



# Upgrading Cisco ONS 15310-CL to Release 6.2

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This document explains how to upgrade Cisco ONS 15310-CL Cisco Transport Controller (CTC) software from Release 5.x or 6.x to Release 6.2.

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# Before You Begin

Before beginning, write down the following information about your site; the data will be useful during and after the upgrade: Date, Street Address, Site Phone Number, and Dial Up Number.

**Caution**

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Read all procedures before you begin the upgrade.

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**Caution**

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This upgrade is supported only for Software Releases 5.x or 6.x upgrading to Release 6.2.

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## Document Procedures

Procedures in this document are to be performed in consecutive order unless otherwise noted. In general, you are not done with a procedure until you have completed it for each node you are upgrading, and you are not done with the upgrade until you have completed each procedure that applies to your network. If you are new to upgrading the ONS 15310-CL, you might want to check off each procedure on your printed copy of this document as you complete it.

Each non-trouble procedure (NTP) is a list of steps designed to accomplish a specific procedure. Follow the steps until the procedure is complete. If you need more detailed instructions, refer to the detail-level procedure (DLP) specified in the procedure steps. Throughout this guide, NTPs are referred to as “procedures” and DLPs are termed “tasks.” Every reference to a procedure includes its NTP number, and every reference to a task includes its DLP number.

The DLP (task) supplies additional task details to support the NTP. The DLP lists numbered steps that lead you through completion of a task. Some steps require that equipment indications be checked for verification. When the proper response is not obtained, a trouble clearing reference is provided. This section lists the document procedures (NTPs). Turn to a procedure for applicable tasks (DLPs).

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

1. [NTP-U137 Prepare for Upgrade to Release 6.2, page 3](#)—This section contains critical information and tasks that you must read and complete before beginning the upgrade process.
2. [NTP-U138 Back Up the Software Database, page 4](#)—Complete the database backup to ensure that you have preserved your node and network provisioning in the event that you need to restore them.
3. [NTP-U139 Upgrade to Software R6.2, page 5](#)—You must complete this entire procedure before the upgrade is finished.
4. [NTP-116 Install Public-Key Security Certificate, page 11](#)—You must complete this procedure to be able to run ONS 15310-CL Software R6.2.
5. [NTP-U140 Revert to Previous Software Load and Database, page 12](#)—Complete this procedure only if you need to return to the software load you were running before activating the Release 6.2 software.

## NTP-U137 Prepare for Upgrade to Release 6.2

<b>Purpose</b>	This procedure provides the critical information checks and tasks you must complete before beginning an upgrade.
<b>Tools/Equipment</b>	ONS 15310-CL nodes to upgrade PC or UNIX workstation Cisco ONS 15310-CL Release 6.2 software
<b>Prerequisite Procedures</b>	None
<b>Required/As Needed</b>	Required
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Superuser

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- Step 1** Read the *Release Notes for Cisco ONS 15310-CL Release 6.2*.
- Step 2** Log into the node that you will upgrade. For detailed instructions, refer to the *Cisco ONS 15310-CL Procedure Guide*.
- Step 3** Complete the “[DLP-U213 Verify CTC Workstation Requirements](#)” task on page 3.
- Step 4** If you have multiple ONS 15310-CL nodes configured in the same IP subnet, ensure that only one is connected to a router. Otherwise, the remaining nodes might be unreachable. Refer to the *Cisco ONS 15310-CL Reference Manual* for LAN-connection suggestions.
- Step 5** When you have completed the tasks for this section, proceed with the “[NTP-U138 Back Up the Software Database](#)” procedure on page 4.
- Stop. You have completed this procedure.**
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## DLP-U213 Verify CTC Workstation Requirements

<b>Purpose</b>	This task verifies all PC or UNIX workstation hardware and software requirements. Before upgrading the workstation to run CTC Software R6.2, complete this task.
<b>Tools/Equipment</b>	PC or UNIX workstation
<b>Prerequisite Procedures</b>	None
<b>Required/As Needed</b>	Required
<b>Onsite/Remote</b>	Onsite or remote (but in the presence of the workstation)
<b>Security Level</b>	Superuser

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- Step 1** Ensure that your workstation is either one of the following:
- IBM-compatible PC with a Pentium III/700 or faster processor, CD-ROM drive, a minimum of 384 MB RAM and 190 MB of available hard drive space, running Windows 98, Windows NT 4.0 (with Service Pack 6a), Windows 2000 Professional (with Service Pack 3), or Windows XP Professional (with Service Pack 1)
  - UNIX workstation with Solaris Versions 8 or 9, on an UltraSPARC or faster processor, with a minimum of 384 MB RAM and a minimum of 190 MB of available hard drive space

**Step 2** Ensure that your web browser software is one of the following:

- Netscape Navigator 7.x or higher
- Internet Explorer 6.x or higher

**Step 3** Verify that the Java Version installed on your computer is:

- Java Runtime Environment (JRE) 1.4.2, and Java Plug-in 1.4.2



**Tip**

You can check the JRE version in your browser window after entering the node IP address in the URL window under Java Version.

