



## Connect the PC and Log into the GUI

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This chapter explains how to connect PCs and workstations to the Cisco ONS 15454 and how to log into Cisco Transport Controller (CTC) software, the Cisco ONS 15454 Operation, Administration, Maintenance and Provisioning (OAM&P) user interface. The chapter provides procedures for creating a local craft, LAN, and remote modem connection to the ONS 15454. Procedures for connecting to the ONS 15454 using TL1 are provided in the *Cisco ONS 15454 and Cisco ONS 15327 TL1 Command Guide*.



**Note**

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Except where noted, the procedures and tasks in this chapter apply to DWDM (Software Release 4.5) and non-DWDM (Software R4.1 and earlier) nodes.

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### Before You Begin

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

1. [NTP-A21 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-A234 Set Up CTC Computer for Local Craft Connection to the ONS 15454, page 3-10](#)—Complete this procedure to set up your computer for an onsite craft connection to the ONS 15454.
3. [NTP-A235 Set Up a CTC Computer for a Corporate LAN Connection to the ONS 15454, page 3-21](#)—Complete this procedure to set up your computer to connect to the ONS 15454 using a corporate LAN.
4. [NTP-A236 Set Up a Remote Access Connection to the ONS 15454, page 3-23](#)—Complete this procedure to set up your computer for remote modem access to the ONS 15454.
5. [NTP-A23 Log into the ONS 15454 GUI, page 3-24](#)—Complete this procedure to log into CTC.

## NTP-A21 Set Up Computer for CTC

<b>Purpose</b>	This procedure explains how to configure your PC or UNIX workstation to run Cisco Transport Controller (CTC).
<b>Tools/Equipment</b>	Cisco ONS 15454 Release 4.1 or 4.5 software or documentation CD
<b>Prerequisite Procedures</b>	None
<b>Required/As Needed</b>	Required
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	None

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- Step 1** If your computer is a Windows PC, complete the “[DLP-A47 Run the CTC Installation Wizard for Windows](#)” task on page 3-2, then go to [Step 4](#).
- Step 2** If your computer is a UNIX workstation, complete the “[DLP-A48 Run the CTC Installation Wizard for UNIX](#)” task on page 3-7.
- Step 3** If your computer is a UNIX workstation and you installed the Java Runtime Environment (JRE) in [Step 2](#), complete the “[DLP-A49 Set Up the Java Runtime Environment for UNIX](#)” task on page 3-9.
- Step 4** When your PC or workstation is set up, continue with one of the following procedures:
- [NTP-A234 Set Up CTC Computer for Local Craft Connection to the ONS 15454](#), page 3-10
  - [NTP-A235 Set Up a CTC Computer for a Corporate LAN Connection to the ONS 15454](#), page 3-21
  - [NTP-A236 Set Up a Remote Access Connection to the ONS 15454](#), page 3-23

**Stop. You have completed this procedure.**

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## DLP-A47 Run the CTC Installation Wizard for Windows

<b>Purpose</b>	This task installs CTC online help as well as programs required to run CTC on Windows PCs: Netscape 4.73 and JRE 1.3.1_02.
<b>Tools/Equipment</b>	Cisco ONS 15454 Release 4.1 or 4.5 software or documentation CD
<b>Prerequisite Procedures</b>	None
<b>Required/As Needed</b>	This task is required if any one of the following is true: <ul style="list-style-type: none"> <li>• Netscape Release 4.73 or later or Internet Explorer Release 4.0 (service pack 2) or later is not installed</li> <li>• JRE 1.3.1_02 is not installed</li> <li>• CTC online help is not installed and is needed</li> </ul>
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	None

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- Step 1** Verify that your computer has the following:
- Processor—Pentium II, 300 Mhz or faster.
  - RAM—128 MB.

- Hard drive—2 GB is recommended. 50 MB of space must be available.
- Operating System—Windows 95, 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.
- CD drive.



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**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 Reference Manual* for computer requirements needed for small, medium, and large ONS 15454 networks.

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**Step 2** Insert the Cisco ONS 15454 Release 4.1 or 4.5 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**.

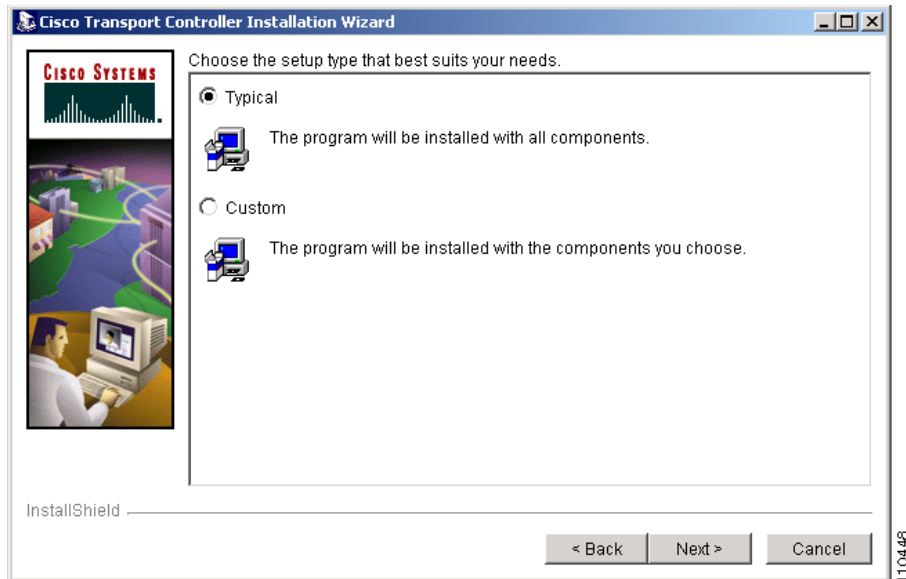
The Cisco Transport Controller Installation Wizard displays the components that will be installed on your computer.

