

# **Change Card Settings**

This chapter explains how to change transmission settings on cards in a Cisco ONS 15454.

## **Before You Begin**

Before performing any of the following procedures, complete the "NTP-A195 Document Existing Provisioning" procedure on page 7-2. Also, investigate all alarms and clear any trouble conditions. Refer to the *Cisco ONS 15454 Troubleshooting Guide* as necessary.



Changing card 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-A88 Modify Line Settings and PM Parameter Thresholds for Electrical Cards, page 11-2—As needed, complete this procedure to change transmission settings, including line and threshold settings, for all electrical cards (EC-1, DS-1, DS-3, and DS3MX-6).
- NTP-A89 Modify Line Settings and PM Parameter Thresholds for Optical Cards, page 11-19—As needed, complete this procedure to change transmission settings, including line and threshold settings, for all optical (OC-N) cards.
- **3.** NTP-A206 Modify Line Settings and PM Parameter Thresholds for TXP\_MR\_10G Cards, page 11-25—As needed, complete this procedure to change transmission settings, including line and threshold settings, for TXP\_MR\_10G (transponder) cards.
- **4.** NTP-A207 Modify Line Settings and PM Parameter Thresholds for MXP\_2.5G\_10G Cards, page 11-36—As needed, complete this procedure to change transmission settings, including line and threshold settings, for MXP\_2.5G\_10G (muxponder) cards.
- 5. NTP-A90 Modify Alarm Interface Controller Settings, page 11-46—As needed, complete this procedure to change external alarms and controls (environmental alarms) and/or orderwire settings.
- **6.** NTP-A118 Modify Alarm Interface Controller-International Settings, page 11-49—As needed, complete this procedure to change external alarms and controls and/or orderwire settings.
- NTP-A91 Upgrade DS-1 and DS-3 Protect Cards from 1:1 Protection to 1:N Protection, page 11-53—As needed, complete this procedure to change the protection type on DS-1 or DS-3 cards.

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

	Purpose	This procedure changes the line and threshold settings for electrical cards; the default values are listed in the "Card Default Settings" section on page C-4.			
	Tools/Equipment	None			
	Prerequisite Procedures	"NTP-A17 Install the Electrical Cards" procedure on page 2-15			
	<b>Required/As Needed</b>	As needed			
	<b>Onsite/Remote</b>	Onsite or remote			
	Security Level	Provisioning or higher			
Step 1	Log into the ONS 15454 nd CTC" task on page 3-23.	ode where you want to change the card settings. See the "DLP-A60 Log into			
Step 2	Complete the "NTP-A108 database.	Back Up the Database" procedure on page 15-8 to preserve the existing			
Step 3	Perform any of the followi	ng tasks as needed:			
	• DLP-A165 Change Li	ne and Threshold Settings for the DS1-14 or DS1N-14 Cards, page 11-2			
	• DLP-A166 Change Li	ne and Threshold Settings for the DS3-12 or DS3N-12 Cards, page 11-6			
	<ul> <li>DLP-A167 Change Line and Threshold Settings for the DS3E-12 or DS3N-12E Cards, page 11</li> <li>DLP-A168 Change Line and Threshold Settings for the DS3XM-6 Card, page 11-12</li> </ul>				
	• DLP-A169 Change Li	ne and Threshold Settings for the EC1-12 Card, page 11-16			
Step 4	When you are finished cha procedure on page 15-8.	nging the card settings, complete the "NTP-A108 Back Up the Database"			
	Ston Van have completed this presedure				

Stop. You have completed this procedure.

#### **DLP-A165 Change Line and Threshold Settings for the DS1-14 or DS1N-14 Cards**

Purpose	This task changes the line and threshold settings for the DS1-14 or DS1N-14 (DS-1) cards. Table C-1 on page C-5 lists the default DS-1 card settings.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	DLP-A60 Log into CTC, page 3-23
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
Security Level	Provisioning or higher

**Step 1** In the node view, double-click the DS1-14 or DS1N-14 card where you want to change the line or threshold settings.

**Step 2** Click the **Provisioning** tab (Figure 11-1).

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SVT11-2 slot 1 DS1					DS1				
0 CR 0 MJ 0	D MN				01, 1-1				
apt: DS1					02, 2-1				
tatus: Not Present					03, 3-1				
State: 005 AINS									
-					04, 4-1				
					05, 5-1				
					06, 6-1				
					07, 7-1				
					08, 1-2				
					09, 2-2				
					10, 3-2				
					11, 4-2				
					12, 5-2				
					13, 6-2				
					14, 7-2				
Narms Conditions His	tory Circuits	Provisioning Maintenance F	erformance						
			1	Line Coding	Line Length	State	AINS Soak	[	Apply
Line	Rort #	PortNamo						-	101010
· · · ·	Port#	Port Name	Line Type			008	08:00 (H:M)		
Line	Port #	Port Name	D4 D4	AMI	0 - 131 ft	00S 00S	08:00 (H:M) 08:00 (H:M)	-	Reset
Line Line Thresholds	1 2 3	Port Name	D4 D4 D4	AMI AMI AMI	0 - 131 ft 0 - 131 ft 0 - 131 ft	00S 00S	08:00 (H:M) 08:00 (H:M)	-	Reset
Line Line Thresholds Elect Path Thresholds SONET Thresholds	1 2 3 4	Port Name	D4 D4 D4 D4	AMI AMI AMI AMI	0 - 131 ft 0 - 131 ft 0 - 131 ft 0 - 131 ft	008 008 008	08:00 (H:M) 08:00 (H:M) 08:00 (H:M)		Reset
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Line Line Thresholds Elect Path Thresholds SONET Thresholds	1 2 3 4 5 6 7	Port Name	D4 D4 D4 D4 D4 D4 D4 D4 D4 D4 D4 D4 D4	AMI AMI AMI AMI AMI AMI AMI AMI AMI AMI	0 - 131 ft 0 - 131 ft	008 008 008 008 008 008 008 008 008	08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M)		Reset
Line Line Thresholds Elect Path Thresholds SONET Thresholds	1 2 3 4 5 6 7 8 9 10	Port Name	D4 D4 D4 D4 D4 D4 D4 D4 D4 D4 D4 D4 D4	AMI AMI AMI AMI AMI AMI AMI AMI AMI AMI	0 - 131 ft 0 - 131 ft	005 005 005 005 005 005 005 005	08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M)		Reset
Line Line Thresholds Elect Path Thresholds SONET Thresholds	1         2           3         4           5         6           7         8           9         10           11         11	PortName	D4 D4 D4 D4 D4 D4 D4 D4 D4 D4 D4 D4 D4 D	AMI	0 - 131 ft 0 - 131 ft	008 008 008 008 008 008 008 008 008 008	08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M)		Reset
Line Line Thresholds Elect Path Thresholds SONET Thresholds	1 2 3 4 5 6 6 7 8 9 10 11 12	PortName	D4 D4 D4 D4 D4 D4 D4 D4 D4 D4 D4 D4 D4 D	AMI           AMI	0 - 131 ft 0 - 131 ft	008 008 008 008 008 008 008 008 008 008	08:00 (H:M) 08:00 (H:M)		Reset
Line Line Thresholds Elect Path Thresholds SONET Thresholds	1         2           3         4           5         6           7         8           9         10           11         11	PortName	D4 D4 D4 D4 D4 D4 D4 D4 D4 D4 D4 D4 D4 D	AMI           AMI	0 - 131 ft 0 - 131 ft	008 008 008 008 008 008 008 008 008 008	08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M)		Reset

Figure 11-1 Provisioning Line Parameters on the DS1-14 Card

Step 3 Depending on the setting you need to modify, click the Line, Line Thrshld, Elect Path Thrshld, or Sonet Thrshld tab.

**Note** See Chapter 7, "Manage Alarms" for information about the Alarm Behavior tab.

Step 4 Modify any of the settings found under these subtabs. For definitions of the Line settings, see Table 11-1. For definitions of the Line Threshold settings, see Table 11-2. For definitions of the Electrical Path settings, see Table 11-3.

For the factory default settings for the DS1-14 and DS1N-14 cards, see Table C-1 on page C-5.

Step 5 Click Apply.

**Step 6** Repeat Steps 3 to 5 for each subtab that has parameters you want to provision.

Table 11-1 describes the values on the Provisioning > Line tabs for the DS-1 cards.

Parameter	Description	Options
Port #	Port number	1 - 14 (read-only)
Port	Port name	User-defined, up to 32 alphanumeric/special characters. Blank by default.
		See the "DLP-A314 Assign a Name to a Port" procedure on page 6-17.

Parameter	Description	Options
Line Type	Defines the line framing type	• D4
		• ESF - Extended Super Frame
		• Unframed
Line Coding	Defines the DS-1	• AMI - Alternate Mark Inversion (default)
	transmission coding type	• B8ZS - Bipolar 8 Zero Substitution
Line Length	Defines the distance (in feet)	• 0 - 131
	from the backplane connection to the next termination point	• 132 - 262
		• 263 - 393
		• 394 - 524
		• 525 - 655
State	Places port in or out of service	See the "DLP-A214 Change the Service State for a Port" task on page 5-6.
AINS Soak	Automatic in-service soak	• Duration of valid input signal in hh.mm after which the card becomes in service (IS) automatically.
		• 0 to 48 hours, 15 minutes increments.

Table 11-1 Line Options for DS1-14 and DS1N-14 Cards (continued)

Table 11-2 describes the values on the Provisioning > Line Thresholds tabs for the DS-1 cards.

 Table 11-2
 Line Thresholds Options for DS1-14 and DS1N-14 Cards

Parameter	Description	Options
Port	Port number	1 - 14 (read-only)
CV	Coding violations	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
ES	Errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
SES	Severely errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
LOSS	Number of one-second intervals containing one or more loss of signal (LOS) defects	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.

Table 11-3 describes the values on the Provisioning > Elect Path Thresholds tabs for the DS-1 cards.

Parameter	Description	Options
Port	Port number	1 - 14 (read-only)
CV	Coding violations	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
ES	Errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
SES	Severely errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
SAS	Severely errored frame/alarm indication signal	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
AISS	Alarm indication signal seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
UAS	Unavailable seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.

Table 11-3 Electrical Path Threshold Options for DS1-14 and DS1N-14 Cards

Table 11-4 describes the values on the Provisioning > SONET Thresholds tabs for the DS-1 cards.

Table 11-4 SONET Threshold Options for DS1-14 and DS1N-14 Cards

Parameter	Description	Options
Port #	DS-1 ports partitioned for STS	Read-only
		Line 1, STS 1, Line 2, STS 1
		Line 3, STS 1, Line 4 STS 1
CV	Coding violations	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (Near End, STS termination).
ES	Errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (Near End, STS termination).
FC	Failure count	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (Near End, STS termination).

Parameter	Description	Options
SES	Severely errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (Near End, STS termination).
UAS	Unavailable seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (Near End, STS termination).

Table 11-4 SONET Threshold Options for DS1-14 and DS1N-14 Cards (continued)



Note	The threshold value displays after the circuit is created.
Step 7	Return to your originating procedure (NTP).

# DLP-A166 Change Line and Threshold Settings for the DS3-12 or DS3N-12 Cards

	Purpo	ose	This task changes the line and threshold settings for the DS3-12 or DS3N-12 (DS-3) cards. Table C-2 on page C-7 lists the default values for the DS-3 cards.			
	Tools/Equipment		None			
	Prerequisite Procedures		DLP-A60 Log into CTC, page 3-23			
	Requi	ired/As Needed	As needed			
	Onsit	e/Remote	Onsite or remote			
	Secur	ity Level	Provisioning or higher			
Step 1	Doubl	e-click the DS3-12 o	r DS3N-12 card where you want to change the line or threshold settings.			
Step 2	Click t	the <b>Provisioning</b> tab				
Step 3	-	ding on the setting y <b>Thrshld</b> subtab.	ou need to modify, click the Line, Line Thrshld, Elec Path Thrshld, or			
	Note	See Chapter 7, "M	anage Alarms" for information about the Alarm Behavior tab.			
Step 4	Modify any of the settings found under these subtabs. For definitions of the Line settings, see Table 11-5. For definitions of the Line Threshold settings, see Table 11-6. For definitions of the SONET Threshold settings, see Table 11-7.					
	For the	e factory default sett	ings for the DS3-12 and DS3N-12 Cards, see Table C-2 on page C-7.			
Step 5	Click A	Click Apply.				
Step 6	Repeat Steps 4 and 5 for each subtab that has parameters you want to provision.					

Table 11-5 describes the values on the Provisioning > Line tabs for the DS-3 cards.

