Connect the PC and Log into the GUI

This chapter explains how to connect PCs and workstations to the Cisco ONS 15454 SDH and how to log into Cisco Transport Controller (CTC) software, which is the Cisco ONS 15454 SDH Operation, Administration, Maintenance and Provisioning (OAM&P) user interface.

Before You Begin

This section lists the chapter procedures (NTPs). Turn to a procedure for applicable tasks (DLPs).

1. NTP-D278 Set Up Computer for CTC, page 3-2—Complete this procedure if your PC or workstation has never been connected to an ONS 15454.
2. NTP-D260 Set Up CTC Computer for Local Craft Connection to the ONS 15454 SDH, page 3-8—Complete this procedure to set up your computer for an onsite craft connection to the ONS 15454.
3. NTP-D261 Set Up a Computer for a Corporate LAN Connection to the ONS 15454 SDH, page 3-19—Complete this procedure to set up your computer to connect to the ONS 15454 SDH using a corporate LAN.
4. NTP-D262 Set Up a Remote Access Connection to the ONS 15454 SDH, page 3-21—Complete this procedure to set up your computer for remote modem access to the ONS 15454.
5. NTP-D23 Log into the ONS 15454 SDH GUI, page 3-22—Complete this procedure to log into CTC.

NTP-D278 Set Up Computer for CTC

Purpose	This procedure explains how to configure your PC or UNIX workstation to run CTC.
Tools/Equipment	Cisco ONS 15454 SDH Release 4.6 software or documentation CD
Prerequisite Procedures	DLP-D332 Install the TCC2 Cards, page 2-7
Required/As Needed	Required
Onsite/Remote	Onsite or remote
Security Level	None

Step 1 If your computer does not have an appropriate browser installed, complete the following:

- To install Netscape 4.76 or 7.x, download the browser at the following site: http://channels.netscape.com/ns/browsers/default.jsp
- To install Internet Explorer 6.x on a PC, download the browser at the following site: http://www.microsoft.com

Step 2 If your computer is a Windows PC, complete the "DLP-D433 Run the CTC Installation Wizard for Windows" task on page 3-2, then go to Step 4.

Step 3 If your computer is a UNIX workstation, complete the "DLP-D434 Run the CTC Installation Wizard for UNIX" task on page 3-5.

Step 4 When your PC or workstation is set up, continue with the setup procedure appropriate to your network:

- NTP-D260 Set Up CTC Computer for Local Craft Connection to the ONS 15454 SDH, page 3-8
- NTP-D261 Set Up a Computer for a Corporate LAN Connection to the ONS 15454 SDH, page 3-19
- NTP-D262 Set Up a Remote Access Connection to the ONS 15454 SDH, page 3-21

Stop. You have completed this procedure.

DLP-D433 Run the CTC Installation Wizard for Windows

Purpose	This task installs CTC online help and JRE 1.4.2, as necessary. JRE 1.3.1_02 or JRE 1.4.2 are required to run CTC on Windows. Cisco recommends using JRE 1.4.2 with Netscape 7 or Internet Explorer 6.
Tools/Equipment	Cisco ONS 15454 SDH Release 4.6 software or documentation CD
Prerequisite Procedures	None
Required/As Needed	This task is required if any one of the following is true: • JRE 1.3.1_02 or JRE 1.4.2 are not installed • CTC online help is not installed and is needed
Onsite/Remote	Onsite or remote
Security Level	None

Step 1 Verify that your computer has the following:

- Processor—Pentium III, 700 Mhz or faster
- RAM—256 MB
- Hard drive—50 MB of space must be available
- Operating System—Windows 98, Windows NT 4.0, Windows 2000, or Windows XP

  If your operating system is Windows NT 4.0, verify that Service Pack 5 or later is installed. From the Start menu, choose **Programs > Administrative Tools > Windows NT Diagnostics** and check the service pack on the Version tab of the Windows NT Diagnostics dialog box. If Service Pack 5 or later is not installed, do not continue. Install Service Pack 5 following the computer upgrade procedures for your site.

Note Processor and RAM requirements are guidelines. CTC performance is faster if your computer has a faster processor and more RAM. Refer to the *Cisco ONS 15454 SDH Reference Manual* for computer requirements needed for small, medium, and large ONS 15454 SDH networks.

Step 2 Insert the Cisco ONS 15454 SDH Release 4.6 software or documentation CD into your computer CD drive. The installation program begins running automatically. If it does not start, navigate to your computer's CD directory and double-click **setup.exe**.

The Cisco Transport Controller Installation Wizard displays the components that will be installed on your computer:

- Java Runtime Environment 1.4.2
- Online Help

Step 3 Click **Next**.

Step 4 Complete one of the following:

- Click **Typical** to install both the Java Runtime Environment and Online Help.
- Click **Custom** if you want to install either the JRE or the Online Help.

Note Choose Custom and do not install JRE 1.4.2 if you must launch CTC from nodes running a release earlier than R4.6, or you have web applications that are sensitive to JRE changes.

Step 5 Click **Next**.

Step 6 Complete the following, as applicable:

- If you selected Typical, skip this step and proceed to Step 7.
- If you selected Custom in Step 4, select the CTC component that you want to install and click **Next**.
  - If you selected Online Help, continue with Step 7.
  - If you did not select Online Help, continue with Step 9.

Step 7 The directory where the installation wizard will install CTC online help appears. The default is C:\Program Files\Cisco\CTC\Documentation.

a. If you do not want to change the directory, skip this step.

b. If you want to change the CTC online help directory, type the new directory path in the Directory Name field, or click **Browse** to navigate to the directory.

Step 8 Click **Next**.

Step 9 Review the components that will be installed.

- If you selected Typical in Step 4, click **Back** twice to return to the installation setup type panel. Choose **Custom** and repeat Steps 5 through 8.
- If you selected Custom in Step 4, click **Back** once or twice (depending on the components selected) until the component selection panel appears. Repeat Steps 6 through 8.

Step 10 Click **Next**. It may take a few minutes for the JRE installation wizard to appear. If you selected Custom in Step 4 and did not check Java Runtime Environment 1.4.2, continue with Step 12.

Step 11 To install the JRE, complete the following:

a. In the Java 2 Runtime Environment License Agreement dialog box, view the license agreement and choose one of the following:

- I accept the terms of the license agreement—Accepts the license agreement. Continue with Step b.
- I do not accept the terms of the license agreement—Disables the Next button on the Java 2 Runtime Environment License Agreement dialog box. Click **Cancel** to return to the CTC installation wizard. CTC will not install the JRE. Continue with Step 12.

Note If JRE 1.4.2 is already installed on your computer, the License Agreement panel does not appear. You must click Next and then choose Modify to change the JRE installation or Remove to uninstall the JRE. If you choose Modify and click Next, continue with Step e. If you choose Remove and click Next, continue with Step i.

b. Click **Next**.

c. Choose one of the following:

- Click **Typical** to install all JRE features. If you select Typical, the JRE version installed will automatically become the default JRE version for your browsers.
- Click **Custom** if you want to select the components to install and select the browsers that will use the JRE version.

d. Click **Next**.

e. If you selected Typical, continue with Step i. If you selected Custom, click the drop-down menu for each program feature that you want to install and choose the desired setting. The program features include:

- Java 2 Runtime Environment—(Default) Installs JRE 1.4.2 with support for European languages.
- Support for Additional Languages—Adds support for non-European languages.
- Additional Font and Media Support—Adds Lucida fonts, Java Sound, and color management capabilities.

