



## CHAPTER 5

# CiscoView

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CiscoView is a graphical SNMP-based device management tool that provides real-time views of networked Cisco Systems devices. These views deliver a continuously updated physical and logical picture of device configuration and performance conditions. Simultaneous views are also available for multiple device sessions.

Use CiscoView to:

- View a graphical representation of the device, including component (interface, card, power supply, LED) status.
- Configure parameters for devices, cards, and interfaces.
- Monitor real-time statistics for interfaces, resource utilization, and device performance.
- Set user preferences.
- Perform device-specific operations as defined in each device package.
- Manage groups of stackable devices.

The following topics are described in this section:

- [CiscoView Features](#)
- [Starting CiscoView](#)
- [Navigating in CiscoView](#)
- [Viewing Devices Not Available in the DCR](#)
- [Setting Preferences for CiscoView](#)
- [Generating Interface Report for CiscoView](#)
- [Device Packages](#)
- [Device Management in CiscoView](#)
- [Configuring Devices Using CiscoView](#)
- [Setting CiscoView Debugging Options and Display Logs](#)

# CiscoView Features

CiscoView operates in client-server mode. In this mode, the device package and basic management functionality are centrally located on the CiscoView server.

In addition to device management, CiscoView provides the following features:

- Internet Protocol version 6 (IPv6) functionality.
  - When the IPv6 device package is installed, CiscoView manages IPv6 functionality using Telnet/SNMP over IPv4 transport using dual stacks.
  - IPv6 management features are launched from the device's context menu (see [Using the Context Menu](#) for more information).

For information on devices on which CiscoView supports IPv6 functionality, see the IPv6 device package readme file on Cisco.com.

- Device list and credentials from a common database. CiscoView inherits device credentials from the Device and Credential Repository. The DCR contains a common list of devices and credentials for all installed Cisco Prime products. The DCR Administration provides an interface to administer the DCR.

For more information on the DCR and DCR Administration, see *Administration Guide for Cisco Prime LAN Manager Solution 4.1*.

- SNMP version 3 (SNMPv3) support. CiscoView supports SNMPv3 communication with authentication and encryption for greater security. DCR Administration fetches SNMPv3 and SNMPv1 or SNMPv2 device credentials. DCR Administration gives preference to using SNMPv3 device credentials.
- Mini-RMON (Remote Monitoring) functionality. This can be used to set up alarms, collect traffic statistics for a device, and troubleshoot network-related problems. To determine the devices on which CiscoView supports RMON functionality, see [CiscoView Mini-RMON Manager](#).
- HTML-based client. CiscoView provides a lightweight, HTML-based client with added support for Netscape and Mozilla.
- Integration with Software Center:
  - You can access the Software Center using **Admin > System > Software Center**.
- Improved user interface. See [Navigating in CiscoView](#) for more information.

To ensure that set up is correct to use CiscoView and perform basic functions within CiscoView, you must perform certain tasks. For more information about your setup, see *Installation and Data Migration Guide for Cisco Prime LAN Manager Solution 4.1*.

## Starting CiscoView

You can start CiscoView from the Inventory tab in the LMS Menu.

To start CiscoView:

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**Step 1** Select **Inventory > Tools > CiscoView** from the CiscoWorks home page.

**Step 2** Do one of the following:

- In the Enter Device Name or IP Address field, enter the name or IP address of the device you want to access and click **Go**.
- Perform either a standard or advanced device search. See [To select a device](#) and [To perform an advanced device search](#) for more information.
- From the list of all devices managed by DCR Administration (**Inventory > Device Administration > Manage Device State**), navigate and select the device you want to access.

The Device Information page appears, with the Summary and Functions Available panes displayed.

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## Navigating in CiscoView

When you start CiscoView, the CiscoView desktop opens.