**Step 3** Click **Next**.

**Step 4** Complete one of the following (Figure 3-1):

- Choose **Typical** to install Netscape Communicator, CTC online help, and the Java Runtime Environment.
- Choose **Custom** to install one or two of the following components:
  - Netscape Communicator
  - CTC online help
  - Java Runtime Environment

Figure 3-1 Choosing Setup Type in the CTC Installation Wizard

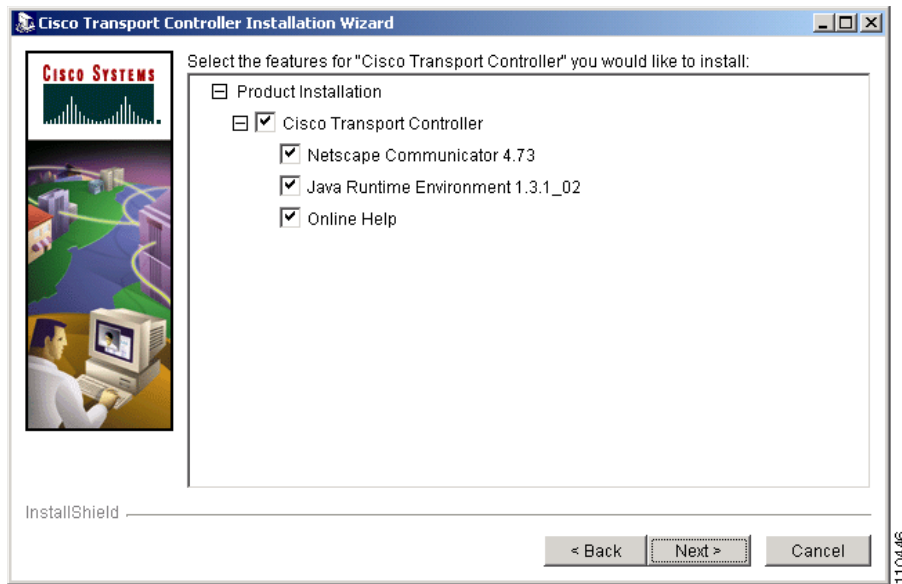


**Step 5** Click **Next**.

**Step 6** Complete the following, as applicable:

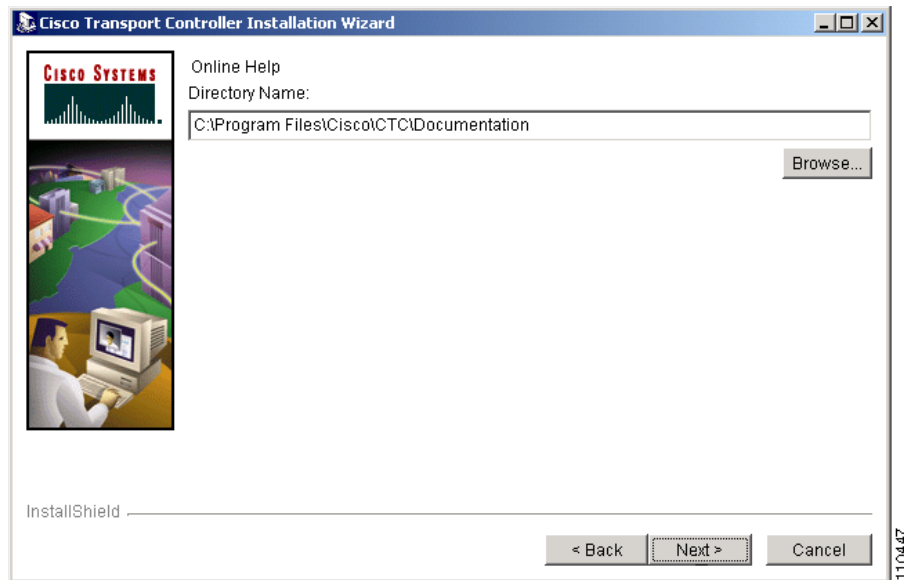
- If you selected **Typical**, skip this step and proceed to [Step 7](#).
- If you selected **Custom** in [Step 4](#), select the CTC components you want to install and click **Next** ([Figure 3-2](#)).
  - If you selected CTC online help, proceed to [Step 7](#).
  - If you did not select CTC online help, proceed to [Step 9](#).

Figure 3-2 Choosing CTC Components in the CTC Installation Wizard



- Step 7** The directory where the installation wizard will install CTC online help appears (Figure 3-3). The default is C:\Program Files\Cisco\CTC\Documentation.
- If you do not want to change the directory, skip this step and proceed to Step 8.
  - 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.

**Figure 3-3 Viewing the CTC Online Help Directory in the CTC Installation Wizard**



- Step 8** Click **Next**.
- Step 9** Review the components that will be installed.
- If you want to change the components, complete one of the following:
    - 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.
  - If Netscape Communicator is a selected component, close any active CTC sessions (for example, if you are monitoring alarms or conditions) and proceed to Step 10.
  - If you selected Custom in Step 4 and did not select Netscape Communicator in Step 6, proceed to Step 14.
- Step 10** Click **Next**.  
An Installation Issues dialog box appears.
- Step 11** Review the issues, then click **OK**. The InstallShield program begins the Netscape Communicator 4.73 Setup program.
- Step 12** Complete the Netscape installation:
- In the Netscape Communicator 4.73 Setup dialog box, click **Next**.
  - In the Software License Agreement dialog box, click **Yes**.
  - In the Setup Type dialog box, click **Typical**, then click **Next**.




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**Note** If the Netscape installation hangs when installing RealPlayer G2, restart the CTC installation by pressing **Ctrl-Alt-Del**. In the Windows Security dialog box, click **Task Manager**. In the Windows Task Manager dialog box, click **Cisco Transport Controller Installation Wizard**, then click the **End Task** button. Click **Yes** in the confirmation dialog box. Navigate to the drive containing the CTC CD and double-click **CTC.exe**. Repeat Steps 1 to 11. At Step 12, Step c, click **Custom**, then click **Next**. At the next panel, deselect RealPlayer. Continue with Step d.

