



## Manage Alarms

This chapter explains how to view and manage the alarms and conditions on a Cisco ONS 15454 SDH. Cisco Transport Controller (CTC) detects and reports SDH alarms generated by the Cisco ONS 15454 SDH and the SDH network. You can use CTC to monitor and manage alarms at a card, node (default login), or network level. You can also view alarm counts on the LCD front panel.



### Note

Except where noted, the procedures and tasks in this chapter apply to both DWDM (Software Release 4.5) and non-DWDM (Software R4.1 and earlier) nodes.

## Before You Begin

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

1. [NTP-D195 Document Existing Provisioning, page 9-2](#)—Complete this procedure as needed to print or export node data.
2. [NTP-D196 View Alarms, History, Events, and Conditions, page 9-5](#)—Complete this procedure as needed to see alarms and conditions occurring on the node and a complete history of alarm and condition messages.
3. [NTP-D68 Delete Cleared Alarms from Display, page 9-13](#)—Complete this procedure as needed to delete cleared alarm information.
4. [NTP-D69 View Alarm-Affected Circuits, page 9-14](#)—Complete this procedure as needed to find circuits that are affected by a particular alarm or condition.
5. [NTP-D70 View Alarm Counts on the LCD for a Node, Slot, or Port, page 9-16](#)—Complete this procedure as needed to see a statistical count of alarms that have occurred for a slot or port.
6. [NTP-D71 Create, Download, and Assign Alarm Severity Profiles, page 9-17](#)—Complete this procedure as needed to change the default severity for certain alarms, assign the new severities to a port, card, or node, and delete alarm profiles.
7. [NTP-D168 Enable, Modify, or Disable Alarm Severity Filtering, page 9-26](#)—Complete this procedure as needed to enable, disable, or modify alarm severity filtering in the Conditions, Alarms, or History screens; you can enable, modify, and disable alarm severity filtering at the node or network level.
8. [NTP-D72 Suppress and Discontinue Alarm Suppression, page 9-30](#)—As needed, use these tasks to suppress reported alarms at the port, card, or node level and disable the suppress command to restore normal alarm reporting.

## NTP-D195 Document Existing Provisioning

<b>Purpose</b>	Use this procedure to print card, node, or network CTC information in graphical or tabular form on a Windows-provisioned printer, or to export card, node, or network information as editable delineated text files to other applications. This procedure is useful for network record keeping and troubleshooting.
<b>Tools/Equipment</b>	Printer connected to the CTC computer by a direct or network connection.
<b>Prerequisite Procedures</b>	<a href="#">Chapter 4, “Turn Up Node”</a>
<b>Required/As needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Retrieve

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- Step 1** Complete the “[DLP-D60 Log into CTC](#)” task on page 3-23 at the node where you want to record or save data. If you are already logged in, go to [Step 2](#).
- Step 2** As needed, complete the “[DLP-D138 Print CTC Data](#)” task on page 9-2.
- Step 3** As needed, complete the “[DLP-D139 Export CTC Data](#)” task on page 9-4.
- Stop. You have completed this procedure.**
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## DLP-D138 Print CTC Data

<b>Purpose</b>	This task prints CTC card, node, or network data in graphical or tabular form on a Windows-provisioned printer.
<b>Tools/Equipment</b>	Printer connected to the CTC computer by a direct or network connection.
<b>Prerequisite procedures</b>	<a href="#">DLP-D60 Log into CTC</a> , page 3-23
<b>Required/As needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Retrieve

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- Step 1** Click the tab (and subtab, if present) containing the information you want to print. For example, click the **Alarms** tab to print Alarms window data.
- The print operation is available for all network, node, and card view windows.
- Step 2** Click **File > Print**.
- Step 3** In the Print dialog box, click a a printing option ([Figure 9-1](#)).
- Entire Frame—Prints the entire CTC window including the graphical view of the card, node, or network. This option is available for all windows.

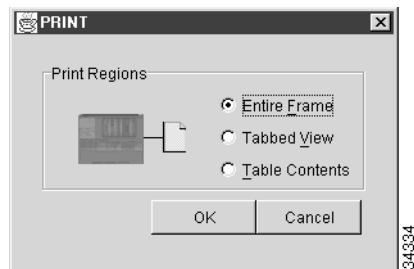
- **Tabbed View**—Prints the lower half of the CTC window containing tabs and data. The printout includes the selected tab (on top) and the data shown in the tab window. For example, if you print the History window Tabbed View, you print only history items appearing in the window. This option is available for all windows.
- **Table Contents**—Prints CTC data in table format without graphical representations of shelves, cards, or tabs. This option is available only for CTC table data, so it does not apply to:
  - Provisioning > General, Protection, SNMP, or Timing windows
  - Provisioning > Network > General window
  - Provisioning > UCP > Node window
  - Provisioning > WDM-ANS > Provisioning window (Release 4.5)
  - Maintenance > Database, Protection, Diagnostic, or Timing windows
  - Maintenance > Cross-Connect > Cards window

The Table Contents option prints all the data contained in a table and the table column headings. For example, if you print the History window Table Contents view, you print all data included in the table whether or not items appear in the window.

**Tip**

When you print using the Tabbed View option, it can be difficult to distinguish whether the printout applies to the network, node, or card view. To determine the view, compare the tabs on the printout. The network, node, and card views are identical except that network view does not contain an Inventory tab or Performance tab.

**Figure 9-1** Selecting CTC Data For Print



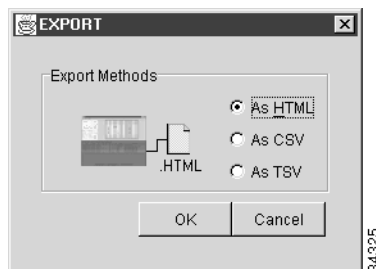
- Step 4** Click **OK**.
- Step 5** In the Windows Print dialog box, click a printer and click **OK**.
- Step 6** Repeat this task for each window that you want to print.
- Step 7** Return to your originating procedure (NTP).

## DLP-D139 Export CTC Data

<b>Purpose</b>	This task exports CTC table data as delineated text to view or edit the data in text editor, word processing, spreadsheet, database management, or web browser applications.
<b>Tools/Equipment</b>	None
<b>Prerequisite procedures</b>	<a href="#">DLP-D60 Log into CTC, page 3-23</a>
<b>Required/As needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Retrieve

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- Step 1** Click the tab containing the information you want to export (for example, the Alarms tab or the Circuits tab).
- Step 2** Choose **Export** from the File menu.
- Step 3** In the Export dialog box ([Figure 9-2](#)), click a data format:
- As HTML—Saves data as a simple HTML table file without graphics. The file must be viewed or edited with applications such as Netscape Navigator, Microsoft Internet Explorer, or other applications capable of opening HTML files.
  - As CSV—Saves the CTC table as comma-separated values (CSV).
  - As TSV—Saves the CTC table as tab-separated values (TSV).

**Figure 9-2** Selecting CTC Data For Export



- Step 4** If you want to open a file in a text editor or word processor application, procedures may vary; but typically you can use the File > Open command to display the CTC data, or you can double-click the file name and choose an application such as Notepad.
- Text editor and word processor applications display the data exactly as it is exported, including comma or tab separators. All applications that open the data files allow you to format the data.
- Step 5** If you want to open the file in spreadsheet and database management applications, procedures may vary; but typically you need to open the application and choose File > Import, then choose a delimited file to display the data in cells.
- Spreadsheet and database management programs also allow you to manage the exported data.



**Note** An exported file cannot be opened in CTC.

The export operation only applies to tabular data, so it is not available for the following CTC tabs and subtabs:

- Provisioning > General, Protection, SNMP, or Timing windows
- Provisioning > Network > General window
- Provisioning > UCP > Node window
- Provisioning > WDM-ANS > Provisioning window (Release 4.5)
- Maintenance > Database, Protection, Diagnostic, or Timing windows
- Maintenance > Cross-Connect > Cards window

**Step 6** Click **OK**.

**Step 7** In the Save dialog box, enter a name in the File name field using one of the following formats:

- [filename].html—for HTML files
- [filename].csv—for CSV files
- [filename].tsv—for TSV files

**Step 8** Navigate to a directory where you want to store the file.

**Step 9** Click **OK**.

**Step 10** Repeat the task for each window that you want to export.

**Step 11** Return to your originating procedure (NTP).

## NTP-D196 View Alarms, History, Events, and Conditions

<b>Purpose</b>	Use this procedure to view current or historical alarms and conditions for a card, a node, or network. This information is useful for monitoring and troubleshooting hardware and software events.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	None
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning

**Step 1** Complete the “[DLP-D60 Log into CTC](#)” task on page 3-23 at the node that contains the alarms you want to view. If you are already logged in, go to [Step 2](#).

**Step 2** In the card, node, or network view, click the **Alarms** tab to display the alarms for that card, node, or network ([Figure 9-3](#)).

