



CHAPTER 2

Connect the PC and Log into the GUI

This chapter explains how to connect Windows PCs and Solaris workstations to the Cisco ONS 15310-MA SDH, and how to log into Cisco Transport Controller (CTC) software. CTC is the Cisco ONS 15310-MA SDH Operation, Administration, Maintenance and Provisioning (OAM&P) user interface. Procedures for connecting to the ONS 15310-MA SDH using Transaction Language 1 (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-H13 Set Up Computer for CTC, page 2-1](#)—Complete this procedure if your PC or workstation has never been connected to an ONS 15310-MA SDH.
2. [NTP-H14 Set Up TL1 session for Local Craft Connection to the Node, page 2-3](#)—Complete this procedure to set up your computer for an onsite craft connection to the ONS 15310-MA SDH.
3. [NTP-H15 Set Up a CTC Computer for a Corporate LAN Connection to the Node, page 2-4](#)—Complete this procedure to set up your computer to connect to the ONS 15310-MA SDH using a corporate LAN.
4. [NTP-H16 Set Up a Remote Access Connection to the Node, page 2-5](#)—Complete this procedure to set up your computer for remote modem access to the ONS 15310-MA SDH.
5. [NTP-H17 Log into the GUI, page 2-5](#)—Complete this procedure to log into CTC.
6. [NTP-H147 Use the CTC Launcher Application to Manage Multiple ONS Nodes, page 2-7](#)—Complete this procedure to use the CTC Launcher Application.

NTP-H13 Set Up Computer for CTC

Purpose	This procedure explains how to configure your Windows PC or Solaris workstation to run CTC.
Tools/Equipment	Cisco ONS 15310-MA SDH Release 9.1 and Release 9.2 software CD
Prerequisite Procedures	Chapter 1, “Install the Cisco ONS 15310-MA SDH”
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 9.1 JRE 1.6 is required to log into nodes running Software Release 9.2. To log into nodes running Software R4.5 or earlier, you must uninstall JRE 1.4.2 or 5.0 and install JRE 1.3.1. JRE 5.0 is provided on the Software Release 9.1 CD and JRE 1.6 is provided on the Software Release 9.2 CD. Complete the [“DLP-H35 Change the JRE Version” task on page 16-49](#) as needed.

- Step 1** If your computer does not have an appropriate browser installed, complete the following:
- Download the supported browser from the Web.
 - Internet Explorer 6.x on a PC (Internet Explorer 7.x or 8.x for Release 9.2)
 - Mozilla 1.7 on a Solaris 9 or 10 workstation
 - Safari for MacOS-X PC (Release 9.2 only)
 - Choose Tools->Options->Security, uncheck 'Remember password for sites in the Mozilla Firefox browser.
- Step 2** Complete the [“DLP-H231 Adjust the Java Virtual Memory Heap Size” task on page 18-31](#) to increase the size of the JVM heap in order to improve the CTC performance.
- Step 3** Complete one of the following:
- If your computer is a Windows PC, complete the [“DLP-H21 Run the CTC Installation Wizard for Windows” task on page 16-26](#), then go to [Step 4](#).
 - If your computer is a UNIX workstation, complete the [“DLP-H22 Run the CTC Installation Wizard for UNIX” task on page 16-29](#).
- Step 4** When your PC or workstation is set up, continue with one of the following procedures:
- [NTP-H14 Set Up TL1 session for Local Craft Connection to the Node, page 2-3](#)
 - [NTP-H15 Set Up a CTC Computer for a Corporate LAN Connection to the Node, page 2-4](#)
 - [NTP-H16 Set Up a Remote Access Connection to the Node, page 2-5](#)

**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-H14 Set Up TL1 session for Local Craft Connection to the Node

Purpose	This procedure sets up a PC running Windows or a UNIX/Solaris workstation for an onsite local craft connection to the node.
Tools/Equipment	Network interface card (NIC), also referred to as an Ethernet card Straight-through (CAT-5) LAN cable
Prerequisite Procedures	NTP-H13 Set Up Computer for CTC, page 2-1
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	None

Step 1 Connect a straight-through CAT-5 LAN cable from the PC or Solaris workstation NIC to one of the following:

- RJ-45 (CRAFT) port on the ONS 15310-MA SDH



Note For instructions on crimping your own straight-through (CAT-5) LAN cables, refer to the *Cisco ONS 15310-MA SDH Troubleshooting Guide*.



Note For initial shelf turn-up, you should connect your PC directly to the CRAFT port on the ONS 15310-MA SDH. On the ONS 15310-MA SDH, the CRAFT port is located on the 15310E-CTX-K9 card.

Craft Interface Connection—The Craft Interface located on the front of the CTX-2500 card. The RJ-45 port supports VT100 emulation such that TL1 commands can be entered directly to the Node without a browser connection.

Step 2 Access hyper-terminal from your Windows pc

Step 3 Configure the terminal emulation software (Hyper-terminal) with the following values:

- Terminal emulation = vt100
- Bits per second = 9600
- Parity = None
- Stop BITS = 1
- Flow control = None

Step 4 Press Enter. An angle bracket prompt (>) appears.

Step 5 Login to the Node using the ACT-USER command

Stop. You have completed this procedure.