Parameter	Description	Options	
Port #	Port number	1 - 12	
Port	Port name	User-defined, up to 32 alphanumeric/ special characters. Blank by default.	
		See the "DLP-A314 Assign a Name to a Port" procedure on page 6-17.	
Line Length	Defines the distance (in feet) from	• 0 - 225 (default)	
	backplane connection to the next termination point	• 226 - 450	
State	Places port in or out of service	See the "DLP-A214 Change the Service State for a Port" task on page 5-6.	
AINS Soak	Automatic in-service soak	Duration of valid input signal in hh.mm after which the card becomes in service (IS) automatically. 0 to 48 hours, 15 minutes increments.	

Table 11-5 Line Options for DS3-12 or DS3N-12 Cards

Table 11-6 describes the values on the Provisioning > Line Thresholds tabs for the DS-3 cards.

Table 11-6 Line Threshold Options for DS3-12 or DS3N-12 Cards

Parameter	Description	Options
Port #	Port number	1 - 12
CV	Coding violations	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
ES	Errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
SES	Severely errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
LOSS	Loss of signal; number of one-second intervals containing one or more LOS defects	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.

Table 11-7 describes the values on the Provisioning > SONET Thresholds tabs for the DS-3 cards.

Parameter	Description	Options
Port #	DS-3 ports partitioned for STS	Read-only
		Line 1, STS 1, Line 2, STS 1
		Line 3, STS 1, Line 4 STS 1
CV	Coding violations	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (Near and Far End, STS termination only).
ES	Errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (Near and Far End, STS termination only).
FC	Failure count	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (Near and Far End, STS termination only).
SES	Severely errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (Near and Far End, STS termination only).
UAS	Unavailable seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (Near and Far End, STS termination only).

Table 11-7 SONET Threshold Options for DS3-12 or DS3N-12 Cards



The threshold value displays after the circuit is created.

**Step 7** Return to your originating procedure (NTP).

### **DLP-A167 Change Line and Threshold Settings for the DS3E-12 or DS3N-12E** Cards

rerequisite Procedures I equired/As Needed A nsite/Remote C ecurity Level F the DS3E is installed in an rformance monitoring para NS 15454, delete the DS-3 ovision the slot for the DS3 ouble-click the DS3E-12 or ick the Provisioning tab. epending on the setting you onet Thrshld subtab.	None DLP-A60 Log into CTC, page 3-23 As needed Donsite or remote Provisioning or higher 1 ONS 15454 slot that is provisioned for a DS-3 card, the DS3E enhanced maters are unavailable. If this accurs, remove the DS3E from the	
equired/As Needed       A         nsite/Remote       O         ecurity Level       F         the DS3E is installed in an rformance monitoring para NS 15454, delete the DS-3 ovision the slot for the DS3         ouble-click the DS3E-12 or ick the Provisioning tab.         epending on the setting you onet Thrshld subtab.         ick the See Chapter 7, "Man odify any of the settings for or definitions of the Line Thrshlds, see Table 11-10.	As needed Onsite or remote Provisioning or higher ONS 15454 slot that is provisioned for a DS-3 card, the DS3E enhanced	
nsite/Remote       O         ecurity Level       F         the DS3E is installed in an rformance monitoring para NS 15454, delete the DS-3 ovision the slot for the DS3         ouble-click the DS3E-12 or ick the Provisioning tab.         puble-click the DS3E-12 or ick the Provisioning tab.         epending on the setting you onet Thrshld subtab.         te       See Chapter 7, "Man odify any of the settings for or definitions of the Line Thrshlds, see Table 11-10.	Onsite or remote Provisioning or higher ONS 15454 slot that is provisioned for a DS-3 card, the DS3E enhanced	
ecurity Level       H         the DS3E is installed in an rformance monitoring para NS 15454, delete the DS-3 ovision the slot for the DS3 ovision the slot for the S	Provisioning or higher ONS 15454 slot that is provisioned for a DS-3 card, the DS3E enhanced	
the DS3E is installed in an rformance monitoring para NS 15454, delete the DS-3 ovision the slot for the DS3 ouble-click the DS3E-12 of ick the <b>Provisioning</b> tab. epending on the setting you onet <b>Thrshld</b> subtab.	ONS 15454 slot that is provisioned for a DS-3 card, the DS3E enhanced	
rformance monitoring para NS 15454, delete the DS-3 ovision the slot for the DS3 ouble-click the DS3E-12 or ick the <b>Provisioning</b> tab. epending on the setting you onet <b>Thrshld</b> subtab.	1	
ick the <b>Provisioning</b> tab. epending on the setting you onet Thrshld subtab. See Chapter 7, "Man odify any of the settings fou or definitions of the Line Th uresholds, see Table 11-10.	ameters are unavailable. If this occurs, remove the DS3E from the card in CTC using the "DLP-A191 Delete a Card" task on page 2-22, and 3E using the "NTP-A115 Preprovision a Slot" task on page 2-23.	
epending on the setting you onet Thrshld subtab. See Chapter 7, "Man odify any of the settings fou or definitions of the Line Th aresholds, see Table 11-10.	r DS3N-12E card where you want to change the line or threshold settings	
odify any of the settings for r definitions of the Line Thuresholds, see Table 11-10.	n need to modify, click the Line, Line Thrshld, Elect Path Thrshld, or	
odify any of the settings for r definitions of the Line Thuresholds, see Table 11-10.		
or definitions of the Line Thresholds, see Table 11-10.	age Alarms" for information about the Alarm Behavior tab.	
	and under these subtabs. For definitions of the Line settings, see Table 11-8 hreshold settings, see Table 11-9. For definitions of the Electrical Path For definitions of the SONET Threshold settings, see Table 11-11.	
	For the factory default settings for the DS3-12E and DS3N-12E cards, see Table C-3 on page C-8.	
Click Apply.		
	gs for the D55-12E and D5511-12E cards, see Table C-5 off page C-6.	
ble 11-8 describes the value	h subtab that has parameters you want to provision.	

Table 11-8 Line Options for the DS3-12E and DS3N-12E Cards

Parameter	Description	Options
Port #	Port number	1 - 12 (Read-only)
Port	Port name	User-defined, up to 32 alphanumeric/ special characters. Blank by default.
		See the "DLP-A314 Assign a Name to a Port" procedure on page 6-17.

Parameter	Description	Options
Line Type	Defines the line framing type	• M13
		• C Bit
		Auto Provisioned
Detected Line Type	Displays the detected line type	Read-only
Line Coding	Defines the DS3E transmission coding type	B3ZS
Line	Defines the distance (in feet) from	• 0 - 225 (default)
Length	backplane connection to the next termination point	• 226 - 450
State	Places port in or out of service	See the "DLP-A214 Change the Service State for a Port" task on page 5-6.
AINS Soak	Automatic in-service soak	• Duration of valid input signal in hh.mm after which the card becomes in service (IS) automatically.
		• 0 to 48 hours, 15-minute increments.

 Table 11-8
 Line Options for the DS3-12E and DS3N-12E Cards (continued)

Table 11-9 describes the values on the Provisioning > Line Thresholds tabs for the DS3E cards.

 Table 11-9
 Line Threshold Options for the DS3-12E and DS3N-12E Cards

Subtab	Parameter	Description	Options
Port #	Port number	1 - 12 (Read-only)	Port #
Line Thrshold	CV	Coding violations	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
	ES	Errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
	SES	Severely errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
	LOSS	Loss of signal; number of one-second intervals containing one or more LOS defects	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.

Table 11-10 describes the values on the Provisioning > Elect Path Thresholds tabs for the DS3E cards.

Subtab	Parameter	Description	Options
Port #	Port number	1 - 12 (Read-only)	Port #
Elect Path Thrshld	CV	Coding violations	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (DS3 Pbit: Near End only; DS3 CPbit: Near and Far End).
	ES	Errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (DS3 Pbit: Near End only; DS3 CPbit: Near and Far End).
	SES	Severely errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (DS3 Pbit: Near End only; DS3 CPbit: Near and Far End).
	SAS	Severely errored frame/alarm indication signal	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (DS3 Pbit: Near End only; DS3 CPbit: Near and Far End).
	AIS	Alarm indication signal	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (DS3 Pbit: Near End only; DS3 CPbit: Near and Far End).
	UAS	Unavailable seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (DS3 Pbit: Near End only; DS3 CPbit: Near and Far End).

Table 11-11 describes the values on the Provisioning > SONET Thresholds tabs for the DS3E cards.

 Table 11-11
 SONET Threshold Options for DS3-12E and DS3N-12E Cards

Parameter	Description	Options
Port #	DS-3 ports partitioned for STS	Read-only
		Line 1, STS 1, Line 2, STS 1
		Line 3, STS 1, Line 4 STS 1
CV	Coding violations	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (Near and Far End, STS termination only).

Parameter	Description	Options
ES	Errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (Near and Far End, STS termination only).
FC	Failure count	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (Near and Far End, STS termination only).
SES	Severely errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (Near and Far End, STS termination only).
UAS	Unavailable seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (Near and Far End, STS termination only).

Table 11-11 SONET Threshold Options for DS3-12E and DS3N-12E Cards (continued)

<u>Note</u>

The threshold value displays after the circuit is created.

**Step 7** Return to your originating procedure (NTP).

#### **DLP-A168 Change Line and Threshold Settings for the DS3XM-6 Card**

Purpose	This task changes the line and threshold settings for the DS3XM-6 card. Table C-4 on page C-10 lists the default settings for the DS3XM-6 card.
Tools/Equipment	None
Prerequisite Procedures	DLP-A60 Log into CTC, page 3-23
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
Security Level	Provisioning or higher

Note

The DS3XM-6 (transmux) card can accept up to six channelized DS-3 signals and convert each signal to 28 VT1.5 signals. Conversely, the card can take 28 T-1s and multiplex them into a channeled C-bit or M13 framed DS-3.

- **Step 1** Double-click the DS3XM-6 card where you want to change the line or threshold settings.
- **Step 2** Click the **Provisioning** tab.
- Step 3 Depending on the setting you need to modify, click the Line, Line Thrshld, Elect Path Thrshld, or Sonet Thrshld subtab.

**Note** See Chapter 7, "Manage Alarms" for information about the Alarm Behavior tab.

Step 4 Modify any of the settings found under these subtabs. For definitions of the Line settings, see Table 11-12. For definitions of the Line Threshold settings, see Table 11-13. For definitions of the Electrical Path Thresholds, see Table 11-14. For definitions of the SONET Threshold settings, see Table 11-15.

For the factory default settings for the DS3XM-6 card, see Table C-4 on page C-10.

- Step 5 Click Apply.
- **Step 6** Repeat Steps 3 to 5 for each subtab that has parameters you want to provision.

Table 11-12 describes the values on the Provisioning > Line tabs for the DS3XM-6 cards.

Parameter	Description	Options
Port #	Port number	1 - 6 (read-only)
Port	Port name	User-defined, up to 32 alphanumeric/ special characters. Blank by default
		See the "DLP-A314 Assign a Name to a Port" procedure on page 6-17.
Line Type	Defines the line framing type	• M13 - default
		• C BIT
Line Coding	Defines the DS-1 transmission coding type that is used	B3ZS
Line Length	Defines the distance (in feet) from backplane connection to the next termination point	<ul> <li>0 - 225 (default)</li> <li>226 - 450</li> </ul>
State	Places port in or out of service	See the "DLP-A214 Change the Service State for a Port" task on page 5-6
AINS Soak	Automatic in-service soak	• Duration of valid input signal in hh.mm after which the card becomes in service (IS) automatically.
		• 0 to 48 hours, 15 minutes increments.

Table 11-12 Line Options for the DS3XM-6 Parameters

Table 11-13 lists the line threshold options for DS3XM-6 cards.

Table 11-13	3 Line Threshold	l Options for the	DS3XM-6 Card
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Parameter	Description	Options
Port #	Port number	1 - 6 (read-only)
CV	Coding violations	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.

Parameter	Description	Options
ES	Errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
SES	Severely errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
LOSS	Loss of signal	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.

Table 11-14 describes the values on the Provisioning > Elect Path Thresholds tabs for the DS3XM-6 cards.

Parameter	Description	Options
Port #	Port number	1 - 6 (read-only)
CV	Coding violations	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (DS3, Pbit Near End only; DS3 CPbit, Near and Far End; DS1, only if there is a VT circuit dropped on the port).
ES	Errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (DS3, Pbit Near End only; DS3 CPbit, Near and Far End; DS1, only if there is a VT circuit dropped on the port).
SES	Severely errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (DS3, Pbit Near End only; DS3 CPbit, Near and Far End; DS1, only if there is a VT circuit dropped on the port).
SAS	Severely errored frame/alarm indication signal	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (DS3, Pbit Near End only; DS3 CPbit, Near and Far End; DS1, only if there is a VT circuit dropped on the port).

