



## Installing CD One

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This chapter consists of:

- [Installation Overview](#)
- [Preparing to Install CD One](#)
- [Performing a New Installation](#)
- [Performing an Upgrade Installation](#)
- [Removing CD One](#)

## Installation Overview

[Table 2-1](#) is an overview of CD One installation tasks. It contains references to more detailed information about each task. The table describes a typical local installation.

Table 2-1 Installing CD One Task Overview I

Task	Steps	References
1. Prepare to install CD One.	a. Verify that server requirements are met.	<a href="#">“Prerequisites” chapter, “Server Requirements” section on page 1-2</a>
	b. Verify that client requirements are met.	<a href="#">“Prerequisites” chapter, “Client Requirements” section on page 1-4</a>
	c. Note TCP ports that CiscoWorks2000 uses and check for conflicts with existing applications.	<a href="#">“TCP and UDP Ports Used” section on page 2-3</a>
2. Install server software.	Run installation program.	<a href="#">“Performing a New Installation” section on page 2-4</a>
3. Verify and troubleshoot installation.	Analyze installation error messages.	<a href="#">“Troubleshooting the Installation” appendix, “Understanding Installation Messages” section on page A-4</a>

**Caution**

You can cancel the installation at any time by pressing **Ctrl-C**. However, any changes to your system (for example, installation of new files or changes to system files) will not be undone. Refer to *Release Notes for CiscoWorks2000 CD One 4th Edition on HP-UX* for instructions to manually clean up the system.

CD One is installed in the default directory `/opt/CSCOpX`.

# Preparing to Install CD One

Before you install CD One, make sure your server and client environments meet the hardware and software requirements described in the “Prerequisites” chapter.



**Note**

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*Do not use DHCP running in dynamic mode on the CiscoWorks2000 Server.*

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## Setting Environment Variables

Set these environment variables for CiscoWorks2000 system administrators. These variables are not required for tasks that users perform from the desktop.

- Add `/opt/CSCOPx/bin` to the `PATH` variable in the `.cshrc` or `.profile` files of CD One users who have administrator privileges.
- Add `/opt/CSCOPx/man` to the `MANPATH` variable.

## Using the Server IP Address

To avoid inconsistencies in how domain names are used in networks, CiscoWorks2000 uses the IP address of the server when it interacts with web browsers. By using this IP address, CiscoWorks2000 eliminates name lookup failures between the server and the client machines that run web browsers.

## TCP and UDP Ports Used

In addition to the standard network ports, CD One uses these TCP and UDP ports:

- 42340/tcp (CiscoWorks2000 Daemon Manager, the tool that manages server processes)
- 42342/udp (Osagent)
- 42343/tcp (JRun)
- 42344/tcp (ANI HTTP server)
- 7500/udp (Electronic Switching System [ESS] Service port)

- 7500/tcp (ESS Listening port)
- 7580/tcp (ESS HTTP port)
- 7588/tcp (ESS Routing port)
- 1741/tcp (port used for the CiscoWorks2000 HTTP server)

See the [“Preparing to Use CD One”](#) chapter for more information about accessing the server.

## System Files Modified During Installation

These system files are modified during CD One installation:

- /etc/services
- /etc/inetd.conf
- /etc/syslog.conf
- /etc/passwd
- /etc/group

## Performing a New Installation

The CD One installation program takes approximately one hour to complete on a HP-UX system with the minimum required hardware. This can extend to one and half hours if you perform network management integration during the installation process.

For information on setting up multi-homed machines, refer to the Release Notes for CiscoWorks2000 CD One, 4th Edition.

## Running the Installation Program—New Installation

To run the installation program:

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**Step 1** As root, mount the CD One CD-ROM using either of these methods:

- Mount the CD-ROM on the CD One server system.
- Mount the CD-ROM on a remote HP-UX system, then access the CD-ROM from the CD One server system.

See the “[Mounting and Unmounting the CD-ROM](#)” appendix for detailed mounting instructions.