The drop-down menu options for each program feature include:

- This feature will be installed on the local hard drive—Installs the selected feature.
- This feature and all subfeatures will be installed on the local hard drive—Installs the selected feature and all subfeatures.
- Don't install this feature now—Does not install the feature (not an option for Java 2 Runtime Environment).

To modify the directory where the JRE version is installed, click **Change**, navigate to the desired directory, and click **OK**.

f. Click **Next**.

g. In the Browser Registration dialog box, check the browsers that you want to register with the Java Plug-In. The JRE version will be the default for the selected browsers. It is acceptable to leave both browser check boxes unchecked.

Note Setting the JRE as the default for these browsers may cause problems with these browsers.

h. Click **Next**.

i. Click **Finish**.

Note If you are uninstalling the JRE, click Remove.

Step 12 In the Cisco Transport Controller Installation Wizard, click **Next**. The Online Help installs.

Step 13 Click **Finish**.

Step 14 Return to your originating procedure (NTP).

DLP-D434 Run the CTC Installation Wizard for UNIX

Purpose	This task installs CTC online help and JRE 1.4.2, as necessary. JRE 1.3.1_02 (Netscape 4.76) or JRE 1.4.2 (Netscape 7.x) are required to run CTC.
Tools/Equipment	Cisco ONS 15454 SDH Release 4.6 software or documentation CD
Prerequisite Procedures	None
Required/As Needed	Required if any of the following are true: • JRE 1.3.1_02 or JRE 1.4.2 are not installed. • CTC online help is not installed and is needed.
Onsite/Remote	Onsite or remote
Security Level	None

Note Cisco does not recommend upgrading to JRE 1.4.2 if CTC must be launched directly from nodes running software earlier than Release 4.6. If you upgrade to JRE 1.4.2, you must use Netscape 7.x.

Step 1 Verify that your computer has the following:

- RAM—256 MB
- Hard drive—50 MB of space must be available
- Operating System—Solaris 8 and 9

Note These requirements are guidelines. CTC performance is faster if your computer has a faster processor and more RAM. Refer to the *Cisco ONS 15454 SDH Reference Manual* for computer requirements needed for small, medium, and large ONS 15454 SDH networks.

Step 2 Change the directory, type:

```
cd /cdrom/cdrom0/
```

Step 3 From the techdoc454 CD directory, type:

```
./setup.bat
```

The Cisco Transport Controller Installation Wizard displays the components that will be installed on your computer:

- Java Runtime Environment 1.4.2
- Online Help

Step 4 Click **Next**.

Step 5 Complete one of the following:

- Click **Typical** to install both the Java Runtime Environment and Online Help. If you already have JRE 1.4.2 installed on your computer or do not want to install JRE 1.4.2, choose Custom.
- Click **Custom** if you want to install either the JRE or the Online Help.

Note Choose Custom and do not install JRE 1.4.2 if you must launch CTC from nodes running a release earlier than R4.6, or you have web applications that are sensitive to JRE changes.

Step 6 Click **Next**.

Step 7 Complete the following, as applicable:

- If you selected Typical, continue with Step 8.
- If you selected Custom in Step 5, choose the CTC component that you want to install and click **Next**.
  - If you selected Online Help, continue with Step 8.
  - If not, continue with Step 10.

Step 8 The directory where the installation wizard will install CTC online help appears. The default is /usr/doc/ctc.

- If you want to change the CTC online help directory, type the new directory path in the Directory Name field, or click **Browse** to navigate to the directory.
- If you do not want to change the CTC online help directory, skip this step.

Step 9 Click **Next**.

Step 10 Review the components that will be installed. To change the components, complete one of the following:

- If you selected Typical in Step 5, click **Back** twice to return to the installation setup type panel. Choose **Custom** and repeat Steps 6 through 9.
- If you selected Custom in Step 5, click **Back** once or twice (depending on the components selected) until the component selection panel appears. Repeat Steps 7 through 9.

Step 11 Click **Next**. It may take a few minutes for the JRE installation wizard to appear. If you selected Custom in Step 4 and did not check Java Runtime Environment 1.4.2, continue with Step 13.

Step 12 To install the JRE, complete the following:

a. In the Java 2 Runtime Environment License Agreement dialog box, view the license agreement and choose one of the following:

- I accept the terms of the license agreement—Accepts the license agreement. Continue with Step b.
- I do not accept the terms of the license agreement—Disables the Next button on the Java 2 Runtime Environment License Agreement dialog box. Click **Cancel** to return to the CTC installation wizard. CTC will not install the JRE. Continue with Step 13.

Note If JRE 1.4.2 is already installed on your computer, the License Agreement panel does not appear. You must click Next and then choose Modify to change the JRE installation or Remove to uninstall the JRE. If you choose Modify and click Next, continue with Step e. If you choose Remove and click Next, continue with Step i.

b. Click **Next**.

c. Choose one of the following:

- Click **Typical** to install all JRE features. If you select Typical, the JRE version installed will automatically become the default JRE version for your browsers.
- Click **Custom** if you want to select the components to install and select the browsers that will use the JRE version.

d. Click **Next**.

e. If you selected Typical, continue with Step i. If you selected Custom, click the drop-down menu for each program feature that you want to install and choose the desired setting. The program features include:

- Java 2 Runtime Environment—(Default) Installs JRE 1.4.2 with support for European languages.
- Support for Additional Languages—Adds support for non-European languages.
- Additional Font and Media Support—Adds Lucida fonts, Java Sound, and color management capabilities.

The drop-down menu options for each program feature include:

- This feature will be installed on the local hard drive—Installs the selected feature.
- This feature and all subfeatures will be installed on the local hard drive—Installs the selected feature and all subfeatures.
- Don't install this feature now—Does not install the feature (not an option for Java 2 Runtime Environment).

To modify the directory where the JRE version is installed, click **Change**, navigate to the desired directory, and click **OK**.

f. Click **Next**.

g. In the Browser Registration dialog box, check the browsers that you want to register with the Java Plug-In. The JRE version will be the default for the selected browsers. It is acceptable to leave both browser check boxes unchecked.

Note Setting the JRE version as the default for these browsers may cause problems with these browsers.

h. Click **Next**.

i. Click **Finish**.

Note If you are uninstalling the JRE, click Remove.

Step 13 In the Cisco Transport Controller Installation Wizard, click **Next**. The Online Help installs.

Step 14 Click **Finish**.

Note Be sure to record the names of the directories you choose for JRE and the online help.

Step 15 Return to your originating procedure (NTP).

NTP-D260 Set Up CTC Computer for Local Craft Connection to the ONS 15454 SDH

Purpose	This procedure sets up a PC running Windows or a Solaris workstation for an onsite local craft connection to the ONS 15454 SDH.
Tools/Equipment	Depends on connection type
Prerequisite Procedures	NTP-D278 Set Up Computer for CTC, page 3-2
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	None

Step 1 Complete one of the tasks listed in Table 3-1 based upon your computer and network configuration.