Figure 9-3 CTC Node View

The screenshot displays the CTC Node View for node svt-mz-176. The interface includes a menu bar (File, Edit, View, Tools, Help) and a toolbar. On the left, a summary box shows the node's IP address (10.51.100.176), boot time (6/30/03 10:53 AM), user (CISCO15), authority (Superuser), SW version (04.50-003F-27.17), defaults (Factory Defaults), and APC state (ENABLE). The main area shows a network diagram with slots 18-29 and various equipment types like DMX32\_0, TCC2, OSC, and AIC. A table at the bottom lists alarms, with two entries highlighted: one yellow (365) for 'Optical Power Degradation' and one red (30) for 'Improper Removal'.

Num	Ref	New	Date	Object	Eqpt Type	Slot	Port	Sev	ST	SA	Cond	Description
365	365		07/01/03 08:47:16 CDT	CHAN-1...	DMX32_0	14	13	MN	R		OPWR-LDEG	Optical Power Degradation Low
30	30		07/01/03 03:35:41 CDT	SLOT-23		23		CR	R	<input checked="" type="checkbox"/>	IMPROPRM...	Improper Removal

Table 9-1 lists the columns in the Alarms window and their descriptions.

Table 9-1 Alarm Column Descriptions

Column	Information Recorded
New	Indicates a new alarm; to change this status, click either the Synchronize button or the Delete Cleared Alarms button
Date	Date and time of the alarm
Node	Node where the alarm occurred (appears only in network view)
Object	The object for an HPmon or LPmon
Eqpt Type	Card type in this slot
Slot	Slot where the alarm occurred (appears only in network and node view)
Port	Port where the alarm is raised. For HPterm and LPterm, the port refers to the upstream card it is partnered with.
Sev	Severity level: CR (critical), MJ (major), MN (minor), NA (not-alarmed), NR (not-reported)
ST	Status: R (raised), C (clear)
SA	When checked, indicates a service-affecting alarm

**Table 9-1 Alarm Column Descriptions (continued)**

Column	Information Recorded
Cond	The error message/alarm name; these names are alphabetically defined in the “Alarm Troubleshooting” chapter of the <i>Cisco ONS 15454 SDH Troubleshooting Guide</i>
Description	Description of the alarm
Num	An incrementing count of alarm messages
Ref	The reference number assigned to the alarm

Table 9-2 lists the color codes for alarm and condition severities.

**Table 9-2 Color Codes for Alarms and Conditions**

Color	Description
Red	Raised Critical (CR) alarm
Orange	Raised Major (MJ) alarm
Yellow	Raised Minor (MN) alarm
Magenta (pink)	Raised Not-Alarmed (NA) condition
Blue	Raised Not-Reported (NR) condition
White	Cleared (C) alarm or condition

Releases 4.0 and later have additional numbered STM and VC alarm object identifiers based upon the object IDs.

**Table 9-3 Release 4.0 and Later Port-Based Alarm Numbering Scheme**

STM and VC Alarm Numbering		
MON object	VC4-<slot>-<port>-<VC within port> For example, VC4-6-1-6	Port=1
TERM object	VC4-<slot>-<VC within slot> For example, VC4-6-6	Port=1

- Step 3** If alarms are present, refer to the *Cisco ONS 15454 SDH Troubleshooting Guide* for information and troubleshooting procedures.
- Step 4** Complete the “[DLP-D110 View Alarm History](#)” task on page 9-8, the “[DLP-D113 Synchronize Alarms](#)” task on page 9-11, or the “[DLP-D114 View Conditions](#)” task on page 9-11 as needed.

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

## DLP-D110 View Alarm History

<b>Purpose</b>	Use this task to view past cleared and uncleared ONS 15454 SDH alarm messages at the card, node, or network level. This task is useful for troubleshooting configuration, traffic, or connectivity issues that are indicated by alarms.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">DLP-D60 Log into CTC, page 3-23</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Retrieve

**Step 1** Decide whether you want to view the alarm message history at the node, network, or card level.

**Step 2** To view node alarm history:

- a. Click the **History > Session** tabs to view the alarms and conditions (events) raised during the current session.
- b. Click the **History > Node** tabs to retrieve all available alarm messages for the node.



**Tip** Double-click an alarm in the alarm table or an event (condition) message in the history table to display the view that corresponds to the alarm message. For example, double-clicking a card alarm takes you to card view. In network view, double-clicking a node alarm takes you to node view.

**Step 3** To view network alarm history, from node view:

- a. Click **View > Go to Network View**.
- b. Click the **History** tab.

Alarms and conditions (events) raised during the current session appear.

**Step 4** To view card alarm history, from network view click **View > Go to Previous View** to return to the node view.

**Step 5** From node view, double-click a card on the shelf graphic to display the card-level view for the card.



**Note** TCC2 and cross-connect cards do not have a card view.

- a. Click the **History > Session** tabs to view the alarm messages raised during the current session.
- b. Click the **History > Card** tabs to retrieve all available alarm messages for the card.



**Note** The ONS 15454 SDH can store up to 640 critical alarm messages, 640 major alarm messages, 640 minor alarm messages, and 640 condition messages. When any of these limits is reached, the ONS 15454 SDH discards the oldest events in that category.

**Step 6** To display Not-Alarmed (NA) and transient event (condition) history from the node or card view:

- a. Check the **Events** check box in the History > Node window or History > Card window.



b. Click **Retrieve**.

**Step 7** The window displays raised and cleared alarm messages (and events, if selected).



**Tip** Double-click an alarm in the alarm table or a condition in the history table to display the view that corresponds to the alarm message. For example, double-clicking a card alarm takes you to card view. In network view, double-clicking a node alarm takes you to node view.

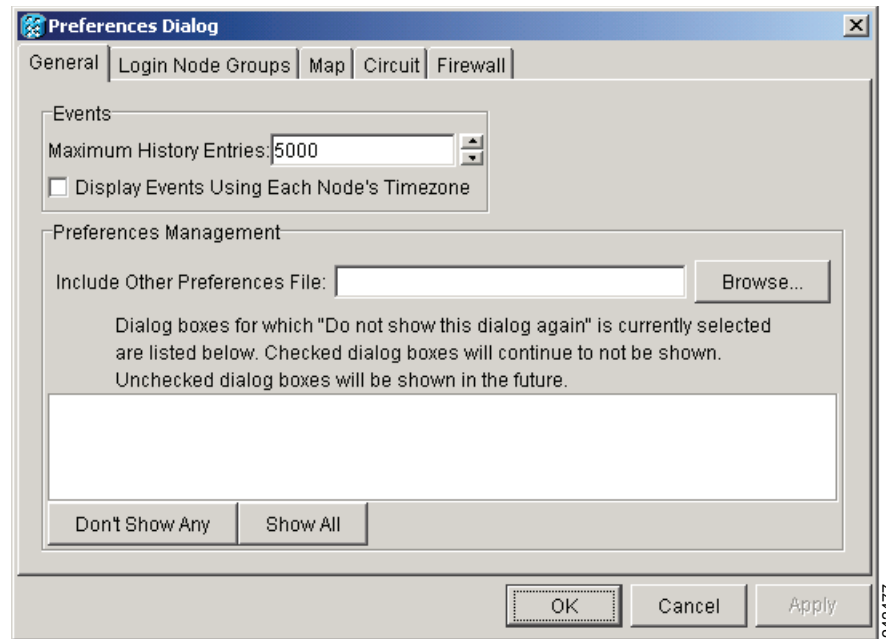
**Step 8** Return to your originating procedure (NTP).

## DLP-D111 Changing the Maximum Number of Session Entries for Alarm History

<b>Purpose</b>	This task changes the maximum number of session entries included in the alarm history. Use this task to extend the history list in order to save information for future reference or troubleshooting.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">DLP-D60 Log into CTC, page 3-23</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning

**Step 1** From the Edit menu, choose **Preferences**.  
The CTC Preferences Dialog box appears ([Figure 9-4](#)).

Figure 9-4 CTC Preferences Dialog Box



**Step 2** Click the up or down arrow buttons next to the Maximum History Entries field to change the entry.

**Step 3** Click **Apply** and **OK**.



**Note** Setting the Maximum History Entries value to the high end of the range uses more CTC memory and could impair CTC performance.



**Note** This task changes the maximum history entries recorded for CTC sessions. It does not affect the maximum number of history entries viewable for a network, node, or card.

**Step 4** Return to your originating procedure (NTP).

## DLP-D112 Display Alarms and Conditions Using Time Zone

<b>Purpose</b>	Use this task to change the timestamp for events to the timezone of the ONS node reporting the alarm. By default, the events timestamp is set to the timezone for the CTC workstation.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">DLP-D60 Log into CTC, page 3-23</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning

- 
- Step 1** From the Edit menu, choose **Preferences**.  
The CTC Preferences Dialog box appears ([Figure 9-4 on page 9-10](#)).
- Step 2** Check the **Display Events Using Each Node's Timezone** check box. The Apply button is enabled.
- Step 3** Click **Apply** and **OK**.
- Step 4** Return to your originating procedure (NTP).
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## DLP-D113 Synchronize Alarms

<b>Purpose</b>	Use this task to view ONS 15454 SDH events at the card, node, or network level and to refresh the alarm listing while troubleshooting so that you can check for new and cleared alarms and conditions.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">DLP-D60 Log into CTC, page 3-23</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Retrieve

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**Step 1** At the card, node, or network view, click the **Alarms** tab.

