Power Down the Node

This chapter explains how to power down a node and stop all node activity on the Cisco ONS 15454.

NTP-A114 Power Down the Node

Purpose	This procedure stops all node activity.
Tools/Equipment	None
Prerequisite Procedures	None
Required/As Needed	As needed
Onsite/Remote	Onsite
Security Level	For software steps, provisioning level or higher is required. For hardware steps, any level is allowed.

Warning **Do not reach into a vacant slot or chassis while you install or remove a module or a fan. Exposed circuitry could constitute an energy hazard.** Statement 206

Caution The following procedure is designed to minimize traffic outages when powering down nodes, but traffic will be lost if you delete and recreate circuits that passed through a working node.

Note Always use the supplied ESD wristband when working with the Cisco ONS 15454. Plug the wristband into the ESD jack located on the fan-tray assembly or on the lower right outside edge of the shelf on the NEBS 3 shelf assembly. To access the ESD plug on the NEBS 3 shelf assembly, open the front door of the Cisco ONS 15454. The front door is grounded to prevent electrical shock.

Step 1 Identify the node that you want to power down. If no cards are installed, go to Step 13. If cards are installed, log into the node. See the "DLP-A60 Log into CTC" task on page 17-66 for instructions.

Step 2 In node view, choose **Go to Network View** from the View menu.

Step 3 Verify that the node is not connected to a network.

  a. If the node is part of a working network, log out of the node and complete the "NTP-A313 Remove an In-Service Node from a Linear ADM" procedure on page 14-17, the "NTP-A240 Remove a BLSR Node" procedure on page 14-6, or the "NTP-A294 Remove a Path Protection Node"

procedure on page 14-12. If the node is part of a Software R6.0 Multiservice Transport Platform (MSTP) configuration, refer to the *Cisco ONS 15454 DWDM Installation and Operations Guide, Release 6.0*. Continue with Step 4.

b. If the node is not connected to a working network and the current configurations are no longer required, proceed to Step 4.

> **Note** Current configurations will be saved if Steps 4 to 13 are skipped.

Step 4 In node view, click the **Circuits** tab and verify that no circuits are displayed, then proceed to Step 5. If circuits are displayed, delete all the circuits that originate or terminate in the node, as follows:

> **Note** When deleting circuits from a node, make sure that the node is not connected to any network.

    a. Click the circuits that need to be deleted and click **Delete**.

    b. Click **Yes**.

Repeat until no circuits are displayed.

Step 5 In node view, click the **Provisioning > Protection** tabs and delete all protection groups:

    a. Click the protection group that needs to be deleted and click **Delete**.

    b. Click **Yes**.

Repeat until no protection groups are displayed.

Step 6 In node view, click the **Provisioning > Comm Channels** tabs and delete all communications channel terminations:

    a. Click the section data communications channel (SDCC), line data communications channel (LDCC), generic communications channel (GCC), or OSC termination that needs to be deleted and click **Delete**.

    b. Click **Yes**.

Repeat until no SDCC, LDCC, GCC, or OSC terminations are present.

> **Note** Before deleting the OSC termination, make sure the Ring ID is deleted. Click the **Provisioning > Comm Channels > OSC** tabs. Select the Ring ID and click **Delete**.

Step 7 For each installed OC-N or DS-N card, place all ports in Out-of-Service and Management, Disabled (OOS-MA,DSBLD) service status:

    a. In card view, click the **Provisioning > Line** tabs.

    b. Click under the Status column for each port and make sure that **OOS,DSBLD** is selected.

> **Note** Refer to the *Cisco ONS 15454 DWDM Installation and Operations Guide, Release 6.0* for information regarding DWDM cards.

Step 8 Remove all fiber connections to the cards.

Step 9 In node view, right-click an installed card and click **Delete**.

Step 10 Click **Yes**.

Step 11 After you have deleted the card, open the card ejectors and remove it from the node.

Step 12 Repeat Step 7 through 11 for each installed card.

> **Note** You cannot delete an Advanced Timing, Communications, and Control (TCC2) card in Cisco Transport Controller (CTC). Physically remove it after all the other cards have been deleted and removed.

Step 13 Shut off the power from the power supply that feeds the node.

Step 14 Disconnect the node from its external fuse source.

Step 15 Store all the cards you removed and update inventory records according to local site practice.

Stop. You have completed this procedure.