Manage Alarms

This chapter contains the procedures for viewing and managing the alarms and conditions on a Cisco ONS 15454.

Cisco Transport Controller (CTC) detects and reports alarms generated by the Cisco ONS 15454 and the Optical Networking System (ONS) network. You can use CTC to monitor and manage alarms at a card, node, or network level. You can also view alarm counts on the LCD front panel.

Note Unless otherwise specified, "ONS 15454" refers to both ANSI and ETSI shelf assemblies.

Before You Begin

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

1. NTP-G63 Document Existing Provisioning, page 7-2—Complete this procedure as needed to print or export node data.
2. NTP-G64 View Alarms, History, Events, and Conditions, page 7-5—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-G65 Delete Cleared Alarms from Display, page 7-13—Complete this procedure as needed to delete cleared alarm information.
4. NTP-G66 View Alarm-Affected Circuits, page 7-14—Complete this procedure as needed to find circuits that are affected by a particular alarm or condition.
5. NTP-G67 View Alarm Counts on the LCD for a Node, Slot, or Port, page 7-16—Complete this procedure as needed to see a statistical count of alarms that have occurred for a slot or port.
6. NTP-G68 Create, Download, and Assign Alarm Severity Profiles, page 7-17—Complete this procedure as needed to change the default severity for certain alarms, to assign the new severities to a port, card, or node, and to delete alarm profiles.
7. NTP-G69 Enable, Modify, or Disable Alarm Severity Filtering, page 7-29—Complete this procedure as needed to enable, disable, or modify alarm severity filtering in the Conditions, Alarms, or History screens at the node or network level.
8. NTP-G70 Suppress Alarms or Discontinue Alarm Suppression, page 7-33—Complete this procedure as needed to suppress reported alarms at the port, card, or node level and to disable the suppress command to resume normal alarm reporting.

9. NTP-G71 Provision External Alarms and Controls on the Alarm Interface Controller Card, page 7-36—Complete this procedure as needed to provision external alarms and controls on the ONS 15454 ANIS Alarm Interface Controller (AIC) card.
10. NTP-G72 Provision External Alarms and Controls on the Alarm Interface Controller-International, page 7-38—Complete this procedure as needed to provision external alarms and controls on the Alarm Interface Controller-International (AIC-I) card.

NTP-G63 Document Existing Provisioning

Purpose	Use this procedure to document existing provisioning by printing card, node, or network CTC information or exporting card, node, or network information as delineated text files to other applications. This procedure is useful for network record keeping and troubleshooting.
Tools/Equipment	A printer connected to the CTC computer by a direct or network connection
Prerequisite Procedures	Chapter 3, "Turn Up a Node"
Required/As needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Retrieve or higher

Step 1 Complete the "DLP-G46 Log into CTC" task on page 2-25 at the node where you want to print or export data. If you are already logged in, continue with Step 2.

Step 2 As needed, complete the "DLP-G113 Print CTC Data" task on page 7-2.

Step 3 As needed, complete the "DLP-G114 Export CTC Data" task on page 7-4.

Stop. You have completed this procedure.

DLP-G113 Print CTC Data

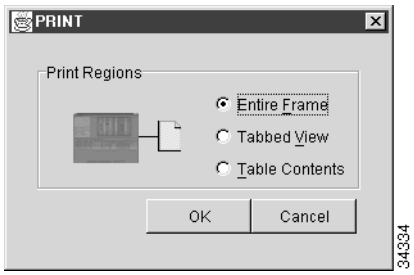
Purpose	This task prints CTC card, node, or network data in graphical or tabular format on a Windows-provisioned printer.
Tools/Equipment	Printer connected to the CTC computer by a direct or network connection
Prerequisite procedures	DLP-G46 Log into CTC, page 2-25
Required/As needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Retrieve or higher

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 From the File menu choose **Print**. The Print dialog box opens (Figure 7-1).

Figure 7-1 Selecting CTC Data For Print



Step 3 In the Print dialog box, click a printing option:

- 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 applies to all windows except:
  - Provisioning > General > General and Power Monitor windows
  - Provisioning > Network > General and RIP windows
  - Provisioning > Security > Policy, Access, and Legal Disclaimer windows
  - Provisioning > SNMP window
  - Provisioning > Timing window
  - Provisioning > UCP > Node window
  - Maintenance > Cross-Connect > Cards window
  - Maintenance > Database window
  - Maintenance > Diagnostic window
  - Maintenance > Protection window
  - Maintenance > Timing > Source 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.

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).

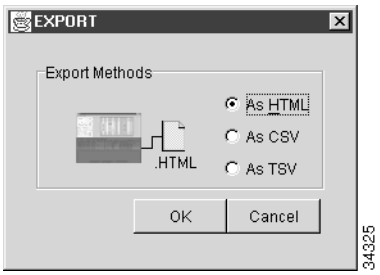
DLP-G114 Export CTC Data

Purpose	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.
Tools/Equipment	None
Prerequisite procedures	DLP-G46 Log into CTC, page 2-25
Required/As needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Retrieve or higher

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. The Export dialog box appears (Figure 7-2).

Figure 7-2 Selecting CTC Data For Export



Step 3 In the Export dialog box, 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). This option does not apply to the Maintenance > Timing > Report window.
- As TSV—Saves the CTC table as tab-separated values (TSV).

Step 4 If you want to open a file in a text editor or word processor application, procedures will vary. Typically you can use the File > Open command to view the CTC data, or you can double-click the file name and choose an application such as Notepad.

Text editor and word processor applications format 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 will vary. Typically you need to open the application and choose File > Import, then choose a delimited file to format 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 applies to all tabular data except:

- Provisioning > General > General and Power Monitor windows
- Provisioning > Network > General and RIP windows
- Provisioning > Security > Policy, Access, and Legal Disclaimer windows
- Provisioning > SNMP window
- Provisioning > Timing window
- Provisioning > UCP > Node window
- Provisioning > WDM-ANS > Provisioning window
- Maintenance > Cross-Connect > Cards window
- Maintenance > Database window
- Maintenance > Diagnostic window
- Maintenance > Protection window
- Maintenance > Timing > Source and Report windows

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-G64 View Alarms, History, Events, and Conditions

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

Step 1 Complete the "DLP-G46 Log into CTC" task on page 2-25.

Step 2 Complete the "DLP-G115 View Alarms" task on page 7-6 as needed.

Step 3 Complete the "DLP-G116 View Alarm or Event History" task on page 7-8 as needed.

Step 4 Complete the "DLP-G117 Change the Maximum Number of Session Entries for Alarm History" task on page 7-10 as needed.

Step 5 Complete the "DLP-G118 Display Alarms and Conditions Using Time Zone" task on page 7-11 as needed.

Step 6 Complete the "DLP-G119 Synchronize Alarms" task on page 7-11 as needed.

Step 7 Complete the "DLP-G120 View Conditions" task on page 7-12 as needed.

Stop. You have completed this procedure.

DLP-G115 View Alarms

Purpose	Use this to view current alarms on a card, node, or network.
Tools/Equipment	None
Prerequisite Procedures	DLP-G46 Log into CTC, page 2-25
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Step 1 In the card, node, or network view, click the **Alarms** tab to view the alarms for that card, node, or network (Figure 7-3).

Figure 7-3 CTC Node View

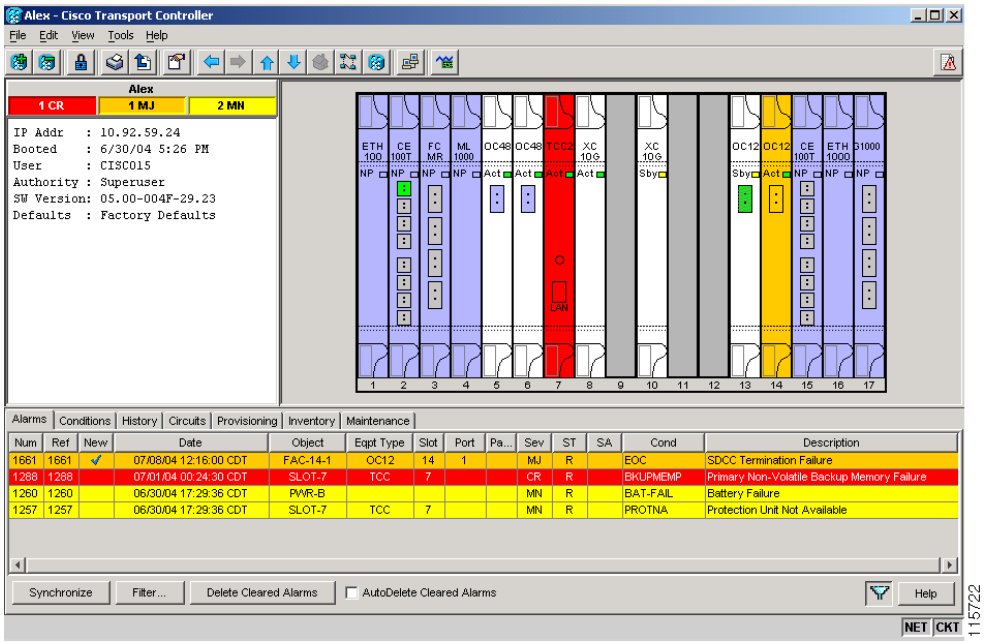


Table 7-1 describes the columns in the Alarms window.