- The Java Policy file is installed on your computer.



**Note**

For important information on CTC backward compatibility affected by your choice of JRE versions, see the *Readme.txt* or *Readme.html* file on the software CD.



**Note**

To install JRE 1.4.2, the Java Policy file, or the Release 6.2 online help, refer to the installation instructions in the *Cisco ONS 15310-CL Procedure Guide*.

**Step 4** Return to your originating procedure (NTP).

## NTP-U138 Back Up the Software Database

<b>Purpose</b>	This procedure preserves all configuration data for your network before performing the upgrade.
<b>Tools/Equipment</b>	PC or UNIX workstation
<b>Prerequisite Procedures</b>	<a href="#">NTP-U137 Prepare for Upgrade to Release 6.2, page 3</a>
<b>Required/As Needed</b>	Required
<b>Onsite/Remote</b>	Onsite or remote (but in the presence of the workstation)
<b>Security Level</b>	Maintenance or higher

**Step 1** Log into CTC. For detailed instructions, refer to the *Cisco ONS 15310-CL Procedure Guide*. If you are already logged in, continue with [Step 2](#).

**Step 2** In the node (default) view, click the **Maintenance > Database** tabs.

**Step 3** Click **Backup**.

**Step 4** Save the database on the workstation's hard drive or on network storage. Use an appropriate file name with the file extension `.db`. (Cisco recommends that you use the IP address of the node and the date, for example `1010120192061103.db`.)

**Step 5** Click **Save**. A message appears indicating that the backup is complete.

**Step 6** Click **OK**.

**Step 7** Repeat Steps [1](#) through [6](#) for each node in the network.

- Step 8** (Optional) Cisco recommends that you manually log critical information by either writing it down or printing screens where applicable. Use the following table to determine the information you should log; complete the table (or your own version) for every node in the network.

**Table 1** *Manually Recorded Data*

Item	Record Data Here (If Applicable)
IP address of the node.	
Node name.	
Timing settings.	
DCC connections; list all optical ports that have DCCs activated.	
User IDs; list all, including at least one superuser.	
Inventory; do a print screen from the inventory window.	
Network information; do a print screen from the Provisioning tab in the network view.	
Current configuration (linear, etc.); do print screens as needed.	
List all protection groups in the system; do a print screen from the protection group window.	
List alarms; do a print screen from the alarm window.	
List circuits; do a print screen from the circuit window.	

**Stop. You have completed this procedure.**

## NTP-U139 Upgrade to Software R6.2

<b>Purpose</b>	This procedure upgrades your CTC software to Software R6.2.
<b>Tools/Equipment</b>	PC or UNIX workstation
<b>Prerequisite Procedures</b>	<a href="#">NTP-U138 Back Up the Software Database, page 4</a>
<b>Required/As Needed</b>	Required
<b>Onsite/Remote</b>	Onsite or remote (but in the presence of the workstation)
<b>Security Level</b>	Superuser

- Step 1** Insert the Release 6.2 software CD into the workstation CD-ROM (or otherwise acquire access to the software) to begin the upgrade process.



**Note** Inserting the software CD activates the CTC Setup Wizard. You can use the setup wizard to install components or click **Cancel** to continue with the upgrade.

  
**Caution**

A traffic interruption of less than 50 ms on each circuit is possible during the activation task, with Ethernet traffic disruption possibly lasting up to several minutes on each circuit.

  
**Caution**

Do not perform maintenance or provisioning activities during the activation task.

**Step 2** Complete the “[DLP-U214 Download Release 6.2 Software](#)” task on page 6 for all nodes (or groups of 8 or less nodes) you are upgrading.

**Step 3** Complete the “[DLP-U215 Activate the New Load](#)” task on page 7 for all nodes you are upgrading.



**Note** You can only activate one node at a time; however, you can begin activation of the next node as soon as the controller cards for the current node have rebooted successfully.