Table 11-14 Electrical Path Threshold Options for the DS3XM-6 Card

Parameter	Description	Options
AISS	Alarm indication signal seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (DS3, Pbit Near End only; DS3 CPbit, Near and Far End; DS1, only if there is a VT circuit dropped on the port).
UAS	Unavailable seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (DS3, Pbit Near End only; DS3 CPbit, Near and Far End; DS1, only if there is a VT circuit dropped on the port).

Table 11-15 describes the values on the Provisioning > SONET Thresholds tabs for the DS3XM-6 cards.

Parameter	Description	Options
CV	Coding violations	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (STS and VT Term).
ES	Errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (STS and VT Term).
FC	Failure count	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (STS and VT Term).
SES	Severely errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (STS and VT Term).
UAS	Unavailable seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (STS and VT Term).



The threshold value displays after the circuit is created.

**Step 7** Return to your originating procedure (NTP).

#### **DLP-A169 Change Line and Threshold Settings for the EC1-12 Card**

Purpose	This task changes the line and threshold settings for the EC1-12 (EC-1) card. The default EC-1 settings are listed in Table C-5 on page C-13.
Tools/Equipment	None
<b>Prerequisite Procedures</b>	DLP-A60 Log into CTC, page 3-23
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
Security Level	Provisioning or higher

- Step 1 Double-click the EC-1 card where you want to change the line or threshold settings.
- Step 2 Click the **Provisioning** tab.
- Step 3 Depending on the setting you need to modify, click the Line, Thresholds, or STS subtab.

Note

See Chapter 7, "Manage Alarms" for information about the Alarm Behavior tab.

**Step 4** Modify any of the settings found under these subtabs. For definitions of the Line settings, see Table 11-16. For definitions of the threshold settings, see Table 11-17.

For the factory default settings for the EC-1 card, see Table C-5 on page C-13.

- Step 5 Click Apply.
- **Step 6** Repeat Steps 4 and 5 for each subtab that has parameters you want to provision.
  - Note

The STS subtab is used to provision intermediate path performance monitoring (IPPM). To provision IPPM, circuits must be provisioned on the EC1-12 card. For circuit creation procedures, go to Chapter 6, "Create Circuits and VT Tunnels." To provision IPPM, go to the "DLP-A121 Enable Pointer Justification Count Performance Monitoring" task on page 8-2.

Table 11-16 Line Options for the EC1-12 card

Parameter	Description	Options
Port #	EC-1 card port #	1 - 12 (read-only)
Port Name	Name assigned to the port (optional)	User-defined, up to 32 alphanumeric/ special characters. Blank by default. See the "DLP-A314 Assign a Name to a Port" procedure on page 6-17.
PJStsMon#	Sets the STS that will be used for pointer justification. If set to zero, no STS is used.	<ul> <li>0 (default)</li> <li>1</li> </ul>
Line Length (feet)	Defines the distance (in feet) from backplane to next termination point	<ul> <li>0 - 225 (default)</li> <li>226 - 450</li> </ul>

Parameter	Description	Options
Rx Equalization	For early EC1-12 card versions, equalization can be turned off if the line length is short or the environment is extremely cold; Rx Equalization should normally be set to On	<ul><li>On (checked, default)</li><li>Off (unchecked)</li></ul>
State	Places the port in or out of service	See the "DLP-A214 Change the Service State for a Port" task on page 5-6.

Table 11-16	Line Options	for the EC1-12	card (continued)
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Table 11-17 lists the threshold options for EC-12 cards.

SONET Layer	Parameter	Description	Options
	Port #	EC-1 card port #	1 - 12 (read-only)
Line	CV	Coding violations	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
	ES	Errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
	SES	Severely errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
	FC	Failure count	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
	UAS	Unavailable seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
	PPJC-PDET	Positive Pointer Justification Count, STS Path Detected	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
	NPJC-PDET	Negative Pointer Justification Count, STS Path Detected	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
	PPJC-PGEN	Positive Pointer Justification Count, STS Path Generated	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
	NPJC-PGEN	Negative Pointer Justification Count, STS Path Generated	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
	PSC	Protection Switching Count	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.

 Table 11-17 Threshold Options for the EC1-12 Card

SONET Layer	Parameter	Description	Options
	PSD	Protection Switching Duration	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
Section	CV	Coding violations	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (Near End only).
	ES	Errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
	SES	Severely errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
	SEFS	Severely errored framing seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
Path	CV	Coding violations	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button (Near and Far End).
	ES	Errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
	FC	Failure count	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
	SES	Severely errored seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.
	UAS	Unavailable seconds	Numeric. Can be set for 15-minute or one-day intervals. Select the bullet and click the Refresh button.

Table 11-17 Threshold Options for the EC1-12 Card (continued)

**Step 7** Return to your originating procedure (NTP).

## NTP-A89 Modify Line Settings and PM Parameter Thresholds for Optical Cards

	Purpose	This procedure changes the line and threshold settings for optical cards. The default OC-N card settings are provided in the "Card Default Settings" section on page C-4.
	<b>Tools/Equipment</b>	None
	<b>Prerequisite Procedures</b>	None
	<b>Required/As Needed</b>	As needed
	<b>Onsite/Remote</b>	Onsite or remote
	Security Level	Provisioning or higher
Note Step 1	for TXP_MR_10G Cards" "DLP-A283 Change Optic Log into the ONS 15454 no	for transponder cards, see "DLP-A277 Change Optical Thresholds Settings task on page 11-31. To change optical settings for muxponder cards, see al Thresholds Settings for MXP_2.5G_10G Cards" task on page 11-41.
	CTC" task on page 3-23.	
Step 2	Complete the "NTP-A108	Back Up the Database" procedure on page 15-8.
Step 3	Perform any of the followi	ng tasks as needed:
	• DLP-A170 Change Li	ne Transmission Settings for OC-N Cards, page 11-19
	• DLP-A171 Change Th	reshold Settings for OC-N Cards, page 11-21
	• DLP-A172 Change an	Optical Port to SDH, page 11-24
Step 4	Complete the "NTP-A108	Back Up the Database" procedure on page 15-8.
	Stop. You have completed	l this procedure.

#### **DLP-A170 Change Line Transmission Settings for OC-N Cards**

Purpose	This task changes the line transmission settings for OC-N cards. The default OC-N card settings are provided in the "Card Default Settings" section on page C-4.
Tools/Equipment	None
<b>Prerequisite Procedures</b>	DLP-A60 Log into CTC, page 3-23
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
Security Level	Provisioning or higher

**Step 1** Double-click the OC-N card where you want to change the line settings.

**Step 2** Click the **Provisioning > Line** tabs.

**Step 3** Modify any of the settings described in Table 11-18.

To view the factory default settings for the OC-N Cards, see Table C-7 on page C-20 for the OC-3 card, Table C-8 on page C-22 for the OC-12 card, Table C-9 on page C-24 for the OC-48 card, or Table C-10 on page C-26 for the OC-192 card.

The STS subtab is used to provision intermediate path performance monitoring (IPPM). To provision IPPM, circuits must be provisioned on the EC1-12 card.

#### Step 4 Click Apply.

Table 11-18	OC-N Card	Line Settings
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Parameter	Description	Options
Port #	Port number (read-only)	• 1 (OC-12, OC-48, OC-192)
		• 1-4 (OC-3, OC12-4)
Port Name	Provides the ability to assign the specified port a name	User-defined. Name can be up to 32 alphanumeric/special characters. Blank by default.
		See the "DLP-A314 Assign a Name to a Port" procedure on page 6-17.
SF BER Level	Sets the signal fail bit error rate	• 1E-3
		• 1E-4
		• 1E-5
SD BER Level	Sets the signal degrade bit error rate	• 1E-5
		• 1E-6
		• 1E-7
		• 1E-8
		• 1E-9
Provides	If checked, the card is provisioned as a	• Yes
Synch	network element timing reference	• No
		(Read-only)
Enable Synch	Enables synchronization status messages	• Yes
Messages	(S1 byte), which allow the node to choose the best timing source	• No
Send Do Not	When checked, sends a DUS (do not use)	• Yes
Use	message on the S1 byte	• No
PJSTSMon #	Sets the STS that will be used for pointer	• 0 - 3 (OC-3, per port)
	justification. If set to 0, no STS is monitored. Only one STS can be	• 0 - 12 (OC-12)
	monitored on each OC-N port.	• 0 - 48 (OC-48)
		• 0 - 192 (OC-192)

<sup>&</sup>lt;u>)</u> Note

Parameter	Description	Options
State	Places port in or out of service	In Service
		• Out of Service
		• Out of Service MT
		• Out of Service AINS
AINS Soak	Automatic in-service soak	• Duration of valid input signal in hh.mm after which the card becomes in service (IS) automatically.
		• 0 to 48 hours, 15 minutes increments.
Туре	Defines the port as SONET or SDH. The	• Sonet
	<i>Enable Sync Msg</i> field and the <i>Send Do</i> <i>Not Use</i> field must be disabled before the port can be set to SDH.	• SDH

Step 5

Return to your originating procedure (NTP).

#### **DLP-A171 Change Threshold Settings for OC-N Cards**

Purpose	This task changes threshold settings for OC-N cards. The default OC-N card settings are provided in the "Card Default Settings" section on page C-4.
Tools/Equipment	None
Prerequisite Procedures	DLP-A60 Log into CTC, page 3-23
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
Security Level	Provisioning or higher

**Step 1** In node view, double-click the OC-N card where you want to change the threshold settings (Figure 11-2).

**Step 2** Click the **Provisioning > Thresholds** tabs.

🗱 SVT10-2 - Cisco Transport Cor \_ 8 × Edit View Tools Help SVT10-2 slot 12 OC48 0 CR 0 MJ 0 MN Eqpt: 0C48 Status: Present State: IS P1:IS:Unprotected OC48 01 Alarms Conditions History Circuits Provisioning Maintenance Performance Near End, 15 Min, Line Line 
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Figure 11-2 Provisioning Thresholds on the OC48 IR 1310 Card

**Step 3** Modify any of the settings found in Table 11-19.

To view the factory default settings for the OC-N cards, see Table C-7 on page C-20 for the OC-3 card, Table C-8 on page C-22 for the OC-12 card, Table C-9 on page C-24 for the OC-48 card, or Table C-10 on page C-26 for the OC-192 card.

#### Step 4 Click Apply.

Table 11-19 OC-N Threshold Option
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Parameter	Description	Options
Port	Port number	• 1 (OC-12, OC-48, OC-192)
		• 1-4 (OC-3, OC12-4)
CV	Coding violations	Numeric. Can be set for 15-minute or one-day intervals for Line, Section, or Path (Near and Far End). Select the bullet and click the Refresh button.
ES	Errored seconds	Numeric. Can be set for 15-minute or one-day intervals for Line, Section, or Path (Near and Far End). Select the bullet and click the Refresh button.
SES	Severely errored seconds	Numeric. Can be set for 15-minute or one-day intervals for Line, Section, or Path (Near and Far End). Select the bullet and click the Refresh button.
SEFS	Severely errored framing seconds	Numeric. Can be set for 15-minute or one-day intervals for Line, Section, or Path (Near and Far End). Select the bullet and click the Refresh button.

Parameter	Description	Options
FC	Failure count	Numeric. Can be set for 15-minute or one-day intervals for Line . Select the bullet and click the Refresh button. or Path (Near and Far End)
UAS	Unavailable seconds	Numeric. Can be set for 15-minute or one-day intervals for Line or Path (Near and Far End). Select the bullet and click the Refresh button.
PPJC-PDET	Positive Pointer Justification Count, STS Path detected.	Numeric. Can be set for 15-minute or one-day intervals for Line (Near and Far End). Select the bullet and click the Refresh button.
NPJC-PDET	Negative Pointer Justification Count, STS Path detected.	Numeric. Can be set for 15-minute or one-day intervals for Line (Near and Far End). Select the bullet and click the Refresh button.
PPJC-PGEN	Positive Pointer Justification Count, STS Path generated.	Numeric. Can be set for 15-minute or one-day intervals for Line (Near and Far End). Select the bullet and click the Refresh button.
NPJC-PGEN	Negative Pointer Justification Count, STS Path generated.	Numeric. Can be set for 15-minute or one-day intervals for Line (Near and Far End). Select the bullet and click the Refresh button.
PSC	Protection Switching Count (Line)	Numeric. Can be set for 15-minute or one-day intervals for Line (Near and Far End). Select the bullet and click the Refresh button.
PSD	Protection Switch Duration (Line)	Numeric. Can be set for 15-minute or one-day intervals for Line (Near and Far End). Select the bullet and click the Refresh button.
PSC-W	Protection Switching Count - Working line	Numeric. Can be set for 15-minute or
	BLSR is not supported on the OC-3 card; therefore, the PSC-W, PSC-S, and PSC-R PMs do not increment.	one-day intervals for Line (Near and Far End). Select the bullet and click the Refresh button.
PSD-W	Protection Switching Duration - Working line BLSR is not supported on the OC-3 card; therefore, the PSD-W, PSD-S, and PSD-R PMs do not increment.	Numeric. Can be set for 15-minute or one-day intervals for Line (Near and Far End). Select the bullet and click the Refresh button.

