

## CiscoView CD Installation Instructions

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Welcome to CiscoView! CiscoView is a GUI-based device management software application that provides dynamic status, statistics, and comprehensive configuration information for Cisco Systems'® switched internetworking products. CiscoView allows you to display a graphical representation of each network device, display configuration and performance information, perform minor troubleshooting tasks, and control and configure specific devices.

This guide provides information to help you install and run CiscoView on your network management station.

## System Requirements for CiscoView

Before you install CiscoView, make sure that your system meets the general requirements in Table 1.

**Table 1 CiscoView General System Requirements**

	Operating System	Available Disk Space	RAM
<b>Sun</b>	SunOS 4.1.3 (Solaris 1.x), SunOS 4.1.3_U1, or SunOS 4.1.4	45 MB	32 MB
<b>HP</b>	HP-UX A.09.03/A.09.04/A09.05	45 MB	32 MB

Table 2 lists additional hardware and software requirements in order to run CiscoView.

**Table 2 CiscoView Hardware and Software Requirements**

	Sun	HP
<b>Hardware</b>	Sun SPARCstation Color monitor	HP 9000 system Color monitor

	Sun	HP
<b>Software</b>		
Windowing system	X11R4 or X11R5 OpenWindows 3.0, 3.3, or later; and Motif	Motif or HP VUE 3.0
Network management software (not required) <sup>1</sup>	SunNet Manager 2.2.2	HP OpenView 3.3

1. CiscoView can run standalone; you do not need a network management platform to run it. If you run CiscoView without a network management platform, you will not be able to graph information.

**Note** If you are installing CiscoView on an NFS-mounted drive, you will need root authority on the NFS partition.

## Mounting from a Local CD-ROM

Before mounting the CD-ROM, place the CiscoView CD-ROM into the CD-ROM drive.

To mount the CD-ROM from a local CD-ROM drive, perform the following steps:

- 1 Become the superuser by entering **su** and the root password at the command prompt.

- 2 If the */cdrom* directory does not already exist, enter the following command to create the */cdrom* directory:

```
# mkdir /cdrom
```

- 3 Mount the CD-ROM.

On a Sun workstation, enter the following command:

```
# mount -rt hsfs /dev/sr0 /cdrom
```

On an HP system, enter the following command:

```
# mount -t cdfs -o ro /dev/device_name /cdrom
```

For example, you might enter */dev/dsk/c201d2s0* as your device name.

Continue to the section “Installing CiscoView on a Sun Workstation” or installing “Installing CiscoView on an HP System” to install the software.

## Mounting from a Remote CD-ROM

Before mounting the CD-ROM, place the CiscoView CD-ROM into the CD-ROM drive.

To mount the CD-ROM from a remote CD-ROM drive, perform the following steps on the *remote* machine.

**Note** If you are running SunOS 5.x, refer to your Sun documentation for the appropriate commands to export a disk.

- 1 Perform steps 1 and 2 from the previous section, “Mounting from a Local CD-ROM.”
- 2 If the */etc/exports* file does not exist, create it.
- 3 Edit the */etc/exports* file to include the following line:

```
/cdrom -ro
```

- 4 If */etc/exports* does not exist, enter the following commands to reboot your machine to become an NFS server:

```
# nfsd 8 &  
# rpc.mountd -n
```

On an HP system, you can also use the HP system administration tool, **sam**, to export a disk.

To verify that you have exported the disk, enter the following command:

```
# /usr/etc/showmount -e host_name
```

**5** Mount the CD-ROM.

On a Sun workstation, enter the following:

```
# mount -rt hsf s /dev/sr0 /cdrom
```

On an HP system, enter the following:

```
# mount -t cdfs -o ro /dev/device_name /cdrom
```

For example, you might enter **/dev/dsk/c201d2s0** as your device name.

**6** To export the */cdrom* directory for remote access, enter the following :

```
# exportfs -a
```

Perform the following steps on the *local* machine:

**7** Perform steps 1 and 2 in the section “Mounting from a Local CD-ROM.”

- 8** To mount the CD-ROM, enter the following command, replacing *remote\_machine\_name* with the name of the remote machine:

```
# mount -r remote_machine_name:/cdrom /cdrom
```

Continue to “Installing CiscoView on a Sun Workstation” or “Installing CiscoView on an HP System.”

