



## Change Card Settings

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This chapter explains how to change line provisioning, thresholds, service states, and line rates on Cisco ONS 15454 cards.

### Before You Begin

Before performing any of the following procedures, investigate all alarms and clear any trouble conditions. Refer to the *Cisco ONS 15454 Troubleshooting Guide* as necessary.

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

1. [NTP-A88 Modify Line Settings and PM Parameter Thresholds for Electrical Cards, page 10-2](#)—As needed, complete this procedure to change line and threshold settings for all electrical cards (EC-1, DS-1, DS-3, DS3i-N-12, and DS3XM).
2. [NTP-A89 Modify Line Settings and PM Parameter Thresholds for Optical Cards, page 10-2](#)—As needed, complete this procedure to change line and threshold settings for all optical cards.
3. [NTP-A118 Modify Alarm Interface Controller–International Settings, page 10-3](#)—As needed, complete this procedure to change external alarms and controls and/or orderwire settings.
4. [NTP-A91 Upgrade DS-1 and DS-3 Protect Cards from 1:1 Protection to 1:N Protection, page 10-4](#)—As needed, complete this procedure to change the protection type on DS-1 or DS-3 cards.
5. [NTP-A315 Modify Port Settings and PM Parameter Thresholds for FC\\_MR-4 Cards, page 10-4](#)—As needed, complete this procedure to change FC\_MR-4 card port and threshold settings.
6. [NTP-A321 Change Card or PPM Service State, page 10-5](#)—As needed, complete this procedure to change the service state on a card or pluggable port module (PPM).
7. [NTP-A322 Manage Pluggable Port Modules, page 10-6](#)—As needed, complete this procedure to provision a multirate PPM, assign the optical line rate, change the optical line rate, and delete PPMs.
8. [NTP-A354 Set or Check Cross-Connect Mode for XC-VXC-10G Cards, page 10-7](#)—As needed, complete this procedure to provision the node's cross-connect mode if mixed mode grooming is required.

# NTP-A88 Modify Line Settings and PM Parameter Thresholds for Electrical Cards

<b>Purpose</b>	This procedure changes the line and threshold settings for electrical cards.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">NTP-A17 Install the Electrical Cards, page 2-10</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning or higher



## Caution

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

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- Step 1** Complete the “[DLP-A60 Log into CTC](#)” task on page 17-66 at the node where you want to change the electrical card settings. If you are already logged in, proceed to [Step 2](#).
- Step 2** As needed, complete the “[NTP-A108 Back Up the Database](#)” procedure on page 15-4.
- Step 3** Perform any of the following tasks as needed:
- [DLP-A165 Change Line and Threshold Settings for a DS1-14 or DS1N-14 Card, page 18-28](#)
  - [DLP-A166 Change Line and Threshold Settings for a DS3-12 or DS3N-12 Card, page 18-32](#)
  - [DLP-A167 Change Line and Threshold Settings for a DS3E-12 or DS3N-12E Card, page 18-36](#)
  - [DLP-A168 Change Line and Threshold Settings for the DS3XM-6 Card, page 18-40](#)
  - [DLP-A387 Change Line and Threshold Settings for the DS3XM-12 Card, page 20-87](#)
  - [DLP-A526 Change Line and Threshold Settings for the DS3i-N-12 Cards, page 22-22](#)
  - [DLP-A388 Change Line and Threshold Settings for the DS3/EC1-48 Cards, page 20-92](#)
  - [DLP-A169 Change Line and Threshold Settings for the EC1-12 Card, page 18-44](#)
  - [DLP-A376 Change Line and Threshold Settings for the DS1/E1-56 Cards, page 20-60](#)
- Step 4** As needed, complete the “[NTP-A108 Back Up the Database](#)” procedure on page 15-4.
- Stop. You have completed this procedure.**
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# NTP-A89 Modify Line Settings and PM Parameter Thresholds for Optical Cards

<b>Purpose</b>	This procedure changes the line and threshold settings for optical (OC-N) cards.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">NTP-A16 Install Optical Cards and Connectors, page 2-7</a>