Table 7-1 Alarm Column Descriptions

Column	Information Recorded
Num	Sequence number of the original alarm
Ref	Reference number of the original alarm
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.
Object	TL1 access identifier (AID) for the alarmed object; for an STSmon or VTmon, this is the monitored STS or VT.
Eqpt Type	If an alarm is raised on a card, the card type in this slot.
Slot	If an alarm is raised on a card, the slot where the alarm occurred (appears only in network and node view).
Port	If an alarm is raised on a card, the port where the alarm is raised; for STSTerm and VTTerm, the port refers to the upstream card it is partnered with.
Path Width	Indicates how many STSs are contained in the alarmed path. This information complements the alarm object notation, which is explained in the *Cisco ONS 15454 SONET and DWDM Troubleshooting Guide*.
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 7-1 Alarm Column Descriptions (continued)

Column	Information Recorded
Cond	The error message/alarm name; these names are alphabetically defined in the *Cisco ONS 15454 SONET and DWDM Troubleshooting Guide.*
Description	Description of the alarm.

Table 7-2 lists the color codes for alarm and condition severities.

Table 7-2 Color Codes for Alarms and Condition Severities

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

Step 2 If alarms are present, refer to the *Cisco ONS 15454 SONET and DWDM Troubleshooting Guide* for information and troubleshooting procedures.

Step 3 Return to your originating procedure (NTP).

DLP-G116 View Alarm or Event History

Purpose	This task is used to view past cleared and uncleared ONS 15454 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.
Tools/Equipment	None
Prerequisite Procedures	DLP-G46 Log into CTC, page 2-25
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Retrieve or higher

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. In node view, click the **History > Session** tabs to view the alarms and conditions (events) raised during the current session.

b. Click the **History > Node** tabs.

If you check the **Alarms** check box, the node's alarm history appears. If you check the **Events** check box, the node's Not Alarmed and transient event history appears. If you check both check boxes, you will retrieve node history for alarms and events.

c. Click **Retrieve** to view all available messages for the History > Node tabs.

Note Alarms can be unreported when they are filtered out of the display using the Filter button in either tab. See the "DLP-G126 Enable Alarm Filtering" task on page 7-29 for information.

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. From the View menu choose **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 node view:

a. From the View menu choose **Go to Previous View**.

b. Double-click a card on the shelf graphic to open the card-level view.

Note TCC2 cards do not have a card view.

c. Click the **History > Session** tab to view the alarm messages raised during the current session.

d. Click the **History > Card** tab to retrieve all available alarm messages for the card and click **Retrieve**.

If you check the **Alarms** check box, the node's alarm history appears. If you check the **Events** check box, the node's Not Alarmed and transient event history appears. If you check both check boxes, you will retrieve node history for alarms and events.

Note The ONS 15454 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 discards the oldest events in that category.

Raised and cleared alarm messages (and events, if selected) appear.

Step 5 Return to your originating procedure (NTP).

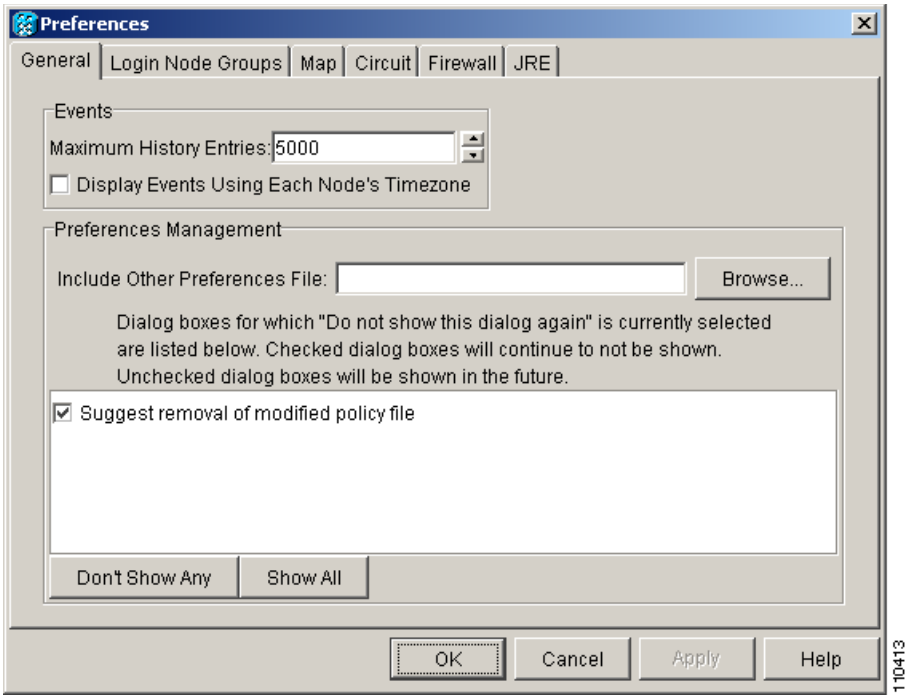
DLP-G117 Change the Maximum Number of Session Entries for Alarm History

Purpose	This task changes the maximum number of session entries included in the alarm history. Use this task to expand the history list to save information for future reference or troubleshooting.
Tools/Equipment	None
Prerequisite Procedures	DLP-G46 Log into CTC, page 2-25
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Step 1 From the Edit menu, choose **Preferences**.

The CTC Preferences dialog box appears (Figure 7-4).

Figure 7-4 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-G118 Display Alarms and Conditions Using Time Zone

Purpose	This task changes 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.
Tools/Equipment	None
Prerequisite Procedures	DLP-G46 Log into CTC, page 2-25
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Step 1 From the Edit menu, choose **Preferences**.

The CTC Preferences dialog box appears (Figure 7-4 on page 7-10).

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).

DLP-G119 Synchronize Alarms

Purpose	This task is used to view ONS 15454 events at the card, node, or network level and to refresh the alarm listing so that you can check for new and cleared alarms and conditions.
Tools/Equipment	None
Prerequisite Procedures	DLP-G46 Log into CTC, page 2-25
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Retrieve

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.

Step 3 Return to your originating procedure (NTP).

DLP-G120 View Conditions

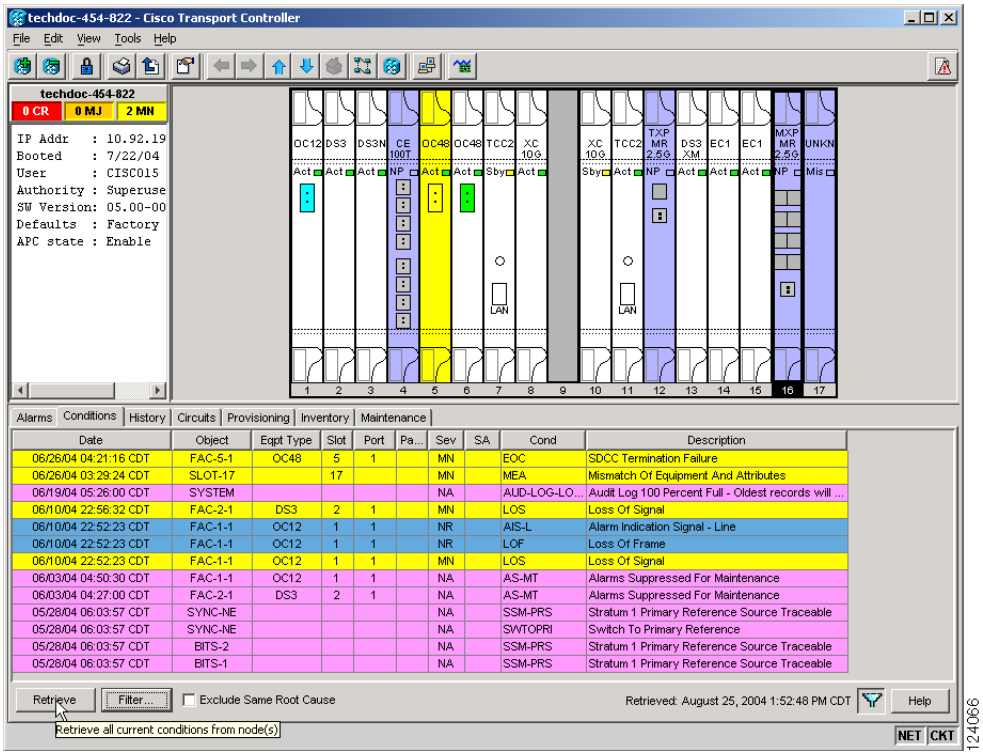
Purpose	This task is used to view conditions (events with a Not Reported [NR] severity) at the card, node, or network level. Conditions give you a clear record of changes or events that do not result in alarms.
Tools/Equipment	None
Prerequisite Procedures	DLP-G46 Log into CTC, page 2-25
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Retrieve or higher

Step 1 From the card, node, or network view, click the **Conditions** tab.

Step 2 Click **Retrieve** (Figure 7-5).