Table 3-1 ONS 15454 SDH Local Craft Connection Options

Local Craft Connection Task	Complete this task if:
DLP-D50 Set Up a Windows PC for Craft Connection to an ONS 15454 SDH on the Same Subnet Using Static IP Addresses, page 3-10	• You are connecting from a Windows PC. • You will connect to one ONS 15454 SDH; if you will connect to multiple ONS 15454 SDHs, you might need to configure your computer's IP settings each time you connect to an ONS 15454 SDH. • You need to access non-ONS 15454 SDH applications such as ping and tracert.
DLP-D51 Set Up a Windows PC for Craft Connection to an ONS 15454 SDH Using Dynamic Host Configuration Protocol, page 3-12	• You are connecting from a Windows PC. • The CTC computer is provisioned for Dynamic Host Configuration Protocol (DHCP). • The ONS 15454 SDH has DHCP forwarding enabled and is connected to a DHCP server.
DLP-D52 Set Up a Windows PC for Craft Connection to an ONS 15454 SDH Using Automatic Host Detection, page 3-14	• You are connecting from a Windows PC. • All nodes that you will access run Software Release 3.3 or later. • You will connect to ONS 15454 SDH nodes at different locations and times and do not wish to reconfigure your PC's IP settings each time. • You do not need to access or use non-ONS 15454 SDH applications such as ping and traceroute. • You will connect to the ONS 15454 SDH TCC2 Ethernet port or backplane LAN pins either directly or through a hub.
DLP-D53 Set Up a Solaris Workstation for a Craft Connection to an ONS 15454 SDH, page 3-17	• You are connecting from a Solaris Workstation. • You will connect to one ONS 15454 SDH; if you will connect to multiple ONS 15454 SDH nodes, you might need to configure your computer's IP settings each time you connect to an ONS 15454 SDH. • You need to access non-ONS 15454 SDH applications such as ping and traceroute.

Step 2 Continue with the "NTP-D23 Log into the ONS 15454 SDH GUI" procedure on page 3-22, if applicable.

Stop. You have completed this procedure.

DLP-D50 Set Up a Windows PC for Craft Connection to an ONS 15454 SDH on the Same Subnet Using Static IP Addresses

Purpose	This task sets up your computer for a local craft connection to the ONS 15454 SDH when: • You will connect to one ONS 15454 SDH; if you will connect to multiple ONS 15454 SDH nodes, you might need to reconfigure your computer's IP settings each time you connect to an ONS 15454 SDH. • You need to use non-ONS 15454 SDH applications such as ping and trace route.
Tools/Equipment	Network interface card (NIC), also referred to as an Ethernet card
Prerequisite Procedures	NTP-D278 Set Up Computer for CTC, page 3-2
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	None

Step 1 Verify the operating system that is installed on your computer:

a. From the Windows Start menu, choose **Settings > Control Panel**.

b. In the Control Panel window, double-click the **System** icon.

c. On the General tab of the System Settings window, verify that the Windows operating system is one of the following: Windows 98, Windows NT 4.0, Windows 2000, or Windows XP.

Step 2 According to the Windows operating system installed on your computer, perform one of the following steps:

- For Windows 98, complete Step 3.
- For Windows NT 4.0, complete Step 4.
- For Windows 2000, complete Step 5.
- For Windows XP, complete Step 6.

Step 3 If you have Windows 98 installed on your PC, complete the following steps to change its TCP/IP configuration:

a. From the Windows Start menu, choose **Settings > Control Panel**.

b. In the Control Panel dialog box, click the **Network** icon.

c. In the Network dialog box, choose **TCP/IP** for your NIC, then click **Properties**.

d. In the TCP/IP Properties dialog box, click the **DNS Configuration** tab and choose **Disable DNS**.

e. Click the **WINS Configuration** tab and choose **Disable WINS Resolution**.

f. Click the **IP Address** tab.

g. In the IP Address window, click **Specify an IP address**.

h. In the IP Address field, enter an IP address that is identical to the ONS 15454 SDH IP address shown on the ONS 15454 SDH LCD except for the last octet. The last octet must be 1 or 3 through 254. This IP address appears on the LCD. Software R4.0 and later allow you to suppress the LCD IP address display.

i. In the Subnet Mask field, type the same subnet mask as the ONS 15454 SDH. The default is **255.255.255.0** (24 bit).

j. Click **OK**.

k. In the TCP/IP dialog box, click the **Gateway** tab.

l. In the New Gateway field, type the ONS 15454 SDH IP address. Click **Add**.

m. Verify that the IP address appears in the Installed Gateways field, then click **OK**.

n. When the prompt to restart your PC appears, click **Yes**.

Step 4 If you have Windows NT 4.0 installed on your PC, complete the following steps to change its TCP/IP configuration:

a. From the Windows Start menu, choose **Settings > Control Panel**.

b. In the Control Panel dialog box, click the **Network** icon.

c. In the Network dialog box click the **Protocols** tab, choose **TCP/IP Protocol**, then click **Properties**.

d. Click the **IP Address** tab.

e. In the IP Address window, click **Specify an IP address**.

f. In the IP Address field, enter an IP address that is identical to the ONS 15454 SDH IP address shown on the ONS 15454 SDH LCD except for the last octet. The last octet must be 1 or 3 through 254.

g. In the Subnet Mask field, type **255.255.255.0**.

h. Click **Advanced**.

i. From the Gateways List, click **Add**. The TCP/IP Gateway Address dialog box appears.

j. Type the ONS 15454 SDH IP address in the Gateway Address field.

k. Click **Add**.

l. Click **OK**.

m. Click **Apply**.

n. In some cases, Windows NT 4.0 prompts you to reboot your PC. If you receive this prompt, click **Yes**.

Step 5 If you have Windows 2000 installed on your PC, complete the following steps to change its TCP/IP configuration:

a. From the Windows Start menu, choose **Settings > Network and Dial-up Connections > Local Area Connection**.

b. In the Local Area Connection Status dialog box, click **Properties**.

c. In the General tab, choose **Internet Protocol (TCP/IP)**, then click **Properties**.

d. Click **Use the following IP address**.

e. In the IP Address field, enter an IP address that is identical to the ONS 15454 SDH IP address shown on the ONS 15454 SDH LCD except for the last octet. The last octet must be 1 or 3 through 254.

f. In the Subnet Mask field, type **255.255.255.0**.

g. In the Default Gateway field, type the ONS 15454 SDH IP address.

h. Click **OK**.

i. In the Local Area Connection Properties dialog box, click **OK**.

j. In the Local Area Connection Status dialog box, click **Close**.

Step 6 If you have Windows XP installed on your PC, complete the following steps to change its TCP/IP configuration:

a. From the Windows Start menu, choose **Control Panel > Network Connections**.

Note If the Network Connections menu is not available, click Switch to Classic View.

b. From the Network Connections dialog box, click the **Local Area Connection** icon.

c. From the Local Area Connection Properties dialog box, choose **Internet Protocol (TCP/IP)**, then click **Properties**.

d. In the IP Address field, enter an IP address that is identical to the ONS 15454 SDH IP address shown on the ONS 15454 SDH LCD except for the last octet. The last octet must be 1 or 3 through 254.

e. In the Subnet Mask field, type **255.255.255.0**.

f. In the Default Gateway field, type the ONS 15454 SDH IP address.

g. Click **OK**.

h. In the Local Area Connection Properties dialog box, click **OK**.

i. In the Local Area Connection Status dialog box, click **Close**.

