Cisco Discovery Protocol (CDP) packets are used by Cisco devices to advertise themselves to other Cisco devices. By default, HP devices forward these packets without examining their contents. You can configure an HP device to intercept and display the contents of CDP packets. This feature is useful for learning device and interface information for Cisco devices in the network.

**NOTE:** When you enable interception of CDP packets, the HP device drops the packets. As a result, Cisco devices will no longer receive the packets.

### Enabling Interception of CDP Packets

To enable the HP device to intercept and display CDP packets, enter the following command at the global CONFIG level of the CLI:

```
HP9300(config)# cdp run
```

**Syntax:** `[no] cdp run`  
The feature is disabled by default.

### Displaying CDP Information

You can display the following CDP information:

- Cisco neighbors
- CDP entries for all Cisco neighbors or a specific neighbor
- CDP packet statistics
Displaying Neighbors

To display the Cisco neighbors the HP device has learned from CDP packets, enter the following command:

```
HP9300# show fdp neighbors
Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge
      S - Switch, H - Host, I - IGMP, r - Repeater
(*) indicates a Cisco device

Device ID      Local Int    Holdtm Capability   Platform    Port ID
-------------- ------------ ------ ---------- ----------- ------------
(*).Router     Eth 1/1      124    R          cisco RSP4
        FastEthernet5/0/0
```

**Syntax:** show fdp neighbors [detail | ethernet <portnum>]

To display detailed information for the neighbors, enter the following command:

```
HP9300# show fdp neighbors detail
Device ID: Router
Entry address(es):
    IP address: 207.95.6.143
Platform: cisco RSP4, Capabilities: Router
Interface: Eth 1/1, Port ID (outgoing port): FastEthernet5/0/0
Holdtime : 150 seconds
Version :
Cisco Internetwork Operating System Software
IOS (tm) RSP Software (RSP-JSV-M), Version 12.0(5)T1, RELEASE SOFTWARE
(fc1)
Copyright (c) 1986-1999 by cisco Systems, Inc.
Compiled Thu 19-Aug-99 04:12 by cmong
```

To display information about a neighbor attached to a specific port, enter a command such as the following:

```
HP9300# show fdp neighbors ethernet 1/1
Device ID: Router
Entry address(es):
    IP address: 207.95.6.143
Platform: cisco RSP4, Capabilities: Router
Interface: Eth 1/1, Port ID (outgoing port): FastEthernet5/0/0
Holdtime : 127 seconds
Version :
Cisco Internetwork Operating System Software
IOS (tm) RSP Software (RSP-JSV-M), Version 12.0(5)T1, RELEASE SOFTWARE
(fc1)
Copyright (c) 1986-1999 by cisco Systems, Inc.
Compiled Thu 19-Aug-99 04:12 by cmong
```
Displaying CDP Entries

To display CDP entries for all neighbors, enter the following command:

```
HP9300# show fdp entry *
Device ID: Router
Entry address(es):
   IP address: 207.95.6.143
Platform: cisco RSP4, Capabilities: Router
Interface:Eth 1/1, Port ID (outgoing port): FastEthernet5/0/0
Holdtime : 124 seconds
Version :
Cisco Internetwork Operating System Software
IOS (tm) RSP Software (RSP-JSV-M), Version 12.0(5)T1, RELEASE SOFTWARE
(fcl)
Copyright (c) 1986-1999 by cisco Systems, Inc.
Compiled Thu 19-Aug-99 04:12 by cmong
```

**Syntax:** `show fdp entry * | <device-id>`

To display CDP entries for a specific device, specify the device ID. Here is an example.

```
HP9300# show fdp entry Router1
Device ID: Router1
Entry address(es):
   IP address: 207.95.6.143
Platform: cisco RSP4, Capabilities: Router
Interface: Eth 1/1, Port ID (outgoing port): FastEthernet5/0/0
Holdtime : 156 seconds
Version :
Cisco Internetwork Operating System Software
IOS (tm) RSP Software (RSP-JSV-M), Version 12.0(5)T1, RELEASE SOFTWARE
(fcl)
Copyright (c) 1986-1999 by cisco Systems, Inc.
Compiled Thu 19-Aug-99 04:12 by cmong
```

Displaying CDP Statistics

To display CDP packet statistics, enter the following command:

```
HP9300# show fdp traffic
CDP counters:
   Total packets output: 0, Input: 3
   Hdr syntax: 0, Chksum error: 0, Encaps failed: 0
   No memory: 0, Invalid packet: 0, Fragmented: 0
```

**Syntax:** `show fdp traffic`

Clearing CDP Information

You can clear the following CDP information:

- Cisco Neighbor information
- CDP statistics

To clear the Cisco neighbor information, enter the following command:

```
HP9300# clear fdp table
```
**Syntax:** clear fdp table

To clear CDP statistics, enter the following command:

HP9300# clear fdp counters

**Syntax:** clear fdp counters