

Cisco Discovery Protocol (CDP) Commands

This module describes the Cisco IOS XR software commands for monitoring the networking device and network using Cisco Discovery Protocol (CDP).

For detailed information about CDP concepts, configuration tasks, and examples, see the *Implementing CDP* on Cisco IOS XR Software module in System Management Configuration Guide for Cisco CRS Routers.

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cdp

cdp

	To enable the Cisco Discovery Protocol (CDP) globally or on an interface, use the cdp command in the appropriate configuration mode. To disable CDP globally or on an interface, use the no form of this command.				
	cdp no cdp				
Syntax Description	This command has no keywords or arguments.				
Command Default	CDP is disabled.				
Command Modes	Interface configuration				
Command History	Relea	se	Modification		
	Relea	se 2.0	This command was introduced.		
	Releas	se 3.2	The enable and disable keywords were removed.		
Usage Guidelines	To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.				
	By default, CDP is disabled globally. To enable CDP, CDP must be enabled globally and then enabled for each interface.				
	To enable CDP globally, use the cdp command in global configuration mode. To disable CDP globally, use the no form of this command in global configuration mode. To enable CDP on a specific interface, use the cdp command in interface configuration mode. To disable CDP on a specific interface, use the no form of this command in interface configuration mode.				
	The following interface types do not support CDP:				
	802.1Q VLAN subinterfaces				
	ATM interfaces and ATM subinterfaces				
	Bundle Interfaces				
	Loopback interfaces				
	Service interfaces				
	• T	unnel Interfaces			
Task ID	Task ID	Operations			
	cdp	read, write			

RP/0/RP0/CPU0:router(config) # cdp

The following example shows how to enable CDP on an interface:

RP/0/RP0/CPU0:router(config-if) # cdp

Related Topics

show cdp, on page 12

cdp advertise v1

To change the version of Cisco Discovery Protocol (CDP) that is used to communicate with neighboring devices to version 1 (CDPv1), use the **cdp advertise v1** command in the appropriate configuration mode. To remove the **cdp advertise v1** command from the configuration file and restore the system to its default condition with respect to this command, use the **no** form of this command.

cdp advertise v1 no cdp advertise [v1]

Syntax Description	This command has no	keywords or arguments.
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Command Default Version 2 is enabled.

Command Modes Global Configuration mode

Command History	Release	Modification	
	Release 2.0	This command was introduced.	
	Release 3.0	The v2 keyword was removed.	

Usage Guidelines To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

CDPv2 packets are sent by default. CDP also sends and receives CDPv1 packets if the device with which CDP is interacting does not process CDPv2 packets.

CDPv2 adds device information over CDPv1. The additional information that is contained in the CDPv2 messages relates to Native VLAN, VLAN Trunking Protocol (VTP) Management Domain, Ethernet Duplex, and other features.

Task ID	Operations	
cdp	read, write	
	ID	

The following example shows how to set a networking device to send and receive only CDPv1 advertisements:

RP/0/RP0/CPU0:router(config) # cdp advertise v1

The following example shows how to restore the default condition (sending and receiving CDPv2 advertisements):

RP/0/RP0/CPU0:router(config) # no cdp advertise

Related Topics

cdp, on page 2 show cdp, on page 12

cdp holdtime

To specify the time for which the receiving device should hold a Cisco Discovery Protocol (CDP) packet from your networking device before discarding it, use the **cdp holdtime** command in the appropriate configuration mode. To remove the **cdp holdtime** command from the configuration file and restore the system to its default condition with respect to this command, use the **no** form of this command.

cdp holdtime seconds no cdp holdtime

Syntax Description	seconds	Holdtime	to be sent in the CDP update packets, in seconds. Range is 10 to 255.
Command Default	seconds :	180	
Command Modes	Global co	nfiguration	
Command History	Release		Modification
	Release 3	3.2	This command was introduced.
Usage Guidelines		user group a	you must be in a user group associated with a task group that includes appropriate task assignment is preventing you from using a command, contact your AAA administrator
	CDP pack	ets are sent v	with a time-to-live value or holdtime, that is nonzero after an interface is enabled.
			st be set to a higher number of seconds than the time between CDP transmissions, cdp time command.
Task ID	Task C ID	perations	
	1	ead, vrite	

The following example shows how to specify that the CDP packets sent from the networking device are held by the receiving device for 60 seconds before being discarded. You might want to set the holdtime lower than the default setting of 180 seconds if information about your networking device changes often and you want the receiving devices to purge this information more quickly.