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

**Caution**

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

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- Step 1** Complete the “[DLP-A60 Log into CTC](#)” task on page 17-66 at the node where you want to change the OC-N card settings. If you are already logged in, proceed to [Step 2](#).
- Step 2** As needed, complete the “[NTP-A108 Back Up the Database](#)” procedure on page 15-4.
- Step 3** Perform any of the following tasks as needed:
- [DLP-A379 Change Line Transmission Settings for OC-N Cards](#), page 20-71
  - [DLP-A171 Change Threshold Settings for OC-N Cards](#), page 18-48
  - [DLP-A459 Change Optics Thresholds Settings for OC-192 and MRC-12 Cards](#), page 21-41
  - [DLP-A527 Change the OC-N Card ALS Maintenance Settings](#), page 22-26
  - [DLP-A172 Change an Optical Port to SDH](#), page 18-50
- Step 4** As needed, complete the “[NTP-A108 Back Up the Database](#)” procedure on page 15-4.
- Stop. You have completed this procedure.**
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## NTP-A118 Modify Alarm Interface Controller–International Settings

<b>Purpose</b>	This procedure provisions the AIC-I card to receive input from or send output to external devices wired to the backplane (called external alarms and controls or environmental alarms). It also changes orderwire settings.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">NTP-A258 Provision External Alarms and Controls on the Alarm Interface Controller–International</a> , page 8-8 <a href="#">DLP-A83 Provision Orderwire</a> , page 17-84
<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-A60 Log into CTC](#)” task on page 17-66 at the node where you want to change the AIC-I card settings. If you are already logged in, continue with [Step 2](#).
- Step 2** As needed, complete the “[NTP-A108 Back Up the Database](#)” procedure on page 15-4.
- Step 3** Perform any of the following tasks as needed:
- [DLP-A208 Change External Alarms Using the AIC-I Card](#), page 19-6

- [DLP-A209 Change External Controls Using the AIC-I Card, page 19-7](#)
- [DLP-A210 Change AIC-I Card Orderwire Settings, page 19-7](#)

**Step 4** As needed, complete the “[NTP-A108 Back Up the Database](#)” procedure on page 15-4.

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

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## NTP-A91 Upgrade DS-1 and DS-3 Protect Cards from 1:1 Protection to 1:N Protection

<b>Purpose</b>	This procedure converts DS-1 and DS-3 protect cards from 1:1 to 1:N protection.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">DLP-A71 Create a 1:1 Protection Group, page 17-78</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-A60 Log into CTC](#)” task on page 17-66 at the node where you want to convert the DS-1 or DS-3 cards from 1:1 to 1:N protection. If you are already logged in, continue with [Step 2](#).

**Step 2** As needed, complete the “[NTP-A108 Back Up the Database](#)” procedure on page 15-4.

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

- [DLP-A176 Convert DS1-14 Cards From 1:1 to 1:N Protection, page 18-50](#)
- [DLP-A177 Convert DS3-12 Cards From 1:1 to 1:N Protection, page 18-52](#)
- [DLP-A178 Convert DS3-12E Cards From 1:1 to 1:N Protection, page 18-53](#)
- [DLP-A448 Convert DS3XM-6 or DS3XM-12 Cards From 1:1 to 1:N Protection, page 21-29](#)

**Step 4** As needed, complete the “[NTP-A108 Back Up the Database](#)” procedure on page 15-4.

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

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## NTP-A315 Modify Port Settings and PM Parameter Thresholds for FC\_MR-4 Cards

<b>Purpose</b>	This procedure changes the line and threshold settings for storage area network (SAN) cards, including the FC_MR-4.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">NTP-A274 Install the FC_MR-4 Card, page 2-13</a>
<b>Required/As Needed</b>	As needed

