



## Change Card Settings

This chapter explains how to change transmission settings on cards in a Cisco ONS 15600 SDH.

### Before You Begin

As necessary, complete the [“NTP-F188 Document Existing Provisioning” procedure on page 9-1](#).

Before performing the following procedures, investigate all alarms and clear any trouble conditions. Refer to the *Cisco ONS 15600 SDH Troubleshooting Guide* as necessary.

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

1. [NTP-F196 Manage Pluggable Port Modules on the ASAP Card, page 10-1](#)—Complete this procedure to provision a multirate pluggable port module (PPM), provision or change the line rate or wavelength on a PPM, or delete a PPM.
2. [NTP-F197 Modify Line and Status Thresholds for Optical Ports, page 10-2](#)—As needed, complete this procedure to change line (drop) and threshold settings for all STM-N cards.
3. [NTP-F198 Change an Optical Port to SONET, page 10-3](#)—As needed, complete this procedure to change an optical port from SDH to SONET.
4. [NTP-F199 Change the Card Service State, page 10-4](#)—As needed, complete this procedure to change the card service state.

## NTP-F196 Manage Pluggable Port Modules on the ASAP Card

<b>Purpose</b>	The ASAP card hosts a total of four 4PIO or 1PIO modules. Small-form factor pluggables (SFPs) provide a fiber interface to 4PIO modules, and XFPs provide a fiber interface to 1PIO modules. A line rate (STM-1, STM-4, STM-16, STM-64, or Gigabit Ethernet) must be assigned to each SFP/XFP. In CTC, SFPs and XFPs are known as PPMs. Use this procedure to provision multirate PPMs, provision or change the optical line rate on a multirate PPM, or delete PPMs.
<b>Tools/Equipment</b>	None

<b>Prerequisite Procedures</b>	<a href="#">NTP-F120 Install the ASAP Card, page 2-6</a> <a href="#">DLP-F384 Install the ASAP IPIO and 4PIO (PIM) Modules, page 18-95</a> <a href="#">DLP-F387 Install an SFP/XFP, page 18-101</a> or <a href="#">DLP-F335 Preprovision an SFP, page 18-35</a>
<b>Required/As Needed</b>	Required
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning or higher

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- Step 1** Complete the “[DLP-F181 Log into CTC](#)” task on page 16-34 to log into an ONS 15600 SDH on the network. If you are already logged in, continue with Step 2.
- Step 2** In network view, click the **Alarms** tab:
- Verify that the alarm filter is not turned on. See the “[DLP-F288 Disable Alarm Filtering](#)” task on page 17-78 as necessary.
  - Verify that no unexplained conditions appear on the network. If unexplained conditions appear, resolve them before continuing. Refer to the *Cisco ONS 15600 SDH Troubleshooting Guide*.
  - Complete the “[DLP-F379 Export CTC Data](#)” task on page 18-88 to export alarm and condition information.
- Step 3** Complete the [DLP-F358 Provision a Multirate PPM, page 18-70](#) if you installed a multirate SFP on a 4PIO module. If you preprovisioned the SFP, skip this step and continue with [Step 4](#).
- Step 4** Complete the “[DLP-F390 Provision an Optical Line Rate and Wavelength](#)” task on page 18-104 to assign an STM-1, STM-4, STM-16, or Gigabit Ethernet line rate on an SFP installed on a 4PIO module, or to assign an STM-64 line rate on an XFP installed on a IPIO module.
- Step 5** Complete the “[DLP-F359 Change the Optical Line Rate](#)” task on page 18-71 as needed.
- Step 6** Complete the “[DLP-F360 Delete a PPM](#)” task on page 18-72 as needed.
- Stop. You have completed this procedure.**
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## NTP-F197 Modify Line and Status Thresholds for Optical Ports

<b>Purpose</b>	This procedure changes line settings, line status (in service or out of service), and performance monitoring (PM) thresholds for STM-16 cards, STM-64 cards, and STM-N ports on the ASAP card.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">NTP-F119 Install the STM-N Cards, page 2-4</a> or <a href="#">NTP-F120 Install the ASAP Card, page 2-6</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security</b>	Provisioning or higher

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- Step 1** Complete the “[DLP-F181 Log into CTC](#)” task on page 16-34 at the node where you want to change the settings. If you are already logged in, continue with Step 2.

**Step 2** As needed, complete the “[NTP-F221 Back Up the Database](#)” procedure on page 14-4.

**Step 3** Perform any of the following tasks as needed:

- [DLP-F392 Change Line Transmission Settings for STM-N Cards](#), page 18-108
- [DLP-F393 Change Threshold Settings for STM-N Ports](#), page 18-112
- [DLP-F394 Change Optics Threshold Settings for STM-N Ports](#), page 18-114
- [DLP-F395 Change the STM-N Port ALS Maintenance Settings](#), page 18-116

**Step 4** As needed, complete the “[NTP-F221 Back Up the Database](#)” procedure on page 14-4.



**Note** See [Chapter 9, “Manage Alarms”](#) for information about the Alarm Behavior tab, including alarm profiles and alarm suppression.

**Stop. You have completed this procedure.**

## NTP-F198 Change an Optical Port to SONET

<b>Purpose</b>	This procedure provisions a port on an STM-N card for SONET. The port must be in the Locked,maintenance administrative state before you change the port from SDH to SONET.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">NTP-F199 Change the Card Service State</a> , page 10-4
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning or higher

**Step 1** Complete the “[DLP-F181 Log into CTC](#)” task on page 16-34 at the node where you want to change the settings. If you are already logged in, continue with Step 2.

**Step 2** Double-click the STM-N card where you want to provision a port for SONET.

**Step 3** Click the **Provisioning > Line** tabs. (Click the **Provisioning > Optical > Line** tabs for the ASAP card.)

**Step 4** In the Type field, specify the port and choose SDH.



**Note** Before you can change the port type from SDH to SONET, ensure the following: the EnableSyncMsg and SendDoNotUse fields are unchecked, the card is not part of an MS-SPRing or 1+1 protection group, the card is not part of an orderwire channel, and the card is not an SDH data communications channel/generic communications channel (DCC/GCC) termination point.

**Step 5** Click **Apply**.

**Step 6** You can repeat Steps 4 and 5 for any other ports on that card.

**Stop. You have completed this procedure.**

# NTP-F199 Change the Card Service State

<b>Purpose</b>	This procedure changes a card or port's service state. The service state is an autonomously generated state that gives the overall condition of the port.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">NTP-F120 Install the ASAP Card, page 2-6</a> or <a href="#">NTP-F119 Install the STM-N Cards, page 2-4</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning or higher

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- Step 1** Complete the [“DLP-F181 Log into CTC” task on page 16-34](#) at the node where you want to change the card service state.
- Step 2** Click the **Inventory** tab.
- Step 3** Click **Admin State** for the card you want to change, and choose an Admin state from the drop-down list: **Unlocked** (In service) or **Locked,maintenance** (Out of service and in maintenance).
- Step 4** Click **Apply**.
- Step 5** If an error message appears indicating that the card state cannot be changed from its current state, click **OK**.

Depending on the Admin State 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 15600 SDH Reference Manual*.

**Stop. You have completed this procedure.**

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