RP/0/RP0/CPU0:router(config) # cdp holdtime 60

Related Topics

cdp timer, on page 8 show cdp, on page 12

cdp log adjacency changes

To log changes to the Cisco Discovery Protocol (CDP) adjacency table, use the **cdp log adjacency changes** command in the appropriate configuration mode. To disable the logging, use the **no** form of this command.

cdp log adjacency changes no cdp log adjacency changes

Syntax Description This command has no keywords or arguments.

Command Default CDP adjacency table logging is disabled.

Command Modes Global Configuration mode

Command History	Release	Modification
	Release 3.3.0	This command was introduced.

Usage Guidelines To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

When CDP adjacency table logging is enabled, a syslog is generated each time a CDP neighbor is added or removed.

Task ID Task ID Operations ID cdp read, write

The following example shows how to enable CDP adjacency table logging:

RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# cdp log adjacency changes

When CDP adjacency table logging is enabled, a syslog is generated each time a CDP neighbor is added or removed. The following is an example of the log entry:

```
LC/0/5/CPU0:Jun 5 10:51:18.081 : cdp[109]: %L2-CDP-6-DELETED_NEIGHBOR :
CDP Neighbour TBA04110127 on interface GigabitEthernet0/5/0/0
has been deleted, remote interface 3/2
LC/0/5/CPU0:Jun 5 10:51:33.120 : cdp[109]: %L2-CDP-6-NEW_NEIGHBOR :
New CDP neighbor TBA04110127 detected on interface GigabitEthernet0/5/0/0,
remote interface 3/2
```

Related Topics

show cdp, on page 12

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cdp timer

	comma the con	and in the app	a the software sends Cisco Discovery Protocol (CDP) updates, use the cdp timer ropriate configuration mode. To remove the cdp timer configuration command from e and restore the system to its default condition with respect to this command, use the mand.			
	-	mer seconds p timer				
Syntax Description	<i>seconds</i> Frequency with which the Cisco IOS XR software sends CDP updates, in seconds. Range is 5 to 254. The default is 60.					
Command Default	second	s : 60				
Command Modes	Global	Configuration	n mode			
Command History	Releas	se	Modification			
	Releas	se 2.0	This command was introduced.			
Usage Guidelines	 To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance. A lower timer setting causes CDP updates to be sent more frequently. 					
Task ID	Task ID	Operations				
	cdp	read, write				
	The following example shows how to set the CDP timer to 80 seconds, which is less frequent than the default setting of 60 seconds:					
	RP/0/RP0/CPU0:router(config) # cdp timer 80					
	cc	d Topics lp holdtime, o low cdp, on pa	· •			

clear cdp counters

To reset Cisco Discovery Protocol (CDP) traffic counters to zero (0), use the **clear cdp counters** command in EXEC mode.

clear cdp counters location node-id

Syntax Description	locati	on node-id	Clears CDP traffic counters for the designated node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.		
Command Default	The counters are set to zero.				
Command Modes	EXEC				
Command History	Relea	se	Modification		
	Releas	se 2.0	This command was introduced.		
Usage Guidelines Task ID	To use this command, you must be in a user group associated with a task group that includes appropria IDs. If the user group assignment is preventing you from using a command, contact your AAA admin for assistance. Task Operations				
	cdp	read, write	_		
		-	- nple shows how to clear CDP counters. The show cdp traffic output shows that have been reset to zero (0).		
			outer# clear cdp counters outer# show cdp traffic		