**Step 4** (Optional) If you wish to ensure that a software revert to the previous software release will no longer be possible, complete the “[DLP-U214 Download Release 6.2 Software](#)” task on page 6 for all nodes, or groups of nodes you are upgrading a second time.

  
**Caution**

If you download the Release 6.2 software a second time following activation you will never be able to revert to the previous software version.

**Step 5** Complete the “[DLP-U52 Set the Date and Time](#)” task on page 11 (any nodes not using SNTP).

**Step 6** If you need to return to the software and database you had before activating Software R6.2, proceed with the “[NTP-U140 Revert to Previous Software Load and Database](#)” procedure on page 12.

**Stop. You have completed this procedure.**

## DLP-U214 Download Release 6.2 Software

<b>Purpose</b>	This task downloads Software R6.2 to the ONS 15310-CL nodes prior to activation.
<b>Tools/Equipment</b>	PC or UNIX workstation
<b>Prerequisite Procedures</b>	<a href="#">NTP-U138 Back Up the Software Database, page 4</a>
<b>Required/As Needed</b>	Required
<b>Onsite/Remote</b>	Onsite or remote (but in the presence of the workstation)
<b>Security Level</b>	Superuser or Maintenance



**Note**

The CTX-CL card has two flash RAMs. An upgrade downloads the software to the backup RAM on the CTX-CL card. The download task does not affect traffic because the active software continues to run at the primary RAM location; therefore, you can download the software at any time.

**Step 1** From the View menu, choose **Go to Network View**.

- Step 2** Verify that the alarm filter is not on:
- Click the **Alarms** tab.
  - Click the **Filter** tool at the lower-right side of the bottom toolbar. Alarm filtering is enabled if the tool is depressed (selected) and disabled if the tool is raised (not selected).
- Step 3** On the Alarms tab, check all nodes for existing alarms. Resolve any outstanding alarms before proceeding.
-  **Note** During the software download process, the SWFTDWN alarm indicates that the software download is taking place. The alarm is normal and clears when the download is complete.
- Step 4** Return to node view and click the **Maintenance > Software** tabs.
- Step 5** Click **Download**. The Download Selection dialog box opens.
- Step 6** Browse to locate the software files on the ONS 15310-CL software CD or on your hard drive, if you are working from a local copy.
- Step 7** Open the “Cisco15310-CL” folder.
- Step 8** Choose the file with the “.pkg” extension and click **Open**.
- Step 9** In the list of compatible nodes, select the check boxes for all nodes you are downloading the software to.
-  **Note** Cisco advises that you limit concurrent software downloads on an SDCC to 8 nodes at once, using the central node to complete the download.
-  **Note** If you attempt more than eight concurrent software downloads at once, the downloads in excess of eight will be placed in a queue.
- Step 10** Click OK. The Download Status column monitors the progress of the download.
-  **Note** The software download process can take up to 30 minutes per node, though typically under ten minutes.
- Step 11** Return to your originating procedure (NTP).

## DLP-U215 Activate the New Load

<b>Purpose</b>	This task activates Software R6.2 in each node in the network.
<b>Tools/Equipment</b>	PC or UNIX workstation
<b>Prerequisite Procedures</b>	<a href="#">DLP-U214 Download Release 6.2 Software, page 6</a>
<b>Required/As Needed</b>	Required
<b>Onsite/Remote</b>	Onsite or remote (but in the presence of the workstation)
<b>Security Level</b>	Superuser

**Note**

Cisco recommends you run the optional Cache Loader pre-caching utility in [Step 13](#) or the activation task. If you do not plan to run the pre-caching utility, Cisco recommends that the first node you activate be a LAN-connected node. This ensures that the new CTC JAR files download to your workstation as quickly as possible.

**Step 1** Record the IP address of the node. The IP address is on the upper left corner of the CTC window.

**Step 2** Verify that the alarm filter is not on:

- a. Click the **Alarms** tab.
- b. Click the **Filter** tool at the lower-right side of the bottom toolbar.

Alarm filtering is enabled if the tool is depressed (selected) and disabled if the tool is raised (not selected).

**Step 3** On the Alarms tab, check all nodes for existing alarms. Resolve any outstanding alarms before proceeding.

**Step 4** Click the **Maintenance > Software** tabs.

**Step 5** Verify that the protect version is 6.2 (the release you are upgrading to).

**Step 6** Click **Activate**. The **Activate** dialog box appears with a warning message.

**Step 7** Click **Yes** to proceed with the activation. The “Activation Successful” message appears when the software is successfully activated. Click **OK** in the message box.