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- d. In the Netscape Desktop Preferences Options dialog box, check the boxes that apply according to your site requirements (these options do not affect CTC operation), then click **Next**.
- e. In the Select Program Folder dialog box, click **Next**.
- f. In the Start Copying Files dialog box, click **Install**. The program begins the Netscape installation.
- g. In the Question dialog box, click **No**.
- h. In the Information dialog box, click **OK**.
- i. In the Restarting Windows dialog box, click **No, I will restart later**, then click **OK**.

**Step 13** Close the Netscape Communicator directory window to display the Cisco Transport Controller Installation Wizard dialog box.

**Step 14** In the CTC Installation Wizard dialog box, click **Next**. The Java 2 runtime environment installation begins.

**Step 15** At the confirmation dialog box, click **OK**.

**Step 16** Complete the JRE installation:

- a. In the Software License Agreement dialog box, click **Yes**.
- b. In the Choose Destination Location dialog box, click **Next**.
- c. In the Select Browser dialog box, complete one of the following and click **Next**:
  - If you want the JRE installed to be the default for Internet Explorer and/or Netscape, check the **Microsoft Internet Explorer** and/or **Netscape 6** check boxes.
  - If you do not want the JRE installed to be the default for Internet Explorer and/or Netscape, uncheck the **Microsoft Internet Explorer** and **Netscape 6** check boxes.

When JRE installation is complete, the Cisco Transport Controller Installation Wizard dialog box appears.

**Step 17** Click **Next**. The CTC online help is installed.

**Step 18** Click **Finish**.

**Step 19** Return to your originating procedure (NTP).

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## DLP-A48 Run the CTC Installation Wizard for UNIX

<b>Purpose</b>	This task installs CTC online help and programs required to run CTC on Solaris workstations: Netscape 4.76 and JRE 1.3.1_02.
<b>Tools/Equipment</b>	Cisco ONS 15454 Release 4.1 software or documentation CD
<b>Prerequisite Procedures</b>	None
<b>Required/As Needed</b>	Required if any of the following are true: <ul style="list-style-type: none"> <li>• Netscape Release 4.76 is not installed.</li> <li>• JRE 1.3.1_02 is not installed.</li> <li>• CTC online help is not installed and is needed.</li> </ul>
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	None

**Step 1** Verify that your computer has the following:

- RAM—128 MB.
- Hard drive—Verify that 50 MB of space is available.
- Operating System—Solaris 2.5.x or 2.6.x.



**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 Reference Manual* for computer requirements needed for small, medium, and large ONS 15454 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:

- Netscape Communicator 4.76.
- Java Runtime Environment 1.3.1\_02.
- CTC Online Help.

**Step 4** Click **Next**.

**Step 5** Complete one of the following:

- Choose **Typical** to install Netscape Communicator, CTC online help, and the Java Runtime Environment.
- Choose **Custom** if you only want to install one or two of these components.

**Step 6** Click **Next**.

**Step 7** Complete the following, as applicable:

- If you selected **Typical**, skip this step and proceed to [Step 8](#).

- If you selected **Custom** in [Step 5](#), select the CTC components you want to install and click **Next**. Complete one of the following:
    - If you selected CTC online help, proceed to [Step 8](#).
    - If you did not select online help, proceed to [Step 10](#).
- Step 8** The directory where the installation wizard will install CTC online help appears. The default is C:\Program Files\Cisco\CTC\Documentation. 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 9** Click **Next**.
- Step 10** Review the components that will be installed. Complete the following, as applicable:
- If you want 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) you reach the component selection panel and check the desired components. Repeat Steps 7 through 9.
  - If Netscape Communicator is a selected component, close any active CTC sessions (for example, if you are monitoring alarms or conditions) and proceed to [Step 11](#).
  - If you selected **Custom** in [Step 5](#) and did not select Netscape Communicator in [Step 7](#), proceed to [Step 13](#).
- Step 11** Click **Next**. The InstallShield program begins the Netscape Communicator 4.76 Setup program.
- Step 12** Complete the Netscape installation:
- a. In the Netscape Communicator 4.76 Setup dialog box, click **Next**.
  - b. In the Software License Agreement dialog box, click **Yes**.
  - c. In the Setup Type dialog box, click **Typical**.
  - d. In the Netscape Desktop Preferences dialog box, check the boxes that apply, then click **Next**.
  - e. In the Program Folder dialog box, click **Next**.
  - f. In the Start Copying Files dialog box, click **Install**. The program begins the Netscape installation.
  - g. In the Question dialog box, click **No**.
- Step 13** In the Cisco Transport Controller Installation Wizard dialog box, click **Next**. The Java 2 runtime environment installation begins.
- Step 14** Complete the JRE installation:
- a. In the Software License Agreement dialog box, click **Yes**.
  - b. In the Choose Destination Location dialog box, click **Next**.
  - c. Complete one of the following and click **Next**:
    - In the Select Browser dialog box, if you want the JRE installed to be the default for Netscape, check the **Netscape 6** check box.
    - If you do not want the JRE installed to be the default for Netscape, uncheck the **Netscape 6** check box.
- When JRE installation is complete, the Cisco Transport Controller Installation Wizard dialog box appears.
- Step 15** Click **Next**. The CTC online help is installed.

**Step 16** Click **Finish**.



**Note** Be sure to record the names of the directories you choose for Netscape, JRE, and the online documentation.

**Step 17** Return to your originating procedure (NTP).

## DLP-A49 Set Up the Java Runtime Environment for UNIX

<b>Purpose</b>	This task sets up the JRE for UNIX workstations.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">DLP-A48 Run the CTC Installation Wizard for UNIX, page 3-7</a>
<b>Required/As Needed</b>	Required if you installed the JRE during the CTC installation
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	None



**Note** The JRE might require certain patches to run properly. The patch tar file can be found in the JRE/Solaris directory on the CD. Please read the JRE/Solaris/Solaris.txt file for more information. In addition to installing any needed patches, set up the JRE for use with Cisco Transport Controller on your UNIX system.



