



Power Down the Node

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



Except where noted, this procedure applies to both multiservice transport protocol (MSTP) and SONET platform nodes.

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 the provisioning level or higher is required. For hardware steps any level is allowed.



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.



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.



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 16](#). If cards are installed, log into the node. See the [“DLP-A60 Log into CTC” task on page 3-24](#) 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-A263 Remove a Node from a Linear ADM](#)” procedure on page 16-21, the “[NTP-A213 Remove a BLSR Node](#)” procedure on page 16-9, or the “[NTP-A106 Remove a Path Protection Node](#)” procedure on page 16-18. If the node is part of a Software R4.6 MSTP configuration, consult your network administrator. 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 [4–16](#) 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:

- 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** > **DCC/GCC/OSC** tabs and delete all SDCC or OSC terminations:

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

Repeat until no SDCC or OSC terminations are present.

Step 7 For each installed OC-N or DS-N card, place all ports in Out of Service status:

- a. In card view, click the **Provisioning** > **Line** tabs.
- b. Click under the Status column for each port and choose **Out of Service**.

Step 8 For each installed MSTP channel-bearing card, place all lines and channels in Out of Service status:

- a. In the card view, click the **Provisioning** > **Optical Line** > **Parameters** tabs.
- b. Click under the Status column for each line and choose **Out of Service**.
- c. Click the **Provisioning** > **Optical Chn** > **Parameters** tabs.
- d. Click under the Status column for each channel and choose **Out of Service**.

Step 9 For each installed MSTP band-bearing card, place all lines and bands in Out of Service status:

- a. In the card view, click the **Provisioning** > **Optical Line** > **Parameters** tabs.
- b. Click under the Status column for each line and choose **Out of Service**.
- c. Click the **Provisioning** > **Optical Band** > **Parameters** tabs.
- d. Click under the Status column for each band and choose **Out of Service**.

- Step 10** For each installed DWDM transponder (TXP) or Muxponder (MXP) card, place all lines in Out of Service status:
- In the card view, click the **Provisioning > Line > SONET** tabs if the card was provisioned for a SONET payload, or the **Provisioning > Line > SDH** tabs if the card was provisioned for an SDH payload.
 - Click under the Status column for each line and choose **Out of Service**.
- Step 11** Remove all fiber connections to the cards.
- Step 12** In node view, right-click an installed card and click **Delete**.
- Step 13** Click **Yes**.
- Step 14** After you have deleted the card, open the card ejectors and remove it from the node.
- Step 15** Repeat [Step 7](#) through [14](#) for each installed card.



Note You cannot delete a TCC2 card in CTC. Physically remove it after all the other cards have been deleted and removed.

- Step 16** Shut off the power from the power supply that feeds the node.
- Step 17** Disconnect the node from its external fuse source.
- Step 18** Store all the cards you removed and update inventory records according to local site practice.
- Stop. You have completed this procedure.**
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