



CHAPTER 10

Change Port Settings

This chapter explains how to change transmission settings on ports in a Cisco ONS 15310-CL or Cisco ONS 15310-MA.

Before You Begin

Before performing any of the following procedures, investigate all alarms and clear any trouble conditions. Refer to the *Cisco ONS 15310-CL and Cisco ONS 15310-MA Troubleshooting Guide* as necessary.



Caution

Changing card or port settings can be service affecting. You should make all changes during a scheduled maintenance window.

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

1. [NTP-C86 Modify Line Settings and PM Parameter Thresholds for Electrical Ports, page 10-2](#)—Complete as needed.
2. [NTP-C87 Modify Line Settings and PM Parameter Thresholds for Optical Ports, page 10-2](#)—Complete as needed.
3. [NTP-C130 Manage Pluggable Port Modules, page 10-3](#)—Complete this procedure to provision, change, or delete pluggable port modules (PPMs), which provide OC-3 or OC-12 line rates for ONS 15310-CL and ONS 15310-MA optical ports.
4. [NTP-C92 Change Card or PPM Service State, page 10-4](#)—Complete as needed.
5. [NTP-C172 Provision the Soak Timer for an ML-100T-8 Card, page 10-4](#)—Complete as needed.

NTP-C86 Modify Line Settings and PM Parameter Thresholds for Electrical Ports

Purpose	This procedure changes the line and threshold settings for electrical ports.
Tools/Equipment	None
Prerequisite Procedures	None
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

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- Step 1** Complete the “[DLP-C29 Log into CTC](#)” task on page 17-44 at the node where you want to change the port settings.
- Step 2** According to site practice, complete the “[NTP-C102 Back Up the Database](#)” procedure on page 15-2 to preserve the existing database.
- Step 3** Perform any of the following tasks as needed:
- [DLP-C233 Change Line and Threshold Settings for DS-1 Ports](#), page 19-32
 - [DLP-C236 Change Line and Threshold Settings for DS-3 Ports](#), page 19-39
 - [DLP-C237 Change Line and Threshold Settings for the EC-1 Ports](#), page 19-42
- Step 4** When you have finished changing the port settings, complete the “[NTP-C102 Back Up the Database](#)” procedure on page 15-2 according to site practice.
- Stop. You have completed this procedure.**
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NTP-C87 Modify Line Settings and PM Parameter Thresholds for Optical Ports

Purpose	This procedure changes the line and threshold settings for the optical ports.
Tools/Equipment	None
Prerequisite Procedures	None
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

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- Step 1** Complete the “[DLP-C29 Log into CTC](#)” task on page 17-44 at the node where you want to change the port settings. If you are already logged in, continue with Step 2.
- Step 2** According to site practice, complete the “[NTP-C102 Back Up the Database](#)” procedure on page 15-2 to preserve the existing database.
- Step 3** Perform any of the following tasks as needed:
- [DLP-C238 Change Optical Port Line Settings](#), page 19-46

- [DLP-C239 Change Optical Port SONET Thresholds Settings](#), page 19-50
- [DLP-C224 Change Optics Thresholds Settings for Optical Ports](#), page 19-22



Note To modify settings on the SONET STS tab, see the “[DLP-C99 Enable Intermediate-Path Performance Monitoring](#)” task on page 17-119.

- Step 4** According to site practice, complete the “[NTP-C102 Back Up the Database](#)” procedure on page 15-2.
Stop. You have completed this procedure.

