



## Install and Login to Cisco Transport Controller

After you have established a connection to the node using the console port of the system, setup a computer for Cisco Transport Controller (CTC) and login to CTC. CTC is used to perform operations, administration, maintenance and provisioning activities of the system.

- [Setup Computer for CTC, on page 1](#)
- [Login to CTC, on page 2](#)

### Setup Computer for CTC

Component	Specification
Hardware	Intel Core i5, i7, or faster processor. A minimum of 4 GB RAM, 100 GB hard disk with 250 MB of available hard drive space.
Operating Systems	One of the following: <ul style="list-style-type: none"><li>• Windows:<ul style="list-style-type: none"><li>• Windows 7</li><li>• Windows Server 2008, or later</li></ul></li><li>• Apple Mac OS X</li><li>• UNIX workstation with Solaris Version 9 or 10 on an UltraSPARC-III or faster processor, with a minimum of 1 GB RAM and a minimum of 250 MB of available hard drive space.</li><li>• Ubuntu 12.10</li></ul>
Java Runtime Environment	JRE 1.6 with support for European languages
Browser	One of the following: <ul style="list-style-type: none"><li>• Internet Explorer</li><li>• Mozilla Firefox</li><li>• Safari</li><li>• Google Chrome</li></ul>

**Before you begin**

Ensure that the basic configuration required to establish a connection to the node is complete. See [Establish Connection to a Node](#).

**What to do next**

Login to CTC and establish network connection to the node.

# Login to CTC

**Before you begin**

- Ensure that you have setup a computer that meets the hardware and software requirements to use Cisco Transport Controller (CTC).
- Ensure you have complete image installed. If you have mini.iso image installed, then the ncs4k-mgbl.pkg must be installed on the NCS 4000 system.
- Complete the "Configuring XML Agent" task.
- Complete "Configure HTTP" task.
- Run the **snmp-server ifindex persist** command for Generalized Multi-Protocol Label Switching (GMPLS) to retain its links over a reload.

**Step 1** From the computer connected to the NCS 4016 shelves, start Windows Internet Explorer or Mozilla Firefox web browser.

**Step 2** In the browser URL field, enter the NCS 4016 IPv4 or IPv6 virtual address.

**Step 3** Press **Enter**. The browser displays a window with a Delete CTC Cache field and information about the Cisco Transport Controller Java and System environments.

**Note**

- The Delete CTC Cache field deletes the CTC JAR (Java Archive) files that are downloaded to your computer when you log into NCS 4000. You perform this action if connectivity problems occur or you want to delete older CTC JAR file versions from your computer.
- If you are logging into NCS 4000 nodes in an operation network that are 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. This will display the software version for each node visible on the network view. If the node is not visible, the software version can be read from the LCD display.

**Step 4** If a Java Plug-in Security Warning dialog box appears, install the public-key security certificate.

The first time you connect to NCS 4000, this process can take several minutes. After the download, a warning message window appears.

**Step 5** Click **OK**.

**Step 6** In the CTC login window, type a user name and password (both are case sensitive).

**Step 7** Each time you login to CTC, you can select the following login options:

- **Additional Nodes** — Displays a list of current login node groups.
- **Disable Network Discovery** — Check this box to view only the NCS 4000 (and additional nodes within the login node group, if any) entered in the Node Name field. Nodes linked to this node through Data Communication Channels (DCC) are not discovered and will not appear in CTC network view. Using this option, you can decrease the CTC startup time in networks with many DCC-connected nodes, and can reduce memory consumption. If Disable Network Discovery is unchecked, CTC attempts to upgrade the CTC software by downloading more recent versions of the JAR files it finds during the network discovery. Click **Yes** to allow CTC to download the newer JAR files, or **No** to prevent CTC from downloading the JAR files.

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

- **Disable Circuit Management** — Check this box to disable discovery of existing circuits. Using this option, you can decrease the CTC initialization time in networks with many existing circuits and reduce memory consumption. After you are logged in, you can enable circuit discovery at any time by choosing the **Enable Circuit Discovery** button on the Circuits tab.
- **SSH or Telnet** - Select an option to establish a remote connection with the node.

**Step 8** Click **Login**.

CTC is displayed with three views: Home Page, Network View, and Node View.

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**What to do next**

Use CTC to bring up the node for network connectivity.