Table 11-19 OC-N Threshold Options (continued)

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Parameter	Description	Options
PSC-S	Protection Switching Duration - Span BLSR is not supported on the OC-3 card; therefore, the PSC-W, PSC-S, and PSC-R PMs do not increment.	Numeric. Can be set for 15-minute or one-day intervals for Line (Near and Far End). Select the bullet and click the Refresh button.
PSD-S	Protection Switching Duration - Span BLSR is not supported on the OC-3 card; therefore, the PSD-W, PSD-S, and PSD-R PMs do not increment.	Numeric. Can be set for 15-minute or one-day intervals for Line (Near and Far End). Select the bullet and click the Refresh button.
PSC-R	Protection Switching Duration - Ring BLSR is not supported on the OC-3 card; therefore, the PSC-W, PSC-S, and PSC-R PMs do not increment.	Numeric. Can be set for 15-minute or one-day intervals for Line (Near and Far End). Select the bullet and click the Refresh button.
PSD-R	Protection Switching Duration - Ring BLSR is not supported on the OC-3 card; therefore, the PSD-W, PSD-S, and PSD-R PMs do not increment.	Numeric. Can be set for 15-minute or one-day intervals for Line (Near and Far End). Select the bullet and click the Refresh button.

Table 11-19 OC-N Threshold Options (continued)

**Step 5** Return to your originating procedure (NTP).

#### **DLP-A172 Change an Optical Port to SDH**

Purpose	This task provisions a port on an OC-N card for SDH.
Tools/Equipment	None
<b>Prerequisite Procedures</b>	DLP-A60 Log into CTC, page 3-23
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
Security Level	Provisioning or higher

- Step 1 Double-click the OC-N card where you want to provision a port for SDH.
- **Step 2** Click the **Provisioning > Line** tabs.
- **Step 3** In the Type field, specify the port and choose SDH.



Before you can change the port type to SDH, ensure the following: the EnableSyncMsg and SendDoNotUse fields are unchecked, the card is not part of a BLSR or 1+1 protection group, the card is not part of an orderwire channel, and the card is not a SONET DCC/GCC termination point.

Step 4 Click Apply.

- **Step 5** If the card is a multiport OC-N card, such as an OC12-4, you can repeat Steps 3 and 4 for any other ports on that card.
- **Step 6** Return to your originating procedure (NTP).

# NTP-A206 Modify Line Settings and PM Parameter Thresholds for TXP\_MR\_10G Cards

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remote
ning or higher

**Step 1** Log into the ONS 15454 node where you want to change the settings. See the "DLP-A60 Log into CTC" task on page 3-23.

Step 2 Complete the "NTP-A108 Back Up the Database" procedure on page 15-8.

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

- DLP-A274 Change Card Settings for TXP\_MR\_10G Cards, page 11-26
- DLP-A275 Change Line Settings for TXP\_MR\_10G Cards, page 11-28
- DLP-A276 Change Line Threshold Settings for TXP\_MR\_10G Cards, page 11-30
- DLP-A277 Change Optical Thresholds Settings for TXP\_MR\_10G Cards, page 11-31

**Step 4** Complete the "NTP-A108 Back Up the Database" procedure on page 15-8.

Stop. You have completed this procedure.

#### DLP-A274 Change Card Settings for TXP\_MR\_10G Cards

Purpose	This task changes the card settings for TXP_MR_10G (transponder) cards. The default card settings are provided in the "Card Default Settings" section on page C-4.
Tools/Equipment	None
Prerequisite Procedures	DLP-A60 Log into CTC, page 3-23
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
Security Level	Provisioning or higher

**Step 1** Double-click the TXP\_MR\_10G card where you want to change the line settings.

**Step 2** Click the **Provisioning > Card** tabs (Figure 11-1).

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SV111.1 slot 2 TXP_M OCR 0MJ Ecpt: TXP_MR_10G Status: Present State: 15 Payload Type: SONET Term Mode: Line P1 (Client):00S_MT: P2 (Trunk):00S_MT	OMN · (Inclu	TXP_MR_106	
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	Card Parameters		
	Tunable Wavelengths:	1539.77nm,1540.56nm	
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Figure 11-3 Provisioning Card Parameters on the TXP\_MR\_10G Card

- **Step 3** Modify any of the settings described in Table 11-20.
- Step 4 Click Apply.

Table 11-20 TXP\_MR\_10G (Transponder) Card Settings

Parameter	Description	Options
Payload Type	Sets the type of payload	SONET/10 GigE WAN Phy
		• SDH
		• 10 GigE LAN Phy
Termination	Sets the mode of operation	• Transparent
Mode		• Line

Parameter	Description	Options
Wavelength	Sets the wavelength of the DWDM side optical transmitter	<ul> <li>First Tunable Wavelength</li> <li>(Further wavelengths in 100 GHz ITU spacing)</li> </ul>
Regeneration Peer Slot	Sets the regeneration peer slot	<ul> <li>None</li> <li>1</li> <li>2</li> <li>3</li> <li>4</li> <li>5</li> <li>6</li> <li>12</li> <li>13</li> <li>14</li> <li>15</li> <li>16</li> </ul>
		• 17

Table 11-20 TXP\_MR\_10G (Transponder) Card Settings (continued)

**Step 5** Return to your originating procedure (NTP).

### **DLP-A275 Change Line Settings for TXP\_MR\_10G Cards**

	Purpose	This task changes the line settings for TXP_MR_10G (transponder) cards. The default card settings are provided in the "Card Default Settings" section on page C-4.
	Tools/Equipment	None
	<b>Prerequisite Procedures</b>	DLP-A60 Log into CTC, page 3-23
	<b>Required/As Needed</b>	As needed
	<b>Onsite/Remote</b>	Onsite or remote
	Security Level	Provisioning or higher
Step 1 Step 2 Step 3	Click the <b>Provisioning &gt; I</b> Modify any of the settings	
-		

Step 4 Click Apply.

Parameter	Description	Options
Port #	Port number (read-only)	• 1 • 2
Port Name	Provides the ability to assign the specified port a name	User-defined. Name can be up to 32 alphanumeric/special characters. Blank by default.
		See the "DLP-A314 Assign a Name to a Port" procedure on page 6-17.
SF BER Level	Sets the signal fail bit error rate	• 1E-3
		• 1E-4
		• 1E-5
SD BER Level	Sets the signal degrade bit error rate	• 1E-5
		• 1E-6
		• 1E-7
		• 1E-8
		• 1E-9
State	Places port in service, out of service, out	• IS
	of service-maintenance, or out of service-auto in service.	• OOS
	service auto in service.	• OOS_MT
		OOS_AINS
AINS Soak	Automatic in-service soak	• Duration of valid input signal in hh.mm after which the card become in service (IS) automatically.
		• 0 to 48 hours, 15 minutes increments
ALS Mode	Sets the automatic laser shutdown	• Disabled
	function	Auto Restart
		Manual Restart
		• Manual Restart for Test

Table 11-21 TXP_MR_10G (Transponder) Card Line Setting
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**Step 5** Return to your originating procedure (NTP).

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#### DLP-A276 Change Line Threshold Settings for TXP\_MR\_10G Cards

Purpose	This task changes the line threshold settings for TXP_MR_10G (transponder) cards. The default card settings are provided in the "Card Default Settings" section on page C-4.
Tools/Equipment	None
<b>Prerequisite Procedures</b>	DLP-A60 Log into CTC, page 3-23
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
Security Level	Provisioning or higher

**Step 1** Double-click the TXP\_MR\_10G card where you want to change the line threshold settings.

- **Step 2** Click the **Provisioning > Line Thresholds** tabs.
- Step 3 Modify any of the settings described in Table 11-22.For the factory default settings for the TXP\_MR\_10G cards, see Table C-11 on page C-28.
- Step 4 Click Apply.

#### Table 11-22 TXP\_MR\_10G (Transponder) Card Line Thresholds Settings

Parameter	Description	Options
Port #	Port number (read-only)	• 1 • 2
CV	Coding violations	Numeric. Can be set for Near End or Far End, for 15-minute or one-day intervals, or for Line (Far End only), Section or Line. Select bullet and click Refresh button.
ES	Errored seconds	Numeric. Can be set for Near End or Far End, for 15-minute or one-day intervals, or for Line (Far End only), Section or Line. Select bullet and click Refresh button.
SES	Severely errored seconds	Numeric. Can be set for Near End or Far End, for 15-minute or one-day intervals, or for Line (Far End only), Section or Line. Select bullet and click Refresh button.
SEFS	Severely errored framing seconds	Numeric. Can be set for Far End, for 15-minute or one-day intervals, for Section only. Select bullet and click Refresh button.

Parameter	Description	Options
FC	Failure count	Numeric. Can be set for Near End or Far End, for 15-minute or one-day intervals, for Line only. Select bullet and click Refresh button.
UAS	Unavailable seconds	Numeric. Can be set for Near End or Far End, for 15-minute or one-day intervals, for Line only. Select bullet and click Refresh button.

Table 11-22 TXP_MR	10G (Transponder) Card Line	Thresholds Settings (continued)
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**Step 5** Return to your originating procedure (NTP).

#### DLP-A277 Change Optical Thresholds Settings for TXP\_MR\_10G Cards

Purpose	This task changes the optical threshold settings for TXP_MR_10G(Transponder) cards. The default card settings are provided in the "Card Default Settings" section on page C-4.
Tools/Equipment	None
<b>Prerequisite Procedures</b>	DLP-A60 Log into CTC, page 3-23
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
Security Level	Provisioning or higher

**Step 1** Double-click the OC-N card where you want to change the optical threshold settings.

**Step 2** Click the **Provisioning > Optical Thresholds** tabs.

**Step 3** Modify any of the settings described in Table 11-23.

For the factory default settings for the TXP\_MR\_10G cards, see Table C-11 on page C-28.

Step 4 Click Apply.

Table 11-23 TXP_MR_10G (Transponder) Ca	ard Optical Thresholds Settings
---	---------------------------------

Parameter	Description	Options
Port #	Port number (read-only)	• 1
RX Power High (dBm)	Sets the warning threshold for high receiver input power	• 2 Numeric, in dBm range -16.5 to +30.0 (client side) range -21.0 to 30.0 (trunk side)
RX Power Low (dBm)	Sets the warning threshold for low receiver input power	Numeric, in dBm range -40.0 to +1.5 (client side) range -40.0 to -2.3 (trunk side)

Parameter	Description	Options
RX Temp High (C)	Sets the warning threshold for high receiver temperature	Numeric, in degrees Celsius 125 (client side, read only) range -3.75 to 125.0 (trunk side)
RX Temp Low (C)	Sets the warning threshold for low receiver temperature	Numeric, in degrees Celsius -40 (client side, read only) range -40.0 to 67.5 (trunk side)
Laser Bias High (%)	Sets the warning threshold for high laser bias current	Numeric, in percent range 37.5 to 100.0 (client side) range 37.5 to 100.0 (trunk side)
Laser Bias Low (%)	Sets the warning threshold for low laser bias current	Numeric, in percent range 0 to 37.5 (client side) range 0 to 37.5 (trunk side)
Laser Temp High (C)	Sets the warning threshold for high laser temperature	Numeric, in degrees Celsius range -7.5 to 125.0 (client side) range 3.75 to 125.0 (trunk side)
Laser Temp Low (C)	Sets the warning threshold for low laser temperature	Numeric, in degrees Celsius range -40.0 to 56.25 (client side) range -40.0 to 33.75 (trunk side)
TX Power High (dBm)	Sets the warning threshold for high transmitter output power	Numeric, in dBm range -17.0 to 30.0 (client side) range -18.8 to 30.0 (trunk side)
TX Power Low (dBm)	Sets the warning threshold for low transmitter output power	Numeric, in dBm range -40.0 to 1.5 (client side) range -40.0 to 2.6 (trunk side)

Table 11-23 TXP\_MR\_10G (Transponder) Card Optical Thresholds Settings (continued)

**Step 5** Return to your originating procedure (NTP).

#### **DLP-A278 Change Section Trace Settings for TXP\_MR\_10G Cards**

Purpose	This task changes the section trace settings for TXP_MR_10G (transponder) cards. The default card settings are provided in the "Card Default Settings" section on page C-4.	
Tools/Equipment	None	
<b>Prerequisite Procedures</b>	DLP-A60 Log into CTC, page 3-23	
<b>Required/As Needed</b>	As needed	
<b>Onsite/Remote</b>	Onsite or remote	
Security Level	Provisioning or higher	

**Step 1** Double-click the TXP\_MR\_10G card where you want to change the section trace settings.

**Step 2** Click the **Provisioning > Section Trace** tab.

- Step 3 Modify any of the settings described in Table 11-24.For the factory default settings for the TXP\_MR\_10G cards, see Table C-11 on page C-28.
- Step 4 Click Apply.

