 DECnet address: 10.1		
Command	Description	
show cdp	Displays global CDP information, including timer and hold-time information.	
	entry-name protocol version Privileged EXEC (#) Release 9.3.0 The following is samp protocols enabled on Router# show cdp e Protocol inform IP address CLNS address DECnet add Command	

Command	Description
show cdp interface	Displays information about the interfaces on which CDP is enabled.
show cdp neighbors	Displays detailed information about neighboring devices discovered using CDP.
show cdp traffic	Displays traffic information from the CDP table.

show cdp interface

To display information about the interfaces on which CDP is enabled, use the **show cdp interface** command in privileged EXEC mode.

show cdp interface [type number]

Syntax Description	type	(Optional) Type of interface.
	number	(Optional) Number of the interface.
Command Modes	Privileged EXEC (#)	
Command History	Release	Modification
	9.3.0	This command was introduced.
Examples	The following is sample output from the show cdp interface command with an interface specified. The information and information about CDP timer and holdtime settings is displayed only for TenGigabitEthernet# show cdp interface TenGigabitEthernet4/1 TenGigabitEthernet4/1 is up, line protocol is up Encapsulation ARPA	
	Sending CDP p Holdtime is 1	ackets every 60 seconds 80 seconds
Related Commands	Command	Description
	show cdp entry	Displays information about a specific neighbor device listed in the CDP table.
	show cdp	Displays global CDP information, including timer and hold-time information.
	show cdp neighbors	Displays detailed information about neighboring
		devices discovered using CDP.

show cdp neighbors

To display detailed information about neighboring devices discovered using CDP, use the **show cdp neighbors** command in privileged EXEC mode.

show cdp neighbors [type number] [detail]

Syntax Description	type	(Optional) Type of the interface connected to the neighbors.
	number	(Optional) Number of the interface connected to the neighbors.
	detail	(Optional) Displays detailed information about a neighbor (or neighbors) including network address, enabled protocols, hold time, and software version.

Command Modes Privileged EXEC (#)

Command History	Release	Modification
	9.3.0	This command was introduced.

Examples

The following example is sample output from the **show cdp neighbors** command.

Router# show cdp neighbors

```
Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge
                 S - Switch, H - Host, I - IGMP, r - Repeater, P - Phone,
                  D - Remote, C - CVTA, M - Two-port Mac Relay
Device ID
                 Local Intrfce Holdtme Capability
                                                     Platform Port ID
10.64.107.251
                 Gig 37/3
                               176
                                                               Gig 36/41
                                               RΙ
                                                     CPT 600
10.64.107.251
                 Gig 37/1
                               174
                                               RΙ
                                                     CPT 600
                                                                Gig 36/43
                               134
10.64.107.251
                 Gig 36/41
                                               RΙ
                                                                Gig 37/3
                                                     CPT 600
                                                               Gig 37/1
10.64.107.251
                 Gig 36/43
                               134
                                               RΙ
                                                     CPT 600
                                                                Ten 4/2
10.64.107.251
                 Ten 3/2
                               132
                                                     CPT 600
                                               RΙ
                 Ten 4/2
                               174
                                                     CPT 600
                                                                Ten 3/2
10.64.107.251
                                               RΙ
```

The Device ID column in the output indicates the remote node ID and the Port ID column indicates the remote port.

Related Commands

Command	Description
show cdp entry	Displays information about a specific neighbor device listed in the CDP table.
show cdp interface	Displays information about the interfaces on which CDP is enabled.
show cdp	Displays global CDP information, including timer and hold-time information.
show cdp traffic	Displays traffic information from the CDP table.

show cdp traffic

To display information about traffic between devices gathered using CDP, use the **show cdp traffic** command in privileged EXEC mode.

show cdp traffic

Syntax Description

This command has no arguments or keywords.

Command Modes Privileged EXEC (#)

Command History	Release	Modification
	9.3.0	This command was introduced.

Examples The following example is sample output from the **show cdp traffic** command that specifies information about traffic between devices.

Router# show cdp traffic

Total packets output: 543, Input: 333 Hdr syntax: 0, Chksum error: 0, Encaps failed: 0 No memory: 0, Invalid: 0, Fragmented: 0 CDP version 1 advertisements output: 191, Input: 187 CDP version 2 advertisements output: 352, Input: 146

Related Commands

Command	Description
show cdp entry	Displays information about a specific neighbor device listed in the CDP table.
show cdp interface	Displays information about the interfaces on which CDP is enabled.
show cdp	Displays global CDP information, including timer and hold-time information.
show cdp neighbors	Displays detailed information about neighboring devices discovered using CDP.