Step 7 Return to your originating procedure (NTP).

DLP-D51 Set Up a Windows PC for Craft Connection to an ONS 15454 SDH Using Dynamic Host Configuration Protocol

Purpose	This task sets up your computer for craft connection to the ONS 15454 SDH using DHCP.
Tools/Equipment	Straight-through (Category 5) LAN cable NIC
Prerequisite Procedures	NTP-D278 Set Up Computer for CTC, page 3-2 NTP-D169 Set Up CTC Network Access, page 4-9
Required/As Needed	As needed
Onsite/Remote	Onsite
Security Level	None

Caution To connect to an ONS 15454 SDH using DHCP, DHCP forwarding must be enabled on the ONS 15454 SDH and the ONS 15454 SDH must be connected to a DHCP server. For information, see the "NTP-D169 Set Up CTC Network Access" procedure on page 4-9.

Step 1 Verify the operating system that is installed on your computer:

a. From the Windows Start menu, choose **Settings > Control Panel**.

b. In the Control Panel window, double-click the **System** icon.

c. On the General tab of the System Settings window, verify that the Windows operating system is one of the following: Windows 98, Windows NT 4.0, Windows 2000, or Windows XP.

Step 2 According to the Windows operating system installed on your computer, perform one of the following steps:

- For Windows 98, complete Step 3.
- For Windows NT 4.0, complete Step 4.
- For Windows 2000, complete Step 5.
- For Windows XP, complete Step 6.

Step 3 If you have Windows 98 installed on your PC, complete the following steps to change its TCP/IP configuration:

a. From the Windows Start menu, choose **Settings > Control Panel**.

b. In the Control Panel dialog box, click the **Network** icon.

c. In the Network dialog box select **TCP/IP** for your NIC, then click **Properties**.

d. In the TCP/IP Properties dialog box, click the **DNS Configuration** tab and choose **Disable DNS**.

e. Click the **WINS Configuration** tab and choose **Disable WINS Resolution**.

f. Click the **IP Address** tab.

g. In the IP Address window, **Obtain an IP address automatically**.

h. Click **OK**.

i. When the prompt to restart your PC appears, click **Yes**.

Step 4 If you have Windows NT 4.0 installed on your PC, complete the following steps to change its TCP/IP configuration:

a. From the Windows Start menu, choose **Settings > Control Panel**.

b. In the Control Panel dialog box, click the **Network** icon.

c. In the Network dialog box click the **Protocols** tab, choose **TCP/IP Protocol**, then click **Properties**.

d. Click the **IP Address** tab.

e. In the IP Address window, click **Obtain an IP address from a DHCP Server**.

f. Click **OK**.

g. Click **Apply**.

h. If Windows prompts you to restart your PC, click **Yes**.

Step 5 If you have Windows 2000 installed on your PC, complete the following steps to change its TCP/IP configuration:

a. From the Windows Start menu, choose **Settings > Network and Dial-up Connections > Local Area Connection**.

b. In the Local Area Connection Status dialog box, click **Properties**.

c. In the General tab, choose **Internet Protocol (TCP/IP)**, then click **Properties**.

d. Click **Obtain an IP address from a DHCP Server**.

e. Click **OK**.

f. In the Local Area Connection Properties dialog box, click **OK**.

g. In the Local Area Connection Status dialog box, click **Close**.

Step 6 If you have Windows XP installed on your PC, complete the following steps:

a. From the Windows Start menu, choose **Control Panel > Network Connections.**

Note If the Network Connections menu is not available, click Switch to Classic View.

b. In the Network Connections dialog box, click **Local Area Connection**.

c. In the Local Area Connection Status dialog box, click **Properties**.

d. In the General tab, choose **Internet Protocol (TCP/IP)**, then click **Properties**.

e. Click **Obtain an IP address automatically**.

f. Click **OK**.

g. In the Local Area Connection Properties dialog box, click **OK**.

h. In the Local Area Connection Status dialog box, click **Close**.

Step 7 Return to your originating procedure (NTP).

DLP-D52 Set Up a Windows PC for Craft Connection to an ONS 15454 SDH Using Automatic Host Detection

Purpose	This task sets up your computer for local craft connection to the ONS 15454 SDH when: • You will connect to the ONS 15454 SDH Ethernet port or the RJ-45 jack on the MIC-C/T/P FMEC either directly or through a hub. • You will connect to multiple ONS 15454 SDHs and do not want to reconfigure your IP address each time. • You do not need to access non-ONS 15454 SDH applications such as ping and trace route.
Tools/Equipment	NIC
Prerequisite Procedures	NTP-D278 Set Up Computer for CTC, page 3-2
Required/As Needed	As needed
Onsite/Remote	Onsite
Security Level	None

Step 1 Verify the operating system that is installed on your computer:

a. From the Windows Start menu, choose **Settings > Control Panel**.

Note In Windows XP, you can select Control Panel directly from the Start menu. Make sure you are in Classic View before continuing with this procedure.

b. In the Control Panel window, double-click the **System** icon.

c. On the General tab of the System Settings window, verify that the Windows operating system is one of the following: Windows 98, Windows NT 4.0, Windows 2000, or Windows XP.

Step 2 According to the Windows operating system installed on your computer, perform one of the following steps:

- For Windows 98, complete Step 3.
- For Windows NT 4.0, complete Step 4.
- For Windows 2000, complete Step 5.
- For Windows XP, complete Step 6.

Step 3 If you have Windows 98 installed on your PC, complete the following steps to change its TCP/IP configuration:

a. From the Windows Start menu, choose **Settings > Control Panel**.

b. In the Control Panel dialog box, click the **Network** icon.

c. In the Network dialog box select **TCP/IP** for your NIC, then click **Properties**.

d. In the TCP/IP Properties dialog box, click the **DNS Configuration** tab and choose **Disable DNS**.

e. Click the **WINS Configuration** tab and choose **Disable WINS Resolution**.

f. Click the **IP Address** tab.

g. In the IP Address window, click **Specify an IP address**.

h. In the IP Address field, enter any legitimate IP address other than the node IP address as indicated on the LCD of the ONS 15454 SDH. The default IP address is 192.1.0.2.

Note You can suppress the LCD IP address display using CTC. For more information, see the "DLP-D60 Log into CTC" task on page 3-24 for the default IP address.

i. In the Subnet Mask field, type the same subnet mask as the ONS 15454 SDH. The default is **255.255.255.0** (24 bit).

j. Click **OK**.

k. In the TCP/IP dialog box, click the **Gateway** tab.

l. In the New Gateway field, type the address entered in Step i. Click **Add**.

m. Verify that the IP address appears in the Installed Gateways field, then click **OK**.

n. When the prompt to restart your PC appears, click **Yes**.

Step 4 If you have Windows NT 4.0 installed on your PC, complete the following steps to change its TCP/IP configuration:

a. From the Windows Start menu, choose **Settings > Control Panel**.

b. In the Control Panel dialog box, click the **Network** icon.

c. In the Network dialog box click the **Protocols** tab, choose **TCP/IP Protocol**, then click **Properties**.

d. Click the **IP Address** tab.

e. In the IP Address window, click **Specify an IP address**.

f. In the IP Address field, enter any legitimate IP address other than the node IP address as indicated on the LCD of the ONS 15454 SDH. The default IP address is 192.1.0.2.

