



CHAPTER 3

Connect the PC and Log into the GUI

This chapter explains how to connect PCs and workstations to the Cisco ONS 15454 and how to log into Cisco Transport Controller (CTC) software, which is the ONS 15454 Operation, Administration, Maintenance and Provisioning (OAM&P) user interface. Procedures for connecting to the ONS 15454 using Transaction Language One (TL1) are provided in the *Cisco ONS SONET TL1 Reference Guide*.

Before You Begin

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

1. [NTP-A260 Set Up Computer for CTC, page 3-1](#)—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 3-3](#)—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 3-5](#)—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 3-6](#)—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 3-7](#)—Complete this procedure to log into CTC.
6. [NTP-A353 Use the CTC Launcher Application to Manage Multiple ONS Nodes, page 3-8](#)—Complete this procedure to use the CTC launcher application.

NTP-A260 Set Up Computer for CTC

Purpose	This procedure configures your PC or UNIX workstation to run CTC.
Tools/Equipment	Cisco ONS 15454 Release 8.5 software CD
Prerequisite Procedures	Chapter 1, “Install the Shelf and Backplane Cable”
Required/As Needed	Required
Onsite/Remote	Onsite or remote
Security Level	None

**Note**

JRE 5.0 is required to log into nodes running Software Release 8.5. To log into nodes running Release 4.5 or earlier, you must uninstall JRE 1.4.2 or 5.0 and install JRE 1.3.1_2. Complete the “[DLP-A431 Change the JRE Version](#)” task on page 21-9 as necessary.

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- Step 1** If your computer does not have an appropriate browser installed, complete the following:
- To install Netscape 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** Complete the “[DLP-A552 Adjust the Java Virtual Memory Heap Size](#)” task on page 22-55 to increase the size of the JVM heap in order to improve the CTC performance.
- Step 3** If your computer is a Windows PC, complete the “[DLP-A337 Run the CTC Installation Wizard for Windows](#)” task on page 20-24, then go to Step 5.
- Step 4** If your computer is a UNIX workstation, complete the “[DLP-A338 Run the CTC Installation Wizard for UNIX](#)” task on page 20-28.
- Step 5** When your PC or workstation is set up, continue with the setup procedure appropriate to your network:
- [NTP-A234 Set Up CTC Computer for Local Craft Connection to the ONS 15454](#), page 3-3
 - [NTP-A235 Set Up a CTC Computer for a Corporate LAN Connection to the ONS 15454](#), page 3-5
 - [NTP-A236 Set Up a Remote Access Connection to the ONS 15454](#), page 3-6

**Note**

Cisco recommends that you configure your browser to disable the caching of user IDs/passwords on computers used to access Cisco optical equipment.

In Internet Explorer, choose **Tools > Internet Options > Content**. Click **Auto Complete** and uncheck the **User names and passwords on forms** option.

In Netscape 7.0, choose **Edit > Preferences > Privacy & Security > Forms** and uncheck the option to save form data. For passwords, choose **Edit > Preferences > Privacy & Security > Passwords** and uncheck the option to remember passwords. Note that passwords can be stored in an encrypted format. Netscape versions earlier than 6.0 do not cache user IDs and passwords.

Stop. You have completed this procedure.

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

Purpose	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.
Tools/Equipment	Network interface card (NIC), also referred to as an Ethernet card Straight-through (CAT 5) LAN cable
Prerequisite Procedures	NTP-A260 Set Up Computer for CTC, page 3-1
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	None

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

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"> You are connecting from a Windows PC. All nodes that you will access run software earlier than Release 3.3. You will connect to one ONS 15454. You need to access non-ONS 15454 applications such as ping and tracert (trace route). 	DLP-A50 Set Up a Windows PC for Craft Connection to an ONS 15454 on the Same Subnet Using Static IP Addresses, page 17-52
<ul style="list-style-type: none"> You are connecting from a Windows PC. The CTC computer is provisioned for Dynamic Host Configuration Protocol (DHCP). The ONS 15454 has DHCP forwarding enabled. The ONS 15454 is connected to a DHCP server. <p>Note The ONS 15454 does not provide IP addresses. If DHCP is enabled, it passes DHCP requests to an external DHCP server.</p>	DLP-A51 Set Up a Windows PC for Craft Connection to an ONS 15454 Using Dynamic Host Configuration Protocol, page 17-54 <p>Note Do not use this task for initial node turn-up. 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 4-7.</p>