This section contains:

- [Using the Options Bar](#)
- [Using the Tools Bar](#)
- [Using the Device Selector of CiscoView](#)
- [Understanding the Color Legend](#)
- [Using the Context Menu of CiscoView](#)
- [Selecting a Device or its Components in the Chassis View](#)

[Table 5-1](#) describes each component on the CiscoView desktop.

**Table 5-1** CiscoView Desktop Component Descriptions

Component	Description
Options bar	Allows you to view devices in CiscoView, access the color legend, set debug options, launch Mini-RMON, and change preferences. See <a href="#">Table 5-2</a> in <a href="#">Using the Options Bar</a> for a description of each option.
Tools bar	Allows you to view the sitemap of LMS, access online help that is specific to the selected device. You can also see the installed version of LMS, and logout when required. See <a href="#">Table 5-3</a> in <a href="#">Using the Tools Bar</a> for a description of each option.

**Table 5-1 CiscoView Desktop Component Descriptions**

<b>Component</b>	<b>Description</b>
Chassis view	<p>Displays a graphical representation of the back or front device panel after you select a device. Device components are color-coded according to their status. They are refreshed according to the polling frequency you have defined. See <a href="#">Understanding the Color Legend</a> for more information on color status definitions.</p> <p><b>Note</b> If a hot swap is detected, the device is rediscovered and the display redrawn at the next poll.</p>
Status bar	Shows progress, result of device polling, and refreshes. If any error occurs as a result of device polling, the error message will appear in the Status bar.
Device Selector handle	<p>Opens and closes the Device Selector (see <a href="#">Using the Device Selector of CiscoView</a>):</p> <ul style="list-style-type: none"> <li>• When the Device Selector is closed, click the handle to open it.</li> <li>• When the Device Selector is open, click the handle to close it.</li> </ul>

## Using the Options Bar

Table 5-2 describes the options on the Options bar.

**Table 5-2** Options Bar

Option	Description
Device Name/IP field	You can enter either the name or IP address of a device and view that device within CiscoView. If the SNMP credentials of the device are not listed in the DCR, you will be prompted to enter the appropriate credentials. See <a href="#">Viewing Devices Not Available in the DCR</a> for more information.
Color Legend	You can access the color legend. This legend defines the colors to indicate the status of the device components. See <a href="#">Understanding the Color Legend</a> for more information.
Preferences	<p>You can set the following global preferences:</p> <ul style="list-style-type: none"> <li>• Length of time for the SNMP request to timeout</li> <li>• Number of times that CiscoView tries to send an SNMP request</li> <li>• Refresh rate of chassis view (how often the device is polled)</li> <li>• MIB label shown in dialog boxes</li> <li>• Refresh rate of graphs within the device monitoring dialog box</li> </ul> <p>See <a href="#">Setting Preferences for CiscoView</a> for more information.</p> <p>For example, to set preferences for a particular device, you need to access the device's context menu. See <a href="#">Using the Context Menu of CiscoView</a> for more information.</p>
Mini RMON	You can launch CiscoView Mini-RMON Manager. See <a href="#">CiscoView Mini-RMON Manager</a> for more information.
Debug Options	You can set the CiscoView debugging options and display logs.

## Using the Tools Bar

Table 5-3 describes the options on the Tools bar.

**Table 5-3** Tools Bar

Item	Description
Cisco Prime	Navigates to the Cisco Prime LMS homepage.
Help	<p>Opens a new window that displays context-sensitive help for the displayed page. The window also contains buttons that allow you to access the Online help, Index, and Search tool.</p> <p>See <a href="#">Device Packages</a> for more information.</p>
About	<p>Displays the following information:</p> <ul style="list-style-type: none"> <li>• CiscoView release version and copyrights. This refers to the base application that runs all device packages; for example, CiscoView X.X.X.</li> <li>• Installation date.</li> <li>• Active device package, if applicable; for example, Cat5000 Package, Version X.X.</li> <li>• All installed device package information (version numbers are shown in parentheses).</li> </ul> <p>See <a href="#">Device Packages</a> for more information.</p>

## Using the Device Selector of CiscoView

The Device Selector is on the left of the CiscoView desktop. It lists all devices managed by DCR Administration. From here, you can select a device to manage within CiscoView. See *Administration Guide for Cisco Prime LAN Manager Solution 4.1* for information on adding devices and setting device credentials. Note the following:

- Auto Update Server (AUS) device and cluster members are filtered from the CiscoView device list.
- In the Local Cisco Prime security mode, the Device Selector lists all the devices in the DCR.