Note You can suppress the LCD IP address display using CTC. For more information, see the "DLP-D60 Log into CTC" task on page 3-24 for the default IP address.

g. In the Subnet Mask field, type the same subnet mask as the ONS 15454 SDH. The default is **255.255.255.0** (24 bit).

h. Click **Advanced**.

i. In the Gateways List, click **Add**. The TCP/IP Gateway Address dialog box appears.

j. Type the IP address entered in Step f in the Gateway Address field.

k. Click **Add**.

l. Click **OK**.

m. Click **Apply**.

n. Reboot your PC.

Step 5 If you have Windows 2000 installed on your PC, complete the following steps to change its TCP/IP configuration:

a. From the Windows Start menu, choose **Settings > Network and Dial-up Connections > Local Area Connection**.

b. In the Local Area Connection Status dialog box, click **Properties**.

c. In the General tab, choose **Internet Protocol (TCP/IP)**, then click **Properties**.

d. Click **Use the following IP address**.

e. In the IP Address field, enter any legitimate IP address other than the node IP address as indicated on the LCD of the ONS 15454 SDH. The default IP address is 192.1.0.2.

Note You can suppress the LCD IP address display using CTC. For more information, see the "DLP-D60 Log into CTC" task on page 3-24 for the default IP address.

f. In the Subnet Mask field, type the same subnet mask as the ONS 15454 SDH. The default is **255.255.255.0** (24 bit).

g. Type the IP address entered in Step e in the Gateway Address field.

h. Click **OK**.

i. In the Local Area Connection Properties dialog box, click **OK**.

j. In the Local Area Connection Status dialog box, click **Close**.

Step 6 If you have Windows XP installed on your PC, complete the following steps:

a. From the Windows Start menu, choose **Control Panel > Network Connections**.

Note If the Network Connections menu is not available, click Switch to Classic View.

b. From the Network Connections dialog box, click the **Local Area Connection** icon.

c. From the Local Area Connection Properties dialog box, choose **Internet Protocol (TCP/IP)**, then click **Properties**.

d. In the IP Address field, enter any legitimate IP address other than the node IP address as indicated on the LCD of the ONS 15454 SDH. The default IP address is 192.1.0.2.

Note You can suppress the LCD IP address display using CTC. For more information, see the "DLP-D60 Log into CTC" task on page 3-24 for the default IP address.

e. In the Subnet Mask field, type the same subnet mask as the ONS 15454 SDH. The default is **255.255.255.0** (24 bit).

f. Type the IP address entered in Step d in the Gateway Address field.

g. Click **OK**.

h. In the Local Area Connection Properties dialog box, click **OK**.

i. In the Local Area Connection Status dialog box, click **Close**.

Step 7 Return to your originating procedure (NTP).

DLP-D53 Set Up a Solaris Workstation for a Craft Connection to an ONS 15454 SDH

Purpose	This task sets up a Solaris workstation for a craft connection to the ONS 15454 SDH.
Tools/Equipment	None
Prerequisite Procedures	NTP-D278 Set Up Computer for CTC, page 3-2
Required/As Needed	As needed
Onsite/Remote	Onsite
Security Level	None

Step 1 Log into the workstation as the root user.

Step 2 Check to see if the interface is plumbed by typing:

```
# ifconfig device
```

For example:

```
# ifconfig hme1
```

If the interface is plumbed, a message similar to the following appears:

```
hme1:flags=1000842<BROADCAST,RUNNING,MULTICAST,IPv4>mtu 1500 index 2 inet 0.0.0.0 netmask
0
```

If a message similar to this one appears, go to Step 4.

If the interface is not plumbed, a message similar to the following appears:

```
ifconfig: status: SIOCGLIFFLAGS: hme1: no such interface.
```

If a message similar to this one appears, go to Step 3.

Step 3 Plumb the interface by typing:

```
# ifconfig device plumb
```

For example:

```
# ifconfig hme1 plumb
```

Step 4 Configure the IP address on the interface by typing:

```
# ifconfig interface ip-address netmask netmask up
```

For example:

```
# ifconfig hme0 192.1.0.3 netmask 255.255.255.0 up
```

Note Enter an IP address that is identical to the ONS 15454 SDH IP address except for the last octet. The last octet must be 1 or 3 through 254.

Step 5 In the Subnet Mask field, type **255.255.255.0**. Skip this step if you checked Craft Access Only on the Provisioning > Network > General > Gateway Settings tab.

Step 6 Test the connection:

a. Start Netscape Navigator.

b. Enter the Cisco ONS 15454 SDH IP address in the web address (URL) field. If the connection is established, a Java Console window, CTC caching messages, and the Cisco Transport Controller Login dialog box appear. If this occurs, go to Step 2 of the "DLP-D60 Log into CTC" task on page 3-24 to complete the login. If the Login dialog box does not appear, complete Steps c and d.

c. At the prompt, type:

```
ping ONS-15454-SDH-IP-address
```

For example, to connect to an ONS 15454 SDH with default IP address 192.1.0.2, type:

```
ping 192.1.0.2
```

If your workstation is connected to the ONS 15454 SDH, the following message appears:

```
IP-address is alive
```

Note Skip this step if you checked Craft Access Only at Provisioning > Network > General > Gateway Settings.

d. If CTC is not responding, a "Request timed out" (Windows) or a "no answer fromx.x.x.x" (UNIX) message appears. Verify the IP and subnet mask information. Check that the cables connecting the workstation to the ONS 15454 SDH are securely attached. Check the link status by typing:

```
# ndd -set /dev/device instance 0
# ndd -get /dev/device link_status
```

For example:

```
# ndd -set /dev/hme instance 0
# ndd -get /dev/hme link_status
```

A result of "1" means the link is up. A result of "0" means the link is down.

Note Check the man page for ndd. For example: `# man ndd`

Step 7 Return to your originating procedure (NTP).

NTP-D261 Set Up a Computer for a Corporate LAN Connection to the ONS 15454 SDH

Purpose	This procedure sets up your computer to access the ONS 15454 SDH through a corporate LAN. To complete this procedure: • The ONS 15454 SDH must be provisioned for LAN connectivity, including IP address, subnet mask, default gateway. • The ONS 15454 SDH must be physically connected to the corporate LAN. • The CTC computer must be connected to the corporate LAN that has connectivity to the ONS 15454 SDH.
Tools/Equipment	None
Prerequisite Procedures	NTP-D278 Set Up Computer for CTC, page 3-2
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	None

Step 1 If your computer is connected to the corporate LAN, go to Step 2. If you changed your computer's network settings for craft access to the ONS 15454 SDH, change the settings back to the corporate LAN access settings. This generally means:

- Set the IP Address on the TCP/IP dialog box back to **Obtain an IP address automatically** (Windows 98) or **Obtain an IP address from a DHCP server** (Windows NT, 2000, or XP).
- If your LAN requires that DNS or WINS be enabled, change the setting on the DNS Configuration or WINS Configuration tab of the TCP/IP dialog box.