Table 11-24 TXP\_MR\_10G (Transponder) Card Section Trace Settings

Parameter	Description	Options
Port #	Port number	• 1
		• 2
Trace Mode	Sets the trace mode	Off/None
		• Manual
Section Trace	Sets the trace string size	• 1 byte
String Size		• 16 byte
Transmit	Displays the current transmit string; sets a new transmit string	String of trace string size
Expected	Displays the current expected string; sets a new expected string	String of trace string size
Received	Displays the current received string (read only)	String of trace string size

**Step 5** Return to your originating procedure (NTP).

#### DLP-A279 Change Optical Transport Network Settings for TXP\_MR\_10G Cards

Purpose	This task changes the line optical transport network (OTN) settings for TXP_MR_10G (transponder) cards. The default card settings are provided in the "Card Default Settings" section on page C-4.
Tools/Equipment	None
Prerequisite Procedures	DLP-A60 Log into CTC, page 3-23
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
Security Level	Provisioning or higher

- **Step 1** Double-click the TXP\_MR\_10G card where you want to change the OTN settings.
- **Step 2** Click the **Provisioning > OTN** tabs.
- Step 3 Modify any of the settings described in Table 11-25.
   For the factory default settings for the TXP\_MR\_10G cards, see Table C-11 on page C-28.
- Step 4 Click Apply.

Parameter	Description	Options
OTN Lines	Port number (read-only)	2
Port #		
OTN Lines	Sets the OTN lines according to ITU-T	• enabled
G.709 OTN	G.709	• disabled
OTN Lines	Sets the OTN lines to forward error	• enabled
FEC	correction (FEC)	• disabled
OTN Lines	Sets the signal fail bit error rate	• 1E-3
SF BER		• 1E-4
		• 1E-5
OTN Lines	Sets the signal degrade bit error rate	• 1E-5
SD BER		• 1E-6
		• 1E-7
		• 1E-8
		• 1E-9
OTN Lines	Sets the laser transmit power on the trunk	
TxPower (dBm)	side using variable optical attenuator (VOA)	in 0.1 dB steps
G.709 Thresholds	Port number (read-only)	2
Port		
G.709	Errored seconds	Numeric. Can be set for Near End or Far
Thresholds		End, for 15-minute or one-day intervals, for SM (OTUk) or PM (ODUk). Select
ES		bullet and click Refresh button.
G.709	Severely errored seconds	Numeric. Can be set for Near End or Far
Thresholds		End, for 15-minute or one-day intervals, for SM (OTUk) or PM (ODUk). Select
SES		bullet and click Refresh button.
G.709	Unavailable seconds	Numeric. Can be set for Near End or Far
Thresholds		End, for 15-minute or one-day intervals,
UAS		for SM (OTUk) or PM (ODUk). Select bullet and click Refresh button.
G.709	Background block errors	Numeric. Can be set for Near End or Far
Thresholds		End, for 15-minute or one-day intervals,
BBE		for SM (OTUk) or PM (ODUk). Select bullet and click Refresh button.
G.709	Failure counter	Numeric. Can be set for Near End or Far
Thresholds		End, for 15-minute or one-day intervals,
FC		for SM (OTUk) or PM (ODUk). Select bullet and click Refresh button.
		canet and ener remember button.

Table 11-25 TXP\_MR\_10G (Transponder) Card OTN Settings

Parameter	Description	Options
FEC Thresholds	Port number (read-only)	2
Port		
FEC Thresholds	Bit Errors Corrected	Numeric. Can be set for 15-minute or one-day intervals.
FEC Thresholds	Byte Errors Corrected	Numeric. Can be set for 15-minute or one-day intervals.
FEC Thresholds	Zero Bit Errors Detected	Numeric. Can be set for 15-minute or one-day intervals.
FEC Thresholds	One Bit Errors Detected	Numeric. Can be set for 15-minute or one-day intervals.
FEC Thresholds	Uncorrectable Words	Numeric. Can be set for 15-minute or one-day intervals.
Trail Trace Identifier	Level	<ul><li>Section</li><li>Path</li></ul>
Trail Trace Identifier Trace Mode	Sets the trace mode	<ul><li>Off/None</li><li>Manual</li></ul>
Trail Trace Identifier Transmit	Displays the current transmit string; sets a new transmit string	String of trace string size; trail trace identifier is 64 bytes in length.
Trail Trace Identifier	Displays the current expected string; sets a new expected string	String of trace string size
Expected		
Trail Trace Identifier	Displays the current received string (read only)	String of trace string size
Received		

Table 11-25 TXP\_MR\_10G (Transponder) Card OTN Settings (continued)

**Step 5** Return to your originating procedure (NTP).

# NTP-A207 Modify Line Settings and PM Parameter Thresholds for MXP\_2.5G\_10G Cards

	Purpose	This procedure changes the line and threshold settings for MXP_2.5G_10G (muxponder) cards. The default card settings are provided in the "Card Default Settings" section on page C-4.
	Tools/Equipment	None
	Prerequisite Procedures	None
	<b>Required/As Needed</b>	As needed
	<b>Onsite/Remote</b>	Onsite or remote
	Security Level	Provisioning or higher
Step 2	task on page 3-23. Complete the "NTP-A108	Back Up the Database" procedure on page 15-8.
04		
Step 3	Perform any of the followi	
	• DLP-A280 Change Ca	rd Settings for MXP_2.5G_10G Cards, page 11-36 ne Settings for MXP_2.5G_10G Cards, page 11-37
	-	
	-	ne Thresholds Settings for MXP_2.5G_10G Cards, page 11-40
	<ul> <li>DLP-A283 Change Op</li> </ul>	otical Thresholds Settings for MXP_2.5G_10G Cards, page 11-41
Step 4	Complete the "NTP-A108	Back Up the Database" procedure on page 15-8.
	Stop. You have completed	l this procedure.

#### DLP-A280 Change Card Settings for MXP\_2.5G\_10G Cards

Purpose	This task changes the card settings for MXP_2.5G_10G (muxponder) cards, including payload type, termination mode, and wavelength. The default card settings are provided in the "Card Default Settings" section on page C-4.
Tools/Equipment	None
Prerequisite Procedures	DLP-A60 Log into CTC, page 3-23
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

**Step 1** Double-click the MXP\_2.5G\_10G card where you want to change the card settings.

- **Step 2** Click the **Provisioning > Card** tabs.
- **Step 3** Modify any of the settings described in Table 11-26.

For the factory default settings for the MXP\_2.5G\_10G cards, see Table C-6 on page C-15.

#### Step 4 Click Apply.

Table 11-26 MXP_2.5G	_10G (Muxponder)	Card Settings
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Parameter	Description	Options
Payload Type	Sets the type of payload	• SONET
		• SDH
Termination	Sets the mode of operation	• Transparent
Mode		• Line
Wavelength	Sets the wavelength of the DWDM side	• First Tunable Wavelength
	optical transmitter	• (Further wavelengths in 100 GHz ITU spacing)

**Step 5** Return to your originating procedure (NTP).

# DLP-A281 Change Line Settings for MXP\_2.5G\_10G Cards

Purpose	This task changes the line settings for MXP_2.5G_10G (muxponder) cards. The default card settings are provided in the "Card Default Settings" section on page C-4.
Tools/Equipment	None
Prerequisite Procedures	DLP-A60 Log into CTC, page 3-23
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
Security Level	Provisioning or higher

**Step 1** Double-click the MXP\_2.5G\_10G card where you want to change the line settings.

**Step 2** Click the **Provisioning > Line** tab (Figure 11-1).

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VT10-1 slot 2 MXP_											
0 CR 1 MJ	9 MN										
gpt: MXP_2.5G_100	5										
tatus: Present											
tate: IS											
ayload Type: SONE	2T						MXP_2.5G_	100			
erm Mode: Line							01				
1 (Client):IS:Ung	arotectod						02				
2 (Client):00S	procecced	1					03				
3 (Client):005							02 03 04 05				
4 (Client):00S							04				
5 (Trunk):IS							00				
		<u></u>	T.		Γ.	,					
larms Conditions	History Pr	ovisioning In	ventory M	aintenanc	e Performance	]					
				aintenanc	e Performance	]					
Card		ovisioning   In Section Trace		aintenanc	e   Performance	]					
						State	ProvidesSync	ALS Mode	EnableSyncMsg	Send DoNotUse [	Apply
Card Line Line Thresholds	SONET	Section Trace	SF BER	SD BER 1E-5	AINS Soak 08:00 (H:M)	State		Disabled	V		
Card Line Line Thresholds Optical Thresholds	SONET Port# 1 2	Section Trace	SF BER 1E-3 1E-4	SD BER 1E-5 1E-7	AINS Soak 08:00 (H:M) 08:00 (H:M)	State IS 00S		Disabled Disabled	V V		Apply
Card Line Line Thresholds Optical Thresholds OTN	SONET Port# 1 2 3	Section Trace	SF BER 1E-3 1E-4 1E-4	SD BER 1E-5 1E-7 1E-7	AINS Soak 08:00 (H:M) 08:00 (H:M) 08:00 (H:M)	State IS OOS OOS		Disabled Disabled Disabled	য য য		
Card Line Line Thresholds Optical Thresholds	SONET Port# 1 2 3 4	Section Trace	SF BER 1E-3 1E-4 1E-4 1E-4	SD BER 1E-5 1E-7 1E-7 1E-7	AINS Soak 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M)	State IS OOS OOS OOS		Disabled Disabled Disabled Disabled	হা হ		
Card Line Line Thresholds Optical Thresholds OTN	SONET Port# 1 2 3	Section Trace	SF BER 1E-3 1E-4 1E-4 1E-4	SD BER 1E-5 1E-7 1E-7 1E-7	AINS Soak 08:00 (H:M) 08:00 (H:M) 08:00 (H:M)	State IS OOS OOS		Disabled Disabled Disabled	য য য		
Card Line Line Thresholds Optical Thresholds OTN	SONET Port# 1 2 3 4	Section Trace	SF BER 1E-3 1E-4 1E-4 1E-4	SD BER 1E-5 1E-7 1E-7 1E-7	AINS Soak 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M)	State IS OOS OOS OOS		Disabled Disabled Disabled Disabled	হা হ		
Card Line Line Thresholds Optical Thresholds OTN	SONET Port# 1 2 3 4	Section Trace	SF BER 1E-3 1E-4 1E-4 1E-4	SD BER 1E-5 1E-7 1E-7 1E-7	AINS Soak 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M)	State IS OOS OOS OOS		Disabled Disabled Disabled Disabled	হা হ		
Card Line Line Thresholds Optical Thresholds OTN	SONET Port# 1 2 3 4	Section Trace	SF BER 1E-3 1E-4 1E-4 1E-4	SD BER 1E-5 1E-7 1E-7 1E-7	AINS Soak 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M)	State IS OOS OOS OOS		Disabled Disabled Disabled Disabled	হা হ		
Card Line Line Thresholds Optical Thresholds OTN	SONET Port# 1 2 3 4	Section Trace	SF BER 1E-3 1E-4 1E-4 1E-4	SD BER 1E-5 1E-7 1E-7 1E-7	AINS Soak 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M)	State IS OOS OOS OOS		Disabled Disabled Disabled Disabled	হা হ		
Card Line Line Thresholds Optical Thresholds OTN	SONET Port# 1 2 3 4	Section Trace	SF BER 1E-3 1E-4 1E-4 1E-4	SD BER 1E-5 1E-7 1E-7 1E-7	AINS Soak 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M)	State IS OOS OOS OOS		Disabled Disabled Disabled Disabled	হা হ		
Card Line Line Thresholds Optical Thresholds OTN	SONET Port# 1 2 3 4	Section Trace	SF BER 1E-3 1E-4 1E-4 1E-4	SD BER 1E-5 1E-7 1E-7 1E-7	AINS Soak 08:00 (H:M) 08:00 (H:M) 08:00 (H:M) 08:00 (H:M)	State IS OOS OOS OOS		Disabled Disabled Disabled Disabled	হা হ		

Figure 11-4 Provisioning Line Parameters on the MXP\_2.5G\_10G Card

**Step 3** Modify any of the settings described in Table 11-27.

For the factory default settings for the MXP\_2.5G\_10G cards, see Table C-6 on page C-15.