CDP counters: Packets output: 0, Input: 0 Hdr syntax: 0, Chksum error: 0, Encaps failed: 0 No memory: 0, Invalid packet: 0, Truncated: 0 CDP version 1 advertisements output: 0, Input: 0 CDP version 2 advertisements output: 0, Input: 0 Unrecognize Hdr version: 0, File open failed: 0

Related Topics

show cdp traffic, on page 21 clear cdp table, on page 10

clear cdp table

To clear and automatically resize the table that contains Cisco Discovery Protocol (CDP) information about neighbors, use the **clear cdp table** command in EXEC mode.

clear cdp table location node-id

Syntax Description	location <i>node-id</i> Clears and resizes the CDP table for the designated node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.					
Command Default	No default behavior or values					
Command Modes	EXEC					
Command History	Release Modification					
	Release 2.0This command was introduced.					
Usage Guidelines	To use this command, you must be in a user group associated with a task group that includes appropriate tas IDs. If the user group assignment is preventing you from using a command, contact your AAA administrate for assistance.					
	Use the clear cdp table command to clear and resize the CDP table that contains the neighbor entries. The new table size is calculated according to the recommended hash table size, as seen in the show cdp command output.					
Task ID	Task Operations ID					
	cdp read, write					
	The following example shows how to clear and resize the CDP table. The output of the show cdp neighbors command before and after use of the clear cdp table command shows that all information has been deleted from the table:					
	RP/0/RP0/CPU0:router# show cdp neighbors					
	Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge S - Switch, H - Host, I - IGMP, r - Repeater					
	Device ID Local Intrfce Holdtme Capability Platform Port ID TBA04341195(151a Mg0/RP1/CPU0/0 171 T S WS-C2924 0/1					
	RP/0/RP0/CPU0:router# clear cdp table RP/0/RP0/CPU0:router# show cdp neighbors					
	Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge S - Switch, H - Host, I - IGMP, r - Repeater					
	Device ID Local Intrfce Holdtme Capability Platform Port ID					

The **show cdp** command shows that the table has been resized:

```
RP/0/RP0/CPU0: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 Topics

show cdp, on page 12 show cdp neighbors, on page 18

show cdp

To display global Cisco Discovery Protocol (CDP) information, including CDP version, timer, and holdtime information, use the **show cdp** command in

EXEC

mode.

show cdp

Syntax Description	This command has	no keywords	or arguments.
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Command Default No default behavior or values

Command Modes EXEC

Release	Modification	
Release 2.0	This command was introduced.	
Release 3.0	No modification.	
Release 3.2	No modification.	
Release 3.3.0	No modification.	
Release 3.4.0	No modification.	
Release 3.5.0	No modification.	
Release 3.6.0	No modification.	
Release 3.7.0	No modification.	
Release 3.8.0	No modification.	
Release 3.9.0	No modification.	

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Use the **show cdp** command to display CDP version, timer, and holdtime information relative to CDP operations.

Task ID	Task ID	Operations	
	cdp	read	

The following example shows how to use the **show cdp** command to verify the CDP global settings:

RP/0/RP0/CPU0:router# show cdp

```
Global CDP information:
Sending CDP packets every 20 seconds
Sending a holdtime value of 30 seconds
Sending CDPv2 advertisements is not enabled
```

Table 1: show cdp Field Descriptions

Field	Definition
Sending CDP packets every 20 seconds	Interval between transmissions of CDP advertisements. This field is controlled by the cdp timer command.
Sending a holdtime value of 30 seconds	Time for which the device directs the neighbor to hold a CDP advertisement before discarding it. This field is controlled by the cdp holdtime command.
Sending CDPv2 advertisements is not enabled	State of being enabled or disabled for the transmission of CDP version 2-type advertisements. This field is controlled by the cdp advertise v1 command.

Related Topics

cdp advertise v1, on page 4 cdp holdtime, on page 6 cdp timer, on page 8 show cdp entry, on page 14 show cdp neighbors, on page 18 show cdp traffic, on page 21 clear cdp table, on page 10 show cdp interface, on page 16

show cdp entry

To display information about a specific neighboring device or all neighboring devices discovered using Cisco Discovery Protocol (CDP), use the **show cdp entry** command in

EXEC

mode.

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

Syntax Description	- * I	Displays all CDP neighbors.
	entry-name	Name of a neighbor about which you want information.
	protocol (Optional) Displays protocol information associated with CDP neighbor entries.
	version (Optional) Displays version information associated with CDP neighbor entries.
Command Default	This command	displays information about a particular device that has been discovered by CDP.
Command Modes	EXEC	
Command History	Release	Modification
	Release 2.0	This command was introduced.
Task ID	Task Operat	r group assignment is preventing you from using a command, contact your AAA administrator
	cdp read, write	
	The following example shows sample output from the show cdp entry command. Information about device ID, address, platform, interface, holdtime, and version is displayed.	
	SysName : sy: Entry addres: IP address Platform: WS	