**Note** CTC requires that the location of xterm is also in your path. If you have moved xterm from its default location, /usr/openwin/bin, you must change all occurrences of /usr/openwin/bin in the following procedures to reflect the actual path where xterm exists on your system.

**Step 1** Set up the environment variable:



**Note** Whenever you see a path name in brackets, for example *<Netscape-path>*, insert the path to the application on your computer.

- a. If you are using the csh shell, edit the .cshrc file in your home directory by appending the file with the lines:

```
setenv JRE <JRE-path>
setenv NETSCAPE <Netscape-path>
setenv NPX_PLUGIN_PATH $JRE/j2re1_3_1_02/plugin/sparc/ns4
set path = ( /usr/openwin/bin $NETSCAPE $path)
```

- b. If you are using the ksh or bash shell, edit the .profile file in your home directory by appending the file with the lines:

```
JRE=<JRE-path>
NETSCAPE=<Netscape-path>
```

```
NPX_PLUGIN_PATH=$JRE/j2re1_3_1_02/plugin/sparc/ns4
PATH=/usr/openwin/bin:$NETSCAPE:$PATH
export JRE NPX_PLUGIN_PATH PATH
```

**Step 2** Set the JRE reference:

- a. Run the Control Panel by typing:

```
<JRE-path>/j2re1_3_0_02/bin/ControlPanel
```

- b. Click the **Advanced** tab.

- c. From the combo box, select *JRE-path/j2re1\_3\_1\_02*. If the JRE is not found, select **other** and enter the following in the Path text box:

```
<JRE-path>/j2re1_3_1_02
```

- d. Click **Apply**.



**Note** If you are running multiple shells, before your new environment variable is set you might need to invoke the same shell for which you changed the initialization file. For example, if you added the environment variable to the .cshrc file, you must run your browser under the csh shell.

**Step 3** Return to your originating procedure (NTP).

## NTP-A234 Set Up CTC Computer for Local Craft Connection to the ONS 15454

<b>Purpose</b>	This procedure explains how to set up a PC running Windows or a Solaris workstation for an onsite local craft connection to the ONS 15454.
<b>Tools/Equipment</b>	Depends on connection type
<b>Prerequisite Procedures</b>	<a href="#">NTP-A21 Set Up Computer for CTC, page 3-2</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	None

**Step 1** Complete one of the CTC computer setup tasks shown in [Table 3-1](#) based your CTC connection environment.



**Note** If you are connecting to an ONS 15454 to perform initial node turnup, complete the “[DLP-A50 Set Up a Windows PC for Craft Connection to an ONS 15454 on the Same Subnet Using Static IP Addresses](#)” task on page 3-12 or the “[DLP-A52 Set Up a Windows PC for Craft Connection to an ONS 15454 Using Automatic Host Detection](#)” task on page 3-16.

**Table 3-1 CTC Computer Setup for Local Craft Connections to the ONS 15454**

CTC Connection Environment	CTC Computer Setup Task
<ul style="list-style-type: none"> <li>You are connecting from a Windows PC.</li> <li>All nodes that you will access run software earlier than Release 3.3.</li> <li>You will connect to one ONS 15454.</li> <li>You need to access non-ONS 15454 applications such as ping and tracert.</li> </ul>	<p><a href="#">“DLP-A50 Set Up a Windows PC for Craft Connection to an ONS 15454 on the Same Subnet Using Static IP Addresses”</a> task on page 3-12</p>
<ul style="list-style-type: none"> <li>You are connecting from a Windows PC.</li> <li>The CTC computer is provisioned for DHCP.</li> <li>The ONS 15454 has DHCP forwarding enabled.</li> <li>The ONS 15454 is connected to a DHCP server.</li> </ul> <p><b>Note</b> The ONS 15454 does not provide IP addresses. If DHCP is enabled, it passes DHCP requests to an external DHCP server.</p>	<p><a href="#">“DLP-A51 Set Up a Windows PC for Craft Connection to an ONS 15454 Using DHCP”</a> task on page 3-14</p> <p><b>Note</b> Do not use this task for initial node turnup. Use this task only if DHCP forwarding is enabled on the ONS 15454. By default, DHCP is not enabled. To enable it, see the <a href="#">“NTP-A169 Set Up CTC Network Access”</a> procedure on page 4-8. To connect to a node for initial turnup, use one of the other tasks listed in this table.</p>
<ul style="list-style-type: none"> <li>You are connecting from a Windows PC.</li> <li>All nodes that you will access run software Release 3.3 or later.</li> <li>You will connect to ONS 15454s at different locations and times and do not wish to reconfigure your PC’s IP settings each time.</li> <li>You will not access or use non-ONS 15454 applications such as ping and tracert.</li> <li>You will connect to the ONS 15454 TCC+/TCC2 Ethernet port or backplane LAN pins either directly or through a hub.</li> </ul>	<p><a href="#">“DLP-A52 Set Up a Windows PC for Craft Connection to an ONS 15454 Using Automatic Host Detection”</a> task on page 3-16</p>
<ul style="list-style-type: none"> <li>You are connecting from a Solaris Workstation.</li> <li>You will connect to one ONS 15454.</li> <li>You need to access non-ONS 15454 applications such as ping and traceroute.</li> </ul>	<p><a href="#">“DLP-A53 Set Up a Solaris Workstation for a Craft Connection to an ONS 15454”</a> task on page 3-19</p>

**Step 2** After setting up your CTC computer, continue with [“NTP-A23 Log into the ONS 15454 GUI”](#) procedure on page 3-24.