To display the chassis view for a device:

- 
- Step 1** Select **Inventory > Tools > CiscoView**.
- Step 2** Open the Device Selector by clicking the Device Selector handle.
- Step 3** Do one of the following:
- Select a device to manage from the device list.
  - Search for a device to manage.
  - Perform an advanced device search.
- 

### To select a device

- 
- Step 1** In the All tab, click either:
- **All Devices** — To view all of the devices managed by DCR Administration.
- or
- **Device Type Groups** — To view all devices, organized by groups.
- For more information on device groups, see *Administration Guide for Cisco Prime LAN Manager Solution 4.1*.
- Step 2** Select a device from the list.
- A graphical representation of the device chassis appears.
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### To search for a device:

- 
- Step 1** Enter your search criteria in the Search Input field. Note the following:
- The text string you enter is case-sensitive.
  - To search for multiple devices, enter the full device names, separated by commas.
  - You can specify one or more wildcard characters (\*) in the text string.
  - If you are *not* using wildcard characters in your search criteria, make sure to enter complete device names.


**Step 2** Click .

The Search Results tab lists the devices that meet the search criteria.

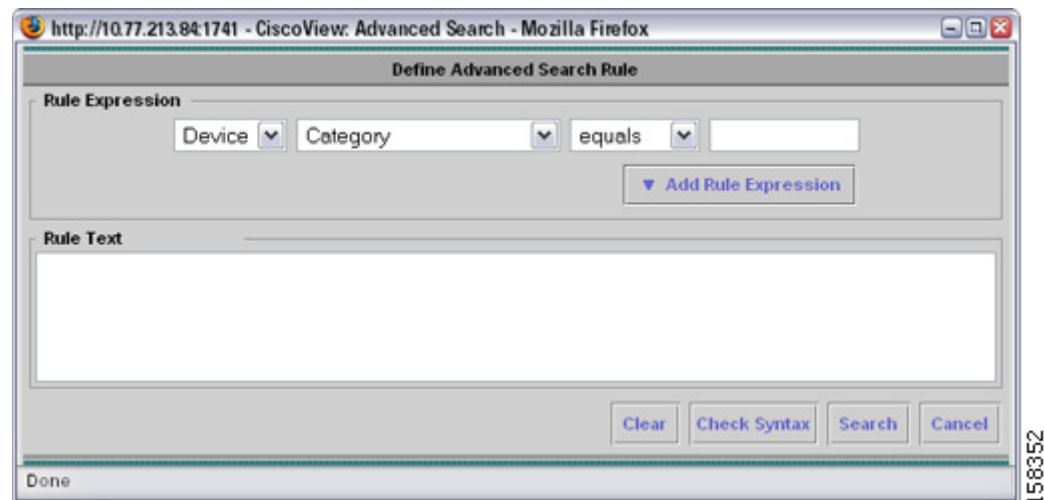
If none of the devices managed by DCR Administration meet your search criteria, CiscoView displays the following message: *There are no search results generated for this value.*

**Step 3** Select the radio button for that device. A graphical representation of the device chassis appears.

### To perform an advanced device search

**Step 1** Click  to launch the Define Advanced Search Rule dialog box.

**Figure 5-1** *Advanced Search*



**Step 2** Define a search rule.

You can do so from either the Rule Expression pane or the Rule Text pane. Note the following:

- Text you enter in this dialog box is case-sensitive.
- You cannot specify wildcard characters in an advanced search rule. Instead, set **contains** as the operator and then enter the value you want to search for, in the text field.
- When you enter a search rule directly in the Rule Text pane, click **Check Syntax** to verify that the rule you entered is properly formatted.

