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# Upgrading the Cisco ONS 15454 SDH to Release 4.x to 4.6

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### **Americas Headquarters**

Cisco Systems, Inc. 170 West Tasman Drive San Jose, CA 95134-1706 USA http://www.cisco.com Tel: 408 526-4000 800 553-NETS (6387) Fax: 408 527-0883

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### CHAPTER

# Upgrading the Cisco ONS 15454 SDH to Release 4.x to 4.6

This document explains how to upgrade Cisco ONS 15454 Cisco Transport Controller (CTC) software from Release 4.x to Release 4.6 using the TCC2 card.

Note

The terms "Unidirectional Path Switched Ring" and "UPSR" may appear in Cisco literature. These terms do not refer to using Cisco ONS 15xxx products in a unidirectional path switched ring configuration. Rather, these terms, as well as "Path Protected Mesh Network" and "PPMN," refer generally to Cisco's path protection feature, which may be used in any topological network configuration. Cisco does not recommend using its path protection feature in any particular topological network configuration.

This upgrade is supported only for Software Releases 4.0.x, 4.1.x, and 4.5. If you want to upgrade from an earlier software release, log into the Technical Support Website at http://www.cisco.com/cisco/web/support/index.html for more information or call Cisco TAC (1 800 553-2447).

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# Test

# **Errorless Upgrades and Exceptions**

This section describes important information to be aware of before you begin the upgrade process:

## **Document Procedures**

Procedures in this document must be performed in consecutive order unless noted otherwise. Ensure that the procedure is completed for each node in a given network. If you are new to upgrading the software, make a printed copy of this document and use it as a checklist.

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 as "procedures" and DLPs as "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 a 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).

- 1. NTP-U487 Preparing to Upgrade to a New Release, on page 2—This procedure contains critical information and tasks that you must read and complete before beginning the upgrade process.
- 2. NTP-U488 Back Up the Cisco Software Database, on page 3—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-U489 Upgrade the Cisco Software, on page 4—Complete this procedure to complete the upgrade.
- 4. NTP-U490 Install Public-Key Security Certificate, on page 10— Complete this procedure to be able to run the software.
- 5. NTP-U491 Restore the Previous Software Load and Database, on page 11— Complete this procedure if you want to return to the previous software load you were running before activating the new release.
- 6. Complete this procedure only if you want to upgrade to a new release using Transaction Language (TL1).

# NTP-U487 Preparing to Upgrade to a New Release

| Purpose                 | This procedure provides critical information checks and tasks you must<br>complete before beginning an upgrade to the latest release. |
|-------------------------|---|
| Tools/Equipment         |   |
| Prerequisite Procedures | "DLP-G46 Log into CTC" in the "Connect the PC and Log into the GUI" document.   |
| Required/As Needed      | Required  |
| Onsite/Remote           | Onsite or remote  |
| Security Level          | Superuser   |

### Procedure

| Step 1 | Before you begin, make sure that information related to your site, for example, date, street address, site phone number, and dialup number are stored in a safe and accessible location. The data will be useful during and after the upgrade.     |
|--------|--|
| Step 2 | Read the release notes of the release you are upgrading to. Visit Release Notes to download the release notes.   |
| Step 3 | Ensure your workstation meets the minimum hardware and software requirements before starting the upgrade.<br>For more information on the hardware and software requirements, read the release notes.   |
| Step 4 | Refer to the to verify if the upgrade path is supported.   |
| Step 5 | Make sure that the control cards are installed in the appropriate slots on all the nodes in the network and on both the slots as indicated here. For a complete list of supported control cards, see Supported Control Cards:                      |
| Step 6 | Repeat the above step for every node in the network.   |
| Step 7 | Collect the node diagnostics logs from the node. This action is very useful incase the upgrade fails, as the diagnostics help in understanding if the node had issues before the upgrade.  |
| Step 8 | Export the current alarms and conditions to your local storage. After the upgrade, if new alarms or conditions arise, then comparing the time stamp of the alarm to the previously saved time stamp helps in identifying new alarms or conditions. |
| Step 9 | Perform a backup of the node database. This is very useful incase the upgrade fails, then the database can be restored using the backup. The detailed procedure for backing up the database is discussed in the next section.                      |
|        | Stop. You have completed this procedure.   |