**Step 2** Run the installation program.

- For a local installation, enter:

```
# cd /cdrom/cdrom0/  
# ./setup.sh
```

- For a remote installation, enter:

```
# cd remotedir  
# ./setup.sh
```

where *remotedir* is the remote location where the CD-ROM is mounted.

A message may display:

```
Warning: User casuser already exists, the installation process will  
overwrite its privilege.
```

```
Do you want to continue (y/n)? [y]
```

This message will not appear if this is the first time CD One, 4th Edition, has been installed on this machine.

- Step 3** Press **Enter** if you receive the `casuser` message. The installation program adds the new user `casuser` and the new group `casusers` to the system.




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**Note** If CD One has previously been installed on this machine, the product will automatically be installed in the same location where CD One was previously installed.

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A message appears:

```
Enter the location where the product will be installed or q to quit.
Default location (PKGROOT)? [/opt/CSCOpX]
```




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**Note** If you select a installation directory other than `/usr/CSCOpX`, the `/usr/CSCOpX` directory will be created and will be a link to the directory you selected.

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- Step 4** Press **Enter** to accept the default directory for product installation, or enter a different directory.
- Step 5** Select one of these components. If CD One has previously been installed on this machine, the list of components will be different.

**1) NMS Integration Utility to install only the Integration Utility**

(For information about the Integration Utility and third-party NMS integration, refer to *Using CiscoView*.)

**2) Common Management Foundation (CMF) Base Desktop** to install a subset of CMF

(Select this option *only* if the application you'll be installing next requires the CMF Base Desktop and you do not want CiscoView or NMS Integration Utility installed.)

**3) CiscoView**

**4) CiscoView, NMS Integration Utility and CMF** to install all CD One components (Recommended for most systems)

- Step 6** Enter the number corresponding to the option you have chosen or **q** to quit.

For information about the Integration Utility, refer to *Using CiscoView*.

The installation program performs several preinstallation and dependency checks on your machine, such as TCP/IP address resolution, TCP/IP port use, disk space, and RAM. These preinstallation checks cause some text to appear on the screen.

A message appears:

```
The Integration Utility will be installed now. The Integration Utility
integrates Cisco device packages and Cisco applications into
third-party SNMP management platforms. You can choose to integrate
with a third-party SNMP management platform during this install or
later.
```

```
Do you want to integrate with the third-party product now (y/n)? [n]
```

**Step 7** Select one of the following:

- **n** to integrate with a third-party NMS after installation. (This is the recommended choice to complete the installation more quickly, and to avoid faulty third-party installation errors)  
If you select **n**, go to [Step 8](#).
- **y** to integrate with a third-party NMS during installation  
If you select **y**, continue with steps **a** through **c**.
- a.** Select the adapter from the list of available adapters, or select **other** to choose an adapter that is not listed. (You will be prompted to enter the path name of the adapter.). You can also select **none** to integrate after the installation is complete.  
If you select **none**, go to [Step 8](#).
- b.** Enter the HTTP browser location, or press **Enter** to accept the default location, `/opt/netscape/netscape`.  
A message appears, asking if you want to enable download options from the Cisco Web page (CCO).
- c.** Select one of the following:
  - **n** to disallow future upgrades from the Cisco Web page.
  - **y** to enable future upgrades from the Cisco Web page.  
Enter your CCO user ID and password.



**Note**

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You must have CCO login privileges. If you do not have a user account and password on CCO, contact your channel partner or enter a request on the standard CCO web site ([www.cisco.com](http://www.cisco.com)).

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- Step 8** After installation is complete, unmount the CD-ROM. See the [“Mounting and Unmounting the CD-ROM”](#) appendix for details.



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**Note** A warning message is displayed if obsolete HP-UX patches are present on your system. Before running CD One, 4th Edition, download and install the latest recommended patches from the HP website.

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If errors occurred during installation, check the installation log file `/var/tmp/ciscoinstall.log`. Each installation appends to this file. For troubleshooting information, see the [“Troubleshooting the Installation”](#) appendix.