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 7-5 Node View Conditions Window



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-G126 Enable Alarm Filtering" task on page 7-29 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-G129 Suppress Alarm Reporting" task on page 7-33.

Current conditions are shown with the severity chosen in the alarm profile, if used. For more information about alarm profiles, see the "NTP-G68 Create, Download, and Assign Alarm Severity Profiles" procedure on page 7-17.

Note When a port is placed in the Out-of-Service and Management, Maintenance (OOS-MA,MT) (ANSI) or Locked-enabled, maintenance (ETSI) service state, it raises an Alarms Suppressed for Maintenance (AS-MT) condition. For information about alarm and condition troubleshooting, refer to the *Cisco ONS 15454 SONET and DWDM 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 check box, only the LOS alarm will appear. According to Telcordia, exclusion rules apply to a query of "all conditions from a node."

Step 4 Return to your originating procedure (NTP).

NTP-G65 Delete Cleared Alarms from Display

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

Step 1 Complete the "DLP-G46 Log into CTC" task on page 2-25. If you are already logged in, continue with Step 2.

Step 2 To delete cleared node-level alarms:

a. In the node view, click the **Alarms** tab.

b. Click **Delete Cleared Alarms**.

- 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.

This action removes any cleared ONS 15454 alarms from the Alarms tab. The rows of cleared alarms turn white and have a C in their status (ST) column.

Step 3 To delete cleared card-level alarms:

a. In node view, double-click the card graphic for the card you want to open.

b. Click the **Alarms** tab and then click **Delete Cleared Alarms**, referring to the note in Step 2.

Step 4 To delete cleared network-level alarms:

a. In node view, click **View > Go to Network View**.

b. Click the **Alarms** tab and then click **Delete Cleared Alarms**, referring to the note in Step 2.

Step 5 To remove the transient messages from the History window, click **Delete Cleared Alarms**. Transient messages are single messages, not raise-and-clear pairs (that is, they do not have companion messages stating they are cleared).

Stop. You have completed this procedure.

NTP-G66 View Alarm-Affected Circuits

Purpose	Use this procedure to view all Optical Channel Network Connections (OCHNCs) and ONS 15454 circuits, if any, that are affected by an alarm or condition.
Tools/Equipment	None
Prerequisite Procedures	NTP-G64 View Alarms, History, Events, and Conditions, page 7-5
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Retrieve or higher

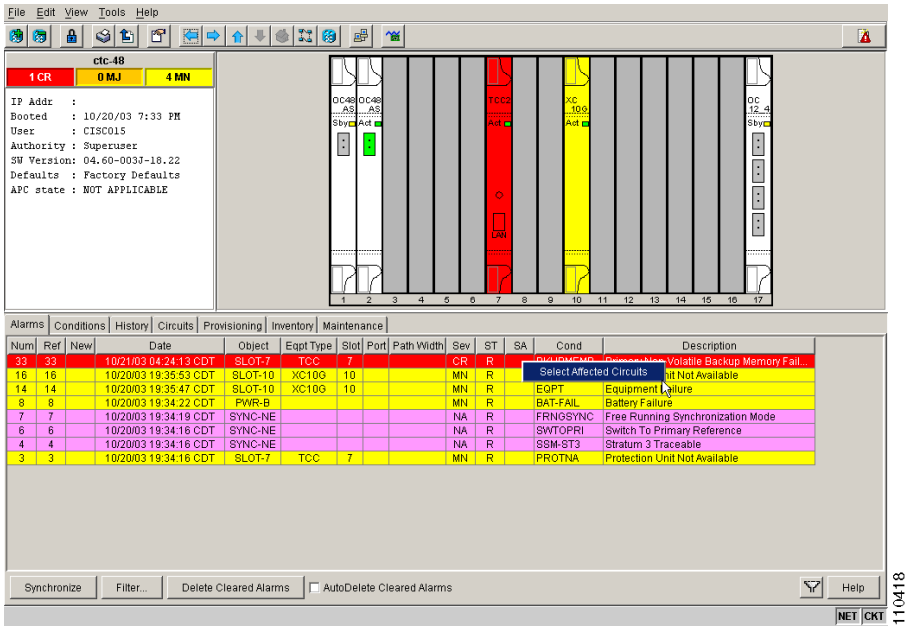
Step 1 Complete the "DLP-G46 Log into CTC" task on page 2-25. If you are already logged in, continue with Step 2.

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.

The Select Affected Circuit option appears on the shortcut menu (Figure 7-6).

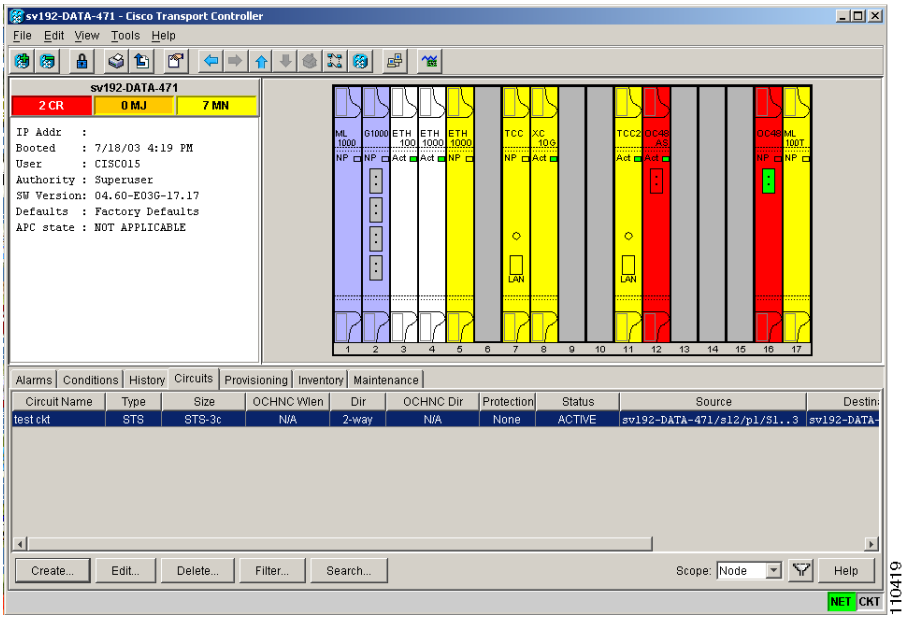
Figure 7-6 Select Affected Circuits Option



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

The **Circuits** window appears with the affected Optical Channel Network Connection (OCHNC) highlighted (Figure 7-7).

Figure 7-7 Viewing Alarm-Affected Circuits



Stop. You have completed this procedure.

NTP-G67 View Alarm Counts on the LCD for a Node, Slot, or Port

Purpose	Use this procedure to view an alarm summary for a node, slot, or port without using CTC.
Tools/Equipment	None
Prerequisite Procedures	None
Required/As Needed	As needed
Onsite/Remote	Onsite
Security Level	None

Step 1 If you want to view the entire alarm summary for the node, press either the **Slot** button or **Port** button on the LCD panel until "Node" appears on the LCD. You will also see the direction, "Status=Alm Ct." This means that if you press the Status button at this time, as directed in Step 2, you will see an alarm count for the node.

Step 2 Press the **Status** button to see a summary of alarms and severities for the node. You will see a message similar to "Alm CT: 2: MJ:2 MN:2," meaning that there are two critical alarms, two major alarms, and two minor alarms.

Step 3 If you want to see alarm counts for a particular slot, such as the alarms for an OC-3 card in Slot 2, press the **Slot** button until you see "Slot-3" on the LCD. You will see the direction, "Status=Alm Ct."

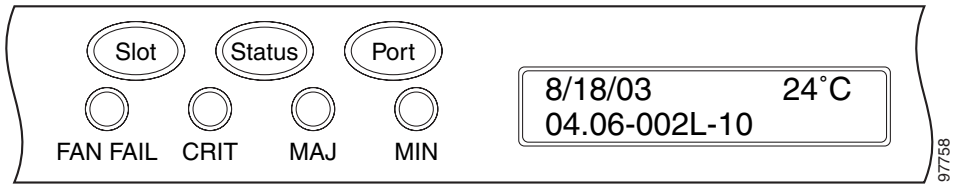
Step 4 Press the **Status** button to see a summary of alarms and severities against the slot. For example, you might see "Slot-3 Alm CT:0 MJ:1 MN:2." This means that there are no critical alarms, one major alarm, and two minor alarms against the slot.

Step 5 If you want to view the alarms against a port on the card, such as Port 3 of the OC-3 card you viewed previously, press the **Port** button until you see "Port-3 Status=Alm Ct."

Step 6 Press **Status** to view alarm count against the port. You will see a message similar to "Port-3 Alm CT:0 MJ:1 MN:0." This means that there is one major alarm against this port.

Figure 7-8 shows the shelf LCD panel.

Figure 7-8 Shelf LCD Panel



To return to the previous view from the Port screen, continue to press **Port** until the display cycles through all the ports on the slot.

To return to the node menu from the Slot screen, press **Slot** until you cycle through all the slots and see "Node."

If you do not press any buttons, the LCD will return to its default display with the node name. However, if you did not cycle through the options to return to the node status, you will see the slot or port where you last checked status.

