



Power Down the Node



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 chapter explains how to power down a node and stop all node activity on the Cisco ONS 15600.

NTP-E80 Power Down the ONS 15600

Purpose	This procedure stops all node activity.
Tools/Equipment	None
Prerequisite Procedures	None
Required/As Needed	As needed
Onsite/Remote	Onsite
Security Level	Provisioning or higher



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 is 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 15600. Plug the wristband into the ESD jack located on the fan-tray assembly or on the lower-left outside edge of the shelf on the shelf assembly.

Step 1

Identify the node that you want to power down. If no cards are installed, go to Step 15. If cards are installed, complete the [“DLP-E26 Log into CTC” task on page 16-39](#).

Step 2 From the View menu, choose **Go To Network View**.

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

- a. If the node is part of a path protection, log out of the node and complete the “[NTP-E123 Remove a Path Protection Node](#)” procedure on page 13-11. Continue with [Step 4](#).
- b. If the node is part of a bidirectional line switched ring (BLSR), log out of the node and complete the “[NTP-E169 Remove a BLSR Node](#)” procedure on page 13-6. Continue with [Step 4](#).
- c. If the node is part of a point-to-point or linear add/drop multiplexer (ADM), go to [Step 6](#).
- d. If the node is not connected to a working network and the current configurations are no longer required, proceed to [Step 4](#).



Note You can save the current configurations by skipping Steps 4 through 15.

Step 4 From the View menu, choose **Go To Home View**.

Step 5 Click the **Circuits** tab and verify that no circuits appear, then proceed to [Step 6](#). If circuits appear, delete all the circuits that originate or terminate in the node:

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

Repeat until no circuits are present. For more information, see the “[DLP-E163 Delete Circuits](#)” task on page 17-49.

Step 6 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 present. For more information, see the “[DLP-E87 Delete a 1+1 Protection Group](#)” task on page 16-91.

Step 7 Click the **Provisioning > Comm Channels > SDCC** tab and delete all SONET data communications channel (SDCC) terminations:

- a. Click the SDCC termination that needs to be deleted and click **Delete**.
- b. Click **Yes**.

Repeat until no SDCC terminations are present. For more information, see the “[NTP-E128 Modify or Delete Communications Channel Terminations and Provisionable Patchcords](#)” procedure on page 11-8.

Step 8 For each installed card, put all ports in Out of Service status:

- a. Double-click a card to display card view.
- b. Click the **Provisioning > Line** tabs.
- c. Click in the Status column for each port and choose **Out of Service**.
- d. Click **Apply**.

Step 9 Remove all fiber connections to the cards.

Step 10 From the View menu, choose **Go To Home View** to return to node view.

Step 11 Right-click an installed card and click **Delete**.

You cannot delete a card if any of the following conditions apply:

- The card is part of a protection group.

- The card has circuits.
- The card is being used for timing.
- The card has a SONET DCC termination.

Step 12 Click **Yes**.

For more information about card deletion, see the [“DLP-E17 Delete a Card from CTC” task on page 16-22](#).

Step 13 After you have deleted the card, open the card ejectors and remove it from the node.

Step 14 Repeat Steps 8 through 13 for each installed card.

Step 15 Shut off the power from the power supply that feeds the node. For more information about power issues, see the [“NTP-E4 Install the Bay Power and Ground” procedure on page 1-9](#).

Step 16 Disconnect the node from its external fuse source.

Step 17 Store all cards and update inventory records according to local site practice.

Stop. You have completed this procedure.
