



## CHAPTER 3

# 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 15600 SDH and how to log into Cisco Transport Controller (CTC) software, which is the Cisco ONS 15600 SDH Operation, Administration, Maintenance, and Provisioning (OAM&P) user interface. Procedures for connecting to the ONS 15600 SDH using TL1 are provided in the *Cisco ONS SDH TL1 Command Guide*.

## Before You Begin

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

1. [NTP-F126 Set Up Computer for CTC, page 3-1](#)—Complete this procedure if your PC or workstation has never been connected to an ONS 15600 SDH.
2. [NTP-F127 Set Up CTC Computer for Local Craft Connection to the ONS 15600 SDH, 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 SDH.
3. [NTP-F128 Set Up a CTC Computer for a Corporate LAN Connection to the ONS 15600 SDH, page 3-4](#)—Complete this procedure to set up your computer to connect to the ONS 15600 SDH using a corporate LAN.
4. [NTP-F129 Log into the ONS 15600 SDH GUI, page 3-5](#)—Complete this procedure to log into CTC.
5. [NTP-F130 Use the CTC Launcher Application to Manage Multiple ONS Nodes, page 3-6](#)—Complete this procedure to use the CTC launcher application.

## NTP-F126 Set Up Computer for CTC

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

**Note**

JRE 5.0 is required to log into nodes running Software Release 8.0 and above (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 and install JRE 1.3.1\_2. JRE 5.0 is provided on the software CD. See the “[DLP-F310 Change the JRE Version](#)” task on [page 18-11](#) 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 IPv6 address. You can either use Netscape or Mozilla Firefox browser. The Mozilla Firefox browser is required to access the IPv6 address CTC sessions from Windows or Linux machines.

**Step 2** Complete the “[DLP-F387 Adjust the Java Virtual Memory Heap Size](#)” task on [page 18-104](#) 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-F177 Run the CTC Installation Wizard for Windows](#)” task on [page 16-22](#), then go to [Step 5](#).

**Step 4** If your computer is a UNIX workstation, complete the “[DLP-F178 Run the CTC Installation Wizard for UNIX](#)” task on [page 16-25](#).

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

- [NTP-F127 Set Up CTC Computer for Local Craft Connection to the ONS 15600 SDH](#), [page 3-3](#)
- [NTP-F128 Set Up a CTC Computer for a Corporate LAN Connection to the ONS 15600 SDH](#), [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-F127 Set Up CTC Computer for Local Craft Connection to the ONS 15600 SDH

<b>Purpose</b>	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 SDH.
<b>Tools/Equipment</b>	Network interface card (NIC), also referred to as an Ethernet card Straight-through (CAT 5) LAN cable
<b>Prerequisite Procedures</b>	<a href="#">NTP-F126 Set Up Computer for CTC, page 3-1</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	None

**Note**

Only the active Timing and Shelf Controller (TSC) card connector carries traffic. If you connect to the standby TSC or switch TSCs, you will lose connectivity. Cisco recommends that you use the RJ-45 connector on the Customer Access Panel (CAP) so that connection to the ONS 15600 SDH 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 SDH.

- 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 SDH*

CTC Connection Environment	CTC Computer Setup Task
<ul style="list-style-type: none"> <li>You are connecting from a Windows PC.</li> <li>You will connect to one ONS 15600 SDH.</li> <li>You need to access non-ONS 15600 SDH applications such as ping and tracert (trace route).</li> </ul>	<a href="#">“DLP-F179 Set Up a Windows PC for Craft Connection to an ONS 15600 SDH on the Same Subnet Using Static IP Addresses” task on page 16-28</a>
<ul style="list-style-type: none"> <li>You are connecting from a Solaris Workstation.</li> <li>You will connect to one ONS 15600 SDH; if you will connect to multiple ONS 15600 SDHs, you might need to configure your computer’s IP settings each time you connect to an ONS 15600 SDH.</li> <li>You need to access non-ONS 15600 SDH applications such as ping and tracert (trace route).</li> </ul>	<a href="#">“DLP-F180 Set Up a Solaris Workstation for a Craft Connection to an ONS 15600 SDH” task on page 16-30</a>

- 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 SDH 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-F129 Log into the ONS 15600 SDH GUI](#)” procedure on page 3-5, if applicable.