#### Step 4 Click Apply.

Table 11-27 MXP\_2.5G\_10G (Muxponder) Card Line Settings

Parameter	Description	Options
Port #	Port number (read-only)	• 1
		• 2
		• 3
		• 4
		• 5
Port Name	Provides the ability to assign the specified port a name	User-defined. Name can be up to 32 alphanumeric/special characters. Blank by default.
		See the "DLP-A314 Assign a Name to a Port" task on page 6-17.
SF BER Level	Sets the signal fail bit error rate	• 1E-3
		• 1E-4
		• 1E-5

Parameter	Description	Options
SD BER Level	Sets the signal degrade bit error rate	• 1E-5
		• 1E-6
		• 1E-7
		• 1E-8
		• 1E-9
State	Places port in service, out of service, out	• IS
	of service-maintenace, or out of service-auto in service	• OOS
	service-auto in service	• OOS_MT
		OOS_AINS
AINS Soak	Automatic in-service soak	• Duration of valid input signal in hh.mm after which the card becomes in service (IS) automatically.
		• 0 to 48 hours, 15 minutes increments
ALS Mode	Sets the automatic laser shutdown	• Disabled
	function	Auto Restart
		Manual Restart
		Manual Restart for Test
Provides Sync	If checked, the card is provisioned as a	• Yes
	network element timing reference	• No
		(Read-only)
Enable Sync	Enables synchronization status messages	• Yes
Msg	(S1 byte), which allow the node to choose the best timing source	• No
Send	When checked, sends a DUS (do not use)	• Yes
DoNotUse	message on the S1 byte	• No

**Step 5** Return to your originating procedure (NTP).

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# DLP-A282 Change Line Thresholds Settings for MXP\_2.5G\_10G Cards

Purpose	This task changes the line threshold settings for MXP_2.5G_10G (Muxponder) cards. The default card settings are provided in the "Card Default Settings" section on page C-4.
Tools/Equipment	None
<b>Prerequisite Procedures</b>	DLP-A60 Log into CTC, page 3-23
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
Security Level	Provisioning or higher

**Step 1** Double-click the MXP\_2.5G\_10G card where you want to change the line threshold settings.

- **Step 2** Click the **Provisioning > Line Thresholds** tabs.
- Step 3 Modify any of the settings described in Table 11-28.For the factory default settings for the MXP\_2.5G\_10G cards, see Table C-6 on page C-15.
- Step 4 Click Apply.

Table 11-28 MXP\_2.5G\_10G (Muxponder) Card Line Threshold Settings

Parameter	Description	Options
Port #	Port number (read-only)	<ul> <li>1</li> <li>2</li> <li>3</li> <li>4</li> <li>5</li> </ul>
CV	Coding violations	Numeric. Can be set for Near End or Far End, for 15-minute or one-day intervals, or for Line (Far End only), Section or Line. Select bullet and click Refresh button.
ES	Errored seconds	Numeric. Can be set for Near End or Far End, for 15-minute or one-day intervals, or for Line (Far End only), Section or Line. Select bullet and click Refresh button.
SES	Severely errored seconds	Numeric. Can be set for Near End or Far End, for 15-minute or one-day intervals, or for Line (Far End only), Section or Line. Select bullet and click Refresh button.
SEFS	Severely errored framing seconds	Numeric. Can be set for Far End, for 15-minute or one-day intervals, for Section only. Select bullet and click Refresh button.

Parameter	Description	Options
FC	Failure count	Numeric. Can be set for Near End or Far End, for 15-minute or one-day intervals, for Line only. Select bullet and click Refresh button.
UAS	Unavailable seconds	Numeric. Can be set for Near End or Far End, for 15-minute or one-day intervals, for Line only. Select bullet and click Refresh button.

Table 11-28 MXP_2.50	_10G (Muxponder) Card Line	Threshold Settings (continued)
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**Step 5** Return to your originating procedure (NTP).

# DLP-A283 Change Optical Thresholds Settings for MXP\_2.5G\_10G Cards

Default Settings" section on page C-4.
None
DLP-A60 Log into CTC, page 3-23
As needed
Onsite or remote
A

**Step 1** Double-click the MXP\_2.5G\_10G card where you want to change the optical threshold settings.

**Step 2** Click the **Provisioning > Optical Thresholds** tabs.

**Step 3** Modify any of the settings described in Table 11-29.

For the factory default settings for the MXP\_2.5G\_10G cards, see Table C-6 on page C-15.

Step 4 Click Apply.

Parameter	Description	Options
Port #	Port number (read-only)	• 1
		• 2
		• 3
		• 4
		• 5
RX Power High (dBm)	Sets the warning threshold for high receiver input power	Numeric, in dBm range -16.5 to +30.0 (client side) range -21.0 to 30.0 (trunk side)

Table 11-29 MXP\_2.5G\_10G (Muxponder) Card Optical Threshold Settings

Parameter	Description	Options
RX Power Low (dBm)	Sets the warning threshold for low receiver input power	Numeric, in dBm range -40.0 to +1.5 (client side) range -40.0 to -2.3 (trunk side)
RX Temp High (C)	Sets the warning threshold for high receiver temperature	Numeric, in degrees Celsius 125 (client side, read only) range -3.75 to 125.0 (trunk side)
RX Temp Low (C)	Sets the warning threshold for low receiver temperature	Numeric, in degrees Celsius -40 (client side, read only) range -40.0 to 67.5 (trunk side)
Laser Bias High (%)	Sets the warning threshold for high laser bias current	Numeric, in percent range 37.5 to 100.0 (client side) range 37.5 to 100.0 (trunk side)
Laser Bias Low (%)	Sets the warning threshold for low laser bias current	Numeric, in percent range 0 to 37.5 (client side) range 0 to 37.5 (trunk side)
Laser Temp High (C)	Sets the warning threshold for high laser temperature	Numeric, in degrees Celsius range -7.5 to 125.0 (client side) range 3.75 to 125.0 (trunk side)
Laser Temp Low (C)	Sets the warning threshold for low laser temperature	Numeric, in degrees Celsius range -40.0 to 56.25 (client side) range -40.0 to 33.75 (trunk side)
TX Power High (dBm)	Sets the warning threshold for high transmitter output power	Numeric, in dBm range -17.0 to 30.0 (client side) range -18.8 to 30.0 (trunk side)
TX Power Low (dBm)	Sets the warning threshold for low transmitter output power	Numeric, in dBm range -40.0 to 1.5 (client side) range -40.0 to 2.6 (trunk side)

Table 11-29 MXP\_2.5G\_10G (Muxponder) Card Optical Threshold Settings (continued)

**Step 5** Return to your originating procedure (NTP).

# DLP-A284 Change Section Trace Settings for MXP\_2.5G\_10G Cards

Purpose	This task changes the section trace settings for MXP_2.5G_10G (muxponder) cards. The default card settings are provided in the "Card Default Settings" section on page C-4.
Tools/Equipment	None
<b>Prerequisite Procedures</b>	DLP-A60 Log into CTC, page 3-23
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
Security Level	Provisioning or higher

- Step 1 Double-click the MXP\_2.5G\_10G card where you want to change the section trace settings.
- **Step 2** Click the **Provisioning > Section Trace** tabs.
- **Step 3** Modify any of the settings described in Table 11-30.

For the factory default settings for the MXP\_2.5G\_10G cards, see Table C-6 on page C-15.

Step 4 Click Apply.

Table 11-30 MXP_2.5G_10G (Muxponder) Card Section Trace Settings	Table 11-30 MXP	2.5G 10G (Muxponder)	Card Section Trace Settings
--	-----------------	----------------------	-----------------------------

Parameter	Description	Options
Port #	Port number	• 1
		• 2
		• 3
		• 4
		• 5
Trace Mode	Sets the trace mode	Off/None
		• Manual
Section Trace	Sets the trace string size	• 1 byte
String Size		• 16 byte
Transmit	Displays the current transmit string; sets a new transmit string	String of trace string size
Expected	Displays the current expected string; sets a new expected string	String of trace string size
Received	Displays the current received string (read only)	String of trace string size

**Step 5** Return to your originating procedure (NTP).

# DLP-A285 Change Optical Transport Network Settings for MXP\_2.5G\_10G Cards

Purpose	This task changes the line OTN settings for MXP_2.5G_10G (muxponder) cards. The default card settings are provided in the "Card Default Settings" section on page C-4.
Tools/Equipment	None
Prerequisite Procedures	DLP-A60 Log into CTC, page 3-23
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
Security Level	Provisioning or higher

Step 1 Double-click the MXP\_2.5G\_10G card where you want to change the OTN settings.

- **Step 2** Click the **Provisioning > OTN** tabs.
- **Step 3** Modify any of the settings described in Table 11-31.

For the factory default settings for the MXP\_2.5G\_10G cards, see Table C-6 on page C-15.

Step 4 Click Apply.

Table 11-31 MXP\_2.5G\_10G (Muxponder) Card OTN Settings

Parameter	Description	Options
OTN Lines	Port number (read-only)	5
Port #		
OTN Lines	Sets the OTN lines according to ITU-T	• Enabled
G.709 OTN	G.709	• Disabled
OTN Lines	Sets the OTN lines to forward error	• Enabled
FEC	correction (FEC)	• Disabled
OTN Lines	Sets the signal fail bit error rate	• 1E-3
SF BER		• 1E-4
		• 1E-5
OTN Lines	Sets the signal degrade bit error rate	• 1E-5
SD BER		• 1E-6
		• 1E-7
		• 1E-8
		• 1E-9
OTN Lines	Sets the laser transmit power on the trunk	—24.0 to +2 dBm
TxPower (dBm)	side using variable optical attenuator (VOA)	in 0.1 dB steps
G.709	Port number (read-only)	5
Thresholds		
Port		
G.709 Thresholds	Errored seconds	Numeric. Can be set for Near End or Far
		End, for 15-minute or one-day intervals, for SM (OTUk) or PM (ODUk). Select
ES		bullet and click Refresh button.
G.709	Severely errored seconds	Numeric. Can be set for Near End or Far
Thresholds		End, for 15-minute or one-day intervals, for SM (OTUk) or PM (ODUk). Select
SES		bullet and click Refresh button.
G.709	Unavailable seconds	Numeric. Can be set for Near End or Far
Thresholds		End, for 15-minute or one-day intervals,
UAS		for SM (OTUk) or PM (ODUk). Select bullet and click Refresh button.