**Stop. You have completed this procedure.**

## DLP-A50 Set Up a Windows PC for Craft Connection to an ONS 15454 on the Same Subnet Using Static IP Addresses

<b>Purpose</b>	This task sets up your computer for a local craft connection to the ONS 15454 when: <ul style="list-style-type: none"> <li>You will access nodes running software releases earlier than Release 3.3.</li> <li>You will connect to one ONS 15454; if you will connect to multiple ONS 15454s, you might need to reconfigure your computer's IP settings each time you connect to an ONS 15454.</li> <li>You need to use non-ONS 15454 applications such as ping and trace route.</li> </ul>
<b>Tools/Equipment</b>	Network interface card (NIC), also referred to as an Ethernet card
<b>Prerequisite Procedures</b>	<a href="#">NTP-A21 Set Up Computer for CTC, page 3-2</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite
<b>Security Level</b>	None

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- Step 1** Verify the operating system that is installed on your computer:
- From the Windows Start menu, choose **Settings > Control Panel**.
  - In the Control Panel window, double-click the **System** icon.
  - On the General tab of the System Settings window, verify that the Windows operating system is one of the following: Windows 95, 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 95 or 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** Complete this step for Windows 95 or 98:
- From the Windows Start menu, choose **Settings > Control Panel**.
  - In the Control Panel dialog box, click the **Network** icon.
  - In the Network dialog box, select **TCP/IP** for your NIC, then click **Properties**.
  - In the TCP/IP Properties dialog box, click the **DNS Configuration** tab and choose **Disable DNS**.
  - Click the **WINS Configuration** tab and choose **Disable WINS Resolution**.
  - Click the **IP Address** tab.
  - In the IP Address window, click **Specify an IP address**.
  - In the IP Address field, enter an IP address that is identical to the ONS 15454 IP address except for the last three digits. The last three digits must be between 1 and 254. This IP address is displayed on the LCD unless its display is suppressed during node provisioning.

- i. In the Subnet Mask field, type the same subnet mask as the ONS 15454. 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 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**.
- o. Return to your originating procedure (NTP).

**Step 4** Complete this step for Windows NT 4.0:

- 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 IP address shown on the ONS 15454 LCD except for the last three digits. The last three digits must be between 1 and 254.
- g. In the Subnet Mask field, type **255.255.255.0**.
- h. Click **Advanced**.
- i. In the Gateways List, click **Add**. The TCP/IP Gateway Address dialog box is displayed.
- j. Type the ONS 15454 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**.
- o. Return to your originating procedure (NTP).

**Step 5** Complete this step for Windows 2000:

- 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. On 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 IP address shown on the ONS 15454 LCD except for the last three digits. The last three digits must be between 1 and 254.
- f. In the Subnet Mask field, type **255.255.255.0**.
- g. In the Default Gateway field, type the ONS 15454 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**.

k. Return to your originating procedure (NTP).

**Step 6** Complete this step for Windows XP:

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 IP address shown on the ONS 15454 LCD except for the last three digits. The last three digits must be between 1 and 254.

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

f. In the Default Gateway field, type the ONS 15454 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**.

j. Return to your originating procedure (NTP).

## DLP-A51 Set Up a Windows PC for Craft Connection to an ONS 15454 Using DHCP

<b>Purpose</b>	This task sets up your computer for craft connection to the ONS 15454 using DHCP.
<b>Tools/Equipment</b>	Straight-through (Category 5) LAN cable NIC
<b>Prerequisite Procedures</b>	<a href="#">NTP-A21 Set Up Computer for CTC, page 3-2</a> <a href="#">NTP-A169 Set Up CTC Network Access, page 4-8</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite
<b>Security Level</b>	None



**Note**

Do not use this task for initial node turnup. Use the task only if DHCP forwarding is enabled on the ONS 15454. By default, DHCP is not enabled. To enable it, see the [“NTP-A169 Set Up CTC Network Access” procedure on page 4-8](#).



**Note**

The ONS 15454 does not provide the IP addresses. If DHCP forwarding is enabled, it passes DHCP requests to an external DHCP server.

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- Step 1** Verify the operating system that is installed on your computer:
- From the Windows Start menu, choose **Settings > Control Panel**.
  - In the Control Panel window, double-click the **System** icon.
  - On the General tab of the System Settings window, verify that the Windows operating system is one of the following: Windows 95, 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 95 or 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** Complete this step for Windows 95 or 98:
- From the Windows Start menu, choose **Settings > Control Panel**.
  - In the Control Panel dialog box, click the **Network** icon.
  - In the Network dialog box, select **TCP/IP** for your NIC, then click **Properties**.
  - In the TCP/IP Properties dialog box, click the **DNS Configuration** tab and choose **Disable DNS**.
  - Click the **WINS Configuration** tab and choose **Disable WINS Resolution**.
  - Click the **IP Address** tab.
  - In the IP Address window, click **Obtain an IP address from a DHCP Server**.
  - Click **OK**.
  - When the prompt to restart your PC appears, click **Yes**.
  - Return to your originating procedure (NTP).
- Step 4** Complete this step for Windows NT 4.0:
- From the Windows Start menu, choose **Settings > Control Panel**.
  - In the Control Panel dialog box, click the **Network** icon.
  - In the Network dialog box, click the **Protocols** tab, choose **TCP/IP Protocol**, then click **Properties**.
  - Click the **IP Address** tab.
  - In the IP Address window, click **Obtain an IP address from a DHCP Server**.
  - Click **OK**.
  - Click **Apply**.
  - If Windows prompts you to restart your PC, click **Yes**.
  - Return to your originating procedure (NTP).
- Step 5** Complete this step for Windows 2000:
- From the Windows Start menu, choose **Settings > Network and Dial-up Connections > Local Area Connection**.
  - In the Local Area Connection Status dialog box, click **Properties**.
  - On the General tab, choose **Internet Protocol (TCP/IP)**, then click **Properties**.
  - 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**.
- h. Return to your originating procedure (NTP).