```
Version :
WS-C6006 Software, Version McpSW: 7.2(2) NmpSW: 7.2(2)
Copyright (c) 1995-2002 by Cisco Systems
advertisement version: 2
VTP Management Domain: 'sys'
Native VLAN: 125
Duplex: full
```

Table 2: show cdp entry Field Descriptions

Field	Description
Device ID	ID code assigned during installation of the router.
Entry address(es)	Addresses of the platform, selected interface, and port ID.
Platform	Platform name.
Capabilities	Special functions that the platform can perform (in this case the platform is a trans-bridge switch).
Interface	Interface location expressed in <i>rack / slot / module / port</i> notation.
Port ID (outgoing port)	Location of the port in use by the interface.
Holdtime	Time (in seconds) for which the device directs the neighbor to hold a CDP advertisement before discarding it. This field is controlled by the cdp holdtime command.
Version	Software version.
advertisement version	Version number of the advertising protocol.
VTP Management Domain	VLAN Trunking Protocol (VTP) domain name of neighbor device.
Native VLAN	VLAN ID.
Duplex	Duplex setting: half or full.

Related Topics

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show cdp interface

To display information about the interfaces on which Cisco Discovery Protocol (CDP) is enabled, use the **show cdp interface** command in the appropriate mode.

show cdp interface [{*type interface-path-id* | **location** *node-id*}]

Syntax Description	type	(Optional) Interface type. For more information, use the question mark (?) online help function.
	interface-path-id	(Optional) Physical interface or virtual interface.
		Note Use the show interfaces command to see a list of all interfaces currently configured on the router.
		For more information about the syntax for the router, use the question mark (?) online help function.
	location node-id	(Optional) Displays detailed CDP information for the designated node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.
Command Default	This command dis	splays information about the interfaces on which CDP has been enabled.
Command Modes	EXEC	
Command History	Release	Modification
	Release 2.0	This command was introduced.
Usage Guidelines		and, you must be in a user group associated with a task group that includes appropriate task oup assignment is preventing you from using a command, contact your AAA administrator
	is specified in the	interface command to display information about any CDP interfaces. When an interface command syntax, information is displayed about the specific interface. Not specifying the information about all interfaces.
Task ID	Task Operations	S
	cdp read, write	_
		— mple shows sample output from the show cdp interface command. Information CDP timer, and holdtime settings is displayed for all interfaces on which CDP is

RP/0/RP0/CPU0:router# show cdp interface

enabled.

L

```
POS0/2/0/0 is Up
   Encapsulation HDLC
   Sending CDP packets every 120 seconds
   Holdtime is 240 seconds
POS0/2/0/1 is Up
   Encapsulation HDLC
    Sending CDP packets every 120 seconds
   Holdtime is 240 seconds
POS0/2/0/2 is Up
   Encapsulation HDLC
   Sending CDP packets every 120 seconds
    Holdtime is 240 seconds
POS0/2/0/3 is Up
   Encapsulation HDLC
    Sending CDP packets every 120 seconds
   Holdtime is 240 seconds
MgmtEth0/RP1/CPU0/0 is Up
   Encapsulation ARPA
   Sending CDP packets every 120 seconds
   Holdtime is 240 seconds
```

The following example shows sample output from the **show cdp interface** command with an interface specified. Information about the status, CDP timer, and holdtime settings is displayed for Packet-over-SONET/SDH (POS) interface 0/2/0/1 only.