**Note**

When you click Yes, CTC will lose connection to the node and will display the network view.

**Step 8** After activating the node, the software upgrade reboot occurs as follows:

- Each card in the node resets, beginning with the expansion card. The CTX-CL card will then reset and come back up. When the CTX-CL is finished, the Ethernet card comes back up, followed by reset of the Electrical and optical ports. The whole process can take up to 8 minutes. This process is service affecting, so Cisco recommends that you activate the new load during a maintenance window. Time-division multiplexing (TDM) traffic can endure a hit of up to 50 ms. Expect Ethernet traffic to remain down from the time the expansion card resets, until all cards have finished resetting and come back up (this will take 3 to 8 minutes).

After the common control cards finish resetting and all associated alarms clear, you can safely proceed to the next step. (If you are upgrading remotely and cannot see the nodes, wait for 5 minutes for the process to complete, then check to ensure that related alarms have cleared before proceeding.)

**Caution**

The upgrade process is service affecting, so Cisco recommends that you activate the new load during a maintenance window. Time-division multiplexing (TDM) traffic can endure a hit of up to 50 ms. Ethernet traffic may remain down from the time the 15310-CL-CTX cards switch to the time all Ethernet cards have finished resetting.

**Step 9** In CTC, choose **File > Exit**.

**Step 10** In your browser window, click “Delete CTC Cache.” A confirmation dialog box is displayed.

**Step 11** Click **Yes** to confirm.




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**Note** You must ensure that CTC is closed before clicking the “Delete CTC Cache” button. CTC behavior will be unreliable if the button is clicked while the software is still running.

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**Note** It might also be necessary to delete cached files from your browser’s directory, or from the “temp” directory on your MS Windows workstation. If you have trouble reconnecting to CTC, complete the [“DLP-U216 Delete Cached JAR Files” task on page 10](#).

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**Step 12** Close your browser and then reopen it.

**Step 13** (Optional) Run the Cache Loader pre-caching utility, which can improve your speed logging back into CTC after an upgrade. Perform the following steps to run the Cache Loader.

- a. Load the Release 6.2 CD into your CD-ROM drive. If the directory of the CD does not open automatically, open it.
- b. Double-click the setup.exe file to run the Installation Wizard. The CTC installation wizard dialog box opens.
- c. Click Next. The setup options dialog box opens.
- d. Choose Custom, and click Next. The custom options dialog box opens.
- e. Select Cisco Transport Controller, and CTC JAR files (deselect any other preselected options), then click Next. A confirmation box opens.
- f. Click Next again. The CTC Cache Loader pre-caches the JAR files to your workstation, displaying a progress status box.
- g. When the utility finishes, click OK, and then in the wizard, click Finish.

**Step 14** Reconnect to CTC using the IP address from [Step 1](#). The new CTC applet for Software R6.2 uploads. During this logon, type the user name CISCO15. A password is not required.




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**Note** Steps [9](#) through [14](#) are only necessary after upgrading the first node in a network because cached files only need to be removed from your workstation once. For the remaining nodes, you will still be disconnected and removed to the network view during the node reboot, but after the reboot is complete, CTC will restore connectivity to the node.

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**Step 15** Return to your originating procedure (NTP).

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## DLP-U216 Delete Cached JAR Files

<b>Purpose</b>	This task manually deletes cached JAR files from your browser and hard drive. When you upgrade or revert to a different CTC software load, you must reload CTC to your browser. Before you can reload CTC, you must ensure that previously cached files are cleared from your browser and hard drive.
<b>Tools/Equipment</b>	PC or UNIX workstation
<b>Prerequisite Procedures</b>	<a href="#">DLP-U215 Activate the New Load, page 7</a>
<b>Required/As Needed</b>	As needed.
<b>Onsite/Remote</b>	Onsite or remote (but in the presence of the workstation)
<b>Security Level</b>	Maintenance or higher

**Step 1** Delete cache files from your browser directory.

In Netscape:

- a. Choose **Edit > Preferences > Advanced > Cache**.
- b. Click **Clear Memory Cache**.
- c. Click **OK**.
- d. Click **Clear Disk Cache**.
- e. Click **OK** twice.