Note A blank LCD results when the fuse on the alarm interface panel (AIP) board has 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-G68 Create, Download, and Assign Alarm Severity Profiles

Purpose	Use this procedure to create a customized alarm profile at the network, node, or card level. This procedure also provides links to tasks that describe how to assign custom severities individually to each port, card, or node, and to delete alarm profiles.
Tools/Equipment	None
Prerequisite Procedures	None
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Step 1 Complete the "DLP-G46 Log into CTC" task on page 2-25 at the node where you want to create an alarm profile. If you are already logged in, continue with Step 2 to create, clone or modify an alarm profile, or go to Step 3 to download an alarm profile.

Step 2 Complete the "DLP-G121 Create a New or Cloned Alarm Severity Profile" task on page 7-18. This task clones a current alarm profile, renames the profile, and customizes the new profile.

Step 3 Complete the "DLP-G122 Download an Alarm Severity Profile" task on page 7-22. This task downloads an alarm severity profile from a CD or a node.

Note After storing a created or downloaded alarm profile, you must go to the node (either by logging into it or clicking on it from the network view) and activate the profile by applying it to the shelf, one or more cards, or one or more ports.

Step 4 As necessary, complete the "DLP-G123 Apply Alarm Profiles to Ports" task on page 7-23 or the "DLP-G124 Apply Alarm Profiles to Cards and Nodes" task on page 7-26.

Step 5 As necessary, complete the "DLP-G125 Delete Alarm Severity Profiles" task on page 7-27.

Stop. You have completed this procedure.

DLP-G121 Create a New or Cloned Alarm Severity Profile

Purpose	This task creates a custom severity profile or clones and modifies the default severity profile.
Tools/Equipment	None
Prerequisite Procedures	DLP-G46 Log into CTC, page 2-25
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Step 1 To access the alarm profile editor from network view, click the **Provisioning > Alarm Profiles** tabs.

Step 2 To access the profile editor from node view, click the **Provisioning > Alarm Profiles > Alarm Profile Editor** tabs.

Step 3 To access the profile editor from a card view, click the following tabs:

- If the card is an MXP, MXPP, TXP, TXPP, or WSS card, click the **Provisioning > Alarm Profiles > Alarm Profile Editor** tabs.
- If the card is an OSC-CSM card, click the **Provisioning > OC3 Line > Alarm Profiles > Alarm Profile Editor** tabs or **Provisioning > Optical Line > Alarm Profiles > Alarm Profile Editor** tabs.
- If the card is a 32MUX-O or 32DMX-O card, click the **Provisioning > Optical Line > Alarm Profiles > Alarm Profile Editor** tabs or the **Provisioning > Optical Chn > Alarm Profiles > Alarm Profile Editor** tabs.

- If the card is a 4MD card, click the **Provisioning > Optical Chn > Alarm Profiles > Alarm Profile Editor** tabs or the **Provisioning > Optical Band > Alarm Profiles > Alarm Profile Editor** tabs.
- If the card is an OPT-PRE or OPT-BST card, click the **Provisioning > Optical Line > Alarm Profiles > Alarm Profile Editor** tabs or the **Provisioning > Opt. Ampli. Line > Alarm Profiles > Alarm Profile Editor** tabs.
- If the card is an AD-1C, AD-2C, or AD-4C card, click the **Provisioning > Optical Line > Alarm Profiles > Alarm Profile Editor** tabs or the **Provisioning > Optical Chn > Alarm Profiles > Alarm Profile Editor** tabs.
- If the card is an AD-1B or AD-4B card, click the **Provisioning > Optical Line > Alarm Profiles > Alarm Profile Editor** tabs or the **Provisioning > Optical Band > Alarm Profiles > Alarm Profile Editor** tabs.

Step 4 If you want to create a new profile based on the default profile in use, click **New**. Continue with Step 10.

Step 5 If you want to create a profile using an existing profile located on the node, click **Load** and **From Node** in the Load Profiles dialog box.

a. Click the node name you are logged into in the Node Names list.

b. Click the name of an existing profile in the Profile Names list, such as **Default**. Continue with Step 7.

Step 6 If you want to create a profile using an existing profile located in a file that is stored locally or on a network drive, click **From File** in the Load Profiles dialog box.

a. Click **Browse**.

b. Navigate to the file location in the **Open** dialog box.

c. Click **Open**.

Note The Default alarm profile list contains alarm and condition severities that correspond when applicable to default values established in Telcordia GR-253-CORE.

Note All default or user-defined severity settings that are Critical (CR) or Major (MJ) are demoted to Minor (MN) in Non-Service-Affecting (NSA) situations as defined in Telcordia GR-474.

Step 7 Click **OK**.

The alarm severity profile appears in the Alarm Profiles window.

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

Step 8 Right-click anywhere in the profile column to view the profile editing shortcut menu. (Refer to Step 11 for further information about the Default profile.)

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

Tip To see the full list of profiles, including those available for loading or cloning, click Available. You must load a profile before you can clone it.

Step 10 In the New Profile or Clone Profile dialog box, enter a name 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 at the right of the previous profile column in the Alarm Profiles window. You can select it and drag it to a different position.

Note Up to 10 profiles, including the two reserved profiles, Inherited and Default, can be stored in CTC.

The Default profile sets severities to standard Telcordia GR-253-CORE settings. If an alarm has an Inherited profile, it inherits (copies) its severity from the same alarm's severity at the higher level. For example, if you choose the Inherited profile from the network view, the severities at the lower levels (node, card, and port) will be copied from this selection. A card with an Inherited alarm profile copies the severities used by the node that contains the card. (If you are creating profiles, you can apply these separately at any level. To do this, refer to the "DLP-G124 Apply Alarm Profiles to Cards and Nodes" task on page 7-26.)

Step 12 Modify (customize) the new alarm profile:

a. In the new alarm profile column, click the alarm severity you want to change in the custom profile.

b. Choose a severity from the drop-down list.

c. Repeat Steps a and b for each severity you want to customize. Refer to the following guidelines when you view the alarms or conditions after making modifications:

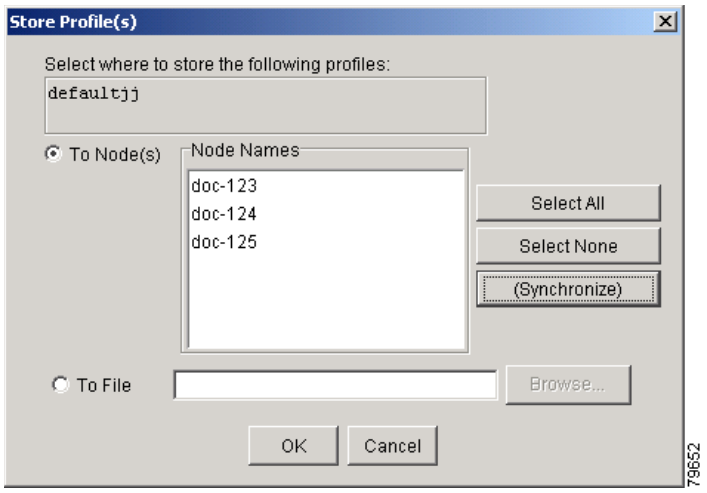
- All Critical (CR) or Major (MJ) default or user-defined severity settings are demoted to Minor (MN) in Non-Service-Affecting (NSA) situations as defined in Telcordia GR-474.
- Default severities are used for all alarms and conditions until you create and apply a new profile.
- Changing a severity to inherited (I) or unset (U) does not change the severity of the alarm.

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

Step 14 Click **Store**.

Step 15 In the Store Profiles dialog box, click **To Node(s)** and go to Step a or click **To File** and go to Step b (Figure 7-9).

Figure 7-9 Store Profiles Dialog Box



a. Choose the node 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. Save the profile:
   - Click **Browse** and navigate to the profile save location.
   - 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 to stored files.

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

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

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

   Note Click the **Only show service-affecting severities** check box to configure the Alarm Profiles window not to display Minor and some Major alarms that will not affect service.

Step 16 Return to your originating procedure (NTP).

DLP-G122 Download an Alarm Severity Profile

Purpose	This task downloads a custom alarm severity profile from a network-drive accessible CD-ROM, floppy disk, or hard disk location.
Tools/Equipment	None
Prerequisite Procedures	DLP-G46 Log into CTC, page 2-25
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Step 1 To access the alarm profile editor from network view, click the **Provisioning > Alarm Profiles** tabs.

Step 2 To access the profile editor from node view, click the **Provisioning > Alarm Profiles > Alarm Profile Editor** tabs.