Parameter	Description	Options
G.709 Thresholds BBE	Background block errors	Numeric. Can be set for Near End or Far End, for 15-minute or one-day intervals, for SM (OTUk) or PM (ODUk). Select
G.709 Thresholds FC	Failure counter	bullet and click Refresh button.Numeric. Can be set for Near End or FarEnd, for 15-minute or one-day intervals,for SM (OTUk) or PM (ODUk). Selectbullet and click Refresh button.
FEC Thresholds	Port number (read-only)	5
Port FEC Thresholds	Bit Errors Corrected	Numeric. Can be set for 15-minute or one-day intervals.
FEC Thresholds	Byte Errors Corrected	Numeric. Can be set for 15-minute or one-day intervals.
FEC Thresholds	Zero Bit Errors Detected	Numeric. Can be set for 15-minute or one-day intervals.
FEC Thresholds	One Bit Errors Detected	Numeric. Can be set for 15-minute or one-day intervals.
FEC Thresholds	Uncorrectable Words	Numeric. Can be set for 15-minute or one-day intervals.
Trail Trace Identifier Level	Level	<ul><li>Section</li><li>Path</li></ul>
Trail Trace Identifier	Sets the trace mode	Off/None     Manual
Trace Mode	-	
Trail Trace Identifier	Displays the current transmit string; sets a new transmit string	String of trace string size; trail trace identifier is 64 bytes in length.
Transmit		
Trail Trace Identifier	Displays the current expected string; sets a new expected string	String of trace string size
Expected		
Trail Trace Identifier	Displays the current received string (read only)	String of trace string size
Received		

Table 11-31 MXP\_2.5G\_10G (Muxponder) Card OTN Settings (continued)

**Step 5** Return to your originating procedure (NTP).

# **NTP-A90 Modify Alarm Interface Controller Settings**

Purpose	This procedure provisions the AIC card to receive input from, or send output to, external devices wired to the backplane (called external alarms and controls or environmental alarms).
Tools/Equipment	None
<b>Prerequisite Procedures</b>	None
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
Security Level	Provisioning or higher
If you are provisioning the AIC card for the first time, see the "NTP-A32 Provision External Alarms and Controls on the Alarm Interface Controller" task on page 7-33. Log into the ONS 15454 node where you want to change the AIC card settings. See the "DLP-A60 Log into CTC" task on page 3-23.	
Controls on the Alarm Inte	ode where you want to change the AIC card settings. See the "DLP-A60 Log
Controls on the Alarm Into Log into the ONS 15454 n into CTC" task on page 3-	ode where you want to change the AIC card settings. See the "DLP-A60 Log
Controls on the Alarm Into Log into the ONS 15454 n into CTC" task on page 3-	erface Controller" task on page 7-33. ode where you want to change the AIC card settings. See the "DLP-A60 Log 23. Back Up the Database" procedure on page 15-8.
Controls on the Alarm Into Log into the ONS 15454 n into CTC" task on page 3- Complete the "NTP-A108 Perform any of the followi	erface Controller" task on page 7-33. ode where you want to change the AIC card settings. See the "DLP-A60 Log 23. Back Up the Database" procedure on page 15-8.
Controls on the Alarm Into Log into the ONS 15454 n into CTC" task on page 3- Complete the "NTP-A108 Perform any of the followi • DLP-A173 Change Ex	ode where you want to change the AIC card settings. See the "DLP-A60 Log 23. Back Up the Database" procedure on page 15-8. Ing tasks as needed:
Controls on the Alarm International Controls on the Alarm International Control Contro	erface Controller" task on page 7-33. ode where you want to change the AIC card settings. See the "DLP-A60 Log 23. Back Up the Database" procedure on page 15-8. ing tasks as needed: sternal Alarms Using the AIC Card, page 11-46

Stop. You have completed this procedure.

## **DLP-A173 Change External Alarms Using the AIC Card**

This task changes external alarm settings on the AIC card.
None
DLP-A60 Log into CTC, page 3-23
As needed
Onsite or remote
Provisioning or higher

**Step 1** Confirm that external-device relays are wired to the ENVIR ALARMS IN backplane pins. See the "DLP-A19 Install Alarm Wires on the Backplane" task on page 1-35 for more information.

**Step 2** Double-click the AIC card to display it in card view.

**Step 3** Click the **Provisioning > External Alarms** tabs (Figure 11-5 on page 11-47).

- Step 4 Modify any of the following fields for each external device wired to the ONS 15454 backplane. For definitions of these fields, see the "NTP-A32 Provision External Alarms and Controls on the Alarm Interface Controller" procedure on page 7-33.
  - Enabled
  - Alarm Type
  - Severity
  - Virtual Wire
  - Raised When
  - Description

Figure 11-5 Provisioning External Alarms on the AIC Card

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SVT10-2 slot 9 AIC		Ī.
OCR OMJ OMN		
Eqpt. AIC Status: Active State: 15	AC 91 92 93 93 94 94 95 97 96 97 98 99 99 90 90	
Alarms Conditions History	J Circuits Provisioning Maintenance	Ť.
External Alarms	Enabled Alarm Type Severity Virtual Wire Raised When Description Apply	
External Controls 1		
Local Ordenwire 2	Reset	
Express Orderwire 3		
4		
	NET (C	ļ
	NET CF	īδ

- **Step 5** To provision additional devices, complete Step 4 for each additional device.
- Step 6 Click Apply.
- **Step 7** Return to your originating procedure (NTP).

## **DLP-A174 Change External Controls Using the AIC Card**

	Purpose	This task changes external control settings on the AIC card.
	Tools/Equipment	None
	Prerequisite Procedures	DLP-A60 Log into CTC, page 3-23
	<b>Required/As Needed</b>	As needed
	<b>Onsite/Remote</b>	Onsite or remote
	Security Level	Provisioning or higher
Step 1		relays to the ENVIR ALARMS OUT backplane pins. See the "DLP-A19 Backplane" task on page 1-35 for more information.
Step 2	Double-click the AIC card	to display it in card view.
Step 3	On the <b>External Controls</b> subtab, modify any of the following fields for each external control wire the ONS 15454 backplane. For definitions of these fields, see the "NTP-A32 Provision External Ala and Controls on the Alarm Interface Controller" task on page 7-33.	
	• Enabled	
	• Trigger Type	
	Control Type	
	• Description	
Step 4	To provision additional con	ntrols, complete Step 3 for each additional device.
Step 5	Click <b>Apply</b> .	
Cton C	Datum to your originating	me and un (NTD)

#### **Step 6** Return to your originating procedure (NTP).

#### **DLP-A175 Change Orderwire Settings Using the AIC Card**

Purpose	This task changes orderwire settings on the AIC card.
Tools/Equipment	None
<b>Prerequisite Procedures</b>	DLP-A60 Log into CTC, page 3-23
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
Security Level	Provisioning or higher

∕∖∖ Caution

When provisioning orderwire for ONS 15454s residing in a ring, do not provision a complete orderwire loop. For example, a four-node ring typically has east and west ports provisioned at all four nodes. However, to prevent orderwire loops, provision two orderwire ports (east and west) at all but one of the ring nodes.

 $\mathcal{P}$ Tip

Before you begin, make a list of the ONS 15454 slots and ports that require orderwire communication.

Step 1	Double-click the AIC to display it in card view.
Step 2	Select the <b>Provisioning &gt; Local Orderwire</b> tabs or <b>Provisioning &gt; Express Orderwire</b> tabs, depending on the orderwire path that you want to create.
	The Local Orderwire subtab is shown in Figure 11-7 on page 11-53. The example shows the subtab for the AIC-I card. The screen for the AIC card is similar. Provisioning steps are the same for both types of orderwire.
Step 3	If needed, adjust the Tx and Rx dBm by moving the slider to the right or left for the headset type (four-wire or two-wire) that you will use. In general, you should not need to adjust the dBm.
Step 4	Click Apply.
Step 5	Return to your originating procedure (NTP).

# NTP-A118 Modify Alarm Interface Controller-International Settings

	Purpose	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), or to change orderwire settings.	
	<b>Tools/Equipment</b>	None	
	<b>Prerequisite Procedures</b>	None	
	<b>Required/As Needed</b>	As needed	
	<b>Onsite/Remote</b>	Onsite or remote	
	Security Level	Provisioning or higher	
Note	If you are provisioning the AIC-I card for the first time, see the "NTP-A123 Provision External Alarms and Controls on the Alarm Interface Controller-International" procedure on page 7-35.		
Step 1	Log into the ONS 15454 node where you want to change the AIC-I card settings. See the "DLP-A60 Log into CTC" task on page 3-23.		
Step 2	Complete the "NTP-A108	Back Up the Database" procedure on page 15-8.	
Step 3	Perform any of the followi	ng tasks as needed:	
	• DLP-A208 Change Ex	ternal Alarms Using the AIC-I Card, page 11-50	
	• DLP-A209 Change Ex	ternal Controls Using the AIC-I Card, page 11-51	
	• DLP-A210 Change AI	C-I Card Orderwire Settings, page 11-52	
Step 4	Complete the "NTP-A108	Back Up the Database" procedure on page 15-8.	
	Stop. You have completed	l this procedure.	

## **DLP-A208 Change External Alarms Using the AIC-I Card**

Purpose	This task changes external alarm settings on the AIC-I card.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	DLP-A60 Log into CTC, page 3-23
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
Security Level	Provisioning or higher

- **Step 1** Confirm that external-device relays are wired to the ENVIR ALARMS IN backplane pins. See the "DLP-A19 Install Alarm Wires on the Backplane" task on page 1-35 for more information.
- **Step 2** Double-click the AIC-I card to display it in card view.
- **Step 3** Click the **Provisioning > External Alarms** tabs (Figure 11-6 on page 11-51).
- Step 4 Modify any of the following fields for each external device wired to the ONS 15454 backplane. For definitions of these fields, see the "NTP-A32 Provision External Alarms and Controls on the Alarm Interface Controller" task on page 7-33.
  - Enabled
  - Alarm Type
  - Severity
  - Virtual Wire
  - Raised When
  - Description

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mpt: AIC-I tatus: Active tate: IS							AICI n: <u>10</u> 20 20 20 20 20 20 n/Out 20 40 20 JDC: A 50 DCC:	95 07 03 		
arms Conditions	History	Circuits F	Provisioning	Maintenanc	e					
Card	Input#	Enabled	Alarm Type	Severity	Virtual Wire	Raised When	Description			Apply
External Alarms	Input#	Enabled V		Severity Not Rep	Virtual Wire None		Description Env Alrm Input 1	1		
External Alarms External Controls			Intrusion			Closed		-		Apply Reset
External Alarms External Controls Local Orderwire	1	V	Intrusion	Not Rep	None	Closed	Env Airm Input 1			
External Alarms External Controls Local Orderwire	1	V	Intrusion	Not Rep	None	Closed	Env Airm Input 1	-		
External Alarms External Controls Local Orderwire	1 2 3		Intrusion	Not Rep	None	Closed	Env Airm Input 1	-		
External Alarms External Controls Local Orderwire	1 2 3 4		Intrusion	Not Rep	None	Closed	Env Airm Input 1	-		
External Alarms External Controls Local Orderwire	1 2 3 4 5		Intrusion	Not Rep	None	Closed	Env Airm Input 1		 	
External Alarms External Controls Local Orderwire	1 2 3 4 5 6		Intrusion	Not Rep	None	Closed	Env Airm Input 1		 	
External Alarms External Controls Local Orderwire	1 2 3 4 5 6 7		Intrusion	Not Rep	None	Closed	Env Airm Input 1			
External Alarms External Controls Local Orderwire	1 2 3 4 5 6 7 8		Intrusion	Not Rep	None	Closed	Env Airm Input 1			
External Alarms External Controls	1 2 3 4 5 6 7 8 9		Intrusion	Not Rep	None	Closed	Env Airm Input 1			
External Alarms External Controls Local Orderwire	1 2 3 4 5 6 7 8 9 10		Intrusion	Not Rep	None	Closed	Env Airm Input 1			
External Alarms External Controls Local Orderwire	1 2 3 4 5 6 7 8 9 10 11		Intrusion	Not Rep	None	Closed	Env Airm Input 1			
External Alarms External Controls Local Orderwire	1 2 3 4 5 6 7 8 9 10 11 11 12		Intrusion	Not Rep	None	Closed	Env Airm Input 1			
External Alarms External Controls Local Orderwire	1 2 3 4 5 6 7 8 9 10 11 11 12 13		Intrusion	Not Rep	None	Closed	Env Airm Input 1			

Figure 11-6 Provisioning External Alarms on the AIC-I Card

- **Step 5** To provision additional devices, complete Step 4 for each additional device.
- Step 6 Click Apply.
- **Step 7** Return to your originating procedure (NTP).



The procedure is the same if you are using the Alarm Expansion panel (AEP). In this case, the number of contacts that are shown on the screen is changed accordingly.

#### **DLP-A209 Change External Controls Using the AIC-I Card**

Purpose	This task changes external control settings on the AIC-I card.
Tools/Equipment	None
<b>Prerequisite Procedures</b>	DLP-A60 Log into CTC, page 3-23
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
Security Level	Provisioning or higher

- **Step 1** Verify the external control relays to the ENVIR ALARMS OUT backplane pins. See the "DLP-A19 Install Alarm Wires on the Backplane" task on page 1-35 for more information.
- **Step 2** Double-click the AIC-I card to display it in card view.

- Step 3 On the External Controls subtab, modify any of the following fields for each external control wired to the ONS 15454 backplane. For definitions of these fields, see the "NTP-A32 Provision External Alarms and Controls on the Alarm Interface Controller" procedure on page 7-33.
  - Enabled
  - Trigger Type
  - Control Type
  - Description
- **Step 4** To provision additional controls, complete Step 3 for each additional device.
- Step 5 Click Apply.
- **Step 6** Return to your originating procedure (NTP).

#### 



The procedure is the same if you are using the Alarm Expansion panel (AEP). In this case, the number of contacts that are shown on the screen is changed accordingly.

#### **DLP-A210 Change AIC-I Card Orderwire Settings**

Purpose	This task changes orderwire settings on the AIC-I card.
Tools/Equipment	None
<b>Prerequisite Procedures</b>	DLP-A60 Log into CTC, page 3-23
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
Security Level	Provisioning or higher



When provisioning orderwire for ONS 15454s residing in a ring, do not provision a complete orderwire loop. For example, a four-node ring typically has east and west ports provisioned at all four nodes. However, to prevent orderwire loops, provision two orderwire ports (east and west) at all but one of the ring nodes.