**Step 3** Click **Search**.

The Search Results tab lists the devices which meet the search criteria you specified.

If none of the devices managed by DCR Administration meet your search criteria, CiscoView displays the following message: *There are no search results generated for this value.*

**Step 4** Select the radio button for the device you want to manage.

A graphical representation of the device chassis appears.

To define a search rule:

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- Step 1** Ensure that **Device** is the object type selected in the first list.
- Step 2** From the second list, select the device attribute that you want to search by.  
For example, you can search for a device by display name, IP address, or model number.
- Step 3** From the third list, select the appropriate operator for this search rule.  
Here, you can specify whether you want CiscoView to search for a specific text string or for all values that contain that string.
- Step 4** In the text field, enter the text string you want to search for.
- Step 5** Click **Add Rule Expression**.

The search rule defined is listed in the Rule Text pane.



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**Note** To further refine your search criteria, repeat this procedure.

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To define a search rule in the rule text pane:

In the Rule Text pane, you can enter a search rule directly instead of selecting variables from a list. All search rules should be formatted as follows: *object type . variable operator value*.







For example, to search for all devices in your network with display names that contain the words TestDevice, you should enter the following rule: **Device.DisplayName contains "TestDevice"**



## Understanding the Color Legend

When a device is selected and displayed in the chassis view, all device components are color-coded according to their status. [Table 5-4](#) shows each color and its meaning.

**Table 5-4** Color Legend Descriptions

Color	Meaning	Description
Cyan (blue-green) 	Port is dormant	Interface cannot pass packets. It is in a pending state, waiting for an external event to place it in the Up state. Interface could have: <ul style="list-style-type: none"> <li>• Packets to transmit before establishing a connection to a remote system</li> <li>• A remote system establishing a connection to the interface; for example, dialing up to a SLIP server</li> </ul> When the expected event occurs, the interface state changes to Up.
Orange/Light Brown 	Port is down	Admin status is Down and operational value is also Down. For Catalyst 4000, 5000, and 6000 devices, it can also indicate that the port is not connected.
Red 	Port failed	Hardware failure in the port or the port is not connected. For Catalyst 4000, 5000, and 6000 devices, orange or light brown indicates that the port is not connected.
Yellow 	Minor failure	Port or interface is Down: both admin and operational status are Down. This does not indicate a fault condition. Yellow can also indicate that the port is disabled.
Purple 	Port is being tested	Admin status is Up, but tests must be performed on the interface. After testing is completed, the interface state changes to Up, Dormant, or Down.
Green 	Port is active	Interface is able to send and receive packets.

## Using the Context Menu of CiscoView

When you select a device in CiscoView, a graphical representation of the device is displayed in the chassis view. The context menu appears when you right-click a device or its components. Its contents are context-sensitive and varies according to the device and your selection.

You can view the front or back device panel and select different components (cards, ports, power supply) and menu options to configure and monitor status for the device.

To access the context menu:

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**Step 1** Select **Inventory > Tools > CiscoView**.

**Step 2** Select a device from the Device Selector.

A graphical representation of the device chassis appears.

**Step 3** Right-click the device or its components.

The context menu appears.

**Step 4** Select an option to change.

The context menu contents vary by device, but contains the following options:

Option	Description
Configure	Configures device categories, such as Management, Physical, ARP Table, and TCP.
Monitor	Displays a set of dynamic charts for selected device categories.
Front or Rear	Displays either the front or back device panel. A logical view can also be displayed, as defined by the device package.
Resize	Reduces the graphical display down to 75% or 50%. You can resize it back up to 100%.
Refresh	Triggers component polling and display update.
System Info	Displays system MIB information (name, description, location, contact, and up-time) for a displayed device.
Device-specific options	Options defined in the device package, such as “Clear All Counters.”