Step 3 To access the profile editor from a card view, click the following tabs:

- If the card is an MXP, MXPP, TXP, TXPP, or WSS card, click the **Provisioning > Alarm Profiles > Alarm Profile Editor** tabs.
- If the card is an OSC-CSM card, click the **Provisioning > OC3 Line > Alarm Profiles > Alarm Profile Editor** tabs or the **Provisioning > Optical Line > Alarm Profiles > Alarm Profile Editor** tabs.
- If the card is a 32MUX-O or 32DMX-O card, click the **Provisioning > Optical Line > Alarm Profiles > Alarm Profile Editor** tabs or the **Provisioning > Optical Chn > Alarm Profiles > Alarm Profile Editor** tabs.
- If the card is a 4MD card, click the **Provisioning > Optical Chn > Alarm Profiles > Alarm Profile Editor** tabs or the **Provisioning > Optical Band > Alarm Profiles > Alarm Profile Editor** tabs.
- If the card is an OPT-PRE or OPT-BST card, click the **Provisioning > Optical Line > Alarm Profiles > Alarm Profile Editor** tabs or the **Provisioning > Opt. Ampli. Line > Alarm Profiles > Alarm Profile Editor** tabs.
- If the card is an AD-1C, AD-2C, or AD-4C card, click the **Provisioning > Optical Line > Alarm Profiles > Alarm Profile Editor** tabs or the **Provisioning > Optical Chn > Alarm Profiles > Alarm Profile Editor** tabs.
- If the card is an AD-1B or AD-4B card, click the **Provisioning > Optical Line > Alarm Profiles > Alarm Profile Editor** tabs or the **Provisioning > Optical Band > Alarm Profiles > Alarm Profile Editor** tabs.

Step 4 Click **Load**.

Step 5 If you want to download a profile that exists on the node, click **From Node** in the Load Profiles dialog box.

a. Click the node name you are logged into in the Node Names list.

b. Click the name of the profile in the Profile Names list, such as **Default**.

Step 6 If you want to download a profile that is stored locally or on a network drive, click **From File** in the Load Profile dialog box.

a. Click **Browse**.

b. Navigate to the file location in the **Open** dialog box.

c. Click **Open**.

Note The Default alarm profile list contains alarm and condition severities that correspond when applicable to default values established in Telcordia GR-253-CORE.

Note All default or user-defined severity settings that are Critical (CR) or Major (MJ) are demoted to Minor (MN) in Non-Service-Affecting (NSA) situations as defined in Telcordia GR-474.

Step 7 Click **OK**.

The downloaded profile appears at the right side of the Alarm Profiles window.

Step 8 Right-click anywhere in the downloaded profile column to view the profile editing shortcut menu.

Step 9 Click **Store**.

Step 10 In the Store Profiles dialog box, click **To Node(s)**.

a. Choose the nodes 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. Click **OK**.

Step 11 Return to your originating procedure (NTP).

DLP-G123 Apply Alarm Profiles to Ports

Purpose	This task applies a custom or default alarm severity profile to a port or ports.
Tools/Equipment	None
Prerequisite Procedures	DLP-G121 Create a New or Cloned Alarm Severity Profile, page 7-18 DLP-G46 Log into CTC, page 2-25
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

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

Note You can also apply alarm profiles to cards using the "DLP-G124 Apply Alarm Profiles to Cards and Nodes" task on page 7-26.

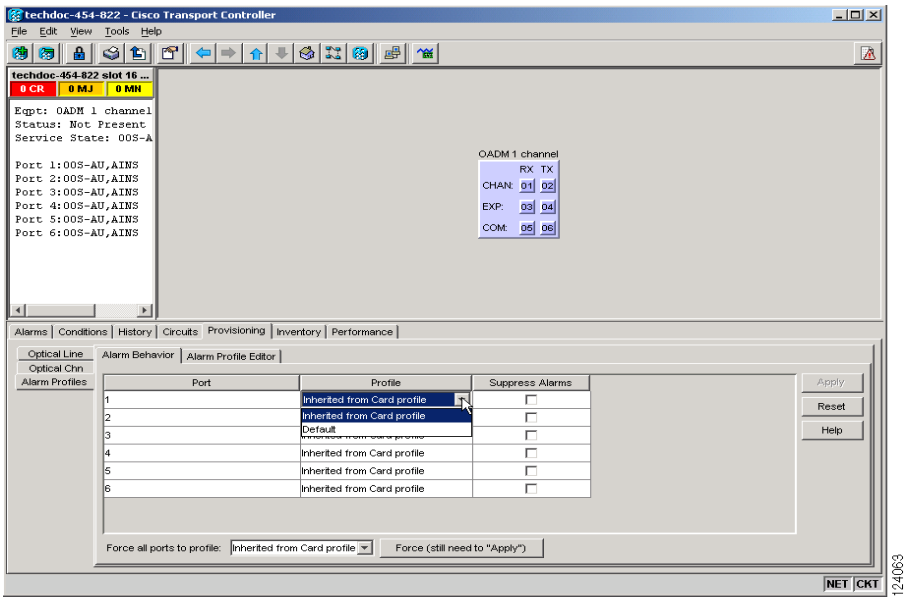
Note The card view is not available for the TCC2 card.

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

- If the card is an MXP, MXPP, TXP, TXPP, or WSS card, click the **Provisioning > Alarm Profiles > Alarm Profile Editor** tabs.
- If the card is an OSC-CSM card, click the **Provisioning > OC3 Line > Alarm Profiles > Alarm Profiles** tabs or the **Provisioning > Optical Line > Alarm Profiles > Alarm Profiles** tabs.
- If the card is a 32MUX-O or 32DMX-O card, click the **Provisioning > Optical Line > Alarm Profiles > Alarm Profiles** tabs or the **Provisioning > Optical Chn > Alarm Profiles > Alarm Profiles** tabs.
- If the card is a 4MD card, click the **Provisioning > Optical Chn > Alarm Profiles > Alarm Profiles** tabs or the **Provisioning > Optical Band > Alarm Profiles > Alarm Profiles** tabs.
- If the card is an OPT-PRE or OPT-BST card, click the **Provisioning > Optical Line > Alarm Profiles > Alarm Profiles** tabs or the **Provisioning > Opt. Ampli. Line > Alarm Profiles > Alarm Profiles** tabs.
- If the card is an AD-1C, AD-2C, or AD-4C card, click the **Provisioning > Optical Line > Alarm Profiles > Alarm Profiles** tabs or the **Provisioning > Optical Chn > Alarm Profiles > Alarm Profiles** tabs.
- If the card is an AD-1B or AD-4B card, click the **Provisioning > Optical Line > Alarm Profiles > Alarm Profiles** tabs or the **Provisioning > Optical Band > Alarm Profiles > Alarm Profiles** tabs.

Figure 7-10 shows the alarm profile of Ethernet card ports. CTC shows Parent Card Profile: Inherited.

Figure 7-10 AD-1C Card Alarm Profile



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:

a. In card view, click the port row in the Profile column.

b. Choose the new profile from the drop-down list.

c. Click **Apply**.

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

a. In card view, click the **Force all ports to profile** drop-down arrow at the bottom of the window.

b. Choose the new profile from the drop-down list.

c. Click **Force (still need to "Apply")**.

d. Click **Apply**.

In node view the Port Level Profiles column indicates port-level profiles with a notation such as "exist (1)" (Figure 7-11 on page 7-26).

Step 5 To reapply a previous alarm profile after you have applied a new one, select the previous profile and click **Apply** again.

Step 6 Return to your originating procedure (NTP).

DLP-G124 Apply Alarm Profiles to Cards and Nodes

Purpose	This task applies a custom or default alarm profile to cards or nodes.
Tools/Equipment	None
Prerequisite Procedures	DLP-G121 Create a New or Cloned Alarm Severity Profile, page 7-18 DLP-G46 Log into CTC, page 2-25
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Step 1 In node view, click the **Provisioning > Alarm Profiles > Alarm Behavior** tab (Figure 7-11).

Figure 7-11 Node View Alarm Profile

Step 2 To apply profiles to a card:

a. Click a selection from the Profile column for the card.

b. Choose the new profile from the drop-down list.

c. Click **Apply**.

Step 3 To apply the profile to an entire node:

a. Click the **Node Profile** drop-down arrow at the bottom of the window (Figure 7-11).

b. Choose the new alarm profile from the drop-down list.

c. Click **Apply**.

Step 4 To reapply a previous alarm profile after you have applied a new one, select the previous profile and click **Apply** again.

Step 5 Return to your originating procedure (NTP).

DLP-G125 Delete Alarm Severity Profiles

Purpose	This task deletes a custom or default alarm severity profile.
Tools/Equipment	None
Prerequisite Procedures	DLP-G46 Log into CTC, page 2-25
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Step 1 To access the alarm profile editor from network view, click the **Provisioning > Alarm Profiles** tabs.

Step 2 To access the profile editor from node view, click the **Provisioning > Alarm Profiles > Alarm Profile Editor** tabs.