 $\mathcal{P}$ Tip

Before you begin, make a list of the ONS 15454 slots and ports that require orderwire communication.

- **Step 1** Double-click the AIC-I card to display it in card view.
- **Step 2** Click the **Provisioning > Local Orderwire** tabs or the **Provisioning > Express Orderwire** tabs, depending on the orderwire path that you want to create.

Figure 11-7 shows the Local Orderwire subtab. Provisioning steps are the same for both types of orderwire.

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doc.123 sind 9 AICI       OCR     OMJ     OMN       Expt: AIC-I     AICI       Status: Active     In: 10 00 10 10 10 10 10 10 10 10 10 10 10	
UDC: 원회 DCC: 원회	
<u></u>	<b>_</b>
Alarms Conditions History Circuits Provisioning Maintenance	
Card Buzzer External Alarms External Controls	Apply
Local Orderwire 4-Wire Level 2-Wire Level	
Express Orderwire         RX: +0 dBm         RX: -4.0 dBm	
TX: +0 dBm TX: -4.0 dBm	

Figure 11-7 Provisioning Local Orderwire

- **Step 3** If needed, adjust the Tx and Rx dBm by moving the slider to the right or left for the headset type (four-wire or two-wire) that you will use. In general, you should not need to adjust the dBm.
- **Step 4** If you want to turn on the audible alert (buzzer) for the orderwire, select (check) the **Buzzer On** check box.
- Step 5 Click Apply.
- **Step 6** Return to your originating procedure (NTP).

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

Purpose	This task converts DS-1 and DS-3 protect cards from 1:1 to 1:N protection.
Tools/Equipment	None
Prerequisite Procedures	None
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
Security Level	Provisioning or higher

**Step 1** Log into the ONS 15454 node where you want to change the settings. See the "DLP-A60 Log into CTC" task on page 3-23.

- Step 2 Complete the "NTP-A108 Back Up the Database" procedure on page 15-8.
- **Step 3** Perform any of the following tasks as needed:
  - DLP-A176 Convert DS1-14 Cards From 1:1 to 1:N Protection, page 11-54
  - DLP-A177 Convert DS3-12 Cards From 1:1 to 1:N Protection, page 11-55
  - DLP-A178 Convert DS3-12E Cards From 1:1 to 1:N Protection, page 11-57
- **Step 4** Complete the "NTP-A108 Back Up the Database" procedure on page 15-8.

Stop. You have completed this procedure.

# **DLP-A176 Convert DS1-14 Cards From 1:1 to 1:N Protection**

	Purpose	This task convers DS1-14 cards in a 1:1 protection scheme to 1:N protection.	
	Tools/Equipment	None	
	<b>Prerequisite Procedures</b>	DLP-A60 Log into CTC, page 3-23	
	<b>Required/As Needed</b>	As needed	
	<b>Onsite/Remote</b>	Onsite	
	Security Level	Provisioning or higher	
Note	DS1-14 cards in Slots 3 an	51-14 cards are installed in Slots 1 through 6 and/or Slots 12 through 17. The d 15, which are the protection slots, will be replaced with DS1N-14 cards. CTC Release 2.0 or later. The procedure also requires at least one DS1N-14	
Step 1	In node view, click the Ma	intenance > Protection tabs.	
Step 2	Click the protection group	that contains Slot 3 or Slot 15 (where you will install the DS1N-14 card).	
Step 3	Make sure the slot you are upgrading is not carrying working traffic. In the Selected Group liprotect slot must say Protect/Standby (shown in Figure 11-7 on page 11-54) and not Protect/A the protect slot status is Protect/Active, use the following steps to switch traffic to the working		
	a. Under Selected Group	click the protect card.	
	<b>b.</b> Next to Switch Comm	ands, click <b>Switch</b> .	
	Protect/Standby. If the	ld change to Working/Active and the protect slot should change to y do not change, do not continue. Troubleshoot the working card and slot to d cannot carry working traffic.	
Step 4	Repeat Steps $1 - 3$ for each	protection group that you need to convert.	
Step 5	Verify that no standing alarms exist for any of the DS1-14 cards that you are converting. If alarms exist and you have difficulty clearing them, contact your next level of support.		
Step 6	Click the <b>Provisioning</b> > <b>P</b>	Protection tabs.	
Step 7	Click the 1:1 protection gro	oup that contains the cards that you will move into the new protection group.	
Step 8	Click <b>Delete</b> .		

<b>Step 9</b> When the confirmation dialog displays, click	Yes.
--	------



Deleting the 1:1 protection group does not disrupt service. However, no protection bandwidth exists for the working circuits until you complete the 1:N protection procedure. Therefore, complete this procedure as quickly as possible.

- **Step 10** If needed, repeat Steps 7 9 for other protection groups.
- **Step 11** Physically remove the DS1-14 card from Slot 3 or Slot 15. This raises an improper removal alarm.
- **Step 12** In node view, right-click the slot that held the removed card and select **Delete** from the pull-down menu. Wait for the card to disappear from node view.
- **Step 13** Physically insert a DS1N-14 card into the same slot.
- **Step 14** Verify that the card boots up properly.
- **Step 15** Click the **Inventory** tab and verify that the new card appears as a DS1N-14.
- Step 16 Click the **Provisioning > Protection** tabs.
- Step 17 Click Create.
- **Step 18** Type a name for the protection group in the Name field (optional).
- **Step 19** From the Type pull-down menu, choose **1:N** (card).
- **Step 20** From the Protect Card pull-down menu, choose the DS1N-14 card. Verify that the correct DS1N-14 card appears in the Protect Card field.
- Step 21 Under Available Cards, highlight the cards that you want in the protection group. Click the arrow (>>) tab to move the cards to the Working Cards list.
- Step 22 If necessary, set a new reversion time in the Reversion time pull-down menu.



**Note** 1:N protection groups are always revertive.

- Step 23 Click OK. The protection group appears in the Protection Groups list on the Protection subtab.
- **Step 24** Return to your originating procedure (NTP).

#### DLP-A177 Convert DS3-12 Cards From 1:1 to 1:N Protection

Purpose	This task converts DS3-12 cards in a 1:1 protection scheme to 1:N protection.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	DLP-A60 Log into CTC, page 3-23
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite
Security Level	Provisioning or higher



This procedure assumes that DS3-12 cards are installed in Slots 1 - 6 and/or Slots 12 - 17. The DS3-12 cards in Slots 3 and 15, which are the protection slots, will be replaced with DS3N-12 cards. The ONS 15454 must run CTC Release 2.0 or later. The procedure also requires at least one DS3N-12 card and a protection group with DS3-12 cards.

**Step 1** In node view, click the **Maintenance > Protection** tabs.

- **Step 2** Click the protection group containing Slot 15 (where you will install the DS3N-12 card).
- **Step 3** Make sure the slot you are upgrading is not carrying working traffic. In the Selected Group list, the protect slot must say Protect/Standby as shown in Figure 11-7 on page 11-54, and not Protect/Active. If the protect slot status is Protect/Active, use the following steps to switch traffic to the working card:
  - a. Under Selected Group, click the protect card.
  - b. Next to Switch Commands, click Switch.

The working slot should change to Working/Active and the protect slot should change to Protect/Standby. If they fail to change, do not continue. Troubleshoot the working card and slot to determine why the card cannot carry working traffic.

- **Step 4** Repeat Steps 2 and 3 for each protection group that you need to convert.
- Step 5 Verify that no standing alarms exist for any of the DS3-12 cards you are converting. If alarms exist and you have difficulty clearing them, contact your next level of support.
- **Step 6** Click the **Provisioning > Protection** tabs.
- **Step 7** Click the 1:1 protection group that contains the cards that you will move into the new protection group.
- Step 8 Click Delete.
- **Step 9** When the confirmation dialog displays, click **Yes**.



**Note** Deleting the 1:1 protection groups will not disrupt service. However, no protection bandwidth exists for the working circuits until the 1:N protection procedure is completed. Therefore, complete this procedure as soon as possible.

- **Step 10** If you are deleting more than one protection group, repeat Steps 7 9 for each group.
- **Step 11** Physically remove the DS3-12 card from Slot 3 or Slot 15. This raises an improper removal alarm.
- **Step 12** In node view, right-click the slot that held the removed card and choose **Delete** from the pull-down menu. Wait for the card to disappear from the node view.
- **Step 13** Physically insert a DS3N-12 card into the same slot.
- **Step 14** Verify that the card boots up properly.
- **Step 15** Click the **Inventory** tab and verify that the new card appears as a DS3N-12 card.
- **Step 16** Click the **Provisioning > Protection** tabs.
- Step 17 Click Create.
- **Step 18** Type a name for the protection group in the Name field (optional).
- Step 19 Click Type and choose 1:N (card) from the pull-down menu.
- **Step 20** Verify that the DS3N-12 card appears in the Protect Card field.

- In the Available Cards list, highlight the cards that you want in the protection group. Click the arrow Step 21 (>>) tab to move the cards to the Working Cards list.
- Step 22 Click OK.

The protection group should appear in the Protection Groups list on the Protection subtab.

Step 23 Return to your originating procedure (NTP).

## **DLP-A178 Convert DS3-12E Cards From 1:1 to 1:N Protection**

Purpose	This task converts DS3-12E cards in a 1:1 protection scheme to 1:N protection.
Tools/Equipment	None
Prerequisite Procedures	DLP-A60 Log into CTC, page 3-23
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite
Security Level	Provisioning or higher
in Slots 3 and 15, which ar	-12E cards are installed in Slots 1 - 6 and/or Slots 12 - 17. The DS3-12E cards e the protection slots, will be replaced with DS3N-12E cards. The procedure -12E card and a protection group with DS3-12E cards.
In node view, click the <b>Maintenance</b> > <b>Protection</b> tab.	
2 Click the protection group containing Slot 15 (where you will install the DS3N-12E card).	
protect slot must say Protect	upgrading is not carrying working traffic. In the Selected Group list, the ct/Standby as shown in Figure 11-7 on page 11-54, and not Protect/Active. If otect/Active, use the following steps to switch traffic to the working card:
a. Under Selected Group	, click the protect card.
<b>b.</b> Next to Switch Comm	ands, click Switch.
Protect/Standby. If the	ld change to Working/Active and the protect slot should change to y fail to change, do not continue. Troubleshoot the working card and slot to d cannot carry working traffic.
Repeat Steps 2 and 3 for each protection group that you need to convert.	
Verify that no standing alarms exist for any of the DS3-12E cards you are converting. If alarms exist and you have difficulty clearing them, contact your next level of support.	
Click the <b>Provisioning &gt; Protection</b> tab.	
Click the 1:1 protection group that contains the cards that you will move into the new protection group.	
Click <b>Delete</b> .	
	Tools/Equipment Prerequisite Procedures Required/As Needed Onsite/Remote Security Level This task assumes that DS3 in Slots 3 and 15, which are requires at least one DS3N In node view, click the Ma Click the protection group Make sure the slot you are protect slot must say Protect the protect slot status is Pro a. Under Selected Group b. Next to Switch Comm The working slot shou Protect/Standby. If the determine why the care Repeat Steps 2 and 3 for ea Verify that no standing alar you have difficulty clearing Click the <b>Provisioning &gt; H</b> Click the 1:1 protection group



Deleting the 1:1 protection groups will not disrupt service. However, no protection bandwidth exists for the working circuits until the 1:N protection procedure is completed. Do not delay when completing this procedure.

- **Step 10** If you are deleting more than one protection group, repeat Steps 7 9 for each group.
- **Step 11** Physically remove the DS3-12E card from Slot 3 or Slot 15. This raises an improper removal alarm.
- **Step 12** In node view, right-click the slot that held the removed card and choose **Delete** from the pull-down menu. Wait for the card to disappear from the node view.
- Step 13 Physically insert a DS3N-12E card into the same slot.
- **Step 14** Verify that the card boots up properly.
- **Step 15** Click the **Inventory** tab and verify that the new card appears as a DS3N-12E.
- **Step 16** Click the **Provisioning > Protection** tabs.
- Step 17 Click Create.
- **Step 18** Type a name for the protection group in the Name field (optional).
- **Step 19** Click **Type** and choose **1:N** (card) from the pull-down menu.
- **Step 20** Verify that the DS3N-12E card appears in the Protect Card field.
- Step 21 In the Available Cards list, highlight the cards that you want in the protection group. Click the arrow (>>) tab to move the cards to the Working Cards list.
- Step 22 Click OK.

The protection group should appear in the Protection Groups list on the Protection subtab.

**Step 23** Return to your originating procedure (NTP).