**Step 2** Click **Synchronize**.

This button causes CTC to retrieve a current alarm summary for the card, node, or network. This step is optional because CTC updates the Alarms window automatically as raise/clear messages arrive from the node.



**Note** Alarms that have been raised during the session will have a check mark in the Alarms window New column. When you click Synchronize, the check mark disappears.

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**Step 3** Return to your originating procedure (NTP).

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## DLP-D114 View Conditions

<b>Purpose</b>	Use this task to view conditions [events with a Not-Reported (NR) severity] at the card, node, or network level. Conditions give you a clear record of changes or events that do not result in alarms.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">DLP-D60 Log into CTC, page 3-23</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Retrieve

- Step 1** From the card, node, or network view, click the **Conditions** tab.
- Step 2** Click **Retrieve** (Figure 9-5).

The Retrieve button requests the current set of fault conditions from the node, card, or network. The window is not updated when events change on the node. You must click Retrieve to see any changes.

**Figure 9-5 Node View Conditions Window**

The screenshot shows the Cisco Transport Controller interface for node svt-mz-176. The top section displays summary statistics: 2 CR (Critical), 0 MJ (Major), and 0 MN (Minor) conditions. Below this, system information such as IP address (10.51.100.176), boot time (6/30/03 7:11 AM), and user (CISCO15) is shown. The main area features a rack diagram with slots 18-29 and ports 1-17. A table at the bottom lists the conditions, with one row highlighted in red:

Date	Object	Eqpt Type	Slot	Port	Sev	SA	Cond	Description
06/30/03 09:07:42 CDT	SYNC-NE				NA	SWTOPRI		Switch To Primary Reference
06/30/03 09:07:42 CDT	SYNC-NE				NA	SSM-SETS		G813 - Synchronous Equipment Timing S...
06/30/03 09:07:42 CDT	SYNC-NE				NA	FRNGSYNC		Free Running Synchronization Mode
06/30/03 09:09:35 CDT	LINE-5-1...	DMX32_O	5	33	NR	OPWR-LFAIL		Optical Power Failure Low
06/30/03 09:09:35 CDT	CHAN-5-...	DMX32_O	5	17	NR	OPWR-LFAIL		Optical Power Failure Low
06/30/03 09:09:19 CDT	LINE-16-...	OPT_BST	16	6	NR	OPWR-HD...		Optical Power Degradate High
06/30/03 09:07:53 CDT	LINE-2-1...	OPT_BST	2	2	CR	OPWR-LFAIL		Optical Power Failure Low
06/30/03 09:09:05 CDT	LINE-1-2...	OPT_PRE	1	3	NR	OPWR-LFAIL		Optical Power Failure Low
06/30/03 09:09:05 CDT	LINE-1-1...	OPT_PRE	1	2	NR	OPWR-LFAIL		Optical Power Failure Low
06/30/03 09:09:05 CDT	LINE-1-1...	OPT_PRE	1	2	NR	GAIN-LDEG		Optical Amplifier Gain Degradate Low
06/30/03 09:09:08 CDT	LINE-1-1...	OPT_PRE	1	1	NR	VOA-LDEG		Variable Optical Attenuator Degradate Low
06/30/03 09:09:05 CDT	LINE-1-1...	OPT_PRE	1	1	NR	OPWR-LFAIL		Optical Power Failure Low
06/30/03 09:07:42 CDT	SYSTEM				MN	PWR-R		NE Power Failure At Connector B

At the bottom of the window, there is a 'Retrieve' button, a 'Filter...' dropdown, and a checkbox for 'Exclude Same Root Cause'. The retrieval time is shown as 'Retrieved: June 30, 2003 9:51:35 AM CDT'.

Conditions include all fault conditions raised on the node, whether or not they are reported.



**Note** Alarms can be unreported when they are filtered out of the display. See the “[DLP-D225 Enable Alarm Filtering](#)” task on page 9-27 for information.

Events that are reported as Major (MJ), Minor (MN), or Critical (CR) severities are alarms. Events that are reported as Not-Alarmed (NA) are conditions. Conditions that are not reported at all are marked Not-Reported (NR) in the Conditions window severity column.

Conditions that have a default severity of Critical (CR), Major (MJ), Minor (MN), or Not-Alarmed (NA) but are not reported due to exclusion or suppression are shown as NR in the Conditions window.



**Note** For more information about alarm suppression, see the “[DLP-D119 Suppress Alarm Reporting](#)” task on page 9-31.

Current conditions are shown with the severity chosen in the alarm profile, if used. For more information about alarm profiles, see the “[NTP-D71 Create, Download, and Assign Alarm Severity Profiles](#)” procedure on page 9-17.



**Note** When ports are placed out of service for maintenance (OOS-MT), they raise an Alarms Suppressed for Maintenance (AS-MT) condition. For information about alarm and condition troubleshooting, refer to the *Cisco ONS 15454 SDH Troubleshooting Guide*.

- Step 3** If you want to apply exclusion rules, check the **Exclude Same Root Cause** check box at the node or network view, but do not check the Exclude Same Root Cause check box in card view.
- An exclusion rule eliminates all lower-level alarms or conditions that originate from the same cause. For example, a fiber break may cause an LOS alarm, an AIS condition, and an SF condition. If you check the Exclude Same Root Cause checkbox, only the LOS alarm will appear. According to IEEE, exclusion rules apply to a query of “all conditions from a node.”
- Step 4** Return to your originating procedure (NTP).

## NTP-D68 Delete Cleared Alarms from Display

<b>Purpose</b>	Use this procedure to delete Cleared (C) status alarms from the alarms window. The procedure can be used to delete transient messages from the CTC History window.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	None
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Retrieve

- Step 1** Log into a node where you want to delete alarms. See the “[DLP-D60 Log into CTC](#)” task on page 3-23. If you are already logged in, go to [Step 2](#).
- Step 2** To delete cleared node-level alarms:
- In the node view, click the **Alarms** tab.
  - Click the **Delete Cleared Alarms** button, referring to the rules in [Step 5](#).
- This action removes any cleared ONS 15454 SDH alarms from the Alarms display. The rows of cleared alarms turn white and have a C in their status (ST) column ([Figure 9-5 on page 9-12](#)).
- Step 3** To delete cleared card-level alarms:
- In the node view, double-click the card graphic for the card you want to open.
  - Click the **Alarms** tab and then click the **Delete Cleared Alarms** button, referring to the rules in [Step 5](#).
- Step 4** To delete clear network-level alarms:
- Choose **Go to Network View** from the View menu.

- b. Click the **Alarms** tab and then click **Delete Cleared Alarms**, referring to the rules in [Step 5](#).

**Step 5** Consult the following rules when deleting cleared alarms from the display:

- If the Autodelete Cleared Alarms check box is checked, an alarm disappears from the window when it is cleared.
- If the Autodelete Cleared Alarms check box is not checked, an alarm remains in the window when it is cleared. The alarm appears white in the window and has a Clear (CL) severity. The alarm can be removed by clicking the Delete Cleared Alarms button.

**Step 6** Transient messages are single messages and not raise-and-clear pairs (that is, they do not have companion messages stating they are cleared). Click the **Delete Cleared Alarms** button to remove the transients from the History window.

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

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## NTP-D69 View Alarm-Affected Circuits

<b>Purpose</b>	Use this procedure to view all circuits, if any, affected by an alarm or condition
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">NTP-D196 View Alarms, History, Events, and Conditions, page 9-5</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Retrieve

**Step 1** Complete the “[DLP-D60 Log into CTC](#)” task on page 3-23. If you are already logged in, go to [Step 2](#).

**Step 2** In the network, node, or card view, click the **Alarms** tab or **Conditions** tab and then right-click anywhere in the row of an active alarm or condition.