Step 2 If your computer is connected to a proxy server, disable proxy service or add the ONS 15454 SDH nodes as exceptions. To disable proxy service, complete one of the following tasks, depending on the web browser you use:

- DLP-D56 Disable Proxy Service Using Internet Explorer (Windows), page 3-20
- DLP-D57 Disable Proxy Service Using Netscape (Windows and UNIX), page 3-20

Step 3 Continue with the "NTP-D23 Log into the ONS 15454 SDH GUI" procedure on page 3-22.

Stop. You have completed this procedure.

DLP-D56 Disable Proxy Service Using Internet Explorer (Windows)

Purpose	This task disables proxy service for PCs running Internet Explorer.
Tools/Equipment	None
Prerequisite Procedures	NTP-D278 Set Up Computer for CTC, page 3-2
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	None

Step 1 From the Start menu, select **Settings > Control Panel**.

Note If you computer is running Windows XP, you can select Control Panel directly from the Start menu. Make sure you are in Classic View before continuing with this procedure.

Step 2 In the Control Panel window, choose **Internet Options**.

Step 3 In the Internet Properties dialog box, click **Connections** > **LAN Settings**.

Step 4 In the LAN Settings dialog box, complete one of the following tasks:

- Uncheck **Use a proxy server** to disable the service.
- Leave **Use a proxy server** selected and click **Advanced**. In the Proxy Setting dialog box under Exceptions, enter the IP addresses of ONS 15454 SDH nodes that you will access. Separate each address with a semicolon. You can insert an asterisk for the host number to include all the ONS 15454 SDHs on your network. Click **OK** to close each open dialog box.

Step 5 Return to your originating procedure (NTP).

DLP-D57 Disable Proxy Service Using Netscape (Windows and UNIX)

Purpose	This task disables proxy service for PCs and UNIX workstations running Netscape.
Tools/Equipment	None
Prerequisite Procedures	NTP-D278 Set Up Computer for CTC, page 3-2
Required/As Needed	Required if your computer is connected to a network computer proxy server and your browser is Netscape.
Onsite/Remote	Onsite or remote
Security Level	None

Step 1 Open Netscape.

Step 2 From the Edit menu, choose **Preferences**.

Step 3 In the Preferences dialog box under Category, choose **Advanced > Proxies**.

Step 4 In the right side of the Preferences dialog box under Proxies, complete one of the following options:

- Choose **Direct connection to the Internet** to bypass the proxy server.
- Choose **Manual proxy configuration** to add exceptions to the proxy server, then click **View**. In the Manual Proxy Configuration dialog box under Exceptions, enter the IP addresses of the ONS 15454 SDH nodes that you will access. Separate each address with a comma. Click **OK** to close each open dialog box.

Step 5 Return to your originating procedure (NTP).

NTP-D262 Set Up a Remote Access Connection to the ONS 15454 SDH

Purpose	This procedure connects an ONS 15454 SDH using a LAN modem.
Tools/Equipment	Modem and modem documentation
Prerequisite Procedures	NTP-D278 Set Up Computer for CTC, page 3-2
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	None

Step 1 Connect the modem to the RJ-45 (LAN) port on the TCC2 card or the RJ-45 jack on the MIC-C/T/P FMEC.

Step 2 While referring to the modem documentation, complete the following tasks to provision the modem for the ONS 15454 SDH:

- For CTC access, set the modem for Ethernet access.
- Assign an IP address to the modem that is on the same subnet as the ONS 15454 SDH.
- The IP address the modem assigns to the CTC computer must be on the same subnet as the modem and the ONS 15454 SDH.

Note For assistance on provisioning specific modems, contact the Cisco Technical Assistance Center. (TAC). See the "Obtaining Documentation and Submitting a Service Request" section on page liii for more information.

Step 3 Continue with the "NTP-D23 Log into the ONS 15454 SDH GUI" procedure on page 3-22.

Stop. You have completed this procedure.

NTP-D23 Log into the ONS 15454 SDH GUI

Purpose	This procedure logs into CTC, the graphical user interface software used to manage the ONS 15454 SDH. This procedure includes optional node login tasks.
Tools/Equipment	None
Prerequisite Procedures	NTP-D278 Set Up Computer for CTC, page 3-2 One of the following procedures: • NTP-D260 Set Up CTC Computer for Local Craft Connection to the ONS 15454 SDH, page 3-8, or • NTP-D261 Set Up a Computer for a Corporate LAN Connection to the ONS 15454 SDH, page 3-19, or • NTP-D262 Set Up a Remote Access Connection to the ONS 15454 SDH, page 3-21
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Retrieve or higher

Step 1 If the computer is not connected to the ONS 15454 SDH or corporate LAN, complete the "DLP-D59 Connect Computer to the ONS 15454 SDH" task on page 3-23 or "NTP-D261 Set Up a Computer for a Corporate LAN Connection to the ONS 15454 SDH" procedure on page 3-19.

Step 2 Complete the "DLP-D60 Log into CTC" task on page 3-24.

Note For information about navigating in CTC, see Appendix A, "CTC Information and Shortcuts."

Step 3 As needed, complete the "DLP-D61 Create Login Node Groups" task on page 3-27. Login node groups display nodes that are not connected to the login node via DCC.

Step 4 As needed, complete the "DLP-D62 Add a Node to the Current Session or Login Group" task on page 3-28.

Step 5 As needed, complete the "DLP-D35 Delete a Node from the Current Session or Login Group" task on page 3-29.

Step 6 As needed, complete the "DLP-D422 Change the JRE Version" task on page 3-29.

Step 7 As needed, complete the "DLP-D25 Configure the CTC Alerts Dialog for Automatic Popup" task on page 3-30.

Stop. You have completed this procedure.

DLP-D59 Connect Computer to the ONS 15454 SDH

Purpose	This task physically connects a CTC computer to the ONS 15454 SDH.
Tools/Equipment	Straight-through (Category 5) LAN cable NIC
Prerequisite Procedures	NTP-D278 Set Up Computer for CTC, page 3-2 and one of the following procedures: • NTP-D260 Set Up CTC Computer for Local Craft Connection to the ONS 15454 SDH, page 3-8, or • NTP-D261 Set Up a Computer for a Corporate LAN Connection to the ONS 15454 SDH, page 3-19, or • NTP-D262 Set Up a Remote Access Connection to the ONS 15454 SDH, page 3-21
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	None

Step 1 If your computer is set up for a local craft connection, connect a straight-through (Category 5) LAN cable from the PC or Solaris workstation NIC to one of the following:

- RJ-45 (LAN) port on the active or standby TCC2 card
- RJ-45 jack on the MIC-C/T/P FMEC
- RJ-45 (LAN) port on a hub or switch to which the ONS 15454 SDH is physically connected

Note For instructions about crimping your own straight-through (Category 5) LAN cables, refer to the *Cisco ONS 15454 SDH Troubleshooting Guide*.

Step 2 If your computer is set up for a corporate LAN connection, connect a straight-through (Category 5) LAN from the PC or Solaris workstation NIC card to a corporate LAN port.

Step 3 Return to your originating procedure (NTP).

DLP-D60 Log into CTC

Purpose	This task logs into CTC.
Tools/Equipment	None
Prerequisite Procedures	NTP-D278 Set Up Computer for CTC, page 3-2 One of the following procedures: • NTP-D260 Set Up CTC Computer for Local Craft Connection to the ONS 15454 SDH, page 3-8, or • NTP-D261 Set Up a Computer for a Corporate LAN Connection to the ONS 15454 SDH, page 3-19, or • NTP-D262 Set Up a Remote Access Connection to the ONS 15454 SDH, page 3-21
Required/As Needed	Required
Onsite/Remote	Onsite or remote
Security Level	Retrieve or higher

Note For information about CTC views and navigation, see Appendix A, "CTC Information and Shortcuts."