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## Selecting a Device or its Components in the Chassis View

You can select the entire device, or one or more Cisco device components to configure and monitor. For example, you can configure multiple ports or multiple cards in a chassis.

To do this:

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- Step 1** Select **Inventory > Tools > CiscoView**.
- Step 2** Either select a device from the Device Selector  
or  
Enter an IP address or device name in the Device Name/IP field of the **Options** bar
- Step 3** Click **Go**.  
A graphical representation of the device chassis appears.
- Step 4** Do one of the following:
- Select the device or a single component.
    - Left-click on the device or component to select it. A yellow border appears around the selection.  
(To select the entire device, point to an area that does not contain a component before clicking.)
    - Right-click to display the context menu.
  - Select multiple components.
    - Hold down the Ctrl key to select several similar components at once. A yellow border appears around the selected components.
    - Right-click while holding down the Ctrl key to display the context menu.



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**Note** The devices are grouped according to the device package.

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## Viewing Devices Not Available in the DCR

In CiscoView, you can also view devices that are not currently available in the DCR.

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**Step 1** Select **Inventory > Tools > CiscoView**.

**Step 2** In the Device Name/IP field, enter the IP address or name of the device you want to view.

**Step 3** Click **Go**.

The SNMP Credentials dialog box appears.

If you enter the IP address or name of a device that already has credentials configured in the DCR (and thus the [Device Selector](#)), CiscoView displays the chassis view for that device. It does not prompt you to enter its SNMP credentials.

**Step 4** In the Select Protocol field, select either the SNMP V3 or SNMP V1/V2C radio button, depending on the type of credentials you want to use for the device.

- If you selected the SNMP V3 radio button:
  - Set the security mode you need.
    - AuthPriv: Provides authentication based on either the HMAC-MD5 or HMAC-SHA algorithm as well as encryption.
    - AuthNoPriv: Provides either HMAC-MD5 or HMAC-SHA authentication.
  - Enter the username and password required for authentication.
  - Specify the authentication algorithm you want to use by selecting either the MD5 or SHA-1 radio button.
- If you selected the AuthPriv security mode, do the following:
  - Enter the privacy password required to view encrypted SNMP packets.
  - Select the desired encryption algorithm: DES (Data Encryption Standard), 3DES, AES128 (Advanced Encryption Standard), AES192, or AES256
  - If you selected the SNMP V1/V2C radio button, enter the appropriate read-only and read-write community strings.

**Step 5** Click **OK**.

The device is displayed in CiscoView.

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# Setting Preferences for CiscoView

To launch the Device Preferences dialog box:

- Step 1** Select **Inventory > Tools > CiscoView**.
- Step 2** Click **Preferences** from the Options bar.
- Step 3** Specify your options as given below:

Field	Description
Device Display Name	Select the IP address of the device for which you want to set preferences.
SNMP Timeout	Enter a value (in seconds) in the field. This value represents the length of time that elapses before an SNMP request times out.
SNMP Retry Count	Enter a value in the field. This value is the number of times an SNMP request will be sent before the request times out.
Chassis Polling Frequency	Select a value from the list. The default value varies by device. A typical value is every 60 seconds.  CiscoView real-time status is based on periodic SNMP queries sent to the managed device.  If you reduce polling frequency (for example, from 10 seconds to 120 seconds), it reduces SNMP-based traffic on the network and the workstation overhead required for processing.
Show MIB Label as	<ul style="list-style-type: none"> <li>Click <b>Descriptor</b> to display MIB descriptors, for example, sysName.</li> <li>Click <b>Alias</b> to display textual labels, for example, System Name.</li> </ul>
Default Refresh Rate for Monitor Dialogs	Select a value from the list. The monitoring dialog is updated at the selected Refresh rate. The default value is 30 seconds.

- Step 4** Click **Apply**.