## Installing CiscoView on a Sun Workstation

This section describes how to install CiscoView on a Sun workstation. The procedure is the same whether you are using the SunNet Manager or HP OpenView network management software on the Sun workstation, or installing CiscoView on a Sun workstation without SunNet Manager or HP OpenView.

**Note** Before installing CiscoView, you should enter the following command to remove the */var/tmp/unbundled* directory if it exists:

```
# rm -rf /var/tmp/unbundled
```

To install CiscoView on a Sun workstation, perform the following steps.

- 1 To install the files from the CD-ROM drive, enter the following commands at the system prompt:

```
# cd /cdrom
# ./extract_unbundled
```

Make sure you include the `./` in the **extract\_unbundled** command.

The installation begins and copyright information about the product and the terms of the Cisco licensing agreement are displayed, followed by the following prompt:

```
Do you agree to the terms of this copyright (y/n)?
```

- 2 Enter **y** to continue the installation.

The screen displays information about where the files will be installed by default and allows you to modify the default destination for CiscoView. The default destination is `/usr/nms`.

- 3 Enter **y** or press **Return** in response to the prompt to continue with the installation.

Prior to installation, you can review your previous responses. You can press **Ctrl-C** at any time to terminate the installation.



As the installation proceeds, the filenames are listed on the screen as they are installed. The installation process takes approximately 5 to 10 minutes, depending on the system speed. Remember to perform any tasks described in the installation script after completing the installation, for example:

```
INFO: Installing normal CiscoView binaries
INFO: Please restart any existing CiscoView and
VlanDirector programs.
```

After the installation has been completed, messages similar to the following are shown on the screen:

```
INSTALLATION COMPLETE A complete logfile is located
in /tmp/ciscoinstall.log. Update your PATH to
include /usr/nms/CV/bin, etc.
=====
===
===== Software Install Tool Completed.
=====
=====
=====
===
```

**Note** Two versions of CiscoView software are provided with this installation; one requires X authentication to be in place, one does not.

The version of CiscoView you installed does not require X authentication for full operation. If you would like to use, or are currently using X authentication, refer to the CiscoView release note for information on changing CiscoView binaries.

- 4 Set the environment variables so that CiscoView operates correctly. Do this by adding the following lines to the *.login* or *.cshrc* file for C shell or *.profile* for Bourne shell. (The following examples are for C shell and Bourne shell.)

```
#Set environment variables for CiscoView 3.0 for  
#C shell.  
source /usr/nms/etc/CVinstall.cshrc
```

Or

```
#Set environment variables for CiscoView 3.0 for  
Bourne #(SH/K) shell.  
./usr/nms/etc/CVinstall.sh
```

- 5 To unmount and eject the CD-ROM from your local machine, enter the following commands as superuser:

```
# cd /  
# umount /cdrom  
# eject /cdrom
```

Remove the CD-ROM and store it in a safe place.

- 6 To unmount and eject the CD-ROM from a remote machine, enter the following commands as superuser from your local machine:

```
# cd /  
# umount /cdrom
```

- 7 Log in to the remote machine as superuser and enter the following commands:

```
# cd /  
# umount /cdrom  
# eject /cdrom
```

Remove the CD-ROM and store it in a safe place.

**Note** A complete log of the installation can be found in the file */tmp/ciscoinstall.log*. Save this file to help you troubleshoot future installation problems.

## Removing CiscoView from a Sun Workstation

If you encounter problems during the installation, you might want to reinstall CiscoView. Before reinstalling CiscoView, we recommend you remove it first. To remove CiscoView from a Sun workstation, follow these steps:

- 1 Enter the following command to change directories to */var/sadm/cisco*:  
  
# **cd /var/sadm/cisco**
- 2 Enter the following command to remove the CiscoView application:  
  
# **./rmprod ciscoview**

This command only removes the files that are in the *ciscoview.mfs* file.