# NTP-U488 Back Up the Cisco Software Database

| Purpose                 | This procedure retains all configuration data for your network before performing the upgrade.  |
|-------------------------|--|
| Tools/Equipment         | PC or UNIX workstation   |
| Prerequisite Procedures | <ul> <li>"DLP-G46 Log into CTC" in the "Connect the PC and Log into the GUI <ul> <li>document.</li> <li>NTP-U487 Preparing to Upgrade to a New Release, on page 2</li> </ul> </li> </ul> |
| Required/As Needed      | Required   |
| Onsite/Remote           | Onsite or remote   |
| Security Level          | Superuser  |

### Procedure

**Step 1** In the node view, click the **Maintenance**>**Database** tabs.

**Step 2** In the database pane, click the **Backup** button.

The Database Backup dialog box is displayed.

- **Step 3** Click **Browse**. Navigate to the local PC directory or network directory and type a database name using the IP address of the node to upgrade in the File Name field and click **OK**. To overwrite an existing file, click **Yes**.
- **Step 4** When the backup is complete, click **OK**.
- **Step 5** Repeat Steps 1 through 5 for each node in the network.
- **Step 6** (Optional) It is recommended that you manually log critical information by either writing it down, printing screens, or by exporting the data to an appropriate format, as applicable. Use the following table to determine the information that should be logged.

| Information   | Record Data Here |
|---|------------------|
| IP address of the node  |                  |
| Node name   |                  |
| Timing settings   |                  |
| $DCC^{1}$ connections—list all optical ports with active DCCs                             |                  |
| User IDs of all users, including at least one Superuser                                   |                  |
| Inventory—A print screen of the Inventory window  |                  |
| Network information—A print screen of the Provisioning tab in the network view            |                  |
| List all protection groups in the system—A print screen of the<br>Protection group window |                  |
| List alarms—A print screen of the Alarm window  |                  |
| List circuits—A print screen of the Circuit window  |                  |

<sup>1</sup> DCC=data communications channel

Stop. You have completed this procedure.

# NTP-U489 Upgrade the Cisco Software

| Purpose                 | This procedure upgrades the CTC software to and must be performed<br>on all nodes, or groups of nodes to be upgraded. |
|-------------------------|---|
| Tools/Equipment         | PC or UNIX workstation  |
| Prerequisite Procedures | NTP-U488 Back Up the Cisco Software Database, on page 3   |
| Required/As Needed      | Required  |

|      | Onsite/   | Remote                                   | Onsite or remote  |  |
|------|---|--|---|--|
|      | Security Level  |  | Superuser   |  |
|      | $\triangle$   |  |   |  |
| Ca   | ution Do  | not perform mainte                       | enance or provisioning activities during the activation task.   |  |
|      | Procedu   | re                                       |   |  |
| ep 1 |   | e software CD into<br>e upgrade process. | the workstation CD-ROM drive (or otherwise acquire access to the software) to   |  |
|      | Note  |  | oftware CD activates the CTC Java Setup Wizard. Use the setup wizard to install s or click <b>Cancel</b> to continue with the upgrade.  |  |
| ep 2 | Complet   | e the DLP-U546 D                         | ownload the Software, on page 5 task for all nodes to be upgraded.  |  |
| ep 3 | Complet   | e the DLP-U548 A                         | ctivate the New Cisco Software, on page 7 task for all nodes to be upgraded.  |  |
|      | Note  | soon as the con                          | can be activated at a time. During a parallel upgrade, activate another node as<br>troller cards reboot successfully. To perform parallel upgrade remotely, wait five<br>controller cards to reboot completely. |  |
| ep 4 | Complet   | e the DLP-U549 D                         | elete Cached JAR Files, on page 8 task, as necessary.   |  |
| ep 5 |   |  | revent a software revert to an earlier software release, complete the DLP-U546 page 5 task on all nodes, or groups of nodes you are upgrading a second time.  |  |
| ep 6 | If you need to return to the software and database you had before activating Software, proceed with the NTP-U491 Restore the Previous Software Load and Database, on page 11 procedure. |  |   |  |
| ep 7 |   |  | abase for the working software load, see NTP-U488 Back Up the Cisco Software ure in order to preserve the database for the current release.   |  |
|      | Stor Vo   | u have completed                         | 41 **********   |  |

### What to do next

After upgrading the software to a different build, if there is a change in the FPGA, the FPGA is upgraded automatically. During the FPGA upgrade process, the card goes for a cold reboot. If Optical Supervisory Channel (OSC) is provisioned, then the transient PPM-IMPROPER-REMOVAL alarm is raised, which gets cleared in a short span of time. This happens because of the power glitches to the PPM while the card is coming up after the cold reboot.