**Note** The settings specified here are also used by CiscoView Mini-RMON Manager.

# Generating Interface Report for CiscoView

You can launch the Device Performance Management Interface Report for multiple ports.

You can generate and view this Interface Report for multiple ports within CiscoView. This report summarizes the activity for the selected ports during the past hour.

To launch this report:

- 
- Step 1** Select **Inventory > Tools > CiscoView**.
  - Step 2** Select a device from the device selector.
  - Step 3** Right-click the ports for which you want to generate a report while holding down the Ctrl key.
  - Step 4** From the context menu, select **Device Performance Management > Interface Report**.
- 

The following devices support this feature:

- Cisco Switches: Catalyst 2940, Catalyst 2950, Catalyst 2955, Catalyst 2960, Catalyst 2970, Catalyst 3550, Catalyst 3560, Catalyst 3750, Catalyst 4000 (running either Catalyst OS or Cisco IOS software), Catalyst 6000 (running either Catalyst OS or Cisco IOS software), ME 2400-24TS-A, ME 3400-24TS-A
- Cisco Routers: Cisco 800, Cisco 1800, Cisco Mobile Wireless Router (MWR) 1900, Cisco 2800, Cisco 3200 Mobile Access Router (MAR), Cisco 3800, Cisco 7000, Cisco 10000, Cisco 10700, Cisco 12000

## Device Packages

Cisco's routers and switches are referred to as network devices. Routers and switches must be physically installed in the appropriate chassis and connected to your network (using each specific device's hardware installation guide).

A software update that enables CiscoView to support new features for a particular device is called a device package. CiscoView uses the device package to display a dynamic panel view of the physical device and all its modules, submodules, and ports.

The CiscoView engine controls and manages physically connected devices through Simple Network Management Protocol (SNMP).

The SNMP system consists of three parts:

- SNMP manager.
- SNMP agent
- MIB.

Each installed device's SNMP agent uses sets of MIB variables that you can configure, monitor, and modify. You can do this using CiscoView and each installed device package software.

This section contains [Device Package Updates](#).

## Device Package Updates

CiscoView provides support for a considerable range of devices by installing device packages. Additional device packages can be added to CiscoView anytime after the initial product release or installation.

When new device packages become available, they are placed on Cisco.com. Check this site to ensure that you have the latest device release. You can add or update device packages by using Software Center. Software Center (**Admin > System > Software Center > Device Update**).

For more information on using Software Center, see *Administration Guide for Cisco Prime LAN Management Solution 4.1*. Make sure to review the CiscoView release notes for each device package because they supply critical information, notes, and cautions about usage

## Device Management in CiscoView

CiscoView imports the devices it needs to manage and their SNMP credentials from the device list in the Device and Credential Repository (DCR). DCR serves as a common device repository for all installed Cisco Prime applications.

CiscoView displays the device list using the Groups feature. This feature determines the membership of a group by interpreting and applying the rules that are associated with a group of devices.

DCR Administration provides an interface to administer DCR. It allows you to add new devices or edit the current SNMP credentials for a device. See *Administration Guide for Cisco Prime LAN Manager Solution 4.1* for more information.

**Note**

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CiscoView supports SNMPv3. If SNMPv1 or SNMPv2 device credentials are also present in the DCR, CiscoView gives preference to the SNMPv3 credentials.

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This section contains the following topics:

- [Understanding Categories in CiscoView](#)
- [Editing Categories in CiscoView](#)
- [Configuring Devices in CiscoView](#)
- [Monitoring Devices in CiscoView](#)
- [Viewing System Information in CiscoView](#)

## Understanding Categories in CiscoView

Categories consist of commands and options specific to a selected device. You can modify or view categories to configure and monitor a device, card, and port.

For example, a Catalyst 6000 device has configuration categories, such as Management, Physical, AAA Configuration, ARP Table, Authentication.

**Note**

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Some devices and components have no categories.