<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning or higher

**Caution**

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

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- Step 1** Complete the “[DLP-A60 Log into CTC](#)” task on page 17-66 at the node where you want to change the OC-N card settings. If you are already logged in, continue with Step 2.
- Step 2** As needed, complete the “[NTP-A108 Back Up the Database](#)” procedure on page 15-4.
- Step 3** Perform any of the following tasks as needed:
- [DLP-A438 Change General Port Settings for the FC\\_MR-4 Card](#), page 21-15
  - [DLP-A439 Change Distance Extension Port Settings for the FC\\_MR-4 Card](#), page 21-17
  - [DLP-A440 Change Enhanced FC/FICON Port Settings for the FC\\_MR-4 Card](#), page 21-19
  - [DLP-A357 Create FC\\_MR-4 RMON Alarm Thresholds](#), page 20-40
  - [DLP-A358 Delete FC\\_MR-4 RMON Alarm Thresholds](#), page 20-44
- Step 4** As needed, complete the “[NTP-A108 Back Up the Database](#)” procedure on page 15-4.
- Stop. You have completed this procedure.**
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## NTP-A321 Change Card or PPM Service State

<b>Purpose</b>	This procedure changes a card or port’s service state, which is an autonomously generated state that gives the overall condition of the port.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">Chapter 2, “Install Cards and Fiber-Optic Cable”</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning or higher

**Note**

On the OC192-XFP and MRC-12 cards, the pluggable-port module (PPM) is equivalent to an optical port.

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- Step 1** Complete the “[DLP-A60 Log into CTC](#)” task on page 17-66 at the node where you want to change the card service state.
- Step 2** From node view, click the **Inventory** tab.
- Step 3** Choose an Admin state from the Admin State drop-down list for the card or PPM that you want to change: **IS** (In-Service) or **OOS,MT** (Out-of-Service,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 15454 Reference Manual*.

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

## NTP-A322 Manage Pluggable Port Modules

<b>Purpose</b>	This procedure provisions, changes, and deletes pluggable port modules (PPMs) for the MRC-12 and OC192-XFP cards. (OC-192XFPs are single-rate PPMs, and therefore can only be deleted.)
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">DLP-A461 Preprovision an SFP or XFP Device, page 21-43</a> or <a href="#">DLP-A469 Install a GBIC or SFP/XFP Device, page 21-58</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-A60 Log into CTC](#)” task on page 17-66 at the node where you want to provision, change, or delete PPMs. If you are already logged in, continue with Step 2.
- Step 2** From the View menu, choose **Go to Network View**.
- Step 3** Click the **Alarms** tab:
- Verify that the alarm filter is not turned on. See the “[DLP-A227 Disable Alarm Filtering](#)” task on page 19-18 as necessary.
  - Verify that no unexplained conditions appear on the network. If unexplained conditions appear, resolve them before continuing. Refer to the *Cisco ONS 15454 Troubleshooting Guide*.
  - Complete the “[DLP-A532 Export CTC Data](#)” task on page 22-32 to export alarm and condition information.
- Step 4** As needed, complete the “[DLP-A444 Provision a PPM on the MRC-12 Card](#)” task on page 21-25. Single-rate PPMs do not require provisioning.
- Step 5** As needed, complete the “[DLP-A445 Provision the Optical Line Rate on the MRC-12 Card](#)” task on page 21-26 to assign an OC-3, OC-12, or OC-48 line rate to a multirate PPM.
- Step 6** As needed, complete the “[DLP-A446 Change the Optical Line Rate on the MRC-12 Card](#)” task on page 21-27 to change the line rate on a multirate PPM. You cannot change the optical line rate on single-rate PPMs.
- Step 7** As needed, complete the “[DLP-A447 Delete a PPM from the MRC-12 or OC192-XFP Card](#)” task on page 21-28.

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

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# NTP-A354 Set or Check Cross-Connect Mode for XC-VXC-10G Cards

<b>Purpose</b>	This procedure is used to set or verify cross-connect mode provisioning required for mixed grooming mode.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	None
<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-A60 Log into CTC](#)” task on page 17-66 at the node where you want to change the XC-VXC-10G card settings. If you are already logged in, continue with [Step 2](#).
- Step 2** Navigate to the node view in CTC.
- Step 3** Click **Provisioning > Cross-Connect**. The Cross-Connect dialog box is displayed.
- Step 4** If necessary, click the **Mixed Mode** radio button in the Cross-Connect dialog box and click **Apply**.  
**Stop. You have completed this procedure.**
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