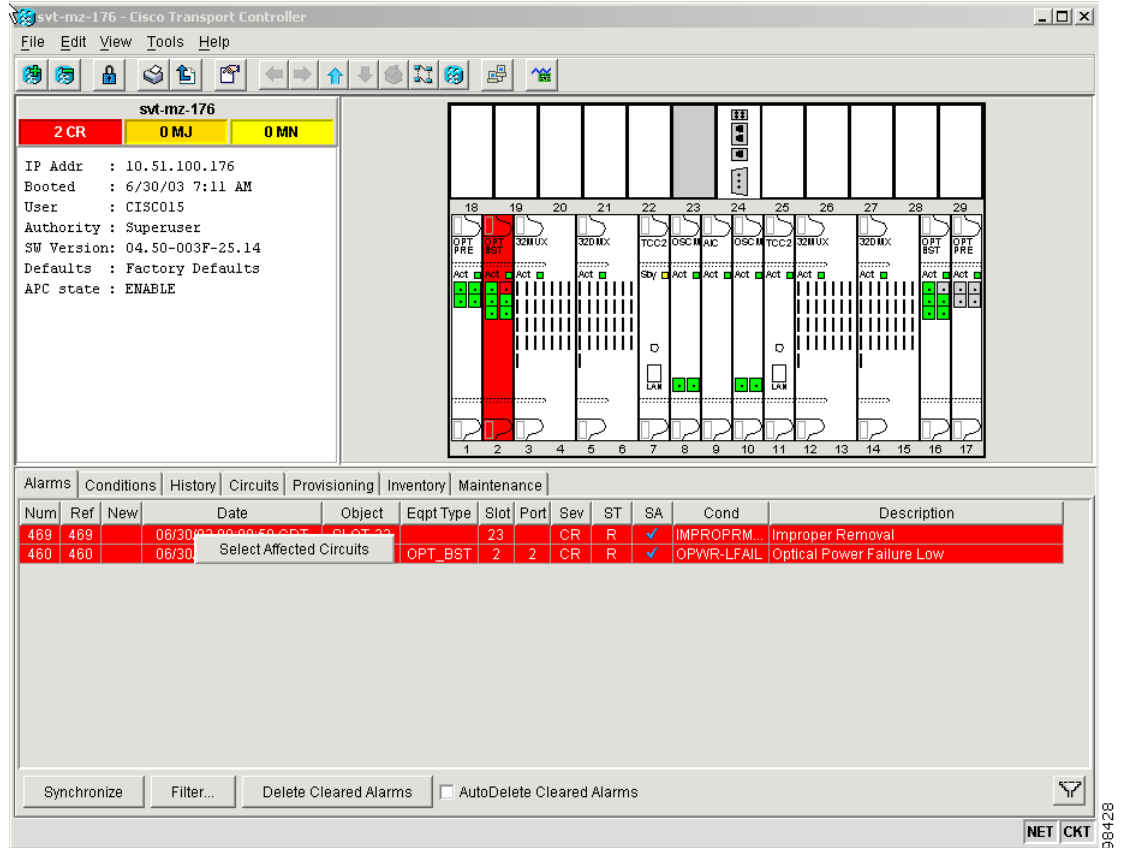
**Note** The node view is the default, but you can also navigate to the Alarms tab in the network view or card view to perform Step 2.



**Note** The card view is not available for the TCC2 or cross-connect cards.

The Select Affected Circuit option appears on the shortcut menu ([Figure 9-6](#)).

Figure 9-6 Select Affected Circuits Option



**Step 3** Left-click or right-click **Select Affected Circuits**.

The Circuits window appears with the affected circuits highlighted (Figure 9-7).

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Figure 9-7 Viewing Alarm-Affected Circuits

The screenshot shows the Cisco Transport Controller (CTC) interface for node svt-mz-176. The top left panel displays node statistics: 2 CR (Critical), 0 MJ (Major), and 0 MN (Minor). Below this, node details are listed: IP Addr: 10.51.100.176, Booted: 6/30/03 7:11 AM, User: CISCO15, Authority: Superuser, SW Version: 04.50-003F-25.14, Defaults: Factory Defaults, and APC state: ENABLE.

The main area shows a rack diagram with slots 18 through 29. Slot 19 is highlighted in red, indicating an alarm. Below the rack diagram is a table of alarm-affected circuits:

Circuit Name	Type	Size	OCHNC Wlen	Dir	OCHNC Dir	Protection	Status	Source
OCHNC_svt-m...	OCHNC	Equipped no...	1550.92	1-way	East to West	Unknown	INCOMPLETE	svt-mz-176/s3/p22
OCHNC_svt-m...	OCHNC	Equipped no...	1548.51	1-way	West to East	Unknown	INCOMPLETE	svt-mz-176/s12/p20
Unknown	OCHNC	Equipped no...	1546.12	1-way	West to East	Unknown	INCOMPLETE	svt-mz-176/s2/p5
OCHNC_svt-m...	OCHNC	Equipped no...	1547.72	1-way	West to East	Unknown	INCOMPLETE	svt-mz-176/s12/p19

At the bottom of the interface, there are buttons for 'Create...', 'Edit...', 'Delete...', 'Filter...', and 'Search...'. The 'Scope' is set to 'Node'.

- Step 4** If you want to search for particular circuits, see the “[DLP-D131 Search for Circuits](#)” task on page 11-6. **Stop. You have completed this procedure.**

## NTP-D70 View Alarm Counts on the LCD for a Node, Slot, or Port

<b>Purpose</b>	Use this procedure to find out how many alarms have occurred on a node, slot or port without using CTC.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	None
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite
<b>Security Level</b>	Retrieve

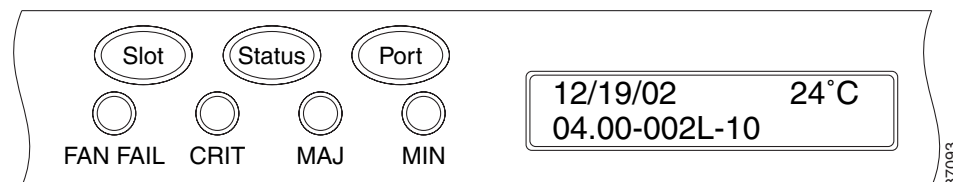
- Step 1** If you want to view the alarm count for the node, press the **Slot** button on the LCD panel until Node appears on the LCD.
- Step 2** To view the node alarm summary, press the **Status** button.



- Step 3** To view the node-level alarm summary:
- Press the **Port** button to toggle to Port 0.
  - Press the **Status** button.
- Step 4** To view the card-level alarm count, press the **Slot** button.
- Step 5** To view the slot alarm summary, wait 8 seconds after pressing Slot and the LCD is automatically updated with the summary of all alarms for the slot. To toggle to summaries for different slots, press the **Slot** button again.
- Step 6** To view port-level alarm counts:
- Press the **Port** button to toggle to Port 0.
  - Press **Status** to get slot card-level alarm counts.
  - To toggle to a the alarm count for a different port, press the **Port** button again.
  - Press **Slot** to toggle back to the node summary.

Figure 9-8 shows the LCD panel.

**Figure 9-8 The LCD Panel**



**Note** A blank LCD results when the fuse on the AIP board is blown. If this occurs, log into <http://www.cisco.com/tac> for more information or log into <http://www.cisco.com/warp/public/687/Directory/DirTAC.shtml> to obtain a directory of Cisco TAC toll-free numbers for your country.

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

## NTP-D71 Create, Download, and Assign Alarm Severity Profiles

<b>Purpose</b>	Use this procedure to create a customized copy of the default alarm profile applied to a node, to download a saved custom profile from a network location to another node, to assign custom severities individually to a port, card, or node, and to delete alarm profiles.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	None
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning or higher

- 
- Step 1** Complete the “[DLP-D60 Log into CTC](#)” task on page 3-23 at the node where you want to create an alarm profile. If you are already logged in, go to [Step 2](#) to clone or modify an alarm profile, or go to [Step 3](#) to download an alarm profile.
- Step 2** Complete the “[DLP-D115 Create Alarm Severity Profiles](#)” task on page 9-18. This task clones a current alarm profile, renames the profile, and customizes the new profile. Go to [Step 4](#).
- Step 3** Complete the “[DLP-D223 Download an Alarm Severity Profile](#)” task on page 9-21. This task downloads an alarm severity profile from a CD or a node.
- Step 4** As necessary, complete the “[DLP-D19 Apply Alarm Profiles to Ports](#)” task on page 9-22 or the “[DLP-D117 Apply Alarm Profiles to Cards and Nodes](#)” task on page 9-24.

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

---

## DLP-D115 Create Alarm Severity Profiles

<b>Purpose</b>	Use this task to create a custom severity profile by modifying the default severity profile.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">DLP-D60 Log into CTC</a> , page 3-23
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning or higher

- 
- Step 1** From the View menu choose **Go to Network View**.
- Step 2** Click the **Provisioning > Alarm Profiles** tabs ([Figure 9-3 on page 9-6](#)).
- Step 3** Click **Load**.
- Step 4** In the Select Profile(s) from Node or Filename to Load dialog box, click the **From Node** radio button.
- Step 5** Click the node name you are logged into in the Node Names list.
- Step 6** Click **Default** in the Profile Names list.
- Step 7** Click **OK**.