## Installing CiscoView on an HP System

To install CiscoView on an HP system, perform the following steps:

- 1 As superuser, enter the following command to create the directory in which you will install CiscoView:

```
# mkdir /usr/cv30
```

- 2 Enter the following command to extract the installation program:

```
# update -s /cdrom/cv.tar -d /usr/cv30 CVIC
```

The **-s** option specifies where the CiscoView software is located on the CD-ROM. The **-d** option indicates the destination where the product will be installed.

- 3 Enter the following commands to install the CiscoView software:

```
# cd /usr/cv30/install/bin  
# ./cvinstall -s /cdrom/cv.tar -d /usr/cv30
```

The pathname you enter after the **-s** option is the same as the source pathname you entered in step 2. The **-d** option specifies where the CiscoView software will be installed.

The installation begins and copyright information about the product and the terms of the Cisco licensing agreement are displayed, followed by the following prompt:

```
Do you agree to the terms of this copyright (y/n)?
```

- 4 Enter **y** to continue the installation.

The screen displays information about where the files will be installed by default and allows you to modify the default destination for CiscoView.

- 5 Enter **y** or press **Return** in response to the prompt to continue with the installation.

Prior to installation, you can review your previous responses. You can press **Ctrl-C** at any time to terminate the installation.

As the installation proceeds, the filenames are listed on the screen as they are installed. The installation process takes approximately from 5 to 10 minutes, depending on the system speed. Remember to perform any tasks described in the installation script after completing the installation, for example:

```
INFO: Installing normal CiscoView binaries
```

INFO: Please restart any existing CiscoView and  
VlanDirector programs.

After the installation has been completed, messages similar to the  
following are shown on the screen:

```
INSTALLATION COMPLETE A complete logfile is located
in /tmp/ciscoinstall.log. Update your PATH to
include /usr/nms/CV/bin, etc.
=====
===
===== Software Install Tool Completed.
=====
=====
=====
===
```

**Note** Two versions of CiscoView software are provided with this  
installation; one requires X authentication to be in place, one does not.  
The version of CiscoView you installed does not require X authentication  
for full operation. If you would like to use, or are currently using X  
authentication, refer to the CiscoView release note for information on  
changing CiscoView binaries.

- 6** Set the environment variables so that CiscoView operates correctly. Do this by adding the following lines to the *.login* or *.cshrc* file for C shell or *.profile* for Bourne shell. (The following examples are for C shell and Bourne shell.)

```
#Set environment variables for CiscoView 3.0 for  
#C shell.  
source /usr/nms/etc/CVinstall.cshrc
```

Or

```
#Set environment variables for CiscoView 3.0 for  
Bourne #(SH/K) shell.  
./usr/nms/etc/CVinstall.sh
```

- 7** To unmount the CD-ROM from your local machine, enter the following commands as superuser:

```
# cd /  
# umount /cdrom
```

Press the eject button on the CD-ROM drive to remove the CD-ROM, and store it in a safe place.



- 8 To unmount the CD-ROM from a remote machine, enter the following commands as superuser from your local machine:

```
# cd /  
# umount /cdrom
```

- 9 Log in to the remote machine as superuser and enter the following:

```
# cd /  
# umount /cdrom
```

Press the eject button on the CD-ROM drive to remove the CD-ROM, and store it in a safe place.

**Note** A complete log of the installation can be found in the file */tmp/ciscoinstall.log*. Save this file to help you troubleshoot installation problems.

## Removing CiscoView from an HP System

If you encounter problems during the installation, you might want to reinstall CiscoView. Before reinstalling CiscoView, we recommend you remove it first.

To remove CiscoView from an HP system, enter the following commands:

```
# rmfn -l CVIC
# rmfn -l CISCO-VIEW
```

## Starting CiscoView

This section describes how to start CiscoView from SunNet Manager, HP OpenView, or the UNIX command prompt on either a Sun or HP system.

If you are using HP OpenView, continue to the section “Starting CiscoView from HP OpenView.”

### Starting CiscoView from SunNet Manager

You can start CiscoView from the SunNet Manager Tools menu. To access it, you will need to restart SunNet Manager as follows:

- 1 Save your existing SunNet Manager database.
- 2 Restart SunNet Manager by entering the following command at the system prompt:

```
hostname% snm -i
```

The SunNet Manager main window appears.

- 3 To start CiscoView, select **Tools>CW - CiscoView**.