**Step.** You have completed this procedure.

## NTP-F128 Set Up a CTC Computer for a Corporate LAN Connection to the ONS 15600 SDH

<b>Purpose</b>	This procedure sets up your computer to access the ONS 15600 SDH through a corporate LAN.
<b>Tools/Equipment</b>	NIC, also referred to as an Ethernet card Straight-through (CAT 5) LAN cable
<b>Prerequisite Procedures</b>	<ul style="list-style-type: none"> <li>• <a href="#">NTP-F126 Set Up Computer for CTC</a>, page 3-1</li> <li>• The ONS 15600 SDH must be provisioned for LAN connectivity, including IP address, subnet mask, and default gateway.</li> <li>• The ONS 15600 SDH 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 15600 SDH.</li> </ul>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	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 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 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 SDH nodes as exceptions. To disable proxy service, complete one of the following tasks, depending on the web browser that you use:
- [DLP-F274 Disable Proxy Service Using Internet Explorer \(Windows\)](#), page 17-64
  - [DLP-F275 Disable Proxy Service Using Netscape \(Windows and UNIX\)](#), page 17-65
  - [DLP-F416 Disable Proxy Service Using Mozilla Firefox \(Windows and UNIX\)](#), page 17-66

- Step 4** Continue with the “[NTP-F129 Log into the ONS 15600 SDH GUI](#)” procedure on page 3-5.  
**Stop. You have completed this procedure.**
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## NTP-F129 Log into the ONS 15600 SDH GUI

<b>Purpose</b>	This procedure logs into CTC, the graphical user interface software used to manage the ONS 15600 SDH. This procedure includes optional node login tasks.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">NTP-F126 Set Up Computer for CTC</a> , page 3-1 One of the following procedures: <ul style="list-style-type: none"> <li>• <a href="#">NTP-F127 Set Up CTC Computer for Local Craft Connection to the ONS 15600 SDH</a>, page 3-3</li> <li>• <a href="#">NTP-F128 Set Up a CTC Computer for a Corporate LAN Connection to the ONS 15600 SDH</a>, page 3-4</li> </ul>
<b>Required/As Needed</b>	Required
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Retrieve or higher

- Step 1** Complete the “[DLP-F181 Log into CTC](#)” task on page 16-32.



**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 the 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-F307 Create Login Node Groups](#)” task on page 18-9. Login node groups display nodes that are not connected to the log-in node via DCC.
- Step 3** As needed, complete the “[DLP-F183 Add a Node to the Current Session or Login Group](#)” task on page 16-35.
- Step 4** As needed, complete the “[DLP-F308 Delete a Node from the Current Session or Login Group](#)” task on page 18-10.
- Step 5** As needed, complete the “[DLP-F309 Configure the CTC Alerts Dialog Box for Automatic Popup](#)” task on page 18-11.

Stop. You have completed this procedure.

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## NTP-F130 Use the CTC Launcher Application to Manage Multiple ONS Nodes

<b>Purpose</b>	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.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">NTP-F126 Set Up Computer for CTC, page 3-1</a> One of the following procedures: <ul style="list-style-type: none"> <li>• <a href="#">NTP-F127 Set Up CTC Computer for Local Craft Connection to the ONS 15600 SDH, page 3-3</a></li> <li>• <a href="#">NTP-F128 Set Up a CTC Computer for a Corporate LAN Connection to the ONS 15600 SDH, page 3-4</a></li> </ul>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Retrieve or higher



### Note

JRE 5.0 (JRE 1.6 for Release 9.2.1 and later) must be installed on the PC you are using with the CTC Launcher application.

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- Step 1** As needed, complete one of the following tasks to install the CTC Launcher:
- [DLP-F399 Install the CTC Launcher Application from a Release 9.1 or Release 9.2.1 Software CD, page 18-122](#)
  - [DLP-F400 Install the CTC Launcher Application from a Release 9.1 or Release 9.2.1 Node, page 18-123](#)
- Step 2** As needed, complete the “[DLP-F401 Connect to ONS Nodes Using the CTC Launcher](#)” task on [page 19-1](#) 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-F402 Create a TL1 Tunnel Using the CTC Launcher, page 19-3](#)
  - [DLP-F403 Create a TL1 Tunnel Using CTC, page 19-4](#)
- Step 4** As needed, complete the “[DLP-F404 View TL1 Tunnel Information](#)” task on [page 19-5](#).
- Step 5** As needed, complete the “[DLP-F405 Edit a TL1 Tunnel Using CTC](#)” task on [page 19-6](#).
- Step 6** As needed, complete the “[DLP-F406 Delete a TL1 Tunnel Using CTC](#)” task on [page 19-7](#).

Stop. You have completed this procedure.

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