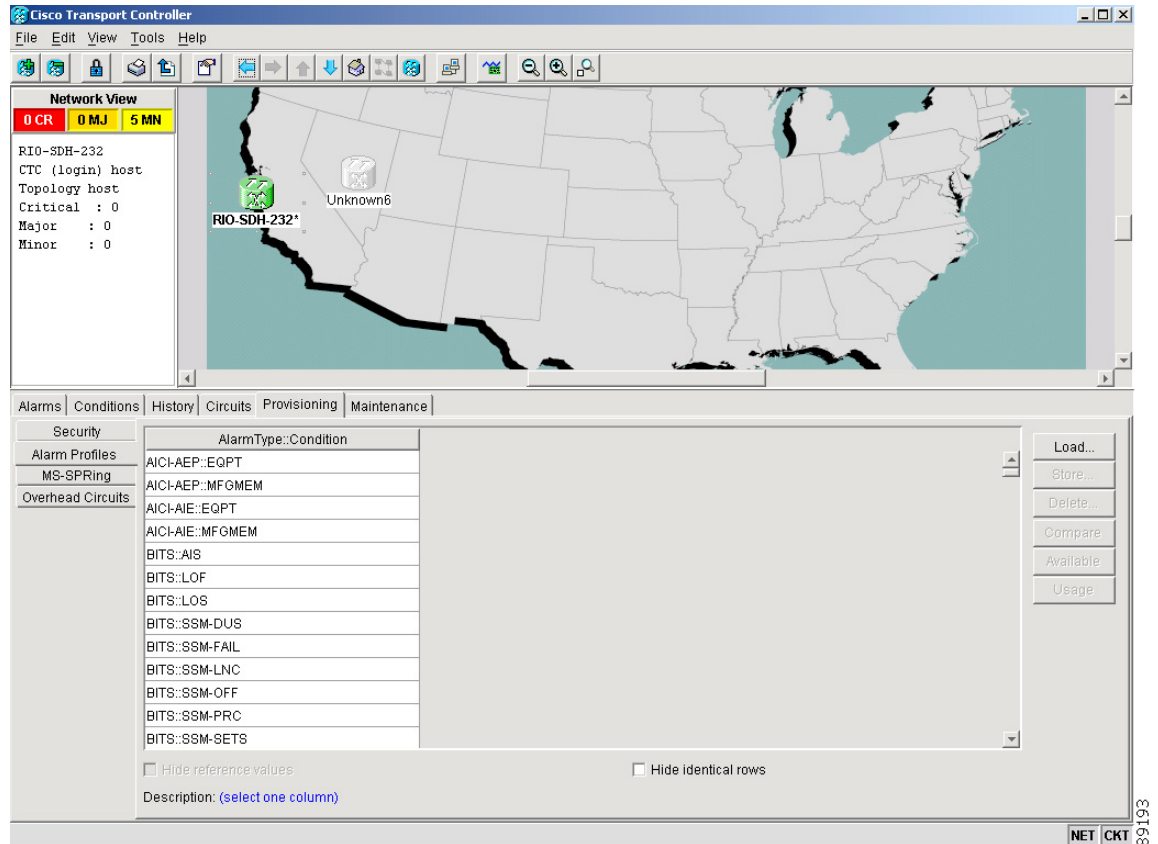
The default alarm severity profile appears in the Alarm Profiles window ([Figure 9-9](#)).



**Note** The alarm profile list contains a master list of alarms that is used for a mixed node network. Some of these alarms may not be used in all ONS nodes.

---

Figure 9-9 Network View Alarm Profiles Window



**Step 8** Right-click anywhere in the Default profile column to display the profile editing shortcut menu.

**Step 9** Click **Clone** in the shortcut menu.



**Tip** To find out which profiles are available for loading or cloning, click the Available button. You cannot clone Inherited profiles.

**Step 10** In the Clone Profile dialog box, enter a name for the copied profile in the New Profile Name field.

Profile names must be unique. If you try to import or name a profile that has the same name as another profile, CTC adds a suffix to create a new name. Long file names are supported.

**Step 11** Click **OK**.

A new alarm profile (named in [Step 10](#)) is created. This profile duplicates the default profile severities and appears to the right of the default profile in the Alarm Profiles window. You can highlight it and drag it to a different position.

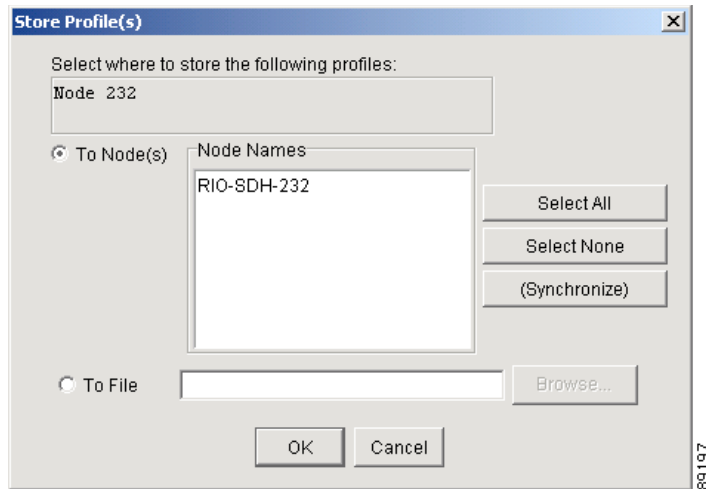
**Step 12** Modify (customize) the new alarm profile:

- In the new alarm profile column, double-click the alarm severity you want to change.
- Click the desired severity in the drop-down menu.
- Repeat Steps [a](#) and [b](#) for each severity you want to customize.

**Step 13** After you have customized the new alarm profile, right-click the profile column to highlight it.

- Step 14** Click **Store** in the profile editing shortcut menu.
- Step 15** Click the **To Node(s)** radio button and go to Step [a](#) or click the **To File** radio button and go to Step [b](#). (Figure 9-10).

**Figure 9-10 Store Profile(s) Dialog Box**



- a.** Choose the node(s) where you want to save the profile:
- If you want to save the profile to only one node, click the node in the Node Names list.
  - If you want to save the profile to all nodes, click **Select All**.
  - If you do not want to save the profile to any nodes, click **Select None**.
  - If you want to update alarm profile information, click **(Synchronize)**.
- b.** Navigate to the profile save location by clicking **Browse**.
- Enter a name in the File name field.
  - Click **Select** to choose this name and location.



**Note** Long file names are supported. CTC supplies a suffix of \*.pfl.

- c.** Click the **OK** button to store the profile.



**Note** Click the Hide Identical Rows check box to configure the Alarm Profiles window to display rows with dissimilar severities.




**Note** Click the Hide Reference Values Matching Profile Default check box to configure the Alarm Profiles window to display severities that do not match the Default profile.

- Step 16** Return to your originating procedure (NTP).

## DLP-D223 Download an Alarm Severity Profile

<b>Purpose</b>	Use this task to download a custom alarm severity profile from a network-drive accessible CD-ROM, floppy disk, or hard disk location.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">DLP-D60 Log into CTC, page 3-23</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning or higher

- 
- Step 1** From the View menu choose **Go to Network View** ([Figure 9-3 on page 9-6](#)).
- Step 2** Click the **Provisioning > Alarm Profiles** tabs.
- Step 3** Click **Load**.
- Step 4** If you want to download a file from the local PC hard drive, floppy disk, CD-ROM, or a network drive (if connected), click the **From File** radio button in the Select Profile(s) from Node or Filename to Load dialog box.
- Click **Browse**.  
The Open dialog box appears.
  - In the Look in pull-down menu, click to navigate to the folder where the profile file is located.
  - Click the name in the window to highlight it.
-  **Note** The file must have the \*.pfl extension.
- Click **Open**.  
Go to [Step 6](#).
- Step 5** If you want to download a file from the login node or another connected node, click the **From Node** radio button in the Select Profile(s) from Node or Filename to Load dialog box.
- Click the node where the profile is located under the Node Names list.
  - Click the profile under the Profile Names list.
- Step 6** Click **OK** in the Select Profile(s) from Node or Filename to Load dialog box.  
The downloaded profile appears at the right side of the Alarm Profiles window.
- Step 7** Right-click anywhere in the downloaded profile column to display the profile editing shortcut menu.
- Step 8** Click **Store** in the shortcut menu.
- Step 9** In the Store Profile(s) dialog box, click **To Node(s)** ([Figure 9-10 on page 9-20](#)).
- Choose the node(s) where you want to save the profile:
    - If you want to save the profile to only one node, click the node in the Node Names list.
    - If you want to save the profile to all nodes, click **Select All**.
    - If you do not want to save the profile to any nodes, click **Select None**.
    - If you want to update alarm profile information, click **Synchronize**.
  - Click **OK**.

**Step 10** Return to your originating procedure (NTP).

---

## DLP-D19 Apply Alarm Profiles to Ports

<b>Purpose</b>	Use this task to apply a custom or default alarm severity profile to a port or ports.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">DLP-D115 Create Alarm Severity Profiles, page 9-18</a> <a href="#">DLP-D60 Log into CTC, page 3-23</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning or higher

---

**Step 1** In the node view, double-click a card to display the card view.



**Note** You can also apply alarm profiles to cards using the “[DLP-D117 Apply Alarm Profiles to Cards and Nodes](#)” task on page 9-24.