Step 1 From the PC connected to the ONS 15454 SDH, start Netscape or Internet Explorer.

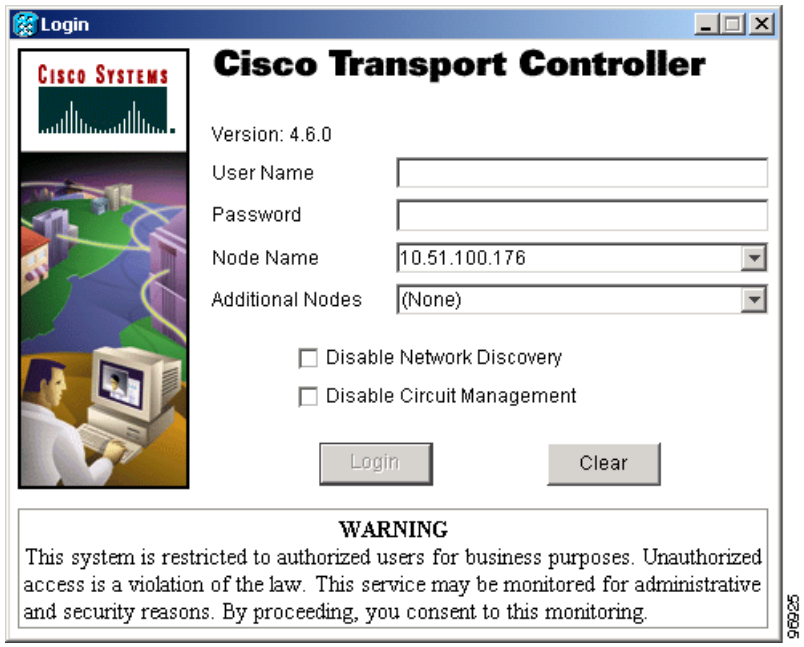
Step 2 In the Netscape or Internet Explorer web address (URL) field, enter the ONS 15454 SDH IP address. For initial setup, this is the default address, 192.1.0.2. (This IP address appears on the LCD. You can suppress the LCD IP address display using CTC. For more information, see the "DLP-D266 Change IP Settings" task on page 12-5.) Press **Enter**.

Note If you are logging into ONS 15454 SDH nodes running different releases of CTC software, log into the node running the most recent release. If you log into a node with an older release, you receive an INCOMPATIBLE-SW alarm and the IP address of the login node appears instead of the node name. To check the software version of a node, select About CTC from the CTC Help menu. To resolve an alarm, refer to the *Cisco ONS 15454 SDH Troubleshooting Guide*.

If a Java Plug-in Security Warning dialog box appears, complete the "DLP-D420 Install Public-Key Security Certificate" task on page 3-26 to install the public-key security certificate required by Software Release 4.1 and later.

After you complete the security certificate dialog box (or if the certificate is already installed), a Java Console window displays the CTC file download status. The web browser displays information about your Java and system environments. If this is the first login, CTC caching messages appear while CTC files are downloaded to your computer. The first time you connect to an ONS 15454 SDH, this process can take several minutes. After the download, the CTC Login dialog box appears (Figure 3-1).

Figure 3-1 Logging into CTC



Step 3 In the Login dialog box, type a user name and password (both are case sensitive). For initial setup, type the user name **CISCO15** and password **otbu+1**.

Note The CISCO15 user is provided with every ONS 15454 SDH. CISCO15 has superuser privileges, so you can create other users. You must create another Superuser before you can delete the CISCO15 user. CISCO15 is delivered with the otbu+1 password. To change the password for CISCO15, click the Provisioning > Security tabs after you log in and change the password. To set up ONS 15454 SDH users and assign security, go to the "NTP-D30 Create Users and Assign Security" procedure on page 4-4. For more information about security, refer to the *Cisco ONS 15454 SDH Reference Manual*.

Step 4 Each time you log into an ONS 15454 SDH, you can make selections on the following login options:

- Node Name—Displays the IP address entered in the web browser and a drop-down menu of previously entered ONS 15454 SDH IP addresses. You can select any ONS 15454 SDH on the list for the login, or you can enter the IP address (or node name) of any new node where you want to log in.
- Additional Nodes—Displays a list of current login node groups. To create a login node group or add additional groups, see the "DLP-D61 Create Login Node Groups" task on page 3-27.

Note The login node group feature supersedes the topology host login feature in found in previous ONS 15454 SDH releases. On upgrade, existing topology host definitions found in by modifying the ctc.ini (Windows) or .ctcrc (UNIX) files are converted to a Topology Host login group.

- Disable Network Discovery—Check this box to view only the ONS 15454 SDH (and login node group members, if any) entered in the Node Name field. Nodes linked to the Node Name ONS 15454 SDH through the DCC are not discovered and will not appear in CTC network view. Using this option can decrease the CTC startup time in networks with many DCC-connected nodes.
- Disable Circuit Management—Check this box to disable discovery of existing circuits. Using this option can decrease the CTC initialization time in networks with many existing circuits. This option does not prevent the creation and management of new circuits.

Step 5 Click **Login**.

If login is successful, the CTC window appears. From here, you can navigate to other CTC views to provision and manage the ONS 15454 SDH. If you need to turnup the shelf for the first time, see Chapter 4, "Turn Up Node." If login problems occur, refer to the *Cisco ONS 15454 SDH Troubleshooting Guide*.

Step 6 Return to your originating procedure (NTP).

DLP-D420 Install Public-Key Security Certificate

Purpose	This task installs the ITU Recommendation X.509 public-key security certificate. The public-key certificate is required to run Software Release 4.1 or later.
Tools/Equipment	None
Prerequisite Procedures	This task is performed during the "DLP-D60 Log into CTC" task on page 3-24. You cannot perform it outside of this task.
Required/As Needed	Required
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Step 1 If the Java Plug-in Security Warning dialog box appears, choose one of the following options.

Note The Java Plug-in Security Warning dialog box options that appear depend on the JRE version you are using. If you installed JRE 1.4.2, you will see the following options: Yes, No, Always, and More Details. If you are using JRE 1.3.1_02, you will see the following options (noted below in parentheses): Grant This Session, Deny, Grant Always, and View Certificate.

- Yes (Grant This Session)—Installs the public-key certificate to your PC only for the current session. After the session is ended, the certificate is deleted. This dialog box will appear the next time you log into the ONS 15454.
- No (Deny)—Denies permission to install certificate. If you choose this option, you cannot log into the ONS 15454.
- Always (Grant Always)—Installs the public-key certificate and does not delete it after the session is over. Cisco recommends this option.
- More Details (View Certificate)—Allows you to view the public-key security certificate.