### **Starting CiscoView from a Device Icon Pop-up Menu**

To start CiscoView from a device icon, do the following:

- 1 In the SunNet Manager network map, display the popup menu for the device.
- 2 In the SunNet Manager Properties sheet for the device, enter the read community string for the device you wish to see.
- 3 Choose CiscoView from the pop-up menu.

The CiscoView window is displayed with a graphical representation of the specified device (also referred to as a *panel*).

### **Starting CiscoView from HP OpenView**

Before starting CiscoView from HP OpenView, you need to restart HP OpenView by entering **ovw** from the UNIX command line.

To start CiscoView, select **Monitor>CiscoView** from the HP OpenView main window.

### Starting CiscoView from the Command Line

To start CiscoView from the UNIX command line, enter the following at the system prompt:

```
hostname% nmcview -host device_name -rd  
read_community_string
```

For example, the following command starts CiscoView and displays the device named “charlie” with the read community string “over.”

```
hostname% nmcview -host charlie -rd over
```

The CiscoView window is displayed with a graphical representation of the specified device (also referred to as a *panel*).

If problems occur, the PATH environment variable might not include a path to CiscoView executables. Make sure the PATH environment variable includes the path to CiscoView executables.

## Cisco Device Support

CiscoView allows you to manage the following Cisco devices:

- Cisco 4000 series running system software release 9.21 through 10.3, inclusive.
- Cisco 2505 and 2507 running Cisco Internetwork Operating System (Cisco IOS™) Software Release 10.0(6) through 10.3, inclusive.
- Cisco 2501, 2502, 2503, 2504, 2509, 2510, 2511, 2512, 2513, 2514, 2515, and 2516 running Cisco IOS Release 10.2(1.3) through 10.3, inclusive.
- Cisco 7000 series (includes 7000 and 7010) and Cisco 7500 series (includes 7505, 7507, 7513) running IOS software version 9.21 through 11.0(2), inclusive.
- Catalyst 5000, 1600, and 1200 series running Version 1.0 or later. Catalyst 3000 and Kalpana 2015 switches.
- CiscoPro CPW16, CPW 2115, and CPW500 switches.
- Cisco LightStream 100 (formerly called the Cisco HyperSwitch A100) running RTOS version 1.2(0) or later.

**Note** CiscoView supports the QLLC feature in IOS Versions 10.3(7) or later, and in IOS Versions 11.0(2) or later.

## Using the Context-Sensitive Online Help System

Use the help system to get information about using the CiscoView interface, navigating within the product, finding information on a specific topic, and getting information regarding device, port, and card configuration and performance.

Help is available in the following ways:

For this information	Do this
Help system information on specific products.	Select <b>Help&gt;Contents</b> .
How to use the help system.	Select <b>Help&gt;Using Help</b> .
Self-contained help system describing how to use the product features.	Select <b>Help&gt;Using CiscoView</b> .
Version information	Select <b>Help&gt;About CiscoView</b> .

For this information	Do this
Using Configuration and Performance (dashboard) windows and field descriptions.	Click the Help button in the window or search within the Help system.
Changing a component value.	Press <b>F1</b> or the Help button over the field.

## Displaying a Device with CiscoView

After you start CiscoView, you will see the CiscoView main window. To display a device, follow these steps:

- 1 Select **File>Open Device**. You will not need to open a device if you selected the device icon from a network map.

The File - Open Device window is displayed.

- 2 Complete the fields in the Open Device window as follows:

In the Host field, enter the hostname or IP address of the device you want CiscoView to display.

In the Read Community field, unless “Public” has already been specified, enter the Read Community string, as specified by your network administrator.

In the Write Community field, unless “Public” has already been specified, enter the Write Community string, as specified by your network administrator. The correct Write Community string allows you to change some device settings.

- 3 Click **OK** to display the panel of the specified device.

## Troubleshooting

If you cannot open a device in CiscoView, you will receive a message indicating that the device is unmanageable. This message indicates one of the following conditions:

- The SNMP server is not set in the device. You can still ping the device from the management station.
- You have entered an incorrect community string in the File - Open Device window.
- The management station cannot reach the device. It cannot successfully ping the device.



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