- Step 9** Prepare the client system for use. See the [“Preparing to Use CD One”](#) chapter.
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## Performing an Upgrade Installation

During an upgrade from a previous version of CD One, the data is preserved. However, during an upgrade from previous CiscoWorks2000 applications (prior to CD One, 2nd Edition), previous product versions are removed. The database, ANI information, community strings, user and host information, and application-specific data files are preserved and will be restored during the new product version installations.

For a description of the different upgrade paths and their results, refer to the [“Upgrade Paths”](#) section on page 1-2.

To perform a local upgrade, see the [“Upgrading CD One—Local Upgrade”](#) section on page 2-9.

To perform a remote upgrade, see the [“Upgrading CD One—Remote Upgrade”](#) section on page 2-14.

## Upgrading CD One—Local Upgrade

If you are upgrading from applications prior to CD One, 2nd Edition, run the installation program as described below.

If you are upgrading from a previous edition of CD One, you must install a patch on the old system before you can begin installing CD One, 4th Edition. This patch suspends all currently scheduled job data. You can then, export necessary data during upgrade to the new version.

To install the patch:

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**Step 1** As root, mount the CD One CD-ROM using either of these methods:

- Mount the CD-ROM on the CD One server system.
- Mount the CD-ROM on a remote HP-UX system, then access the CD-ROM from the CD One server system.

See the [“Mounting and Unmounting the CD-ROM”](#) appendix for detailed mounting instructions.

**Step 2** At the command line, enter:

```
patch_1x_20.pl
```

The patch copies the file `DisableJobs.class` to the runtime installation directory.

**Step 3** At the command line, enter:

```
cwjava -cw install directory com.cisco.nm.cmf.jrm.DisableJobs
```

The class file suspends all the jobs and creates a list of job IDs for the suspended jobs and other job information in a file called `joblist.jrm`. The file `joblist.jrm` is saved in `$NMSROOT/setup`. Jobs are re-enabled as part of the upgrade process for individual applications.

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Now that the patch is installed, you can install CD One, 4th Edition.

To run the installation program:

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**Step 1** Install the required patches as described in the “[HP-UX Patches](#)” section on [page 1-3](#).

**Step 2** As root, mount the CD One CD-ROM using either of these methods:

- Mount the CD-ROM on the CD One server system.
- Mount the CD-ROM on a remote HP-UX system, then access the CD-ROM from the CD One server system.

See the “[Mounting and Unmounting the CD-ROM](#)” appendix for detailed mounting instructions.

**Step 3** Run the installation program.

- For a local installation, enter:

```
# cd /cdrom/cdrom0/
# ./setup.sh
```

- For a remote installation, enter:

```
# cd remotedir
# ./setup.sh
```

where *remotedir* is the remote location where the CD-ROM is mounted.

A message may appear:

```
Warning: User casuser already exists, the installation process will
overwrite its privilege.
```

```
Do you want to continue (y/n)? [y]
```

This message will not appear if this is the first time CD One, 4th Edition, has been installed on this machine.

**Step 4** Press **Enter** if you receive the **casuser** message. The installation program adds the new user *casuser* and the new group *casusers* to the system.




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**Note** If you are upgrading from a previous version of CD One, proceed to the next step. Otherwise, skip to Step 6.

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- Step 5** A message displays, stating that the installation of CiscoView 5.3 will remove all existing device support files and replace it with the files found in CD One, 4th Edition. To access a list of existing and CiscoView 5.3 device support files, navigate to the directory specified at the end of the message.



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**Note** The device support files installed with CD One, 4th Edition may be older than the files currently on your system. If that is the case, download the latest device support files from [www.cisco.com](http://www.cisco.com).

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Press **Enter to continue**, and skip to Step 12.

