

CDP

COLLABORATORS

	<i>TITLE :</i> CDP		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
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REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

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1 CDP frame format 1

Check **CDP**.

print docbook5 print http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst3750x_3560x/software/release/15-0_2_se/configuration_guide/3750x_cg/swcdp.html

Catalyst3560-XConfigurationGuides → **CDP**

1 Overview

- Layer 2 discovery protocol running on Cisco devices
- Retrieves device type and SNMP agent address of neighboring devices

1.1 Packet format

- header followed by a set of TLV value

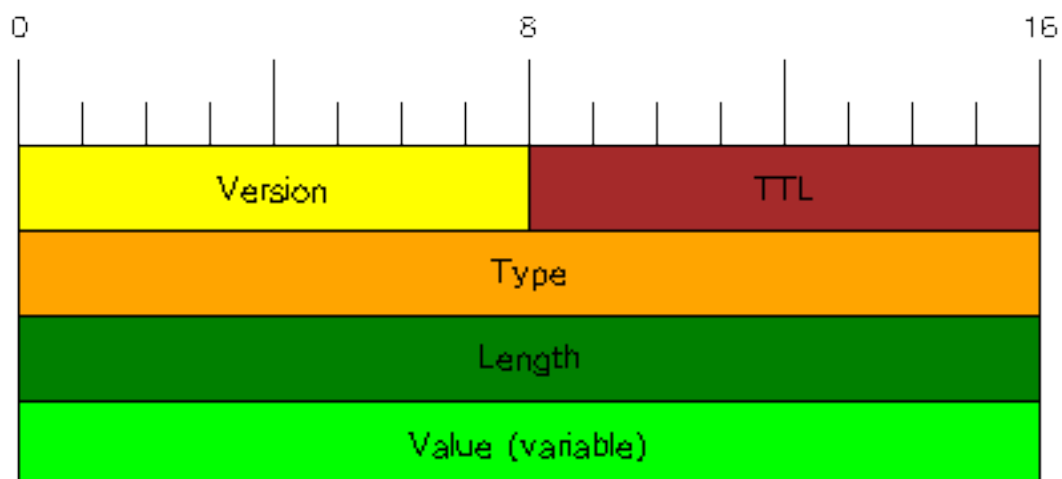


Figure 1: CDP frame format

2 CDP operations

- Enable by default

Task: Display global information about CDP characteristics

```
# show cdp
```

```
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
```

Router3	Ser 1	120	R	2500	Ser 0
Router1	Eth 1	180	R	2500	Eth 0
Switch1	Eth 0	240	S	1900	2

```
show cdp entry <entry-name> [protocol | version]
```

Task: Disable CDP

```
(config)# no cdp run
```

Task: Enable CDP on an interface

```
(config-if)# cdp enable
```

2.1 CDP updates

- default: 60 seconds range: 5-254 seconds

Task: Set the transmission frequency of CDP updates in seconds

```
(config)# cdp timer <seconds>
```

Task: Specify the amount of time a receiving device should hold the information sent by your device

```
(config)# cdp holdtime <seconds>
```

Note

default: 180 seconds, range: 10 to 255 seconds

2.2 Version

Task: Send Version-2 advertisements

```
(config)# cdp advertise-v2
```

3 Monitoring and maintenance

Task: Reset the traffic counters to zero

```
clear cdp counters
```

3.1 Neighbors

Task: Delete the CDP table of information about neighbors

```
clear cdp table
```

Task: Display information about interfaces where CDP enabled

```
sh cdp interface [<interface-id>]
```

Task: Display information about neighbors

```
sh cdp neighbors [<interface-id>] [detail]
```

Task: Display CDP counters, including the number of packets sent and received and checksum errors

```
# 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
```