```
RP/0/RP0/CPU0:router# show cdp interface pos 0/2/0/1
POS0/2/0/1 is Up
Encapsulation HDLC
Sending CDP packets every 60 seconds
Holdtime is 180 seconds
```

Table 3: show cdp interface Field Descriptions

Field	Description
POS0/2/0/1 is Up	Current condition of POS interface 0/0/2/1.
Encapsulation HDLC	Interface is encoding packets using the Cisco HDLC Layer 2 encapsulation.
Sending CDP packets every 60 seconds	Interval between transmissions of CDP advertisements. This field is controlled by the cdp timer command.
Holdtime is 180 seconds	Time for which the device directs the neighbor to hold a CDP advertisement before discarding it. This field is controlled by the cdp holdtime command.

Related Topics

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show cdp neighbors

To display detailed information about neighboring devices discovered using Cisco Discovery Protocol (CDP), use the **show cpd neighbors** command in

EXEC

mode.

show cdp neighbors [{type interface-path-id | location node-id}] [detail]

Syntax Description	type	(Optional) Interface type. For more information, use the question mark (?) online help function.
	interface-path-id	(Optional) Physical interface or virtual interface.
		Note Use the show interfaces command to see a list of all interfaces currently configured on the router.
		For more information about the syntax for the router, use the question mark (?) online help function.
	location node-id	(Optional) Displays detailed CDP information for the designated node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.
	detail	(Optional) Displays detailed information about a neighbor or neighbors, including network address, enabled protocols, holdtime, and software version. The output includes information about both IPv4 and IPv6 addresses.
Command Default	No default behavio	or or values
Command Modes	EXEC	
Command History	Release	Modification
	Release 2.0	This command was introduced.
	Release 3.2	When used with the detail keyword, the output was modified to display IPv6 neighbors.
Usage Guidelines		and, you must be in a user group associated with a task group that includes appropriate task oup assignment is preventing you from using a command, contact your AAA administrator
	is specified in the	neighbors command to display information about any CDP neighbors. When a location command syntax, information about the neighbor is displayed for the specified node. Not ation displays information about the neighbor for all interfaces.
	Use the command	with the detail keyword to display additional information, including IPv6 neighbors.

Task ID Task Operations ID

cdp read

The following example shows sample output from the show cpd neighbors command:

RP/0/RP0/CPU0:router# show cdp neighbors

Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge S - Switch, H - Host, I - IGMP, r - Repeater Device ID Local Intrfce Holdtme Capability Platform Port ID TBA04110127 Gi0/7/0/0 173 T S WS-C6506 3/9 cisco_1 Gi0/7/0/2 171 R CRS-1

Gi0/4/0/2

Table 4: show cdp neighbors Field Descriptions

Field	Description
Capability Codes	Type of device that can be discovered.
Device ID	Name of the neighbor device.
Local Intrfce	Protocol being used by the connectivity media and the interface number.
Holdtme	Remaining time, in seconds, for which the current device holds the CDP advertisement from a sending router before discarding it.
Capability	Type of the device listed in the CDP Neighbors table. Values are as follows:
	R—Router
	T—Transparent bridge
	B—Source-routing bridge
	S—Switch
	H—Host
	I-Internet Group Management Protocol (IGMP) device
	r—Repeater
Platform	Product number of the device.
Port ID	Protocol and port number of the device.

The following examples illustrates sample output for IPv4 and IPv6 neighbors from the **show cpd neighbors** command with the **detail** keyword:

RP/0/RP0/CPU0:router# show cdp neighbor detail

```
Device ID: uut-user

SysName : uut-user

Entry address(es):