NTP-H15 Set Up a CTC Computer for a Corporate LAN Connection to the Node

Purpose	This procedure sets up your computer to access the ONS 15310-MA SDH 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-H13 Set Up Computer for CTC, page 2-1 • The ONS 15310-MA SDH must be provisioned for LAN connectivity, including IP address, subnet mask, and default gateway. • The ONS 15310-MA SDH must be physically connected to the corporate LAN.
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 15310-MA 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 2000, XP for Release 9.1 and Windows Vista, Windows 7 for Release 9.2) or **Obtain an IP address from a DHCP server** (Windows NT 4.0).
 - 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** 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 15310-MA SDH nodes as exceptions. To disable proxy service, complete one of the following tasks, depending on the web browser that you use:
- [DLP-H27 Disable Proxy Service Using Internet Explorer \(Windows\), page 16-41](#)
 - [DLP-H28 Disable Proxy Service Using Netscape \(Windows\), page 16-42](#)
 - [DLP-H295 Disable Proxy Service Using Mozilla Firefox \(Windows and UNIX\), page 16-42](#)
- Step 4** Continue with the “[NTP-H17 Log into the GUI](#)” procedure on page 2-5.
- Stop. You have completed this procedure.**
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NTP-H16 Set Up a Remote Access Connection to the Node

Purpose	This procedure connects an ONS 15310-MA SDH using a LAN modem. To complete this procedure: <ul style="list-style-type: none"> • A LAN modem must be connected to the ONS 15310-MA SDH. • The LAN modem must be provisioned for the ONS 15310-MA SDH. To run CTC, the modem must be provisioned for Ethernet access.
Tools/Equipment	Modem and modem documentation
Prerequisite Procedures	NTP-H13 Set Up Computer for CTC, page 2-1
Required/As Needed	As needed
Onsite/Remote	Onsite
Security Level	None

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- Step 1** Connect the modem to the ONS 15310-MA SDH RJ-45 (CRAFT) port. On the 15310-MA SDH, the CRAFT port is located on the 15310E-CTX-K9 card faceplate.
- Step 2** While referring to the modem documentation, complete the following tasks to provision the modem for the node:
- For CTC access, set the modem for Ethernet access.
 - Assign an IP address to the modem that is on the same subnet as the node.
 - The IP address the modem assigns to the CTC computer must be on the same subnet as the modem and the node.



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 xlvii](#) for more information.

- Step 3** Continue with the [“NTP-H17 Log into the GUI” procedure on page 2-5](#)
- Stop. You have completed this procedure.**
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NTP-H17 Log into the GUI

Purpose	This procedure logs into CTC, the graphical user interface software used to manage the ONS 15310-MA SDH. This procedure includes optional node login tasks.
Tools/Equipment	None

Prerequisite Procedures [NTP-H13 Set Up Computer for CTC, page 2-1](#)

One of the following procedures:

- [NTP-H14 Set Up TL1 session for Local Craft Connection to the Node, page 2-3.](#) or
- [NTP-H15 Set Up a CTC Computer for a Corporate LAN Connection to the Node, page 2-4,](#) or
- [NTP-H16 Set Up a Remote Access Connection to the Node, page 2-5](#)

Required/As Needed	Required
Onsite/Remote	Onsite or remote
Security Level	Retrieve or higher

Step 1 Complete the [“DLP-H29 Log into CTC” task on page 16-43.](#)

If a Java Plug-in Security Warning dialog box appears during log in, complete the [“DLP-H30 Install Public-Key Security Certificate” task on page 16-46](#) to install the public-key security certificate required by Software Release 4.1 and later.

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 JAR files. 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-H31 Create Login Node Groups” task on page 16-46.](#) Login node groups allow you to view and manage nodes that have an IP connection but no data communications channel (DCC) connection to the login node.

Step 3 As needed, complete the [“DLP-H32 Add a Node to the Current Session or Login Group” task on page 16-47.](#)

Step 4 As needed, complete the [“DLP-H33 Delete a Node from the Current Session or Login Group” task on page 16-48.](#)

Step 5 As needed, complete the [“DLP-H36 Configure the CTC Alerts Dialog for Automatic Popup” task on page 16-50.](#)

Stop. You have completed this procedure.

NTP-H147 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	<p>NTP-H13 Set Up Computer for CTC, page 2-1</p> <p>One of the following procedures:</p> <ul style="list-style-type: none"> • NTP-H14 Set Up TL1 session for Local Craft Connection to the Node, page 2-3 • NTP-H15 Set Up a CTC Computer for a Corporate LAN Connection to the Node, page 2-4
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. JRE 1.6 must be installed for Release 9.2.

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- Step 1** As needed, complete one of the following tasks to install the CTC Launcher:
- [DLP-H266 Install the CTC Launcher Application from a Release 9.1 and Release 9.2 Software CD, page 18-66](#)
 - [DLP-H267 Install the CTC Launcher Application from a Release 9.1 and Release 9.2 Node, page 18-66](#)
- Step 2** As needed, complete the “[DLP-H268 Connect to ONS Nodes Using the CTC Launcher](#)” task on [page 18-67](#) to connect to an ONS network element with direct IP connectivity.
- Step 3** As needed, complete the “[DLP-H275 Install or Reinstall the CTC JAR Files](#)” task on [page 18-74](#) 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-H269 Create a TL1 Tunnel Using the CTC Launcher](#)” task on [page 18-68](#)
 - “[DLP-H270 Create a TL1 Tunnel Using CTC](#)” task on [page 18-69](#)
- Step 5** As needed, complete the “[DLP-H271 View TL1 Tunnel Information](#)” task on [page 18-70](#).
- Step 6** As needed, complete the “[DLP-H272 Edit a TL1 Tunnel Using CTC](#)” task on [page 18-71](#).
- Step 7** As needed, complete the “[DLP-H273 Delete a TL1 Tunnel Using CTC](#)” task on [page 18-72](#).
- Stop. You have completed this procedure.**
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