**Step 6** Complete this step for Windows XP:

- 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. On 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**.
  - i. Return to your originating procedure (NTP).
- 

## DLP-A52 Set Up a Windows PC for Craft Connection to an ONS 15454 Using Automatic Host Detection

<b>Purpose</b>	This task sets up your computer for local craft connection to the ONS 15454 when: <ul style="list-style-type: none"> <li>• You will connect to the ONS 15454's Ethernet port or backplane LAN pins either directly or through a hub.</li> <li>• All nodes that you will access are running software Release 3.3 or later.</li> <li>• You will connect to multiple ONS 15454s and do not want to reconfigure your IP address each time.</li> <li>• You do not need to access non-ONS 15454 applications such as ping and tracert.</li> </ul>
<b>Tools/Equipment</b>	NIC
<b>Prerequisite Procedures</b>	<a href="#">NTP-A21 Set Up Computer for CTC, page 3-2</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite
<b>Security Level</b>	None

**Note**

If you are using automatic host detection and you disconnect the LAN cable from one node and connect it to another node, you must close CTC and relaunch it to reconnect to the proxy server and communicate with the new node.

**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 95, 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 95 or 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** Complete this step for Windows 95 or 98:

- 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. See the “[DLP-A60 Log into CTC](#)” task on page 3-26 for the default IP address.
- i. In the Subnet Mask field, type the same subnet mask as the ONS 15454. 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 g. 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**.
- o. Return to your originating procedure (NTP).

- Step 4** Perform this step for Windows NT 4.0:
- 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. See the “[DLP-A60 Log into CTC](#)” task on page 3-26 for the default IP address.
  - g. In the Subnet Mask field, type the same subnet mask as the ONS 15454. 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 is displayed.
  - 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.
  - o. Return to your originating procedure (NTP).
- Step 5** Complete this step for Windows 2000:
- 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. On 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. See the “[DLP-A60 Log into CTC](#)” task on page 3-26 for the default IP address.
  - f. In the Subnet Mask field, type the same subnet mask as the ONS 15454. 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**.
  - k. Return to your originating procedure (NTP).
- Step 6** Complete this step for Windows XP:
- 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. See the “[DLP-A60 Log into CTC](#)” task on page 3-26 for the default IP address.
- e. In the Subnet Mask field, type the same subnet mask as the ONS 15454. 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**.
- j. Return to your originating procedure (NTP).

## DLP-A53 Set Up a Solaris Workstation for a Craft Connection to an ONS 15454

<b>Purpose</b>	This task sets up a Solaris workstation for a craft connection to the ONS 15454.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">NTP-A21 Set Up Computer for CTC</a> , page 3-2
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite
<b>Security Level</b>	None

**Step 1** Log into the workstation as the root user.

**Step 2** Check to see if the interface is plumbed.

- a. Type `# 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 10.20.30.40 netmask 255.255.255.0 up
```




---

**Note** Enter an IP address that is identical to the ONS 15454 IP address except for the last three digits. The last group of digits must be between 1 and 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 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-A60 Log into CTC](#)” task on [page 3-26](#) to complete the login. If the Login dialog box does not appear, complete Steps **c** to **d**.
- c. At the prompt, type: **ping ONS-15454-IP-address**

For example, to connect to an ONS 15454 with a default IP address of 192.168.1.1, type:

```
ping 192.168.1.1
```

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

```
IP-address is alive
```




---

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

---

- d. If CTC is not responding, a “Request timed out” (Windows) or a “no answer from x.x.x.x” (Unix) message appears. Verify the IP and subnet mask information. Check that the cables connecting the workstation to the ONS 15454 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-A235 Set Up a CTC Computer for a Corporate LAN Connection to the ONS 15454

<b>Purpose</b>	This procedure sets up your computer to access the ONS 15454 through a corporate LAN. To complete this procedure: <ul style="list-style-type: none"> <li>• The ONS 15454 must be provisioned for LAN connectivity, including IP address, subnet mask, default gateway.</li> <li>• The ONS 15454 must be physically connected to the corporate LAN.</li> <li>• The CTC computer must be connected to the corporate LAN that has connectivity to the ONS 15454.</li> </ul>
----------------	--

<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">NTP-A21 Set Up Computer for CTC</a> , page 3-2
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	None

- 
- Step 1** If your computer is already connected to the corporate LAN, go to [Step 2](#). If you changed your computer's network settings for craft access to the ONS 15454, 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 95 or 98) or "Obtain an IP address from a DHCP server" (Windows NT 4.0, 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 nodes as exceptions. To disable proxy service, complete one of the following tasks, depending on the web browser that you use:
- [DLP-A56 Disable Proxy Service Using Internet Explorer \(Windows\)](#), page 3-22
  - [DLP-A57 Disable Proxy Service Using Netscape \(Windows and UNIX\)](#), page 3-22
- Stop. You have completed this procedure.**
-

## DLP-A56 Disable Proxy Service Using Internet Explorer (Windows)

<b>Purpose</b>	This task disables proxy service for PCs running Internet Explorer.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	None
<b>Required/As Needed</b>	Required if your computer is connected to a network computer proxy server and your browser is Internet Explorer.
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	None

---

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



**Note** If your computer is running Windows XP, you can select Control Panel directly from the Start menu. Make sure that 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 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 15454s on your network. Click **OK** to close each open dialog box.

**Step 5** Return to your originating procedure (NTP).

---

## DLP-A57 Disable Proxy Service Using Netscape (Windows and UNIX)

<b>Purpose</b>	This task disables proxy service for PCs and UNIX workstations running Netscape.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	None
<b>Required/As Needed</b>	Required if your computer is connected to a network computer proxy server and your browser is Netscape.
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	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** On the right side of the Preferences dialog box under Proxies, perform 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 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-A236 Set Up a Remote Access Connection to the ONS 15454

<b>Purpose</b>	This procedure connects an ONS 15454 using a LAN modem. To complete this procedure: <ul style="list-style-type: none"> <li>• A modem must be connected to the ONS 15454.</li> <li>• The modem must be provisioned for ONS 15454. To run CTC, the modem must be provisioned for Ethernet access.</li> </ul>
<b>Tools/Equipment</b>	Modem and modem documentation
<b>Prerequisite Procedures</b>	<a href="#">NTP-A21 Set Up Computer for CTC, page 3-2</a>
<b>Required/As Needed</b>	Required to access the Cisco Transport Controller
<b>Onsite/Remote</b>	Onsite
<b>Security Level</b>	None

---

- Step 1** Connect the modem to the RJ-45 (LAN) port on the TCC+/TCC2 card or to the LAN pins on the ONS 15454 backplane.
- Step 2** While referring to the modem documentation, complete the following tasks to provision the modem for the ONS 15454:
- 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.
  - The IP address the modem assigns to the CTC computer must be on the same subnet as the modem and the ONS 15454.



**Note** For assistance on provisioning specific modems, contact the Cisco Technical Assistance Center.

---

**Stop. You have completed this procedure.**

---

## NTP-A23 Log into the ONS 15454 GUI

<b>Purpose</b>	This procedure logs into the Cisco Transport Controller, the graphical user interface software used to manage the ONS 15454. This procedure includes optional node login tasks.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<p><a href="#">NTP-A21 Set Up Computer for CTC</a>, page 3-2</p> <p>One of the following procedures:</p> <ul style="list-style-type: none"> <li>• <a href="#">NTP-A234 Set Up CTC Computer for Local Craft Connection to the ONS 15454</a>, page 3-10. or</li> <li>• <a href="#">NTP-A235 Set Up a CTC Computer for a Corporate LAN Connection to the ONS 15454</a>, page 3-21, or</li> <li>• <a href="#">NTP-A236 Set Up a Remote Access Connection to the ONS 15454</a>, page 3-23</li> </ul>
<b>Required/As Needed</b>	Required to access the Cisco Transport Controller
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Retrieve or higher

---

**Step 1** If the computer does not have a physical connection to the ONS 15454, complete the “[DLP-A59 Connect Computer to the ONS 15454](#)” task on page 3-25.

**Step 2** Complete the “[DLP-A60 Log into CTC](#)” task on page 3-26.




---

**Note** For information about navigating in CTC, see [Appendix A, “CTC Information and Shortcuts.”](#)

---

**Step 3** As needed, complete the “[DLP-A61 Create Login Node Groups](#)” task on page 3-30. Login node groups allow you to manage nodes that are not connected to the login node via DCC.

**Step 4** As needed, complete the “[DLP-A62 Add a Node to the Current Session or Login Group](#)” task on page 3-31.

**Stop. You have completed this procedure.**

---

## DLP-A59 Connect Computer to the ONS 15454

<b>Purpose</b>	This task connects a CTC computer to the ONS 15454.
<b>Tools/Equipment</b>	Straight-through (Category 5) LAN cable NIC
<b>Prerequisite Procedures</b>	<a href="#">NTP-A21 Set Up Computer for CTC</a> , page 3-2 and one of the following procedures: <ul style="list-style-type: none"> <li>• <a href="#">NTP-A234 Set Up CTC Computer for Local Craft Connection to the ONS 15454</a>, page 3-10. or</li> <li>• <a href="#">NTP-A235 Set Up a CTC Computer for a Corporate LAN Connection to the ONS 15454</a>, page 3-21, or</li> <li>• <a href="#">NTP-A236 Set Up a Remote Access Connection to the ONS 15454</a>, page 3-23</li> </ul>
<b>Required/As Needed</b>	Required to access the Cisco Transport Controller
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	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 TCC+/TCC2 card
  - RJ-45 (LAN) port on a hub or switch to which the ONS 15454 is physically connected




---

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

---




---

**Note** For initial shelf turn up, you should connect your PC directly to the LAN port on the TCC+/TCC2 card of the ONS 15454.

---