- Step 6** A message displays, stating that Essentials and CWSI have been detected. You are then prompted:

```
Do you want to proceed with the backup? (y/n) [y]
```

If you proceed with the backup, key data from the current applications will be archived before deletion from the server. You can then import this information into the latest applications upon installation.

- Step 7** Enter **y**, then specify the path where the previous product data will be archived or press **Enter** to accept the default path, `/opt/CW2000/OldData`.

The installation program copies database files and stores them in the location you specified.



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**Note** Refer to the online help for your specific applications for information on importing data into new application versions.

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- Step 8** A message appears:

```
The current product's data has been saved in /opt/CW2000/OldData.  
Setup will now uninstall <product name>.
```

```
Do you want to continue? (y/n) [y]
```

Select **y** to uninstall the previous product.

**Step 9** Press **Enter**.

The CD One install script removes the previous product, saves data in the location you specified in Step 6, then displays:

```
Enter the location where the product will be installed or q to quit.
Default location (PKGROOT)? [/opt/CSCOpX]
```

**Step 10** Press **Enter** to accept the default directory for product installation, or enter a different directory.

**Step 11** Select one of the following:

**1) NMS Integration Utility to install only the Integration Utility**

(For information about the Integration Utility and third-party NMS integration, refer to *Using CiscoView*.)

**2) Common Management Foundation (CMF) Base Desktop** to install a subset of CMF

(Select this option *only* if the application you'll be installing next requires the CMF Base Desktop and you do not want CiscoView or NMS Integration Utility installed.)

**3) CiscoView**

**4) CiscoView, NMS Integration Utility and CMF** to install all CD One components (Recommended for most systems)




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**Note** If CD One has previously been installed on this machine, the product will automatically be installed in the same location CD One was previously installed.

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Enter the number corresponding to the option you have chosen or type **q** to quit.

**Step 12** The installation program performs several preinstallation and dependency checks on your machine, such as TCP/IP address resolution, TCP/IP port use, disk space, and RAM. These preinstallation checks cause some text to appear on the screen.

**Step 13** If you are upgrading from CD One 1.1, a message appears:

```
Existing CV Device Packages will be removed. Press Enter to continue.
```

**Step 14** Press **Enter** to continue. Information about the Integration Utility appears.

If your previous version of CiscoWorks2000 is already integrated with a third-party NMS, enter your CCO user ID and password, and go to Step 16. If your previous version of CiscoWorks2000 is not already integrated with a third-party NMS, a message appears:

```
The Integration Utility will be installed now. The Integration Utility
integrates Cisco device packages and Cisco applications into a
third-party SNMP management platform. You can choose to integrate with
a third-party SNMP management platform during this install or later.
```

```
Do you want to integrate with the third-party product now (y/n)? [n] y
```



---

**Note** For information about the Integration Utility, refer to *Using CiscoView*.

---

**Step 15** Select one of the following:

- **n** to integrate with a third-party NMS after installation (this is the recommended choice to complete the installation more quickly, and to avoid faulty third-party installation errors)  
If you select **n**, go to [Step 16](#).
- **y** to integrate with a third-party NMS during installation  
If you select **y**, continue with steps **a** through **c**
- a.** Select the adapter from the list of available adapters, or select **other** to choose an adapter that is not listed (you will be prompted to enter the path name of the adapter), or select **none** to integrate after the installation is complete.  
If you select **none**, go to [Step 16](#).
- b.** Enter the HTTP browser location, or press **Enter** to accept the default location, `/opt/netscape/netscape`.  
A message appears, asking if you want to enable download options from the Cisco Web page (CCO).
- c.** Select one of the following:
  - **n** to disallow future upgrades from the Cisco Web page.
  - **y** to enable future upgrades from the Cisco Web page.  
Enter your CCO user ID and password.



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**Note** You must have CCO login privileges. If you do not have a user account and password on CCO, contact your channel partner or enter a request on the standard CCO web site ([www.cisco.com](http://www.cisco.com)).

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**Step 16** After installation is complete, unmount the CD-ROM. See the “[Mounting and Unmounting the CD-ROM](#)” appendix for details.



