



CHAPTER 3

Connect the PC and Log into the GUI

This chapter explains how to connect PCs and workstations to the Cisco ONS 15600 and how to log into Cisco Transport Controller (CTC) software, which is the Cisco ONS 15600 Operation, Administration, Maintenance, and Provisioning (OAM&P) user interface. Procedures for connecting to the ONS 15600 using Transaction Language 1 (TL1) are provided in the *Cisco ONS SONET TL1 Command Guide*.

Before You Begin

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

1. [NTP-E17 Set Up Computer for CTC, page 3-1](#)—Complete this procedure if your PC or workstation has never been connected to an ONS 15600.
2. [NTP-E18 Set Up CTC Computer for Local Craft Connection to the ONS 15600, page 3-3](#)—After your PC or workstation is set up for CTC, complete this procedure to set up your computer to connect to the ONS 15600.
3. [NTP-E111 Set Up a CTC Computer for a Corporate LAN Connection to the ONS 15600, page 3-4](#)—Complete this procedure to set up your computer to connect to the ONS 15600 using a corporate LAN.
4. [NTP-E20 Log into the ONS 15600 GUI, page 3-5](#)—Complete this procedure to log into CTC.
5. [NTP-E195 Use the CTC Launcher Application to Manage Multiple ONS Nodes, page 3-6](#)—Complete this procedure to use the CTC launcher application.

NTP-E17 Set Up Computer for CTC

Purpose	This procedure explains how to configure your PC or UNIX workstation to run CTC.
Tools/Equipment	Cisco ONS 15600 Release 9.1 or 9.2.1 software CD
Prerequisite Procedures	Chapter 1, “Install the Bay and Backplane Connections”
Required/As Needed	Required
Onsite/Remote	Onsite or remote
Security Level	None

**Note**

Java Runtime Environment (JRE) 5.0 is required to log into nodes running Software Release 8.0 (JRE 1.6 for Release 9.2.1 and later). To log into nodes running Release 4.5 or earlier, you must uninstall JRE 5.0/JRE 1.6 and install JRE 1.3.1_2. JRE 5.0 is provided on the software CD. See the “[DLP-E185 Change the JRE Version](#)” task on page 17-67 as needed.

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://browser.netscape.com/releases>.
- To install Internet Explorer 6.x on a PC (Internet Explorer 7.x or 8.x for Release 9.2.1 and later), download the browser at the following site: <http://www.microsoft.com>
- To install Mozilla 1.7 on a Solaris 9 or 10, download the browser at the following site:
<http://www.mozilla.org>.
- Choose Tools->options->security, uncheck 'Remember password for sites in the Mozilla Firefox browser.

**Note**

Internet Explorer does not support IPv6 addressing. You can either use Netscape or Mozilla Firefox browser. The Mozilla Firefox browser is required to access IPv6 addressing through CTC sessions from Windows or Linux machines.

Step 2 Complete the “[DLP-E274 Adjust the Java Virtual Memory Heap Size](#)” task on page 18-91 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-E20 Run the CTC Installation Wizard for Windows](#)” task on page 16-23, then go to **Step 5**.

Step 4 If your computer is a UNIX workstation, complete the “[DLP-E21 Run the CTC Installation Wizard for UNIX](#)” task on page 16-26.

Step 5 When your PC or workstation is set up, continue with the setup procedure appropriate to your network:

- [NTP-E18 Set Up CTC Computer for Local Craft Connection to the ONS 15600](#), page 3-3
- [NTP-E111 Set Up a CTC Computer for a Corporate LAN Connection to the ONS 15600](#), page 3-4

**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-E18 Set Up CTC Computer for Local Craft Connection to the ONS 15600

Purpose	This procedure tells you how to set up a PC running Windows or a Solaris workstation for a local onsite connection to the ONS 15600.
Tools/Equipment	Network interface card (NIC), also referred to as an Ethernet card Straight-through (CAT 5) LAN cable
Prerequisite Procedures	NTP-E17 Set Up Computer for CTC, page 3-1
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	None

**Note**

Only the active TSC card connector carries traffic. If you connect to the standby TSC card or switch TSC cards, you will lose connectivity. Cisco recommends that you use the RJ-45 connector on the Customer Access Panel (CAP/CAP2) so that connection to the ONS 15600 will not be lost during a TSC switch.

**Note**

For initial shelf turn-up, you must use a local craft connection to the ONS 15600.

- 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 15600*

CTC Connection Environment	CTC Computer Setup Task
<ul style="list-style-type: none"> You are connecting from a Windows PC. You will connect to one ONS 15600. You need to access non-ONS 15600 applications such as ping and tracert (trace route). 	DLP-E23 Set Up a Windows PC for Craft Connection to an ONS 15600 on the Same Subnet Using Static IP Addresses
<ul style="list-style-type: none"> You are connecting from a Solaris Workstation. You will connect to one ONS 15600; if you will connect to multiple ONS 15600s, you might need to configure your computer's IP settings each time you connect to an ONS 15600. You need to access non-ONS 15600 applications such as ping and tracert (trace route). 	DLP-E285 Set Up a Solaris Workstation for a Craft Connection to an ONS 15600

- Step 2** Connect a CAT-5 (LAN) cable from the PC or Solaris workstation NIC card to one of the following:
- The RJ-45 port on the active TSC
 - The A or B RJ-45 port on the backplane
 - The RJ-45 port on a hub or switch to which the ONS 15600 is physically connected



Note For instructions on crimping your own CAT-5 (LAN) cables, refer to the *Cisco ONS 15600 Troubleshooting Guide*. After setting up your CTC computer, continue with the “[NTP-E20 Log into the ONS 15600 GUI](#)” procedure on page 3-5, if applicable.

