



CHAPTER

7

Managing Inventory

Cisco E-DI maintains an inventory of the devices that are in its management domain. This information is used for configuring the network through the XML Programmable Interface and the CLI. For each device, Cisco E-DI initially collects the following physical inventory information from the NE interface through the SNMP protocol:

- Device type
- OS version
- List of interfaces/status through IF-MIB
- List of modules/slots/ports through ENTITY MIB if supported by the device/OS version

Inventory information can be collected manually in network mode.

Inventory can collect the following performance statistics:

- Interface performance—This inventory collects interface performance statistics including errors, packet discards and actual throughput. The report reflects changes between the last poll cycle and the current one.
- Device performance and resources —This inventory collects all device performance and resources parameters.

Cisco E-DI also includes a service which the administrator can use to manage the assets in the network. The service provides details of the hardware and the associated information for each of the device in the network, for example chassis, cards, ports, fans, and power supply.

Using the asset inventory management service, an administrator can view:

- All the hardware assets contained in the device including the name, type and identifier of each of the asset. This enables tracking of individual assets on the devices.
- Chassis information of each device, for example, the serial number, hardware revision, and a brief description of the chassis. This provides details of the hardware information of the chassis without requiring a physical inspection of the device.
- Information on the cards and modules available in the device including the name and identifier of the card, and the container that holds the card. This tracks the cards, and their position in the device.
- Slot information in the device, for example the number of chassis slots, cards contained in the slot, slots that are empty, and daughter card slots.
- Port information in the device which gives the list of ports/interfaces on the device and the location of each port.
- Power supply information in the device. There can be one or more power supply modules in a device. The report gives information about the number of these modules, and also the wattage of each power supply module.
- Fans in each device.

Cisco E-DI collects an inventory of the assets at regular intervals. However, you can do a manual inventory to synchronize the updated asset information with Cisco E-DI, see [Table 7-1](#).

Manual Inventory

To perform an inventory on a device in the current context, enter the following command:

```
[NET:/network]# inventory
```

Viewing the Inventory

You can view the inventory report, see [Table 7-1](#) for commands.

Table 7-1 *Commands to View the Inventory*

Description	Command
To view all the assets of all the devices in the network.	[NET:/network]# show asset all
To view the chassis information including serial number, hardware revision.	[NET:/network]# show asset chassis
To view the cards available on each device including the those that are on the chassis slots and also on the other cards.	[NET:/network]# show asset cards
To view the slots that are available in the chassis of the device and also on the daughter card modules.	[NET:/network]# show asset slots
To view the ports that are available on a device.	[NET:/network]# show asset ports
To view the power supply available on the device.	[NET:/network]# show asset power-supply
To view the fans present on a device.	[NET:/network]# show asset fans
To synchronize the updated asset information with Cisco E-DI. Synchronization can be done in the foreground or the background.	[NET:/network]# sync asset {bg fg}
To show cdp information for managed devices.	[NET:/network]# show cdp neighbors
To list all interfaces in the current network view.	[NET:/network]# show interfaces
To show IP information.	[NET:/network]# show ip interface brief
To show a report on the alarm state of the device over a period of time.	[NET:/network]# show report availability
To show detailed cpu-utilization information on the device over a period of 5 minutes.	[NET:/network]# show report cpu-utilization
To display a list of all devices in the current context.	[NET:/network]# show report device-list
To show a report on the alarm state of the device over a period of time.	[NET:/network]# show report if-performance-summary
To show the interface utilization.	[NET:/network]# show report if-utilization-summary

Viewing the Inventory

Table 7-1 Commands to View the Inventory (continued)

Description	Command
To show the current software version on all the devices.	[NET:/network] # show report software
To show the device upgrade log report.	[NET:/network] # show report upgrade-log
To display the network running configuration. See Table A-1 for details of the options available with this command.	[NET:/network] # show running-config
To display the network startup configuration. See Table A-1 for details of the options available with this command.	[NET:/network] # show start-up-config
To show the software version.	[NET:/network] # show version

The asset inventory service can be enabled or disabled in Cisco E-DI. See [Table 7-2](#).

Table 7-2 Commands to Enable or Disable the Asset Inventory Service

Action	Command
To navigate to the server configure mode.	[SRV:/server] # configure terminal or [SRV:/server] # config t
To enable the asset management service.	[SRV:/server] (config)# service asset
To disable the asset management service.	[SRV:/server] (config)# no service asset