IPv4 address: 10.0.0.1

IPv6 address: 1::1

IPv6 address: 2::2

Platform: cisco 12008/GRP, Capabilities: Router

Interface: Gi0/4/0/3

Port ID (outgoing port): Gi0/2/0/3

Holdtime : 177 sec

Version :

Cisco IOS XR Software, Version 0.0.0[Default]

Copyright (c) 2005 by cisco Systems, Inc.
```

advertisement version: 2

Table 5: show cdp neighbors detail Field Descriptions

Field	Definition
Device ID	Name of the neighbor device.
Entry address(es)	List of network addresses of neighbor devices. The address can be in IP or in Connectionless Network Service (CLNS) protocol conventions.
Platform	Product name and number of the neighbor device.
Capabilities	Device type of the neighbor. This device can be a router, a bridge, a transparent bridge, a source-routing bridge, a switch, a host, an IGMP device, or a repeater.
Interface	Interface being used by the connectivity medium.
Port ID	Port number of the port on the current device.
Holdtime	Remaining time (in seconds) for which the current device holds the CDP advertisement from a sending router before discarding it.
Version	Software version of the neighbor device.
advertisement version	Version number of the advertising protocol.

Related Topics

show cdp, on page 12 show cdp entry, on page 14 show cdp traffic, on page 21 show cdp interface, on page 16

show cdp traffic

	1 0	ation about the traffic gathered between devices using Cisco Discovery Protocol (CDP), traffic command in
	EXEC	
	mode.	
	show cdp traffi	c [location node-id]
Syntax Description	location node-id	<i>l</i> (Optional) Displays CDP information for the CDP packets sent and received on the designated node only. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.
Command Default	Displays CDP inf	ormation aggregated across all nodes.
Command Modes	EXEC	
Command History	Release	Modification
	Release 2.0	This command was introduced.
Usage Guidelines		and, you must be in a user group associated with a task group that includes appropriate task oup assignment is preventing you from using a command, contact your AAA administrator
Task ID	Task Operation	S
	cdp read	_
	The following exa	mple illustrates sample output from the show cdp traffic command:
	RP/0/RP0/CPU0:r	outer# show cdp traffic
	Hdr s No memo CDP ver CDP ver	ets output: 50662, Input: 40414 yntax: 0, Chksum error: 0, Encaps failed: 0 ry: 0, Invalid packet: 0, Truncated: 0 sion 1 advertisements output: 0, Input: 0 esion 2 advertisements output: 50662, Input: 40414 eservice Udr wregien: 0. Eile enem failed: 0

Unrecognize Hdr version: 0, File open failed: 0

Field	Definition
Packets output	Number of CDP advertisements sent by the local device. Note that this value is the sum of the CDP version 1 advertisements output field and the CDP version 2 advertisements output field.
Input	Number of CDP advertisements received by the local device. Note that this value is the sum of the CDP version 1 advertisements input field and the CDP version 2 advertisements input field.
Hdr syntax	Number of CDP advertisements having bad headers that have been received by the local device.
Chksum error	Number of times the checksum (verifying) operation failed on incoming CDP advertisements.
Encaps failed	Number of times CDP failed to send advertisements on an interface because of a failure caused by the bridge port of the local device.
No memory	Number of times that the local device did not have enough memory to store the CDP advertisements in the advertisement cache table when the device was attempting to assemble advertisement packets for transmission and parse them when receiving them.
Invalid packet	Number of invalid CDP advertisements received and sent by the local device.
Truncated	Number of times truncated CDP advertisements were sent because there was not enough space in the CDP packet to hold all CDP type-length-values (TLVs).
CDP version 1 advertisements output	Number of CDP version 1 advertisements sent by the local device.
Input	Number of CDP version 1 advertisements received by the local device.
CDP version 2 advertisements output	Number of CDP version 2 advertisements sent by the local device.
Input	Number of CDP version 2 advertisements received by the local device.
Unrecognize Hdr version	Number of packets received from a CDP version that was outside the current configuration.
File open failed	Number of times that CDP failed to connect to one of the underlying services it uses.

Table 6: show cdp traffic Field Descriptions

Related Topics

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