### **DLP-U546 Download the Software**

| Purpose         | This task downloads software to the nodes before activation. |
|-----------------|--|
| Tools/Equipment | PC or UNIX workstation                                       |

| Prerequisite Procedures | NTP-U488 Back Up the Cisco Software Database, on page 3 |
|-------------------------|---|
| Required/As Needed      | Required  |
| Onsite/Remote           | Onsite or remote  |
| Security Level          | Maintenance user or higher                              |

**Note** The control card contains flash memory with two partitions—Working and protect (backup). The software is downloaded to the protect (backup) partition of the flash memory on both the standby and active cards. This download is not traffic affecting because the active software continues to run in the primary RAM location. The software can therefore be downloaded at any time.



Note To download and upgrade the software using TL1, see the procedure.

### Procedure

| Step 1From CTC View menu, choose Go to Network View.Step 2Make sure that the alarm filter is turned off. To do so, complete the follow<br>a) Click the Filter tool that is located at the lower-left side of the windo<br>The Alarm Filter dialog box appears. |  | e that the alarm filter is turned off. To do so, complete the following:<br>the <b>Filter</b> tool that is located at the lower-left side of the window.   |  |
|--|--|--|--|
|  | b) Click to select any check box that is not selected in the Show Severity section of the General tab. |  |  |
| Step 3   | Resolve a  | ny outstanding alarms. To view alarms for all the nodes in the network, click the Alarms tab.  |  |
|  | Note   | The SFTWDOWN alarm is raised on the standby and active control cards during software download. The alarms clear when the download is complete.   |  |
| Step 4   | From the CTC View menu, choose Go to Home View to go to the node view.                                 |  |  |
| Step 5   | Click the Maintenance> Software tabs.  |  |  |
| Step 6   | Click the <b>Download</b> button. The Download Selection dialog box appears.                           |  |  |
| Step 7   | Locate the software files on the software CD or on your hard drive.                                    |  |  |
| Step 8   | To open the folder, choose the file with the PKG extension and click <b>Open</b> .                     |  |  |
| Step 9   | From the list of compatible nodes, select the nodes where the software must be downloaded.             |  |  |
|  | Note   | It is recommended that simultaneous software downloads on the section data communications channel (SDCC) be limited to eight nodes at a time, using the central node to complete the download. If more than eight concurrent software downloads are selected at a time, it is placed in a queue. |  |
| Step 10  | Click OK   | A. The Download Status column monitors the progress of the download.   |  |

**Step 11** Return to your originating procedure (NTP).

### **DLP-U548 Activate the New Cisco Software**

| Purpose                 | This task activates the software on each node in the network. |
|-------------------------|---|
| Tools/Equipment         | PC or UNIX workstation  |
| Prerequisite Procedures | DLP-U546 Download the Software, on page 5                     |
| Required/As Needed      | Required  |
| Onsite/Remote           | Onsite or remote  |
| Security Level          | Superuser   |

**Note** It is recommended that the first node that is activated be connected via LAN. This ensures that the new CTC JAR files download to the workstation as quickly as possible.

If a node is provisioned to have no LAN access, the value is overridden in the case of node isolation. Additionally, if the node is not reachable, the LAN access is turned on. It is recommended that you avoid node isolation.

**Note** During the activation process, when the node is being upgraded to R11.0 (and later releases), the USB-MOUNT-FAIL alarm is raised. In MSM, the USB-MOUNT-FAIL alarm is raised on all subtended shelf controllers and the node controller. When all the subtended shelf controllers and the node controller complete the upgrade successfully, the USB-MOUNT-FAIL alarm is cleared. No manual intervention is required to clear the USB-MOUNT-FAIL alarm. After the USB-MOUNT-FAIL alarm is cleared, USB sync is triggered. After USB sync is successfully completed, the node is migrated to the latest software successfully.