Step 3 To access the profile editor from a card view, click the following tabs:

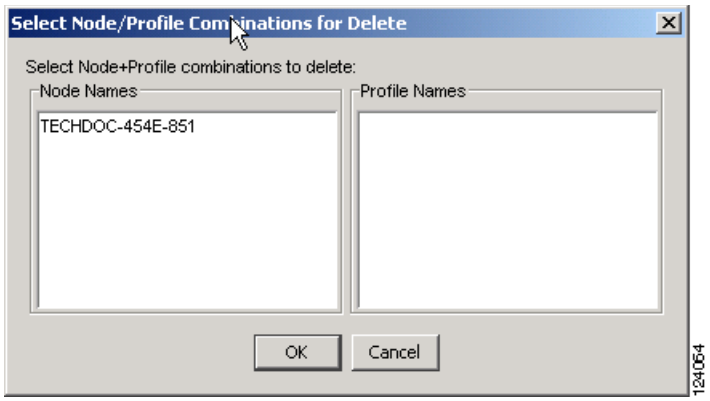
- If the card is an MXP, MXPP, TXP, TXPP, or WSS card, click the **Provisioning > Alarm Profiles > Alarm Profile Editor** tabs.
- If the card is an OSC-CSM card, click the **Provisioning > OC3 Line > Alarm Profiles > Alarm Profile Editor** tabs or **Provisioning > Optical Line > Alarm Profiles > Alarm Profile Editor** tabs.
- If the card is a 32MUX-O or 32DMX-O card, click the **Provisioning > Optical Line > Alarm Profiles >Alarm Profile Editor** tabs or the **Provisioning > Optical Chn > Alarm Profiles > Alarm Profile Editor** tabs.
- If the card is a 4MD card, click the **Provisioning > Optical Chn > Alarm Profiles > Alarm Profile Editor** tabs or the **Provisioning > Optical Band > Alarm Profiles > Alarm Profile Editor** tabs.
- If the card is an OPT-PRE or OPT-BST card, click the **Provisioning > Optical Line > Alarm Profiles > Alarm Profile Editor** tabs or the **Provisioning > Opt. Ampli. Line > Alarm Profiles > Alarm Profile Editor** tabs.
- If the card is an AD-1C, AD-2C, or AD-4C card, click the **Provisioning > Optical Line > Alarm Profiles > Alarm Profile Editor** tabs or the **Provisioning > Optical Chn > Alarm Profiles > Alarm Profile Editor** tabs.
- If the card is an AD-1B or AD-4B card, click the **Provisioning > Optical Line > Alarm Profiles > Alarm Profile Editor** tabs or the **Provisioning > Optical Band > Alarm Profiles > Alarm Profile Editor** tabs.

Step 4 Click the profile you are deleting to select it.

Step 5 Click **Delete**.

The Select Node/Profile Combination for Delete dialog box appears (Figure 7-12).

Figure 7-12 Select Node/Profile Combination For Delete Dialog Box



Note You cannot delete the Inherited or Default alarm profiles.

Note A previously created alarm profile cannot be deleted unless it has been stored on the node. If the profile is visible on the Alarm Profiles tab but is not listed in the Select Node/Profile Combinations to Delete dialog box, continue with Step 10.

Step 6 Click the node names 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 7 Click the profile names you want to delete in the Profile Names list.

Step 8 Click **OK**.

Step 9 Click **Yes** in the Delete Alarm Profile dialog box.

Note If you delete a profile from a node, it still appears in the network view Provisioning > Alarm Profile Editor window unless you remove it using the following step.

Step 10 To remove the alarm profile from the 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 profiles selected do not exist on one or more of the node(s) selected." For example, if node A has only profile 1 stored 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 11 Return to your originating procedure (NTP).

NTP-G69 Enable, Modify, or Disable Alarm Severity Filtering

Purpose	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.
Tools/Equipment	None
Prerequisite Procedures	None
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Retrieve or higher

Step 1 Complete the "DLP-G46 Log into CTC" task on page 2-25 at the node where you want to enable alarm severity filtering. If you are already logged in, continue with Step 2.

Step 2 As needed, complete the "DLP-G126 Enable Alarm Filtering" task on page 7-29. 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 needed, complete the "DLP-G127 Modify Alarm, Condition, and History Filtering Parameters" task on page 7-30 to modify the alarm filtering for network nodes to show or hide particular alarms or conditions.

Step 4 As needed, complete the "DLP-G128 Disable Alarm Filtering" task on page 7-32 to disable alarm profile filtering for all network nodes.

Stop. You have completed this procedure.

DLP-G126 Enable Alarm Filtering

Purpose	This task enables alarm filtering for alarms, conditions, or event history in all network nodes.
Tools/Equipment	None
Prerequisite Procedures	DLP-G46 Log into CTC, page 2-25
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Retrieve or higher

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

Step 2 Click the **Filter** tool on the left 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-G127 Modify Alarm, Condition, and History Filtering Parameters

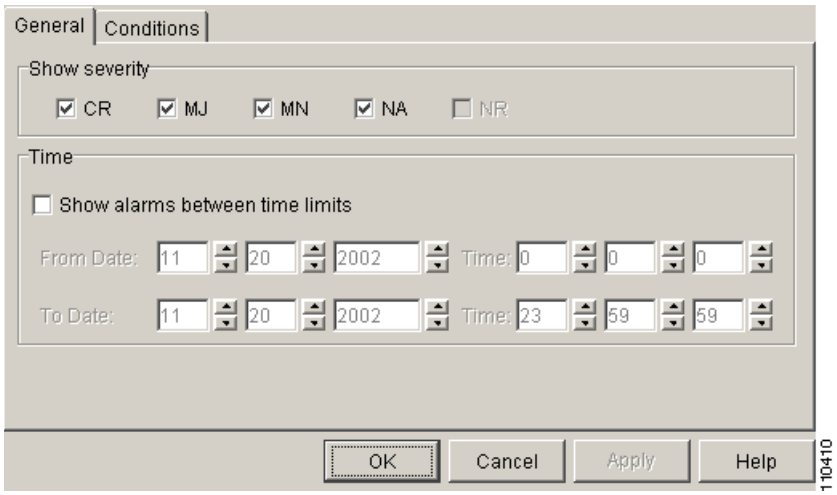
Purpose	This task changes alarm and condition reporting in all network nodes.
Tools/Equipment	None
Prerequisite Procedures	DLP-G126 Enable Alarm Filtering, page 7-29 DLP-G46 Log into CTC, page 2-25
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Retrieve or higher

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

Step 2 Click the **Filter** button on the left side of the bottom toolbar.

The filter dialog box appears, displaying the General tab. Figure 7-13 shows the Alarm Filter dialog box; the Conditions and History tabs have similar dialog boxes.

Figure 7-13 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-Alarmed (NA)] you want to be reported at the network level. Leave severity check boxes deselected (unchecked) to prevent those severities from appearing.

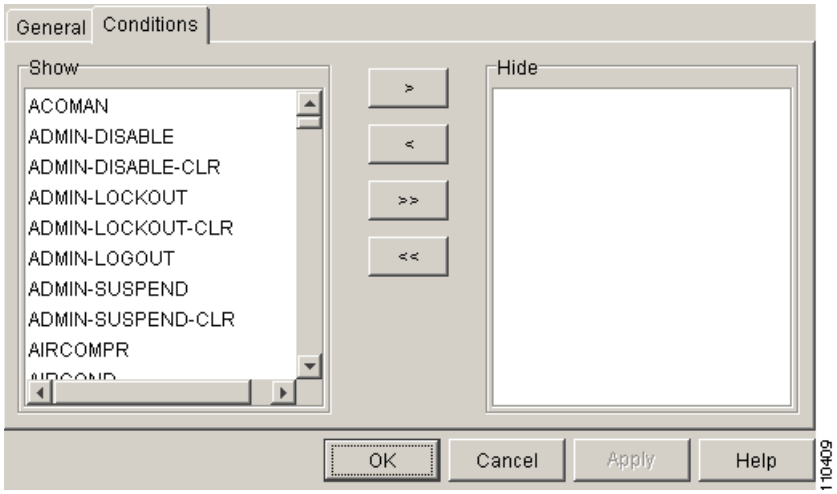
When alarm filtering is disabled, all alarms show.

Step 4 In the Time area, click the **Show alarms between time limits** check box to enable it. 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, continue with Step 5. If you do not need to modify them, continue with Step 6.

Step 5 Click the filter dialog box **Conditions** tab (Figure 7-14).

Figure 7-14 Alarm Filter Dialog Box Conditions Tab



When 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-G126 Enable Alarm Filtering" task on page 7-29), and are not enforced when alarm filtering is disabled (see the "DLP-G128 Disable Alarm Filtering" task on page 7-32).

Step 7 Return to your originating procedure (NTP).

DLP-G128 Disable Alarm Filtering

Purpose	This task turns off specialized alarm filtering in all network nodes so that all severities are reported in CTC.
Tools/Equipment	None
Prerequisite Procedures	DLP-G126 Enable Alarm Filtering, page 7-29 DLP-G46 Log into CTC, page 2-25
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Retrieve or higher

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

Step 2 Click the **Filter** tool on the 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 click the Filter tool.

Step 4 If you want alarm filtering disabled when you view alarm history, click the **History** tab and click the Filter tool.

Step 5 Return to your originating procedure (NTP).

NTP-G70 Suppress Alarms or Discontinue Alarm Suppression

Purpose	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. This procedure also provides a link to a task that explains how to resume normal alarm reporting by discontinuing the suppression.
Tools/Equipment	None
Prerequisite Procedures	None
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Step 1 Complete the "DLP-G46 Log into CTC" task on page 2-25. If you are already logged in, continue with Step 2.

Step 2 Complete the "DLP-G129 Suppress Alarm Reporting" task on page 7-33 to enable the node to send autonomous messages that clear specific raised alarms and cause 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 with their severity, their severity color code, and service-affecting status.