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## Editing Categories in CiscoView

You can display and change different categories of information for each device, card, and port. Each device has different categories that you can configure and monitor.

The Category list in the Configuration and Monitor dialog boxes shows the categories of information available for the selected device or component.

For example for a Catalyst 6000 device, the configuration categories are Management, Physical, AAA Configuration, ARP Table, Authentication.

## Configuring Devices in CiscoView

Configure a device to define its characteristics, connections, and components (such as cards and ports). You can configure different categories of information for devices and components and also change multiple categories at the same time.

### Prerequisites

Verify these prerequisites *before* starting the procedure for this scenario:

- SNMP credentials are valid.
- Permissions for IP addresses are enabled.

To configure devices in CiscoView:

- 
- Step 1** Select **Inventory > Tools > CiscoView**.
  - Step 2** Select a device from the Device Selector.  
A graphical representation of the device chassis appears.
  - Step 3** Select the device or components to configure.
  - Step 4** Right-click to display the context menu, then select **Configure**.  
The Configuration dialog box appears.
  - Step 5** From the Category list, select the category to configure and enter the required information.  
Note the following:
    - Categories and fields vary by device.
    - As you change the information in fields for different categories, the changes are retained.



**Step 6** When you are done modifying a category, click one of the following buttons:

Button	Description
OK	Applies your changes and exits the dialog box.
Apply	Applies your changes. The Configuration dialog box remains open. This allows you to select more categories to view or configure.
Cancel	Cancels your changes and exits the dialog box.
Refresh	Refreshes the dialog box.
Print	Prints the current category.
Help	Opens online help that is specific to that device and category.

If a table appears, click one of the following buttons:

Button	Description
Create	Opens the Table Row Creation dialog box.
Delete	Deletes the selected rows from the table.

After you configure devices using CiscoView, you must:

- [Add IP Addresses for Other Management Workstations](#)
- [Limit Device Access Privileges for Other Management Workstations](#)
- [Verify Device Configurations and Device Access](#)
- [Edit Configuring and Monitoring Tables](#)

## Add IP Addresses for Other Management Workstations

After you configure your device, add new IP addresses to the IP Permit List. These addresses determine which management workstations are permitted to access this particular device.



### Note

IP addresses allow management workstations to access specific devices for configuration. You can add as many IP addresses to the IP address list as necessary.

**Step 1** Select **Inventory > Tools > CiscoView**.

**Step 2** From the Device Configuration dialog box, select **IP Permit** from the Category list to display the IP Permit window.

**Step 3** Click **Create**.

The Row Creation dialog box appears.

- Step 4** Enter the appropriate IP address and IP mask.
- Step 5** Select the appropriate access type from the list and click **OK**.  
The new IP address is added to the IP Permit List.
- 

## Limit Device Access Privileges for Other Management Workstations

Limit access privileges for other management workstations and monitor unauthorized attempts to access the device.

- Step 1** In the IP Permit window, highlight the IP address to be deleted from the IP Permit List and click **Delete**.  
This disables that particular management workstation from accessing the device.
- Step 2** Reopen the IP Permit window to view any access to the device.  
This allows you to monitor unauthorized attempts to access the device.
- 

## Verify Device Configurations and Device Access

After you configure your device and limit access to the device by other management workstations, verify that there are no unauthorized workstations accessing the device.

To verify this, view the Access Attempts From Invalid IP Addresses table at the bottom of the window. This table provides information about which management workstations recently attempted to access the device, the time and date of attempted access, and a list of the invalid IP addresses that were deleted.

If a deleted IP address is still attempting to access the device, notify the owner of that particular management workstation regarding any recent changes made to the owner's security level.

## Edit Configuring and Monitoring Tables

If you select multiple components for configuring or monitoring, a table appears. A read-write table entry appears with either a combo-box, text box, or check box.