In Microsoft Internet Explorer:

- a. Choose **Tools > Internet Options > General**.
- b. Choose **Delete Files**.
- c. Select the **Delete all offline content** check box.
- d. Click **OK** twice.

**Step 2** Close your browser.



**Note** You will not be able to delete cached JAR files from your hard drive until you have closed your browser. If you have other applications open that use JAR files, you must also close them.

**Step 3** Delete cached files from your workstation (Windows systems only).

- a. In your Windows start menu, choose **Settings > Control Panel > System > Advanced**.
- b. Click **Environment Variables**. This will show you a list of user variables and a list of system variables.
- c. In the list of user variables, look for the TEMP variable. The value associated with this variable is the path to your temporary directory where JAR files are stored.
- d. Open the TEMP directory located in the path you just looked up.
- e. Select **View > Details**.
- f. Select and delete all files with “jar” in the Name or Type field.

**Step 4** Reopen your browser. You should now be able to connect to CTC.

**Step 5** Return to your originating procedure (NTP).

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## DLP-U52 Set the Date and Time

<b>Purpose</b>	If you are not using SNTP, the upgrade procedure can cause the Date/Time setting to change. Perform this task to reset the date and time at each node.
<b>Tools/Equipment</b>	PC or UNIX workstation
<b>Prerequisite Procedures</b>	None
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote (but in the presence of the workstation)
<b>Security Level</b>	Superuser



**Note** If you are using SNTP, you do not need this task.

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- Step 1** In CTC node view, click the **Provisioning > General** tabs.
- Step 2** Set the correct date and time, then click **Apply**.
- Step 3** Repeat Steps 1 and 2 for each remaining node.
- Step 4** Return to your originating procedure (NTP).
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## NTP-116 Install Public-Key Security Certificate

<b>Purpose</b>	This procedure installs the ITU Recommendation X.509 public-key security certificate. The public-key certificate is required to run Software R4.1 or later.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	This procedure is performed when logging into CTC. You cannot perform it at any other time.
<b>Required/As Needed</b>	This procedure is required to run ONS 15310-CL software.
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning or higher

- Step 1** Log into CTC.
- Step 2** If the Java Plug-in Security Warning dialog box appears, choose one of the following options:
- **Grant This Session**—Installs the public-key certificate to your PC only for the current session. After the session is ended, the certificate is deleted. This dialog box will appear the next time you log into the ONS 15310-CL.
  - **Deny**—Denies permission to install the certificate. If you choose this option, you cannot log into the ONS 15310-CL.

- Grant always—Installs the public-key certificate and does not delete it after the session is over. Cisco recommends this option.
- View Certificate—Allows you to view the public-key security certificate.

After you complete the security certificate dialog boxes, the web browser displays information about your Java and system environments. If this is the first login, a CTC downloading message appears while CTC files are downloaded to your computer. The first time you connect to an ONS ONS 15310-CL, this process can take several minutes. After the download, the CTC Login dialog box appears.

**Step 3** If you need to return to the software and database you had before activating Software R6.2, proceed with the [“NTP-U140 Revert to Previous Software Load and Database” procedure on page 12](#).

**Stop. You have completed this procedure.**

## NTP-U140 Revert to Previous Software Load and Database

<b>Purpose</b>	This procedure restores the software and database provisioning you had before you activated Software R6.2.
<b>Tools/Equipment</b>	PC or UNIX workstation
<b>Prerequisite Procedures</b>	<a href="#">NTP-U137 Prepare for Upgrade to Release 6.2, page 3</a> <a href="#">NTP-U138 Back Up the Software Database, page 4</a> <a href="#">NTP-U139 Upgrade to Software R6.2, page 5</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote (but in the presence of the workstation)
<b>Security Level</b>	Superuser



### Note

The tasks to revert to a previous load are not a part of the upgrade. They are provided here as a convenience to those wishing to perform a revert after an upgrade. If you have performed all necessary procedures up to this point, you have finished the software upgrade.



### Note

Before you upgraded to Software R6.2, you should have backed up the existing database at all nodes in the network (this is part of the [“NTP-U138 Back Up the Software Database” procedure on page 4](#)). Cisco recommends that you record or export all critical information to your hard drive. If you need to revert to the backup database, use the following tasks, in order.

**Step 1** Log into the node. For detailed instructions, refer to the *Cisco ONS 15310-CL Procedure Guide*. If you are already logged in, continue with Step 2.