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**Note** A warning message is displayed if obsolete HP-UX patches are present on your system. Before running CD One, 4th Edition, download and install the latest recommended patches from HP website.

---

If errors occurred during installation, check the installation log file `/var/tmp/ciscoinstall.log`. Each installation appends to this file. For troubleshooting information or to verify the directories installed on your system, see the “[Troubleshooting the Installation](#)” appendix.

**Step 17** Prepare the client system for use. See the “[Preparing to Use CD One](#)” chapter.

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## Upgrading CD One—Remote Upgrade

If you do not want to overwrite your current application and replace it with CD One, 4th Edition, you can perform a remote upgrade instead. During a remote upgrade, you install CD One, 4th Edition, on a new machine, and export essential data to the new machine from the machine running the previous version.

- 
- Step 1** Install CD One on the new machine. See the [“Performing a New Installation” section on page 2-4](#).

**Caution**

If you are planning to perform a remote upgrade, do not change the database password for the new version of CD One. Changing the password will make the target system's database inaccessible after the upgrade.

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- Step 2** Remove the CD One CD-ROM from the new machine.
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If you are upgrading from applications prior to CD One, 1st Edition, you must import application data to the new system. Refer to the online help for your specific applications for information about importing data into new application versions.

If you are upgrading from a previous edition of CD One, data from all jobs must be exported to the new system. To make this possible, you must first install a patch on the old system. The patch is shipped with CD One. Continue on to the next section to install the patch.

To install the patch:

- 
- Step 1** Insert the CD One CD-ROM into the CD-ROM drive of the machine running the previous version of CD One.

- Step 2** At the command line, enter:

```
patch_1x_20.pl
```

- Step 3** At the command line, enter:

```
cwjava -cw install directory com.cisco.nm.cmf.jrm.DisableJobs
```

The class file suspends all the jobs and creates a list of job IDs for the suspended jobs and other job information in a file called `joblist.jrm`. The file `joblist.jrm` is saved in `$NMSROOT/setup`. Jobs are re-enabled as part of the upgrade process for individual applications.

---

Now that you have installed the patch, you can export the necessary job data from the old machine to the new one.

To export the data:

- 
- Step 1** The CD One CD-ROM should be in the CD-ROM drive of the machine running the old version of CD One. Go to the Root directory on the CD One CD-ROM.
- Step 2** From the Root directory, run the script `export_cdone.pl`.
- Step 3** Copy the directories `$NMSROOT/riigel/cmf` and `$NMSROOT/riigel/manifest/cmf` from the machine running the old version of CD One into the corresponding directories on the machine running the new version of CD One.
- Step 4** On the new machine, go to the directory `$NMSROOT/riigel/scripts`, and run the script `import_cdone.pl`.
- Step 5** Start the daemon manager. At the command line, enter:
- ```
/etc/rc.d/mgtd start
```
- The upgrade is now complete, and all necessary job data from the previous version of CD One has been exported.
- 

## Removing CD One

Use the **uninstall** command to remove CD One files and settings.



### Caution

You must use the **uninstall** command to remove the product. If you try to remove CD One or its components manually, you can damage your system.

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- Step 1** As root, enter these commands to start the uninstall script:

```
# cd /
# /opt/CSCOpX/bin/uninstall.sh
```

where `/opt/CSCOpX` is the default installation directory.

A list of CiscoWorks2000 components appears.



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**Note** When you remove CD One, the uninstall script removes changes made to the `/etc/services` file. The `/etc` directory still contains all system file changes. The uninstall messages are written to the `/var/tmp/ciscouninstall.log` file.

---

**Step 2** Enter **the number corresponding to the option you have chosen** or **q** to quit.

When the uninstall script is complete, a message displays:

```
All files were deleted successfully.
```

**Step 3** Check `/etc/syslog.conf` for syslog changes. Check `/etc/services` to ensure that port assignments for the Daemon Manager and web server have been removed.

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