Table 3-1 CTC Computer Setup for Local Craft Connections to the ONS 15454 (continued)

CTC Connection Environment	CTC Computer Setup Task
<ul style="list-style-type: none"> • 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 15454s at different locations and times and do not wish to reconfigure your PC's IP settings each time. • You will not access or use non-ONS 15454 applications such as ping and tracert (trace route). • You will connect to the ONS 15454 TCC2/TCC2P Ethernet port or backplane LAN pins either directly or through a hub. 	DLP-A52 Set Up a Windows PC for Craft Connection to an ONS 15454 Using Automatic Host Detection, page 17-56
<ul style="list-style-type: none"> • You are connecting from a Solaris workstation. • You will connect to one ONS 15454. • You need to access non-ONS 15454 applications such as ping and traceroute. 	DLP-A565 Set Up a Solaris Workstation for a Craft Connection to an ONS 15454, page 22-76

Step 2 Connect a straight-through (CAT-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/TCC2P 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 (CAT-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 TCC2/TCC2P card of the ONS 15454.

Step 3 After setting up your CTC computer, continue with the [“NTP-A23 Log into the ONS 15454 GUI” procedure on page 3-7](#), if applicable.

Stop. You have completed this procedure.

NTP-A235 Set Up a CTC Computer for a Corporate LAN Connection to the ONS 15454

Purpose	This procedure sets up your computer to access the ONS 15454 through a corporate LAN.
Tools/Equipment	Network interface card (NIC), also referred to as an Ethernet card Straight-through (CAT 5) LAN cable
Prerequisite Procedures	<ul style="list-style-type: none"> • NTP-A260 Set Up Computer for CTC, page 3-1 • The ONS 15454 must be provisioned for LAN connectivity, including IP address, subnet mask, default gateway. • The ONS 15454 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.
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	None

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- Step 1** If your computer is already connected to the corporate LAN, go to [Step 3](#). 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 98) or **Obtain an IP address from a DHCP server** (Windows NT 4.0, 2000, or XP).
 - If your LAN requires that Domain Name System (DNS) or Windows Internet Naming Service (WINS) be enabled, change the setting on the DNS Configuration or WINS Configuration tab of the TCP/IP dialog box.
- Step 2** Connect a straight-through (CAT-5) LAN cable from the PC or Solaris workstation NIC card to a corporate LAN port.
- Step 3** 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 17-59](#)
 - [DLP-A57 Disable Proxy Service Using Netscape \(Windows and UNIX\), page 17-60](#)
- Step 4** Continue with the “[NTP-A23 Log into the ONS 15454 GUI](#)” procedure on page 3-7.
- Stop. You have completed this procedure.**
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NTP-A236 Set Up a Remote Access Connection to the ONS 15454

Purpose	This procedure connects the CTC computer to an ONS 15454 using a LAN modem.
Tools/Equipment	Modem and modem documentation
Prerequisite Procedures	<ul style="list-style-type: none"> • NTP-A260 Set Up Computer for CTC, page 3-1 • A modem must be connected to the ONS 15454 • The modem must be provisioned for ONS 15454. To run CTC, the modem must be provisioned for Ethernet access.
Required/As Needed	As needed
Onsite/Remote	Onsite
Security Level	None

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- Step 1** Connect the modem to the RJ-45 (LAN) port on the TCC2/TCC2P 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 (Cisco TAC). See the [“Obtaining Documentation and Submitting a Service Request”](#) section on [page lxiii](#) for more information.