**Step 2** Complete the [“DLP-U183 Revert to Protect Load” task on page 13](#).

**Step 3** If the software revert to your previous release failed, complete the [“DLP-U184 Manually Restore the Database” task on page 14](#).

**Stop. You have completed this procedure.**

## DLP-U183 Revert to Protect Load

<b>Purpose</b>	This task reverts to the software you were running prior to the last activation and to restore your database to the provisioning you had prior to the activation.
<b>Tools/Equipment</b>	PC or UNIX workstation
<b>Prerequisite Procedures</b>	<a href="#">NTP-U137 Prepare for Upgrade to Release 6.2, page 3</a> <a href="#">NTP-U138 Back Up the Software Database, page 4</a> <a href="#">NTP-U139 Upgrade to Software R6.2, page 5</a>
<b>Required/As Needed</b>	Required for revert
<b>Onsite/Remote</b>	Onsite or remote (but in the presence of the workstation)
<b>Security Level</b>	Superuser



**Note** To perform a supported (non-service-affecting) revert from Software R6.2, the release you want to revert to must have been working at the time you activated to Software R6.2 on that node. Also, a supported revert automatically restores the node configuration at the time of the previous activation. Thus, any configuration changes made after activation will be lost when you revert the software. The exception to this is when you have downloaded Release 6.2 a second time, to ensure that no actual revert to a previous load can take place. In this latter case, the revert will occur, but will not be traffic affecting and will not change your database.

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- Step 1** From the node view, click the **Maintenance > Software** tabs.
- Step 2** Verify that the protect software displays the release you upgraded from.
- Step 3** Click **Revert**. Revert activates the protect software and restores the database from the previous load. A dialog box asks you to confirm the choice.
- Step 4** Click **Yes**. This begins the revert. CTC drops the connection to the node and takes you to the network view, displaying a confirmation dialog box.
- Step 5** Click **OK** and wait until the software revert finishes before continuing.



**Note** The system reboot might take up to 4 minutes to complete.

- Step 6** Wait one minute before reverting another node.
- Step 7** After reverting all of the nodes in the network, close and restart your Netscape or Internet Explorer browser and log back into the last node that was reverted. This uploads the appropriate CTC applet to your workstation.



**Note** It might also be necessary to delete cached files from your browser's directory or from the TEMP directory on your MS Windows workstation. If you have trouble reconnecting to CTC, see the [“DLP-U216 Delete Cached JAR Files” task on page 10](#).

- Step 8** Return to your originating procedure (NTP).
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## DLP-U184 Manually Restore the Database

<b>Purpose</b>	This task manually restores the database. If you were unable to perform a revert successfully and need to restore the database, perform this task.
<b>Tools/Equipment</b>	PC or UNIX workstation
<b>Prerequisite Procedures</b>	<a href="#">DLP-U183 Revert to Protect Load, page 13</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote (but in the presence of the workstation)
<b>Security Level</b>	Superuser



### Caution

Do not perform these steps unless the software revert failed.



### Caution

This process is service affecting and should be performed during a maintenance window.

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- Step 1** In the CTC node view, click the **Maintenance > Database** tabs.
- Step 2** Click **Restore**. The Open dialog box appears.
- Step 3** Select the previously saved file and choose **Open**.  
The database will be restored and the 15310-CL-CTX card will reboot.
- Step 4** When the 15310-CL-CTX card has rebooted, log back into CTC and verify that the database is restored.  
Wait one minute before restoring the next node.
- Step 5** You have now completed the manual database backup.
- Step 6** Return to your originating procedure (NTP).
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## Related Documentation

### Release-Specific Documents

- *Release Notes for Cisco ONS 15310-CL, Release 6.2*
- *Release Notes for Cisco ONS 15454 SDH, Release 6.2*
- *Release Notes for Cisco ONS 15454, Release 6.2*
- *Release Notes for Cisco ONS 15600, Release 6.2*
- *Release Notes for Cisco ONS 15327, Release 6.2*

### Platform-Specific Documents

- *Cisco ONS 15310-CL Procedure Guide, Release 6.0*

- *Cisco ONS 15310-CL Reference Manual*, Release 6.0
- *Cisco ONS 15310-CL Troubleshooting Guide*, Release 6.0
- *Cisco ONS 15310-CL Ethernet Card Software Feature and Configuration Guide*, Release 6.2
- *Cisco ONS SONET TL1 Command Guide*

## Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

Subscribe to the *What's New in Cisco Product Documentation* as a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS version 2.0.

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