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

- Step 3** Return to your originating procedure (NTP).
-

## DLP-A60 Log into CTC

<b>Purpose</b>	This task logs into the Cisco Transport Controller, the graphical user interface software used to manage the ONS 15454.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<p><a href="#">NTP-A21 Set Up Computer for CTC</a>, page 3-2</p> <p>One of the following procedures:</p> <ul style="list-style-type: none"> <li>• <a href="#">NTP-A234 Set Up CTC Computer for Local Craft Connection to the ONS 15454</a>, page 3-10, or</li> <li>• <a href="#">NTP-A235 Set Up a CTC Computer for a Corporate LAN Connection to the ONS 15454</a>, page 3-21, or</li> <li>• <a href="#">NTP-A236 Set Up a Remote Access Connection to the ONS 15454</a>, page 3-23</li> </ul> <p><a href="#">DLP-A59 Connect Computer to the ONS 15454</a>, page 3-25</p>
<b>Required/As Needed</b>	Required
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	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, start Netscape or Internet Explorer.
- Step 2** In the Netscape or Internet Explorer web address (URL) field, enter the ONS 15454 IP address. For initial setup, this is the default IP address, 192.1.0.2. (This IP address can be displayed on the LCD. Software R4.0 allows suppressing the LCD IP address display.) Press **Enter**.


**Note**

If you are logging into ONS 15454 nodes running different releases of CTC software, log into the node running the most recent release. If you log into a node running an older release, you will receive an INCOMPATIBLE-SW alarm for each node in the network running a new release, and CTC will not be able to manage these nodes. 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 Troubleshooting Guide*.

If a Java Plug-in Security Warning dialog box appears, complete the [“DLP-A418 Install Public-Key Security Certificate” task on page 3-28](#) 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, this process can take several minutes. After the download, the CTC Login dialog box appears ([Figure 3-4](#)).

Figure 3-4 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.”



**Note** The CISCO15 user is provided with every ONS 15454. 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 without a password. To create a password for CISCO15, click the Provisioning > Security tabs after you log in and change the password. To set up ONS 15454 users and assign security, go to the “[NTP-A30 Create Users and Assign Security](#)” procedure on page 4-4. Additional information is provided in the *Cisco ONS 15454 Reference Manual*.

- Step 4** Each time you log into an ONS 15454, 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 IP addresses. You can select any ONS 15454 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 login node groups that are created. To create a login node group or add additional groups, see the “[DLP-A61 Create Login Node Groups](#)” task on page 3-30.)



**Note** Topology hosts that were created in previous ONS 15454 releases by modifying the `ctc.ini` (Windows) or `.ctcrc` (UNIX) files are displayed as a Topology Host group under Additional Nodes.

- **Disable Network Discovery**—Check this box to view only the ONS 15454 (and login node group members, if any) entered in the Node Name field. Nodes linked to this node through DCCs are not displayed. 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 the login is successful, the CTC window appears. From here, you can navigate to other CTC views to provision and manage the ONS 15454. If you need to perform the initial shelf turn up, see [Chapter 4, “Turn Up Node.”](#) If login problems occur, refer to the *Cisco ONS 15454 Troubleshooting Guide*.

**Step 6** Return to your originating procedure (NTP).

## DLP-A418 Install Public-Key Security Certificate

<b>Purpose</b>	Use this task to install the ITU Recommendation X.509 public-key security certificate. The public-key certificate is required to run Software Release 4.1 or later.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	This task is performed during the <a href="#">“DLP-A60 Log into CTC” task on page 3-26</a> . You cannot perform it outside of this task.
<b>Required/As Needed</b>	This task is required to run ONS 15454 Release 4.1 or later.
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning or higher

**Step 1** If the Java Plug-in Security Warning dialog box appears ([Figure 3-5 on page 3-29](#)), choose one of the following options.

- **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.
- **Deny**—denies permission to install certificate. If you choose this option, you cannot log into the ONS 15454.
- **Grant always**—installs the public-key certificate and does not delete it after the session is over. Cisco recommends this option.
- **View Certificate**—Allows you to view the public-key security certificate.

Figure 3-5 Java Plug-in Security Warning dialog box



**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 Release 4.0 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 Release 4.1, so you can remove it unless you will log into ONS 15454s running software earlier to 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 15454s running Release 4.1 software or later.
- No—does not remove the modified Java policy file from your PC. Choose this option if you will log into ONS 15454s running software Release 4.0 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 Release 4.0 and earlier. If you delete the file and want to log into an ONS 15454 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).

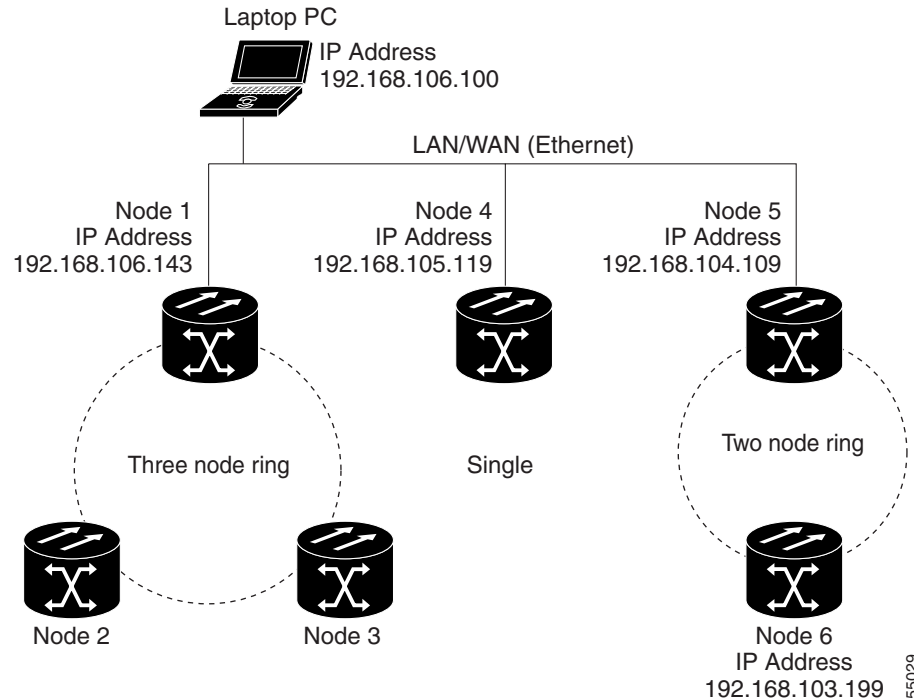
## DLP-A61 Create Login Node Groups

<b>Purpose</b>	This task creates a login node group to display ONS 15454s that have an IP connection but not a DCC connection to the login node.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">DLP-A60 Log into CTC, page 3-26</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	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 you want to add to the group.
- Step 5** Click **OK**.

The next time you log into an ONS 15454, the login node group will be available in the Additional Nodes list of the Login dialog box. For example, in [Figure 3-6 on page 3-31](#), a login node group, “Test Group,” is created that contains the IP addresses for Nodes 1, 4, and 5. During login, if you select the Test Group group under Additional Nodes and Disable Network Discovery is not selected, all nodes in the figure are displayed. If Test Group and Disable Network Discovery are both selected, Nodes 1, 4, and 5 are displayed. 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 3-6 Login Node Group



**Step 6** Return to your originating procedure (NTP).

## DLP-A62 Add a Node to the Current Session or Login Group

<b>Purpose</b>	This task adds a node to the current CTC session or login node group.
<b>Tools</b>	None
<b>Prerequisite Procedures</b>	<a href="#">DLP-A60 Log into CTC, page 3-26</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	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, check **Add Node to Current Login Group**. Otherwise, leave it unchecked.



**Note** The Add Node to Current Login Group 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 is displayed on the network view map.

**Step 5** Return to your originating procedure (NTP).

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