- Step 3** Continue with the [“NTP-A23 Log into the ONS 15454 GUI”](#) procedure on [page 3-7](#).
- Stop. You have completed this procedure.**
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NTP-A23 Log into the ONS 15454 GUI

Purpose	This procedure logs into CTC, the graphical user interface software used to manage the ONS 15454. This procedure includes optional node login tasks.
Tools/Equipment	None
Prerequisite Procedures	<p>NTP-A260 Set Up Computer for CTC, page 3-1</p> <p>One of the following procedures:</p> <ul style="list-style-type: none"> • NTP-A234 Set Up CTC Computer for Local Craft Connection to the ONS 15454, page 3-3 • NTP-A235 Set Up a CTC Computer for a Corporate LAN Connection to the ONS 15454, page 3-5 • NTP-A236 Set Up a Remote Access Connection to the ONS 15454, page 3-6
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Retrieve or higher

Step 1 Complete the “[DLP-A60 Log into CTC](#)” task on page 17-61.



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

During network topology discovery, CTC polls each node in the network to determine which one contains the most recent version of the CTC software. If CTC discovers a node in the network that has a more recent version of the CTC software than the version you are currently running, CTC generates a message stating that a later version of CTC has been found in the network, and offers to install the CTC software upgrade. If you have network discovery disabled, CTC will not seek more recent versions of the software. Unreachable nodes are not included in the upgrade discovery.



Note Upgrading the CTC software will overwrite your existing software. You must restart CTC after the upgrade is complete.

Step 2 As needed, complete the “[DLP-A61 Create Login Node Groups](#)” task on page 17-64. Login node groups allow you to manage nodes that are not connected to the login node through data communication channels (DCC).

Step 3 As needed, complete the “[DLP-A62 Add a Node to the Current Session or Login Group](#)” task on page 17-65.

Step 4 As needed, complete the “[DLP-A339 Delete a Node from the Current Session or Login Group](#)” task on page 20-31.

Step 5 As needed, complete the “[DLP-A372 Delete a Node from a Specified Login Node Group](#)” task on page 20-56.

Step 6 As needed, complete the “[DLP-A327 Configure the CTC Alerts Dialog Box for Automatic Pop-up](#)” task on page 20-16.

Stop. You have completed this procedure.

NTP-A353 Use the CTC Launcher Application to Manage Multiple ONS Nodes

Purpose	This procedure uses the CTC Launcher to start a CTC session with an ONS NE that has an IP connection to the CTC computer; create TL1 tunnels to connect to ONS NEs on the other side of third-party, OSI-based GNEs; and view, manage, and delete TL1 tunnels using CTC.
Tools/Equipment	None
Prerequisite Procedures	NTP-A260 Set Up Computer for CTC, page 3-1 One of the following procedures: <ul style="list-style-type: none"> • NTP-A234 Set Up CTC Computer for Local Craft Connection to the ONS 15454, page 3-3 • NTP-A235 Set Up a CTC Computer for a Corporate LAN Connection to the ONS 15454, page 3-5
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Retrieve or higher



Note

JRE 5.0 must be installed on the PC you are using with the CTC Launcher application.

- Step 1** As needed, complete one of the following tasks to install the CTC Launcher:
- [DLP-A566 Install the CTC Launcher Application from a Release 8.5 Software CD, page 22-77](#)
 - [DLP-A567 Install the CTC Launcher Application from a Release 8.5 Node, page 22-78](#)
- Step 2** As needed, complete the “[DLP-A568 Connect to ONS Nodes Using the CTC Launcher](#)” task on [page 22-78](#) to connect to an ONS network element with direct IP connectivity.
- Step 3** As needed, complete the “[DLP-A559 Install or Reinstall the CTC JAR Files](#)” task on [page 22-70](#) to install or reinstall the CTC JAR files.
- Step 4** As needed, complete one of the following tasks to create a TL1 tunnel, which enables you to connect to an ONS network element residing behind OSI-based, third-party GNEs:
- [DLP-A569 Create a TL1 Tunnel Using the CTC Launcher, page 22-80](#)
 - [DLP-A570 Create a TL1 Tunnel Using CTC, page 22-81](#)
- Step 5** As needed, complete the “[DLP-A571 View TL1 Tunnel Information](#)” task on [page 22-82](#).
- Step 6** As needed, complete the “[DLP-A572 Edit a TL1 Tunnel Using CTC](#)” task on [page 22-83](#).
- Step 7** As needed, complete the “[DLP-A573 Delete a TL1 Tunnel Using CTC](#)” task on [page 22-84](#).

Stop. You have completed this procedure.