### Procedure

| Step 1 | If CTC is not already started, start CTC.   |
|--------|---|
| Step 2 | Record the IP address of the node. The IP address can be obtained either on the LCD or on the upper left corner of the CTC window.  |
| Step 3 | <ul><li>Make sure that the alarm filter is turned off. To do so, complete the following:</li><li>a) Click the <b>Filter</b> tool at the lower-left side of the window.</li></ul>  |
|        | The Alarm Filter dialog box appears.  |
|        | b) Click to select any check box that is not selected in the Show Severity section of the General tab.  |
| Step 4 | Make sure that all cards that are part of a 1+1 or Y-cable protection group must be active on the working card of the protection group and no protection switches are occurring. Also, ensure that traffic carrying protect cards are in a standby state. To do so, complete the following: |

- a) In the node view, click Maintenance > Protection tabs.
- b) Select each protection group listed and view the active or standby status of each card in the Selected Group area.
- **Step 5** In shelf view, click the **Maintenance** > **Software** tabs.
- **Step 6** Verify that the version in the Protect Version column is .
- **Step 7** Click the **Activate** button. The Activate dialog box displays a warning message.
- **Step 8** Click **Yes** to proceed with the activation.

During node activation, all the common control cards in the node reboot beginning with the standby card. As soon as the standby card recovers from the reboot, it signals the active card to reset as a standby card and the standby card transitions to active. An Activation Successful message indicates that the software is successfully activated.

#### Step 9 Click OK.

The connection between CTC and the node is lost and CTC displays the Network view. The INCOMPATIBLE-SW alarm is raised in CTC for the first node that is activated because CTC is unable to connect to the NE due to differing, incompatible versions of the software between CTC and the NE. A CTC alert is displayed to update the CTC software. To clear the INCOMPATIBLE-SW alarm, perform steps 10 through 12 only for the first node that is activated on the network.

During the activation process:

• The SYSBOOT alarms are raised when the common control cards and cross-connect card reset. These alarms clears when all the cards reset.

The activation process can take up to 30 minutes, depending on the number of cards installed in the node.

- The GCC-EOC, EOC, and EOC-E alarms are transient. These alarms are raised and cleared during the upgrade process when the control cards and line cards reset.
- Protect cards in the Y-cable protection group boot next, in the order that the protection group was created.
- Other line cards reset one after the other in the order of slot number.

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.

- Step 10 In CTC, choose File > Update CTC. The CTC software is updated. A CTC alert is displayed to restart CTC.
- **Step 11** In CTC, choose **File > Exit.**
- **Step 12** Start CTC again.
- Step 13 Click the Launch CTC button in the CTC launcher window.

The new CTC applet loads. The login window is displayed.

- **Step 14** Type the user name and password and click **Login**.
- **Step 15** Return to your originating procedure (NTP).

### **DLP-U549 Delete Cached JAR Files**

| Purpose         | This task deletes cached JAR files. |
|-----------------|-------------------------------------|
| Tools/Equipment | PC or UNIX workstation              |

| Prerequisite Procedures | None  |
|-------------------------|---|
| Required/As Needed      | You need to complete this task after you activate the first network node. |
| Onsite/Remote           | Onsite or remote  |
| Security Level          | Maintenance user or higher  |

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**Note** Whenever the CTC software is upgraded or reverted, make sure that the browser and hard drive cache files are cleared.

### Procedure

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

In Netscape:

- a) Select Edit > Preferences. Click the Advanced tab and click the Cache button.
- b) Click the Clear Memory Cache button, and click OK.
- c) Click the Clear Disk Cache button, and click OK twice.

In Microsoft Internet Explorer:

- a) Select Tools > Internet Options. The Internet Options dialog box appears.
- b) Click the General tab, and then click the Delete Files button.
- c) Select the **Delete all offline content** check box.
- d) Click **OK** twice.