Step 2 If the Login dialog box appears, continue with Step 3. If the Change Java Policy File dialog box appears, complete this step. The Change Java Policy File dialog box appears if CTC finds a modified Java policy file (.java.policy) on your PC. In Software R4.0 and earlier, the Java policy file was modified to allow CTC software files to be downloaded to your PC. The modified Java policy file is not needed in ONS 15454 SDH nodes running software earlier than Software R4.1. Choose one of the following options:

- **Yes**—Removes the modified Java policy file from your PC. Choose this option only if you will log into ONS 15454 SDH nodes running Software R4.1 software or later.
- **No**—Does not remove the modified Java policy file from your PC. Choose this option if you will log into ONS 15454 SDH nodes running Software R4.0 or earlier. If you choose No, this dialog box will appear every time you log into the ONS 15454. If you do not want it to appear, check the **Do not show the message again** check box.

Caution If you delete the Java policy file, you cannot log into nodes running Software R4.0 and earlier. If you delete the file and want to log into an ONS 15454 SDH running an earlier release, insert the software CD for the release into your PC CD-ROM and run the CTC setup wizard to reinstall the Java policy file.

Step 3 Return to your originating procedure (NTP).

DLP-D61 Create Login Node Groups

Purpose	This task creates a login node group to display ONS 15454 SDHs that have an IP connection but not a DCC connection to the login node.
Tools/Equipment	None
Prerequisite Procedures	DLP-D60 Log into CTC, page 3-24
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Step 1 From the Edit menu, choose **Preferences**.

Step 2 Click **Login Node Group** and **Create Group**.

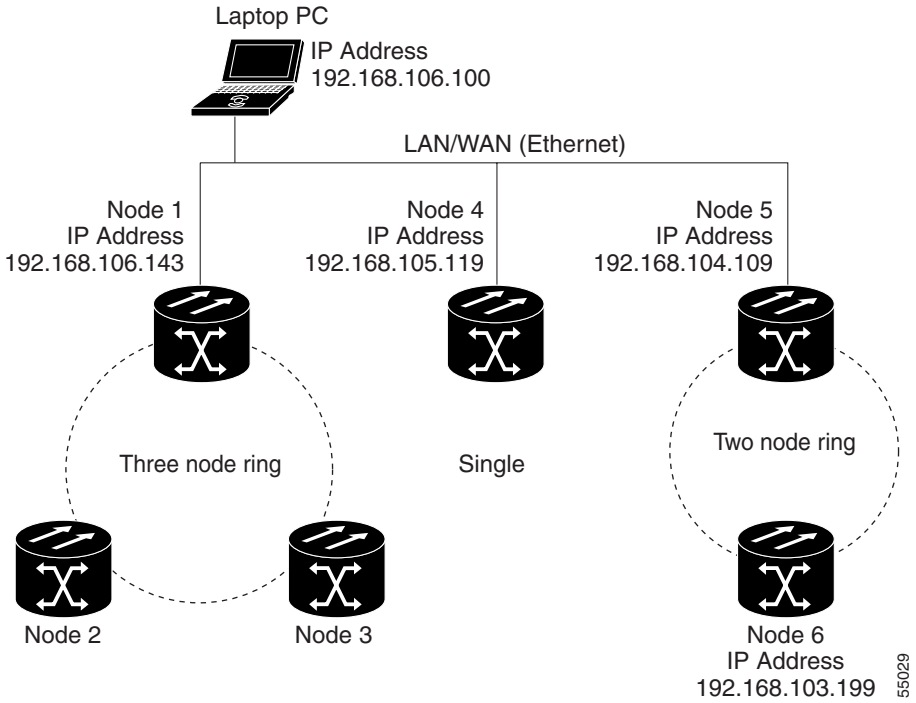
Step 3 Enter a name for the group in the Create Login Group Name dialog box. Click **OK**.

Step 4 In the Members area, type the IP address (or node name) of a node you want to add to the group. Click **Add**. Repeat this step for each node that you want to add to the group.

Step 5 Click **OK**.

The next time you log into an ONS 15454 SDH, the login node group will be available in the Additional Nodes list of the Login dialog box. For example, in Figure 3-2, a login node group, “Test Group,” is created that contains the IP addresses for Nodes 1, 4, and 5. During login, if you select Test Group from the Additional Nodes list and Disable Network Discovery is not selected, all nodes in the figure appear. If Test Group and Disable Network Discovery are both selected, Nodes 1, 4, and 5 appear. You can create as many login groups as you need. The groups are stored in the CTC preferences file and are not visible to other users.

Figure 3-2 Login Node Group



Step 6 Return to your originating procedure (NTP).

DLP-D62 Add a Node to the Current Session or Login Group

Purpose	This task adds a node to the current CTC session or login node group.
Tools	None
Prerequisite Procedures	DLP-D60 Log into CTC, page 3-24
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Step 1 From the CTC File menu, click **Add Node**.

Step 2 In the Add Node dialog box, enter the node name (or IP address).

Step 3 If you want to add the node to the current login group, click **Add node to current login group**. Otherwise, leave it unchecked.

Note This check box is active only if you selected a login group when you logged into CTC.

Step 4 Click **OK**.

After a few seconds, the new node appears on the network view map.

Step 5 Return to your originating procedure (NTP).

DLP-D35 Delete a Node from the Current Session or Login Group

Purpose	This task removes a node from the current CTC session or login node group.
Tools	None
Prerequisite Procedures	DLP-D60 Log into CTC, page 3-24
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Step 1 From the View menu, choose **Go to Network View**.

Step 2 Click the node that you want to delete.

Step 3 From the CTC File menu, click **Delete Selected Node**.

After a few seconds, the node disappears from the network view map.

Step 4 Return to your originating procedure (NTP).

DLP-D422 Change the JRE Version

Purpose	This task selects a new JRE version, which is useful if you would like to upgrade to the JRE 1.4.1 version from 1.3.1_02 without using the software or documentation CD. After selecting the desired JRE version, you must exit CTC. The next time you log into a node, the new JRE version will be used.
Tools	None
Prerequisite Procedures	DLP-D60 Log into CTC, page 3-24
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Step 1 From the Edit menu, choose **Preferences**.

Step 2 Click the **JRE** tab. The JRE tab shows the current JRE version and the recommended version.

Step 3 Click the **Browse** button and navigate to the JRE directory on your computer.

Step 4 Choose the JRE version, such as j2re1.4.2_01.

Step 5 Click **OK**.

Step 6 From the File menu, choose **Exit**.

Step 7 In the confirmation dialog box, click **Yes**.

Step 8 Complete the "DLP-D60 Log into CTC" task on page 3-24.

Step 9 Return to your originating procedure (NTP).

DLP-D25 Configure the CTC Alerts Dialog for Automatic Popup

Purpose	This task sets up the CTC Alerts dialog box to open for all alerts, circuit deletion errors only, or never. The CTC Alerts dialog box displays network disconnection, Send-PDIP inconsistency, circuit deletion status, condition retrieval errors, and software download failure.
Tools	None
Prerequisite Procedures	DLP-D60 Log into CTC, page 3-24
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Step 1 Click the CTC Alerts toolbar icon.

Step 2 In the CTC Alerts dialog box, choose one of the following:

- All alerts—Sets the CTC Alerts dialog box to open automatically for all notifications.
- Error alerts only—Sets the CTC Alerts dialog box to open automatically for circuit deletion errors only.
- Never—Sets the CTC Alerts dialog box to never open automatically.

Step 3 Click **Close**.

Step 4 Return to your originating procedure (NTP).