---



**Note** The card view is not available for the TCC2 or cross-connect cards.

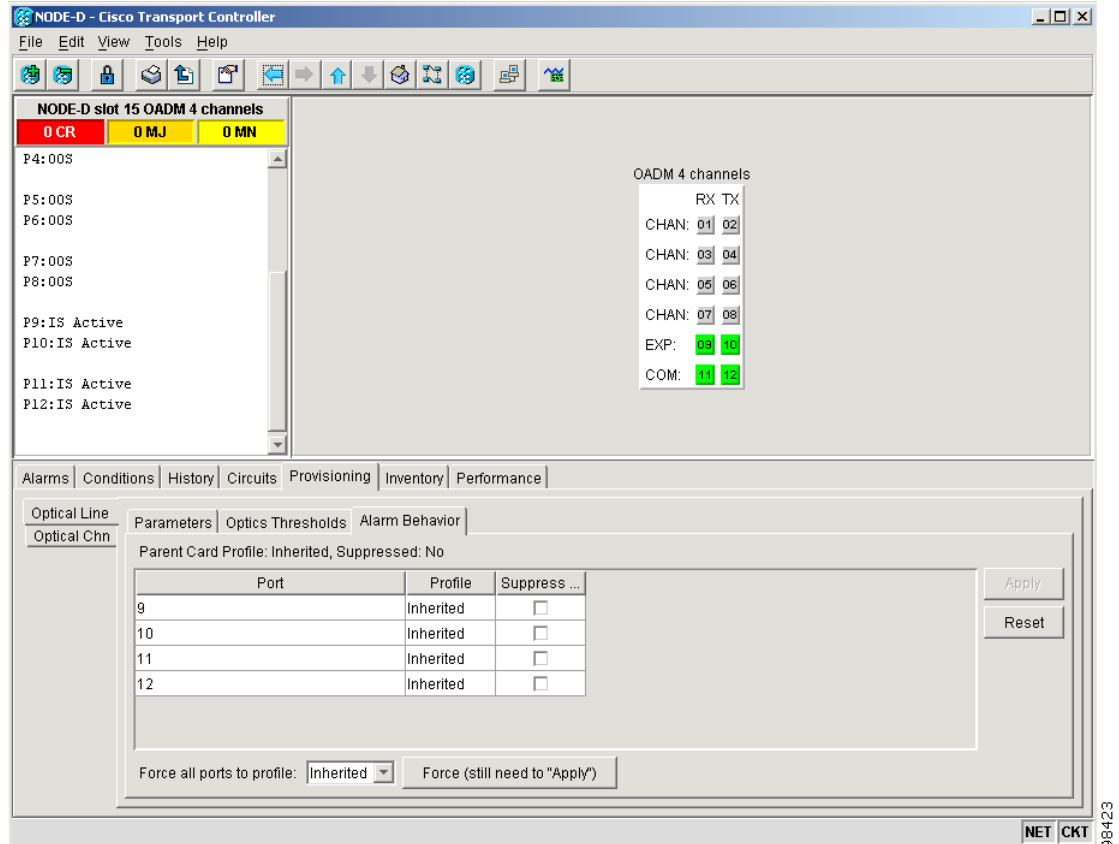
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**Step 2** Depending on which card you want to apply the profile to, click the following tabs:

- If the card is an E-Series Ethernet, G-Series Ethernet, MXP, TXP, STM-N, or electrical traffic card, click the **Provisioning > Alarm Behavior** tabs.
- If the card is an ML-Series Ethernet (traffic) card, click the **Provisioning > Ether Alarming** tabs or the **Provisioning > POS Alarming** tabs, depending on whether you want to apply the profile to the front physical ports (“Ether alarming”) or packet over SDH (“POS alarming”). For more information about ML-Series card ports and service, see the *Cisco ONS 15454 SONET/SDH ML-Series Multilayer Ethernet Card Software Feature and Configuration Guide*.
- If the card is an OSCM or OSC-CSM DWDM card, click the **Provisioning > OC3 Line** tab or **Provisioning > Optical Line** tab and the Alarm Behavior subtab.
- If the card is a 32MUX-O or 32DM-X DWDM card, click the **Provisioning > Optical Chn** or **Provisioning > Line** tab and the Alarm Behavior subtab.
- If the card is an OPT-PRE or OPT-BST DWDM card, click the **Provisioning > Optical Line** or **Provisioning > Optical Ampli. Line** and the Alarm Behavior subtab.
- If the card is a channel add/drop DWDM card (AD-1C-xx.x, AD-2C-xx.x, AD-4C-xx.x) click the **Provisioning > Optical Line** or **Provisioning > Optical Chn** tab and the Alarm Behavior subtab.
- If the card is a band add/drop DWDM card (AD-1B-xx.x, AD-2B-xx.x, AD-4B-xx.x) DWDM card, click the **Provisioning > Optical Line** or **Provisioning > Optical Band** tab and the Alarm Behavior subtab.

[Figure 9-11](#) shows the alarm profile of AD-4C-xx.x card ports. CTC shows Force all ports to Profile: Inherited.

Figure 9-11 Card View Port Alarm Profile for an AD-4C-xx.x Card



Go to [Step 3](#) to apply profiles to a port. Go to [Step 4](#) to apply profiles to all ports on a card.

**Step 3** To apply profiles on a port basis:

- Click the port row under the Profile column.
- Choose the new profile from the drop-down menu.
- Click **Apply**.

**Step 4** To apply profiles to all ports on a card:

- Click the **Force all ports to profile** menu arrow at the bottom of the window.
- Choose the new profile from the drop-down menu.
- Click **Force (still need to “Apply”)**.
- Click **Apply**.

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



**Tip**

Click Reset to return to the previous profile setting unless you have already clicked Apply. To return to the previous profile if you have already applied it, select the previous profile and click Apply again.

## DLP-D117 Apply Alarm Profiles to Cards and Nodes

<b>Purpose</b>	This task applies a custom or default alarm profile to cards or nodes.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">DLP-D115 Create Alarm Severity Profiles, page 9-18</a> <a href="#">DLP-D60 Log into CTC, page 3-23</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provision

**Step 1** In node view, click the **Provisioning > Alarm Behavior** tabs ([Figure 9-12](#)).

**Figure 9-12 Node View Alarm Profile**

The screenshot shows the Cisco Transport Controller (CTC) interface for a node named 'NODE-D'. The interface includes a menu bar (File, Edit, View, Tools, Help) and a toolbar. The main area displays a node view with a list of cards and their alarm profiles. The cards are numbered 1 through 17. The alarm profiles are listed in a table below the node view.

Location	Eqpt Type	Profile	Suppress ...	Port-Level ...
Backplane	all non-car...	Inherited	<input checked="" type="checkbox"/>	
1	Optical boo...	Inherited	<input type="checkbox"/>	
2	Optical pre...	Inherited	<input type="checkbox"/>	
3	OADM 1 ch...	Inherited	<input type="checkbox"/>	
7	TCC	Inherited	<input type="checkbox"/>	
8	OSCM	Inherited	<input type="checkbox"/>	
11	TCC	Inherited	<input type="checkbox"/>	
15	OADM 4 ch...	Inherited	<input type="checkbox"/>	

At the bottom of the window, there is a 'Node Profile' dropdown menu set to 'Default' and a 'Suppress Alarms' checkbox. There are also 'Apply' and 'Reset' buttons.

- Step 2** To apply profiles to a card:
- Click the Profile row for the card.
  - Choose the new profile from the drop-down menu.
  - Click **Apply**.

- Step 3** To apply the profile to an entire node:
- Click the **Node Profile** menu arrow at the bottom of the window ([Figure 9-12](#)).



- b. Click the new alarm profile in the drop-down menu.
- c. Click **Apply**.

**Tip**

Click **Reset** to return to the previous profile setting unless you have already clicked **Apply**. To return to the previous profile if you have already applied it, select the previous profile and click **Apply** again.

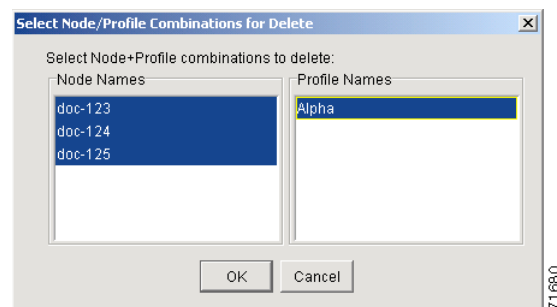
- Step 4** Return to your originating procedure (NTP).

## DLP-D118 Delete Alarm Severity Profiles

<b>Purpose</b>	This task deletes a custom or default alarm severity profile.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">DLP-D60 Log into CTC, page 3-23</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provision

- Step 1** From the View menu choose **Go to Network View**.
- Step 2** Click the **Provisioning > Alarm Profiles** tabs.
- Step 3** Click the column heading for the profile column you want to delete.  
The selected alarm profile name is displayed in the Description field.
- Step 4** Click **Delete**.  
The Select Node/Profile Combination for Delete dialog box appears ([Figure 9-13](#)).

**Figure 9-13 Select Node/Profile Combination For Delete Dialog Box**



- Step 5** Click the node name(s) in the Node Names list to highlight the profile location.

**Tip**

If you hold the Shift key down, you can select consecutive node names. If you hold the Ctrl key down, you can select any combination of nodes.

- Step 6** Click the profile name(s) you want to delete in the Profile Names list.

**Step 7** Click **OK**.

The Delete Alarm Profile confirmation dialog box appears.

**Step 8** Click **Yes** for each Delete Alarm Profile confirmation dialog box.



**Note** If you delete a profile from a node, it is still displayed in the network view Provisioning > Alarm Profiles window unless you remove it by choosing Remove.

**Step 9** To remove the alarm profile from the Provisioning > Alarm Profiles window, right-click the column of the profile you deleted and choose **Remove** from the shortcut menu.