### **Step 2** Close the browser.

- **Note** Cached JAR files cannot be deleted from the hard drive until the browser is closed. Other applications that use JAR files must also be closed.
- Step 3On Windows systems, delete cached files from your workstation in this location:C:\Documents and Settings\username\Application Data\Cisco\CTC
- **Step 4** Reopen the browser. You should now be able to connect to CTC.
- **Step 5** Return to your originating procedure (NTP).

### **DLP-U551 Set the Date and Time**

| Purpose                 | This task sets the date and time. 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. |  |
|-------------------------|--|--|
| Tools/Equipment         | PC or UNIX workstation   |  |
| Prerequisite Procedures | None   |  |

| Required/As Needed | As needed        |
|--------------------|------------------|
| Onsite/Remote      | Onsite or remote |
| Security Level     | Superuser        |

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**Note** If you are using SNTP, this task is not applicable.

#### Procedure

| Step 1 | In CTC node view, click the <b>Provisioning</b> > <b>General</b> tabs. |
|--------|--|
| Step 2 | Set the correct date and time. Click Apply.                            |

- **Step 3** Repeat Steps 1 and 2 on all the remaining nodes.
- **Step 4** Return to your originating procedure (NTP).

# **NTP-U490 Install Public-Key Security Certificate**

| Purpose                 | 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. |
|-------------------------|---|
| Tools/Equipment         | None  |
| Prerequisite Procedures | This procedure is performed when logging into CTC.<br>You cannot perform it at any other time.  |
| Required/As Needed      | This procedure is required to run software R4.1 or later.   |
| Onsite/Remote           | Onsite or remote  |
| Security Level          | Provisioning or higher  |

### Procedure

**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 on the PC only for the current session. After the session ends, the certificate is deleted. This dialog box appears at the next login into the node.
- Deny-Denies permission to install the certificate. If this option is chosen, login into the node is denied.

- Grant always—Installs the public-key certificate and does not delete it after the session is over. It is recommended to use this option.
- View Certificate—The public-key security certificate is displayed.

After the completion of the security certificate dialog boxes, the web browser displays information about the Java and system environments. If this is the first login, a CTC downloading message appears while CTC files are downloaded to the computer. The process can take several minutes, if it is the first time. After the download, the CTC Login dialog box appears.

**Step 3** Return to the software and database you had before activating the software, proceed with the NTP-U491 Restore the Previous Software Load and Database, on page 11 procedure.

Stop. You have completed this procedure.

# **NTP-U491 Restore the Previous Software Load and Database**

| Purpose                 | This procedure returns to the software and database provisioning that was present before was activated.  |
|-------------------------|--|
|                         | The software load and database cannot be restored to the previous version if the software on both the working and protect cards were upgraded to . |
| Tools/Equipment         | PC or UNIX workstation   |
| Prerequisite Procedures | "DLP-G46 Log into CTC" in the "Connect the PC and Log into the GUI" document.  |
|                         | NTP-U487 Preparing to Upgrade to a New Release, on page 2  |
|                         | NTP-U488 Back Up the Cisco Software Database, on page 3  |
|                         | NTP-U489 Upgrade the Cisco Software, on page 4   |
| Required/As Needed      | As needed  |
| Onsite/Remote           | Onsite or remote   |
| Security Level          | Superuser  |

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

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#### Caution

**n** If a node is set to secure, dual-IP mode, the database information is overwritten with this configuration and cannot be reverted to single-IP repeater mode.

Step 1

Step 2

 Note
 All line cards of the subtended shelf controller may undergo a reboot during a software revert from Release 11.0 or earlier to a previous software release and is traffic impacting.

 Procedure

 Complete the DLP-U552 Revert to Protect Load, on page 12 task.

 If the software revert to your previous release failed to restore the database, complete the DLP-U553 Manually Restore the Database, on page 13 task.

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Stop. You have completed this procedure.

### **DLP-U552 Revert to Protect Load**

| Purpose                 | This task reverts to the software you were running prior to the last activation.  |
|-------------------------|---|
| Tools/Equipment         | PC or UNIX workstation  |
| Prerequisite Procedures | NTP-U487 Preparing to Upgrade to a New Release, on page 2NTP-U488 Back Up the Cisco Software Database, on page 3NTP-U489 Upgrade the Cisco Software , on page 4 |
| Required/As Needed      | Required for revert   |
| Onsite/Remote           | Onsite or remote  |
| Security Level          | Superuser   |

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**Note** To perform a supported (non-service-affecting) revert from , the release you want to revert to must have been working at the time you activated to the current software version on that node. Also, a supported revert automatically restores the node configuration at the time of the previous activation. The exception to this is when you have downloaded a second time, ensuring that no revert to a previous load can take place. In this case, the revert occurs, but is not traffic-affecting and does not change the database.