Step. You have completed this procedure.

NTP-E111 Set Up a CTC Computer for a Corporate LAN Connection to the ONS 15600

Purpose	This procedure sets up your computer to access the ONS 15600 through a corporate LAN.
Tools/Equipment	NIC, also referred to as an Ethernet card Straight-through (CAT 5) LAN cable
Prerequisite Procedures	<ul style="list-style-type: none"> • NTP-E17 Set Up Computer for CTC, page 3-1 • The ONS 15600 must be provisioned for LAN connectivity, including IP address, subnet mask, and default gateway. • The ONS 15600 must be physically connected to the corporate LAN. • The CTC computer must be connected to the corporate LAN that has connectivity to the ONS 15600.
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 15600, 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 CAT-5 (LAN) cable from the PC or Solaris workstation NIC card to one of the LAN ports on the backplane.
- Step 3** If your computer is connected to a proxy server, disable proxy service or add the ONS 15600 nodes as exceptions. To disable proxy service, complete one of the following tasks, depending on the web browser that you use:
- [DLP-E140 Disable Proxy Service Using Internet Explorer \(Windows\), page 17-31](#)
 - [DLP-E141 Disable Proxy Service Using Netscape \(Windows and UNIX\), page 17-31](#)
 - [DLP-E303 Disable Proxy Service Using Mozilla Firefox \(Windows and UNIX\), page 17-32](#)

- Step 4** Continue with the “[NTP-E20 Log into the ONS 15600 GUI](#)” procedure on page 3-5.
Stop. You have completed this procedure.
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NTP-E20 Log into the ONS 15600 GUI

Purpose	This procedure logs into CTC, the graphical user interface software used to manage the ONS 15600. This procedure includes optional node login tasks.
Tools/Equipment	None
Prerequisite Procedures	NTP-E17 Set Up Computer for CTC , page 3-1 One of the following procedures: <ul style="list-style-type: none"> • NTP-E18 Set Up CTC Computer for Local Craft Connection to the ONS 15600, page 3-3 • NTP-E111 Set Up a CTC Computer for a Corporate LAN Connection to the ONS 15600, page 3-4
Required/As Needed	Required
Onsite/Remote	Onsite or remote
Security Level	Retrieve or higher

- Step 1** Complete the “[DLP-E26 Log into CTC](#)” task on page 16-31.



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-E27 Create Login Node Groups](#)” task on page 16-34. Login node groups display nodes that are not connected to the login node through a data communications channel (DCC).
- Step 3** As needed, complete the “[DLP-E28 Add a Node to the Current Session or Login Group](#)” task on page 16-35.
- Step 4** As needed, complete the “[DLP-E183 Delete a Node from the Current Session or Login Group](#)” task on page 17-66.
- Step 5** As needed, complete the “[DLP-E184 Configure the CTC Alerts Dialog Box for Automatic Popup](#)” task on page 17-67.

Stop. You have completed this procedure.

NTP-E195 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-E17 Set Up Computer for CTC , page 3-1 One of the following procedures: <ul style="list-style-type: none"> • NTP-E18 Set Up CTC Computer for Local Craft Connection to the ONS 15600, page 3-3 • NTP-E111 Set Up a CTC Computer for a Corporate LAN Connection to the ONS 15600, page 3-4
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Retrieve or higher



Note

JRE 5.0/JRE 1.6 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-E286 Install the CTC Launcher Application from a Release 9.1 or Release 9.2.1 Software CD](#), page 18-110
 - [DLP-E287 Install the CTC Launcher Application from an R9.1 or R9.2.1 ONS 15600 Node](#), page 18-110
- Step 2** As needed, complete the “[DLP-E288 Connect to ONS Nodes Using the CTC Launcher](#)” task on [page 18-111](#) to connect to an ONS network element with direct IP connectivity.
- Step 3** 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-E289 Create a TL1 Tunnel Using the CTC Launcher](#), page 18-113
 - [DLP-E290 Create a TL1 Tunnel Using CTC](#), page 18-114
- Step 4** As needed, complete the “[DLP-E291 View TL1 Tunnel Information](#)” task on [page 18-115](#).
- Step 5** As needed, complete the “[DLP-E292 Edit a TL1 Tunnel Using CTC](#)” task on [page 18-116](#).
- Step 6** As needed, complete the “[DLP-E293 Delete a TL1 Tunnel Using CTC](#)” task on [page 18-117](#).

Stop. You have completed this procedure.