**Note** If a node and profile combination is selected but does not exist, a warning appears: “One or more of the profile(s) selected do not exist on one or more of the node(s) selected.” For example, if node A has only profile 1 and the user tries to delete both profile 1 and profile 2 from node A, this warning appears. However, the operation still removes profile 1 from node A.



**Note** The Default and Inherited special profiles cannot be deleted and do not appear in the Select Node/Profile Combination for Delete Window.

**Step 10** Return to your originating procedure (NTP).

## NTP-D168 Enable, Modify, or Disable Alarm Severity Filtering

<b>Purpose</b>	Use this procedure to start, change, or stop alarm filtering for one or more severities in the Alarms, Conditions, and History windows in all network nodes.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	None
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Retrieve

**Step 1** Complete the “[DLP-D60 Log into CTC](#)” task on page 3-23 at the node where you want to enable alarm severity filtering. If you are already logged in, go to [Step 2](#).

**Step 2** As necessary, complete the “[DLP-D225 Enable Alarm Filtering](#)” task on page 9-27. This task enables alarm filtering at the card, node, and network views for all nodes in the network. Alarm filtering can be enabled for alarms, conditions, or events.

**Step 3** As necessary, complete the “[DLP-D226 Modify Alarm and Condition Filtering Parameters](#)” task on page 9-27 to modify the alarm filtering for network nodes to show or hide particular alarms or conditions.

**Step 4** As necessary, complete the “[DLP-D227 Disable Alarm Filtering](#)” task on page 9-29 to disable alarm profile filtering for all network nodes.

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

---

## DLP-D225 Enable Alarm Filtering

<b>Purpose</b>	Use this task to enable alarm filtering for alarms, conditions, or event history in all network nodes.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">DLP-D60 Log into CTC, page 3-23</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Retrieve

---

**Step 1** At the node, network, or card view, click the **Alarms** tab.

**Step 2** Click the **Filter** tool at the lower-right side of the bottom toolbar.

Alarm filtering is enabled if the tool is selected and disabled if the tool is raised (not selected).

Alarm filtering will be enabled in the card, node, and network views of the Alarms tab at the node and for all other nodes in the network. If, for example, the Alarm Filter tool is enabled in the Alarms tab of the node view at one node, the Alarms tab in the network view and card view of that node will also show the tool enabled. All other nodes in the network will also have the tool enabled.

If you filter an alarm in card view, the alarm will still be displayed in node view. In this view, the card will display the color of the highest-level alarm. The alarm is also shown for the node in the network view.

**Step 3** If you want alarm filtering enabled when you view conditions, repeat Steps 1 and 2 using the Conditions window.

**Step 4** If you want alarm filtering enabled when you view alarm history, repeat Steps 1 and 2 using the History window.

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

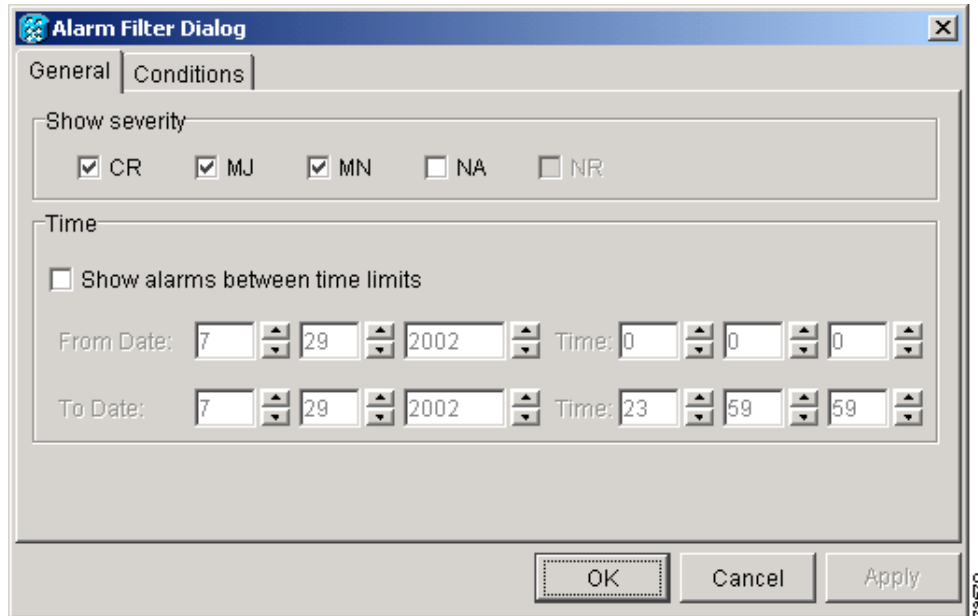
---

## DLP-D226 Modify Alarm and Condition Filtering Parameters

<b>Purpose</b>	Use this task change alarm and condition reporting in all network nodes.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">DLP-D225 Enable Alarm Filtering, page 9-27</a> <a href="#">DLP-D60 Log into CTC, page 3-23</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Retrieve

- Step 1** At the node, network, or card view, click the **Alarms** tab.
- Step 2** Click the **Filter** button at the lower-left of the bottom toolbar.
- The Alarm Filter Dialog box appears, showing the General tab (Figure 9-14).

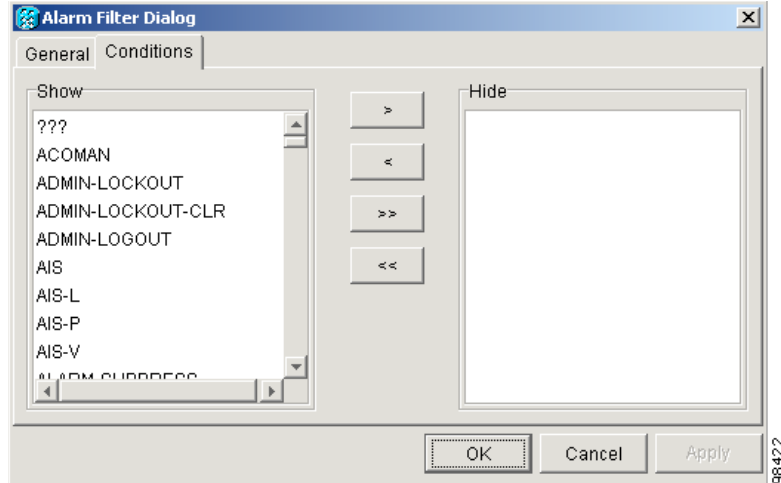
**Figure 9-14 Alarm Filter Dialog Box General Tab**



In the General tab Show Severity box, you can choose which alarm severities will show through the alarm filter and provision a time period during which filtered alarms show through the filter. To change the alarm severities shown in the filter, go to [Step 3](#). To change the time period filter for the alarms go to [Step 4](#).

- Step 3** In the Show Severity area, click the check boxes for the severities [Critical (CR), Major (MJ), Minor (MN), or Not-Alerted (NA)] you want to be reported at the network level. Leave severity check boxes deselected (unchecked) to keep them from appearing.
- When alarm filtering is disabled, all alarms show.
- Step 4** In the Time area, click the **Show alarms between time limits** check box to enable it. Then click the up and down arrows in the From Date, To Date, and Time fields to modify what period of alarms are shown. To modify filter parameters for conditions, go to [Step 5](#). If you do not need to modify them, go to [Step 6](#).
- Step 5** Click the **Conditions** tab (Figure 9-15).

Figure 9-15 Alarm Filter Dialog Box Conditions Tab



When alarm filtering is enabled, conditions in the Show list are visible and conditions in the Hide list are invisible.

- To move conditions individually from the Show list to the Hide list, click the > button.
- To move conditions individually from the Hide list to the Show list, click the < button.
- To move conditions collectively from the Show list to the Hide list, click the >> button.
- To move conditions collectively from the Hide list to the Show list, click the << button.



**Note** Conditions include alarms.

**Step 6** Click **Apply** and **OK**.

Alarm and condition filtering parameters are enforced when alarm filtering is enabled (see the “[DLP-D225 Enable Alarm Filtering](#)” task on page 9-27), and are not enforced when alarm filtering is disabled (see the “[DLP-D227 Disable Alarm Filtering](#)” task on page 9-29).

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

## DLP-D227 Disable Alarm Filtering

<b>Purpose</b>	Use this task to turn off specialized alarm filtering in all network nodes so that all severities are reported in CTC.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">DLP-D225 Enable Alarm Filtering</a> , page 9-27 <a href="#">DLP-D60 Log into CTC</a> , page 3-23
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Retrieve

- 
- Step 1** At the node, network, or card view, click the **Alarms** tab.
- Step 2** Click the **Filter** tool at the lower-right side of the bottom toolbar.  
Alarm filtering is enabled if the tool is indented and disabled if the tool is raised (not selected).
- Step 3** If you want alarm filtering disabled when you view conditions, click the **Conditions** tab and repeat [Step 2](#).
- Step 4** If you want alarm filtering disabled when you view alarm history, click the **History** tab and repeat [Step 2](#).
- Step 5** Return to your originating procedure (NTP).
- 

## NTP-D72 Suppress and Discontinue Alarm Suppression

<b>Purpose</b>	Use this procedure to prevent alarms from being reported for a port, card, or node in circumstances when an alarm or condition is known to exist but you do not want to include it in the display. Also use this procedure to resume normal alarm reporting by discontinuing the suppression.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	None
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning

- 
- Step 1** Complete the [“DLP-D60 Log into CTC” task on page 3-23](#). If you are already logged in, go to [Step 2](#).
- Step 2** Complete the [“DLP-D119 Suppress Alarm Reporting” task on page 9-31](#) to make the node send out autonomous messages that clear particular raised alarms and cause the suppressed alarms to appear in the Conditions window.