Note

Ensure that all cards that are part of a protection group (1+1 or Y-cable) are active on the working card of that protection group and that no protection switches are occurring. To ensure that traffic carrying protect cards are in a standby state, in the node view click the **Maintenance** tab, and view the Protect column for each of the listed protection groups. View the active/standby status of each card in the Maintenance tab.

### Procedure

| Step 1 | From the node view, click the Maintenance tab, then click the Software button.  |   |  |
|--------|---|---|--|
| Step 2 | Verify that the protect software displays the release you upgraded from.  |   |  |
| Step 3 | Click the <b>Revert</b> button. Revert activates the protect software and restores the database from the previous load. A confirmation dialog box appears.                        |   |  |
|        | Note  | Any FPGA downgrades during the revert process may affect traffic. Configuration changes made after activation are lost when you revert. |  |
| Step 4 | Click <b>OK</b> . This begins the revert process and drops the connection to the node.  |   |  |
| Step 5 | <b>5</b> Wait until the software revert completes before continuing.  |   |  |
|        | Note  | The system reboot may take up to 30 minutes to complete.  |  |
| Step 6 | Wait one minute before reverting another node.  |   |  |
| Step 7 | After reverting all the nodes in the network, restart the browser and log back into the last node that was reverted. This uploads the appropriate CTC applet to your workstation. |   |  |
| Step 8 | Perform the DLP-U549 Delete Cached JAR Files, on page 8 task.   |   |  |
| Step 9 | Return to your originating procedure (NTP).   |   |  |

# **DLP-U553 Manually Restore the Database**

| Purpose                 | This task manually restores the database. Use this task<br>if you were unable to perform a revert successfully<br>and need to restore the database. |
|-------------------------|---|
| Tools/Equipment         | PC or UNIX workstation  |
| Prerequisite Procedures | DLP-U552 Revert to Protect Load, on page 12   |
| Required/As Needed      | As needed   |
| Onsite/Remote           | Onsite or remote  |
| Security Level          | Superuser   |

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Caution Do not perform these steps unless the software revert failed.

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Caution

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

### Procedure

| Step 1 | In CTC n  | In CTC node view, click the Maintenance tab, then click the Database button.   |  |  |
|--------|---|--|--|--|
| Step 2 | Click the   | Click the <b>Restore</b> button. The DB Restore dialog box appears.  |  |  |
| Step 3 | Click Bro   | wse to locate the database file stored on the workstation hard drive or on network storage.  |  |  |
| Step 4 | Click the database file to highlight it and click <b>Open</b> . The DB Restore dialog box appears.  |  |  |  |
| Step 5 | If you nee  | d a complete database restore, check the Complete database (System and Provisioning) checkbox.   |  |  |
|        | Note  | The following parameters are restored only when the <b>Complete Database (System and Provisioning)</b> checkbox is checked: node name, IP address, subnet mask and gateway, and IIOP port. If you change the node name and then restore a backed up database on this node, the circuits automatically map to the newly renamed node. It is recommended to keep a record of the old and new node names. |  |  |
| Step 6 | Click Ok  |  |  |  |
|        | The datab   | base is restored and the control cards reboot.   |  |  |
| Step 7 | When the control cards have finished rebooting, log into CTC and verify that the database is restored.<br>Wait one minute before restoring the next node. |  |  |  |
| Step 8 | Repeat Steps 1 to 7 for each node in the network.<br>You have now completed the manual database restore.  |  |  |  |
| Step 9 | Return to your originating procedure (NTP).   |  |  |  |
|        |   |  |  |  |

# **Related Documentation**

Use this document in conjunction with the following publications:

- Release notes:
- TL1 command guides:
- Troubleshooting guides:

# **Obtaining Documentation and Submitting a Service Request**

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