Step 3 Complete the "DLP-G130 Discontinue Alarm Suppression" task on page 7-35 to discontinue alarm suppression and resume normal alarm reporting.

Stop. You have completed this procedure.

DLP-G129 Suppress Alarm Reporting

Purpose	This task suppresses the reporting of ONS 15454 alarms at the node, card, or port level.
Tools/Equipment	None
Prerequisite Procedures	DLP-G46 Log into CTC, page 2-25
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Caution If multiple CTC/TL1 sessions are open, suppressing alarms in one session suppresses the alarms in all other open sessions.

Note Alarm suppression at the node level does not supersede alarm suppression at the card or port level. Suppression can exist independently for all three entities, and each entity will raise separate alarms suppressed by the user command (AS-CMD) alarm.

Step 1 If you are in node view, click the **Provisioning > Alarm Profiles > Alarm Profiles** tabs.

Step 2 To suppress alarms for the entire node:

a. Check the **Suppress Alarms** check box.

b. Click **Apply**.

All raised alarms for the node will change color to white in the Alarms window and their status will change to cleared. After suppressing alarms, clicking **Synchronize** in the Alarms window will remove cleared alarms from the window. However, an AS-CMD alarm will show in node or card view to indicate that node-level alarms were suppressed, and the word System will appear in the Object column.

Note The only way to suppress BITS, power source, or system alarms is to suppress alarms for the entire node. These cannot be suppressed separately.

Step 3 To suppress alarms for individual cards:

a. Locate the card row (using the Location column for the slot number or the Eqpt Type column for the equipment name).

b. Check the **Suppress Alarms column** check box on that row.

Alarms that directly apply to this card will change appearance as described in Step 2. For example, if you suppressed raised alarms for an OC-48 card in Slot 16, raised alarms for this card will change in node or card view. The AS-CMD alarm will show the slot number in the Object number. For example, if you suppressed alarms for a Slot 16 OC-48 card, the AS-CMD object will be "SLOT-16."

Click **Apply**.

Step 4 To suppress alarms for individual card ports, double-click the card in node view.

Step 5 Depending on which card ports you want to suppress alarm reporting on, click the following tabs:

- If the card is an MXP, MXPP, TXP, TXPP, or WSS card, click the **Provisioning > Alarm Profiles > Alarm Profile Editor** tabs.
- If the card is an OSC-CSM card, click the **Provisioning > OC3 Line > Alarm Profiles > Alarm Profiles** tabs or the **Provisioning > Optical Line > Alarm Profiles > Alarm Profiles** tabs.
- If the card is a 32MUX-O or 32DMX-O card, click the **Provisioning > Optical Line > Alarm Profiles > Alarm Profiles** tabs or the **Provisioning > Optical Chn > Alarm Profiles > Alarm Profiles** tabs.
- If the card is a 4MD card, click the **Provisioning > Optical Chn > Alarm Profiles > Alarm Profiles** tabs or the **Provisioning > Optical Band > Alarm Profiles > Alarm Profiles** tabs.
- If the card is an OPT-PRE or OPT-BST card, click the **Provisioning > Optical Line > Alarm Profiles > Alarm Profiles** tabs or the **Provisioning > Opt. Ampli. Line > Alarm Profiles > Alarm Profiles** tabs.
- If the card is an AD-1C, AD-2C, or AD-4C card, click the **Provisioning > Optical Line > Alarm Profiles > Alarm Profiles** tabs or the **Provisioning > Optical Chn > Alarm Profiles > Alarm Profiles** tabs.

- If the card is an AD-1B or AD-4B card, click the **Provisioning > Optical Line > Alarm Profiles > Alarm Profiles** tabs or the **Provisioning > Optical Band > Alarm Profiles > Alarm Profiles** tabs.

Step 6 Check the **Suppress Alarms** column check box for the port row where you want to suppress alarms (Figure 7-10 on page 7-25).

Step 7 Click **Apply**.

Alarms that apply directly to this port will change appearance as described in Step 2. (However, alarms raised on the entire card will remain raised.) A raised AS-CMD alarm that shows the port as its object will appear in either alarm window. For example, if you suppressed alarms for Port 1 on the Slot 16 OC-48 card, the alarm object will show "FAC-16-1."

Step 8 Return to your originating procedure (NTP).

DLP-G130 Discontinue Alarm Suppression

Purpose	This task discontinues alarm suppression and reenables alarm reporting on a port, card, or node.
Tools/Equipment	None
Prerequisite Procedures	DLP-G129 Suppress Alarm Reporting, page 7-33 DLP-G46 Log into CTC, page 2-25
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Caution If multiple CTC sessions are open, discontinuing suppression in one session will discontinue suppression in all other open sessions.

Step 1 To discontinue alarm suppression for the entire node:

a. In node view, click the **Provisioning > Alarm Profiles > Alarm Profiles** tab.

b. Uncheck the **Suppress Alarms** check box.

Suppressed alarms will reappear in the Alarms window. (They might have previously been cleared from the window using the Synchronize button.) The AS-CMD alarm with the System object will be cleared in all views.

Step 2 To discontinue alarm suppression for individual cards:

a. In the node view, click the **Provisioning > Alarm Profiles > Alarm Profiles** tabs.

b. Locate the card that was suppressed in the slot list.

c. Uncheck the Suppress Alarms column check box for that slot.

d. Click **Apply**.

Suppressed alarms will reappear in the Alarms window. (They might have previously been cleared from the window using the Synchronize button.) The AS-CMD alarm with the slot object (for example, SLOT-16) will be cleared in all views.

Step 3 To discontinue alarm suppression for ports, click the following tabs:

- If the card is an MXP, MXPP, TXP, TXPP, or WSS card, click the **Provisioning > Alarm Profiles > Alarm Profile Editor** tabs.
- If the card is an OSC-CSM card, click the **Provisioning > OC3 Line > Alarm Profiles > Alarm Profiles** tabs or the **Provisioning > Optical Line > Alarm Profiles > Alarm Profiles** tabs.
- If the card is a 32MUX-O or 32DMX-O card, click the **Provisioning > Optical Line > Alarm Profiles > Alarm Profiles** tabs or the **Provisioning > Optical Chn > Alarm Profiles > Alarm Profiles** tabs.
- If the card is a 4MD card, click the **Provisioning > Optical Chn > Alarm Profiles > Alarm Profiles** tabs or the **Provisioning > Optical Band > Alarm Profiles > Alarm Profiles** tabs.
- If the card is an OPT-PRE or OPT-BST card, click the **Provisioning > Optical Line > Alarm Profiles > Alarm Profiles** tabs or the **Provisioning > Opt. Ampli. Line > Alarm Profiles > Alarm Profiles** tabs.
- If the card is an AD-1C, AD-2C, or AD-4C card, click the **Provisioning > Optical Line > Alarm Profiles > Alarm Profiles** tabs or the **Provisioning > Optical Chn > Alarm Profiles > Alarm Profiles** tabs.
- If the card is an AD-1B or AD-4B card, click the **Provisioning > Optical Line > Alarm Profiles > Alarm Profiles** tabs or the **Provisioning > Optical Band > Alarm Profiles > Alarm Profiles** tabs.

Step 4 Uncheck the **Suppress Alarms** check box for the port(s) you no longer want to suppress.

Step 5 Click **Apply**.

Suppressed alarms will reappear in the Alarms window. (They might have previously been cleared from the window using the Synchronize button.) The AS-CMD alarm with the port object (for example, FAC-16-1) will be cleared in all views.

Step 6 Return to your originating procedure (NTP).

NTP-G71 Provision External Alarms and Controls on the Alarm Interface Controller Card

Purpose	Use this procedure to create external (environmental) alarms and external controls on the Alarm Interface Controller (AIC). The AIC is not compatible with the ONS 15454 ETSI shelf.
Tools/Equipment	An AIC card must be installed in Slot 9.
Prerequisite Procedures	DLP-G34 Install the AIC or AIC-I Card, page 1-76
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Note For information about the AIC external alarms and controls, virtual wire, and orderwire, refer to the "14.2.2 AIC Card" section on page 14-14 and the "20.7 External Alarms and Controls" section on page 20-13.

Step 1 Verify the backplane wiring. See the "NTP-G10 Attach Wires to Alarm, Timing, LAN, and Craft Pin Connections" procedure on page 1-47 for information about the ONS 15454 ANSI backplane pins.

a. For external alarms, verify that the external-device relays are wired to the ENVIR ALARMS IN backplane pins.