NTP-C130 Manage Pluggable Port Modules

Purpose	This procedure provisions, changes, and deletes Small Form-factor Pluggables (SFPs), which are known as pluggable port modules (PPMs) in Cisco Transport Controller (CTC). OC-3, OC-12, and multirate (OC-3/OC-12) PPMs are compatible with the ONS 15310-CL and ONS 15310-MA. OC-48 PPMs are compatible with the ONS 15310-MA only. Single-rate PPMs do not require provisioning or changing.
Tools/Equipment	None
Prerequisite Procedures	DLP-C16 Install SFP Connectors , page 17-22 or NTP-C9 Preprovision an SFP Slot , page 1-14
Required/As Needed	Required
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

- Step 1** Complete the “[DLP-C29 Log into CTC](#)” task on page 17-44 at the node where you want to manage PPMs.
- Step 2** Click the **Alarms** tab:
- Verify that the alarm filter is not turned on. See the “[DLP-C88 Disable Alarm Filtering](#)” task on page 17-109 as necessary.
 - Verify that no unexplained conditions appear on the network. If unexplained conditions appear, resolve them before continuing. Refer to the *Cisco ONS 15310-CL and Cisco ONS 15310-MA Troubleshooting Guide*.
 - Complete the “[DLP-C223 Export CTC Data](#)” task on page 19-20 to export alarm and condition information.
- Step 3** As needed, complete the “[DLP-C192 Provision a Multirate Pluggable Port Module](#)” task on page 18-92. If you preprovisioned a multirate SFP, skip this task and continue with **Step 4**.
- Step 4** As needed, complete the “[DLP-C193 Provision the Optical Line Rate](#)” task on page 18-92 to assign an OC-3 or OC-12 line rate.
- Step 5** As needed, complete the “[DLP-C194 Change the Optical Line Rate](#)” task on page 18-93 to change the line rate on a multirate PPM.
- Step 6** As needed, complete the “[DLP-C195 Delete Pluggable Port Modules](#)” task on page 18-94.

Step 7 Stop. You have completed this procedure.

NTP-C92 Change Card or PPM Service State

Purpose	This procedure changes the card or port service state, which is an autonomously generated state that gives the overall condition of the port.
Tools/Equipment	None
Prerequisite Procedures	Chapter 1, “Install the Cisco ONS 15310-CL” Chapter 2, “Install the Cisco ONS 15310-MA”
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher



Note

On the ONS 15310-CL and ONS 15310-MA, the pluggable-port module (PPM) is equivalent to an optical port.

- Step 1** Complete the [“DLP-C29 Log into CTC” task on page 17-44](#) at the node where you want to change card or PPM service state.
- Step 2** Click the **Inventory** tab.
- Step 3** Click **Admin State** for the card or PPM that you want to change, and choose an administrative state from the drop-down list: **IS** or **OOS,MT**.
- Step 4** Click **Apply**.
- Step 5** If an error message appears indicating that the card or PPM service state cannot be changed from its current service state, click **OK**.

Depending on the administrative state that you choose, the card or port/PPM transitions to a different service state. For more information about the service states and card state transitions, refer to the “Administrative and Service States” appendix of the *Cisco ONS 15310-CL and Cisco ONS 15310-MA Reference Manual*.

Stop. You have completed this procedure.

NTP-C172 Provision the Soak Timer for an ML-100T-8 Card

Purpose	This procedure provisions the soak timer for ports on an ML-100T-8 card. The soak period is the amount of time that the ML-100T-8 port remains in the Down state after an error-free signal is continuously received before transitioning to the Up state.
Tools/Equipment	None
Prerequisite Procedures	NTP-C4 Install an Ethernet Card, page 1-7

Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

- Step 1** Complete the “[DLP-C29 Log into CTC](#)” task on page 17-44 at the node where you want to provision the soak timer for an ML-100T-8 card. If you are already logged in, continue with Step 2.
- Step 2** In node view, double-click the ML-100T-8 card that you want to provision.
- Step 3** Click the **Provisioning** tab.
- Step 4** Click the **Ether Ports** or **POS Ports** subtabs and complete the following:
- **PSAS**—Check to enable Pre-Service Alarm Suppression (PSAS), which suppresses all alarms on the port for the time designated in the Soak Time column.
 - **Soak Time**—Choose the desired soak time (in hours and minutes). Use this column when you have checked PSAS to suppress alarms. Once the port detects a signal, the countdown begins for the designated soak time. Soak time hours can be set from 0 to 48. Soak time minutes can be set from 0 to 45 in 15 minute increments.
- Step 5** Click **Apply**.
- Stop. You have completed this procedure.**
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