**Note** Suppressing one or more alarms prevents them from appearing in Alarm or History windows or in any other clients. The suppress command causes CTC to display them in the Conditions window, where Not-Reported (NR) events are shown. The suppressed alarms appear there with their severity, their severity color code, and service-affecting status.

- Step 3** Complete the [“DLP-D120 Discontinue Alarm Suppression” task on page 9-32](#) to remove the suppress command and resume normal alarm reporting.

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

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## DLP-D119 Suppress Alarm Reporting

<b>Purpose</b>	This task suppresses the reporting of ONS 15454 SDH alarms at the port, card, or node level.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">DLP-D60 Log into CTC, page 3-23</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning



### Caution

If multiple CTC sessions are open, suppressing alarms in one session suppresses the alarms in all other open sessions.

- 
- Step 1** At either the node or card view, click the **Provisioning > Alarm Behavior** tabs.
- Step 2** At the node level, you can suppress alarms on a card basis or for the entire node. At the card level, you can suppress alarms on a port basis.
- To suppress alarms at the node level for the entire node, check the **Suppress Alarms** column check box located at the bottom-left of the window.
  - To suppress alarms at the node level for individual cards, check the **Suppress Alarms** column check box for the slot row where you want to suppress alarms.
- 
- Note** In node view, row numbers correspond to slot numbers.
- Click **Apply** (whether or not you complete the next step).  
The node sends out autonomous messages to clear any raised alarms.
- Step 3** To suppress alarms at the card level for ports:
- Double-click the card.
  - Click the **Provisioning > Alarm Behavior** tabs.
  - Check the **Suppress Alarms** column check box for the port row where you want to suppress alarms.
- Step 4** Click **Apply**.
- Step 5** Return to your originating procedure (NTP).
-

## DLP-D120 Discontinue Alarm Suppression

<b>Purpose</b>	This task discontinues alarm suppression and reenables alarm reporting on a port, card, or node.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">DLP-D119 Suppress Alarm Reporting, page 9-31</a> <a href="#">DLP-D60 Log into CTC, page 3-23</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning

- 
- Step 1** To discontinue alarm suppression for the entire node, uncheck the **Suppress Alarms** check box at the lower-left of the Alarm Behavior window.
- Step 2** To discontinue alarm suppression for individual cards that you suppressed at the node level:
- Uncheck the check box in the Suppress Alarms column for that card.
  - Click **Apply**.
- Step 3** To discontinue alarm suppression for ports that you suppressed at the card level:
- Double-click the card to display the card view.
  - Uncheck the **Suppress Alarms** check box for the port(s) you no longer want to suppress.
  - Click **Apply**.
- Step 4** Return to your originating procedure (NTP).
- 

## NTP-D247 Provision External Alarms and Controls on the Alarm Interface Controller-International

<b>Purpose</b>	Use this procedure to create external (environmental) alarms and external controls for the Alarm Interface Controller (AIC) or Alarm Interface Controller-International card.
<b>Tools/Equipment</b>	An AIC-I card must be installed in Slot 9.
<b>Prerequisite Procedures</b>	<a href="#">NTP-D24 Verify Card Installation, page 4-2</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning or higher



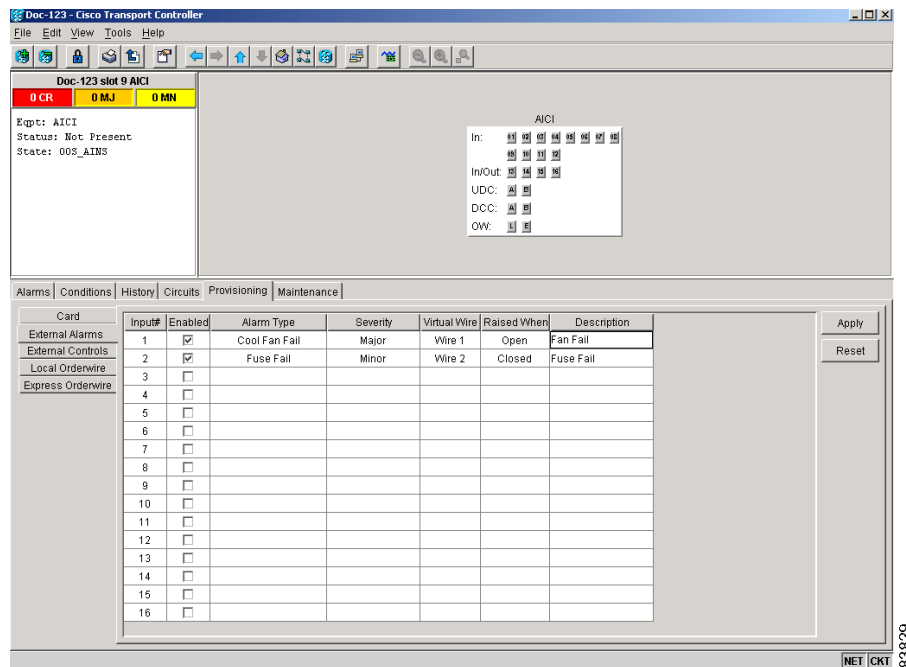
**Note** For information about the AIC-I external alarms and controls, virtual wire, and orderwire, refer to the *Cisco ONS 15454 SDH Reference Manual*.

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- Step 1** Verify the alarm contact wiring. See the “[NTP-D223 Attach Wires to Alarm, Timing, and LAN Connections](#)” procedure on page 1-30 for information about the ONS 15454 SDH contacts.
- For external alarms, verify that the external device relays are wired to the ENVIR ALARMS IN connector pins.
  - For external controls, verify the external device relays are wired to the ENVIR ALARMS OUT connector pins.
- Step 2** In the node view, double-click the AIC-I card shelf graphic. The card view appears.
- Step 3** Click the **Provisioning > Card** tabs.
- Step 4** In the Input/Output area, click one of the following options:
- External Alarm—Select External Alarm if you use external alarms only. Selecting External Alarm gives you 20 external alarm ports.
  - External Control—Select External Control if you use both external alarms and external controls. If you select External Control, four of the ports are converted to external control ports, leaving you with 16 external alarm ports.
- Step 5** Click **Apply**.
- Step 6** If you are provisioning external alarms, click the **External Alarms** tab (Figure 9-16). If you are not provisioning external alarms, skip Steps 7 through 9 and go to Step 10.

**Figure 9-16 Provisioning External Alarms On The AIC-I Card**



- Step 7** Complete the following fields for each external device wired to the ONS 15454 SDH backplane:
- Enabled—Check the check box to activate the fields for the alarm input number.
  - Alarm Type—Choose an alarm type from the drop-down menu.
  - Severity—Click a severity from the drop-down menu.

The severity determines the severity the alarm has in the Alarms and History tabs and determines whether the LEDs are activated. Critical (CR), Major (MJ), and Minor (MN) alarms activate the LEDs. Not-Alerted (NA) and Not-Reported (NR) do not activate LEDs, but do report the information in CTC.

- **Virtual Wire**—Choose the virtual wire number from the drop-down menu to assign the external device to a virtual wire. Otherwise, do not change the None default. For information about the AIC-I virtual wire, see the *Cisco ONS 15454 SDH Reference Manual*.
- **Raised When**—From the drop-down menu, choose the contact condition (open or closed) that triggers the alarm.
- **Description**—A default description is provided; enter a different description if needed.

**Step 8** To provision additional devices, complete [Step 7](#) for each additional device.

**Step 9** Click **Apply**.

**Step 10** If you are provisioning external controls, click the **External Controls** tab and complete the following fields for each external control wired to the ONS 15454 SDH connectors:

- **Enabled**—Check this check box to activate the fields for the alarm input number.
- **Control Type**—Choose the control type from the drop-down menu: air conditioner, engine, fan, generator, heat, light, sprinkler, or miscellaneous.
- **Trigger Type**—Choose a trigger type: a local minor, major, or critical alarm; a remote minor, major, or critical alarm; or a virtual wire activation.
- **Description**—Enter a description.

**Step 11** To provision the other external controls, complete [Step 10](#) for each additional device.

**Step 12** Click **Apply**.



**Note** When you provision an external alarm, the alarm object is ENV-IN-*nn*. The variable *nn* refers to the external alarm's number, regardless of the name you assign.



**Note** Environmental alarms that you create (and name) should be recorded locally for the NE. Both the Alarm name and resolution are node-specific.

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

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