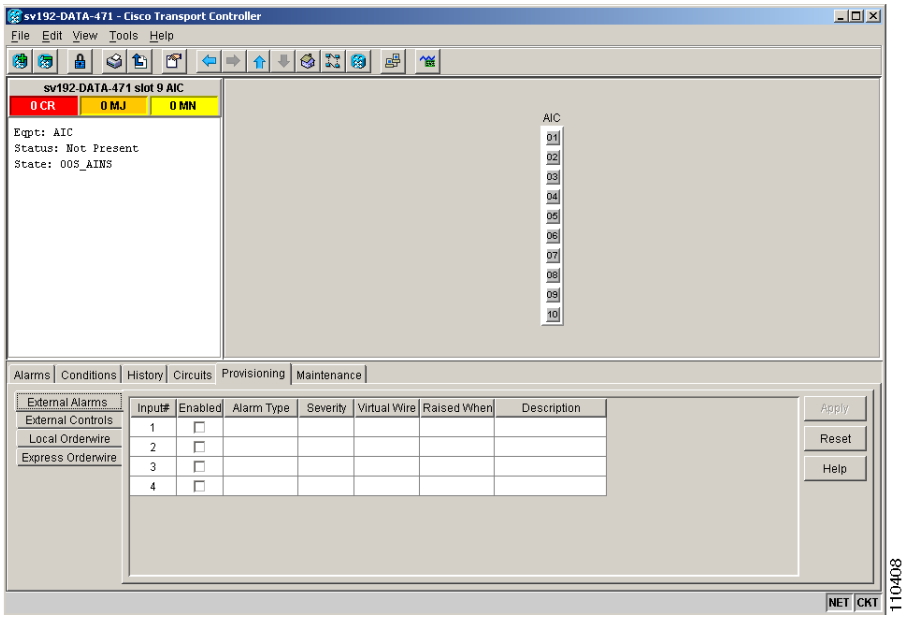
b. For external controls, verify that the external relays are wired to the ENVIR ALARMS OUT backplane pins.

Step 2 Complete the "DLP-G46 Log into CTC" task on page 2-25. If you are already logged in, continue with Step 4.

Step 3 In the node view, double-click the AIC card on the shelf graphic. The card view appears.

Step 4 If you are provisioning external alarms, click the **Provisioning > External Alarms** tab (Figure 7-15). If you are not provisioning external alarms, skip Steps 5 through 7 and continue with Step 8.

Figure 7-15 AIC Card External Alarms



Step 5 Complete the following fields for each external device wired to the ONS 15454 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 list.
- Severity—Choose a severity from the drop-down list.

  The severity you choose determines the external alarm's severity 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 Alarmed (NA) and Not Reported (NR) do not activate LEDs, but do report the information in CTC.
- Virtual Wire—Choose the virtual wire number in the drop-down list to assign the external device to a virtual wire. Otherwise, do not change the None default. For information about the AIC virtual wire, see the "20.7.3 Virtual Wires" section on page 20-14.
- Raised When—From the drop-down list, choose the contact condition (open or closed) that triggers the alarm.

- Description—A default description is provided; enter a different description if needed.

Step 6 To provision up to four virtual wire inputs for external devices, complete Step 5 for each additional device.

Step 7 Click **Apply**.

Step 8 If you are provisioning external control outputs for external devices, click the **External Controls** subtab.

Step 9 Complete the following options for each external control wired to the ONS 15454 backplane:

- Enabled—Check this check box to activate the fields for the alarm input number.
- Control Type—Choose the control type from the drop-down list: 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 10 To provision additional external controls, complete Steps 8 and 9 for each additional device.

Step 11 Click **Apply**.

Note If you provision an external alarm to raise upon an open contact before you physically connect to the ONS equipment, the alarm will raise until you do create the physical connection.

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.

NTP-G72 Provision External Alarms and Controls on the Alarm Interface Controller-International

Purpose	Use this procedure to create external (environmental) alarms and external controls for the AIC-I card.
Tools/Equipment	An AIC-I card must be installed in Slot 9.
Prerequisite Procedures	DLP-G34 Install the AIC or AIC-I Card, page 1-76
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Note On the ONS 15454 ANSI shelf, the AIC-I card alarm provides direct alarm contacts (external alarm inputs and external control outputs) routed through the backplane to wire-wrap pins accessible from the back of the shelf. If you install an Alarm Expansion Panel (AEP), the AIC-I alarm contacts cannot be used. Only the AEP alarm contacts can be used. For further information about the AEP, see "NTP-G9 Install the Alarm Expansion Panel (ANSI Only)" procedure on page 1-44 and the "NTP-G11 Install an External Wire-Wrap Panel on the AEP (ANSI Only)" procedure on page 1-59. The ONS 15454 ETSI shelf is not compatible with the AEP.

Note For information about the AIC-I alarms, controls, and virtual wire, refer to the "14.2.3 AIC-I Card" section on page 14-17 and the "20.7.3 Virtual Wires" section on page 20-14.

Step 1 If you are using an ONS 15454 ANSI shelf, verify the backplane wiring. If you are using the AEP, see the "NTP-G9 Install the Alarm Expansion Panel (ANSI Only)" procedure on page 1-44. Otherwise, see the "NTP-G10 Attach Wires to Alarm, Timing, LAN, and Craft Pin Connections" procedure on page 1-47 for information about the ONS 15454 backplane pins.

a. For external alarms, verify that the external device relays are wired to the ENVIR ALARMS IN backplane pins.

b. For external controls, verify that the external device relays are wired to the ENVIR ALARMS OUT backplane pins.

Step 2 If you are using an ONS 15454 ETSI shelf, verify the alarm contact wiring. See the "NTP-G10 Attach Wires to Alarm, Timing, LAN, and Craft Pin Connections" procedure on page 1-47 for information about the ONS 15454 SDH contacts.

a. For external alarms, verify that the external device relays are wired to the ENVIR ALARMS IN connector pins.

b. For external controls, verify the external device relays are wired to the ENVIR ALARMS OUT connector pins.

Step 3 Complete the "DLP-G46 Log into CTC" task on page 2-25. If you are already logged in, continue with Step 2.

Step 4 In the node view, double-click the AIC-I card on the shelf graphic. The card view appears.

Step 5 Click the **Provisioning > Card** tabs.

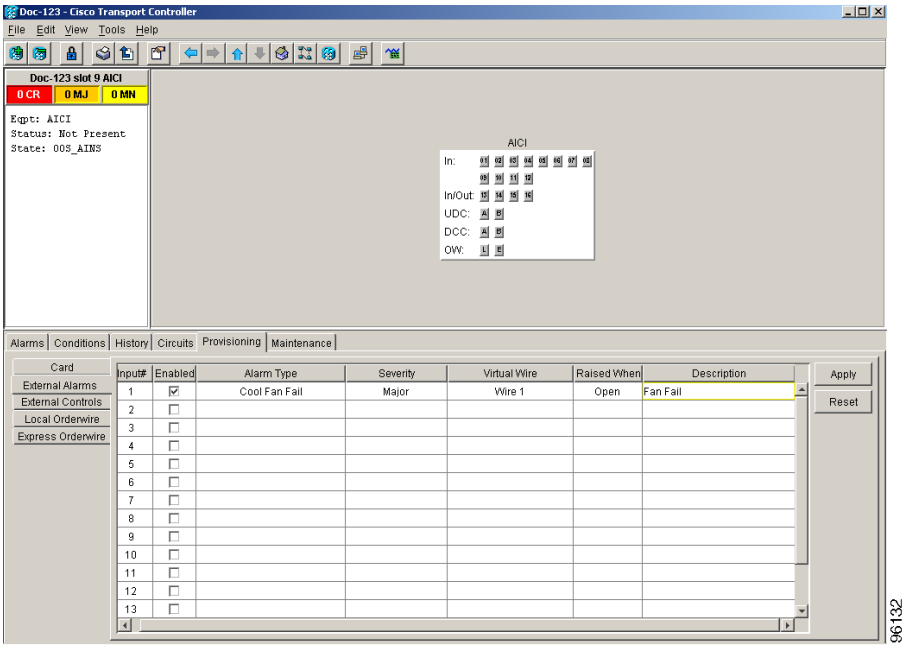
Step 6 In the Alarm Contacts area, click the Add Extension radio button if you are using the AEP. Clicking this option will choose the External Alarm input/output type and the AEP extension type; it will give you access to 16 external alarm contacts.

Step 7 If you did not click Add Extension, in the Input/Output area, choose either External Alarm or External Control. (External Alarm will limit your input/output options as explained in Step 6.) Choosing External Control will enable both external alarms and external controls. This will convert four of the external alarm contacts to external controls, leaving 12 available external control contacts. The extension type for both options is AEP.

Step 8 Click **Apply**.

Step 9 If you are provisioning external alarms, click the **External Alarms** tab (Figure 7-16). If you are not provisioning external alarms, skip Steps 10 through 12 and go to Step 13.

Figure 7-16 Provisioning External Alarms on the AIC-I Card



Step 10 For external alarms, complete the following fields:

- Enabled—Check the check box to activate the fields for the alarm input number.
- Alarm Type—Choose an alarm type from the drop-down list.
- Severity—Choose a severity from the drop-down list.

  The severity determines the alarm's severity 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 Alarmed (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 list to assign the external device to a virtual wire. Otherwise, do not change the None default.
- Raised When—From the drop-down list, choose the contact condition (open or closed) that triggers the alarm.
- Description—A default description is provided; enter a different description if needed.

Step 11 To provision additional devices, complete Step 10 for each additional device.

Step 12 Click **Apply**.

Step 13 For external controls, click the **External Controls** tab and complete the following fields for each control wired to the ONS 15454 backplane (ANSI) or FMEC connector pins (ETSI):

- Enabled—Check this check box to activate the fields for the alarm input number.
- Control Type—Choose the control type from the drop-down list: 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 14 To provision additional external controls, complete Step 13 for each device.

Step 15 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.