All entries in a monitor table are read-only. You can add, modify, or delete entries from a configuration table. To do this:

- Step 1** Select the table row entry that you want to modify.
- Step 2** Either type a new value or select one from the list.
- Step 3** Click **Apply**.
-

## Monitoring Devices in CiscoView

You can monitor real-time statistics for interfaces, resource utilization, and device performance. CiscoView also allows you to simultaneously monitor multiple categories, such as Ethernet Collisions, Management, Physical, and ARP Table.

CiscoView supports pie, strip, x-y, and bar charts. The chart type displayed, depends on the device and category that you select.

To monitor devices in CiscoView:

- 
- Step 1** Select **Inventory > Tools > CiscoView**.
- Step 2** Select a device from the Device Selector.  
A graphical representation of the device chassis appears.
- Step 3** Select the device or components.
- Step 4** Right-click to display the context menu, and then select **Monitor**.  
The Monitor dialog box appears and displays a summary of performance charts that vary by device.




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**Note** When a bar graph fills up, it scrolls to the left as polling continues.

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- Step 5** Select a category from the Category list.
- Step 6** Select the Refresh Rate (sec) check box and then select a value from the list.  
A chart for the selected category appears. It is updated at the selected Refresh rate.  
If you need to open another Monitor window, repeat steps 2 through 5.




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**Note** You can monitor multiple categories simultaneously.

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- Step 7** Click one of the following buttons:

Button	Description
Cancel	Exits the dialog box.
Print	Prints current charts.
Help	Opens online help that is specific to that category and device.

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## Viewing System Information in CiscoView

The System Information dialog box displays the following information about the selected device:

- Device Name
- Description (typically indicates the software installed on a device)
- Location
- Contact (name of the individual or group that manages a device)
- Date and time that a device was last initialized on

This section contains [Configuring Devices Using CiscoView](#).

To view system information:

- 
- Step 1** Select **Inventory > Tools > CiscoView**.
- Step 2** Select a device from the Device Selector.  
A graphical representation of the device chassis appears.
- Step 3** Click on the device display so that a yellow border appears around the entire device.
- Step 4** Right-click to display the Context menu and select **System Info**.  
The System Information dialog box appears.
- 

## Configuring Devices Using CiscoView

In this scenario, you are a system administrator who wants to use CiscoView to configure a Catalyst 4000 series device and add IP addresses to allow other management workstations to access the same device. At the same time, you want to limit access to that particular device for other management workstations.

### How to Do It—Procedures

Use the procedures in this section to:

1. [Access the Device Configuration Dialog Box](#)
2. Add IP Addresses for Other Management Workstations.
3. Limit Device Access.

### Access the Device Configuration Dialog Box

Access the Device Configuration dialog box to configure your device:

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- Step 1** Select **Inventory > Tools > CiscoView**.
- Step 2** Select a device from the Device Selector.  
A graphical representation of the device chassis appears.
- Step 3** Right-click the device.  
The context menu appears.
- Step 4** Select **Configure**.  
The Device Configuration dialog box appears.

- Step 5** Configure your Catalyst 4000 device by entering the required information for that device in the appropriate category fields.
- Step 6** Click **OK**.
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## Setting CiscoView Debugging Options and Display Logs

You can set a SNMP and activity trace and/or view the trace log. This option records trace information into the cv.log file, which is located at `%NMSROOT%/MDC/tomcat`, where `%NMSROOT%` is the directory in which CiscoView is installed.

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- Step 1** Select **Admin > System > Debug settings > CiscoView Debug Options And Display Log**.
- Or
- Select **Inventory > Tools > CiscoView**. Click the **Debug Options** link in the Options bar. The Trace Settings dialog box appears.
- Step 2** Select either or both of the following and then click **Apply**:
- **SNMP Trace** — Displays SNMP request and response pairs, MIB instance ID, data value, data type, request method, and time stamp.
  - **Activity Trace** — Displays server activity such as which device and dialog boxes are open.
- Step 3** Click **View Trace** to see the trace activity in a separate window.
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