

Manage Alarm Profiles

This chapter provides the CTC procedures to create, load and store the alarm profiles. This chapter also provides procedures to change the default alarm severities and apply an alarm profile to a card or to the node.

- Alarm Severities, on page 1
- Alarm Profiles, on page 1
- Alarm Severity Options, on page 2
- Apply Alarm Profiles, on page 2
- Create a New Alarm Profile Using CTC, on page 2
- Clone an Alarm Profile Using CTC, on page 3
- Load an Alarm Profile Using CTC, on page 4
- Set the Severity of Alarms Using CTC, on page 5
- Delete Alarm Profile Using CTC, on page 6
- Apply/Suppress an Alarm Profile on a Node Using CTC, on page 7
- Apply/Suppress an Alarm Profile on a Line Card Using CTC, on page 8
- Apply/Suppress an Alarm Profile on a Port Using CTC, on page 8

Alarm Severities

Alarm severities follow the Telcordia GR-474-CORE standard, so a condition might be Alarmed at a severity of Critical [CR], Major [MJ], or Minor [MN]), Not Alarmed (NA), or Not Reported (NR). These severities are reported in the CTC software Alarms, Conditions, and History windows at all levels: network, shelf, and card.

The users can create their own profiles with different settings for some or all conditions and apply these wherever desired. (See the Alarm Profiles, on page 1 section.) For example, in a custom alarm profile, the default severity of a signal loss on data interface (SIGLOSS) alarm on an Ethernet port could be changed from major to critical.

Alarm Profiles

The alarm profiles feature allows you to change default alarm severities by creating unique alarm profiles for individual ports, cards, or nodes. A created alarm profile can be applied to any node on the network. Alarm profiles can be saved to a file and imported elsewhere in the network, but the profile must be stored locally on a node before it can be applied to the node or its cards.

CTC can store up to ten active alarm profiles at any time to apply to the node.

Alarm Severity Options

To change or assign alarm severity, left-click the alarm severity you want to change in the alarm profile column. Seven severity levels appear for the alarm:

- Not Reported (NR)
- Not Alarmed (NA)
- Minor (MN)
- Major (MJ)
- Critical (CR)
- Use Default

Use Default severity levels only appear in alarm profiles. They do not appear when you view alarms, history, or conditions.

Apply Alarm Profiles

In the CTC node view, the **Alarm Behavior** window displays alarm profiles for the entire node and specific cards. In the card view, the Alarm Behavior window displays the alarm profiles for the selected card. Alarm profiles form a hierarchy. A node-level alarm profile applies to all cards in the node except cards that have their own profiles. A card-level alarm profile applies to all ports on the card.

At the node level, you can apply profile changes on a card-by-card basis or set a profile for the entire node.

Create a New Alarm Profile Using CTC

Purpose	This procedure enables you to create a new alarm profile.
Tools/Equipment	None
Prerequisite Procedures	"Login to CTC" in System Setup and Software Installation Guide for Cisco NCS 4000 Series
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Procedure

Step 1 In Node View/Card View , click the **Provisioning** > **Alarm Profiles** > **Alarm Profile Editor** tabs .

Note
To access the profile editor from Network View, click **Provisioning** > **Alarm Profile** tabs.

Step 2 Click **New**.

Step 3 In the **New Profile** dialog box enter profile name in the **New Profile Name** field.

Note
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.

Step 4 Click **OK**. A new alarm profile is created.

Note
Up to ten profiles can be stored in CTC.

Step 5 (Optional) Complete step4 and step5 in Set the Severity of Alarms Using CTC, on page 5 to modify the default severity of alarm(s) in the profile.

Step 6 Select the profile you want to save and click **Store**.

Alternatively you can right-click the profile column and click **Store** from the short cut menu.

Step 7 In the **Store Profile(s)** dialog box, perform the following:

a) Select **To Node(s)** option and choose the node(s) were you want to save the profile.

Alternatively select **To File** option to save profile in a file.

b) Click **OK**.

Step 8 Click **Available**. The new profile will now be present in the list of available profiles.

Stop. You have completed this procedure.

Clone an Alarm Profile Using CTC

Purpose	This procedure enables you to create clone of an existing alarm profile.
Tools/Equipment	None
Prerequisite Procedures	"Login to CTC" in System Setup and Software Installation Guide for Cisco NCS 4000 Series
Required/As Needed	As needed
Onsite/Remote	Onsite or remote

Security Level	Provisioning or higher

Procedure

Step 1 In Node/Card View, click the **Provisioning** > **Alarm Profiles** > **Alarm Profile Editor** tabs .

Note
To access the profile editor from Network View, click **Provisioning** > **Alarm Profile** tabs.

Step 2 Complete Load an Alarm Profile Using CTC, on page 4, to load an alarm profile.

Step 3 Right-click anywhere in the loaded profile entry. The short cut menu appears.

Step 4 Click **Clone** option.

Step 5 (Optional) Complete steps 3 and 4 in Set the Severity of Alarms Using CTC, on page 5 to modify the default severity of alarm(s) in the profile.

Step 6 In the **Store Profile(s)** dialog box, perform the following:

a) Select **To Node(s)** option and choose the node(s) were you want to save the profile.

Alternatively select **To File** option to save profile in a file.

b) Click **OK**.

Step 7 Click **Available**. The cloned profile will now be present in the list of available profiles.

Stop. You have completed this procedure.

Load an Alarm Profile Using CTC

Purpose	This procedure enables you to downloads an alarm profile from a node or a file.
Tools/Equipment	None
Prerequisite Procedures	"Login to CTC" in System Setup and Software Installation Guide for Cisco NCS 4000 Series
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Procedure

Step 1 In Node/Card View , click the **Provisioning** > **Alarm Profiles** > **Alarm Profile Editor** tabs .

Note
To access the profile editor from Network View, click **Provisioning** > **Alarm Profile** tabs.

Step 2 Click **Load**. The Load Profile(s) dialog box appears.

Step 3 If you want to download a profile from a node, click **From Node** option and perform the following:

a) Select a node from the **Node Names** list.
The **Profile Names** list on the right, is updated with the alarm profiles saved on the selected node.

b) Select the name of the profile from the **Profile Names** list.

Step 4 If you want to download a profile from a file, click **From File** option.

Step 5 Click **OK.**

The downloaded profile appears in the Alarm Profiles window.

Stop. You have completed this procedure.

Set the Severity of Alarms Using CTC

Purpose	This procedure enables you to set the severity of alarms using CTC.
Tools/Equipment	None
Prerequisite Procedures	"Login to CTC" in *System Setup and Software Installation Guide for Cisco NCS 4000 Series*
Required/As Needed	As Needed
Onsite/Remote	Onsite or Remote
Security Level	Provisioning or higher

Procedure

Step 1 In Node/Card View , click the **Provisioning** > **Alarm Profiles** > **Alarm Profile Editor** tabs .

Note
To access the profile editor from Network View, click **Provisioning** > **Alarm Profile** tabs.

Step 2 Complete Load an Alarm Profile Using CTC, on page 4, to load an alarm profile.

Step 3 Select an alarm in the profile and choose severity from the drop-down list.

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-CORE.
- 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.

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.

Note
Repeat step3 to update multiple alarms.

Step 4 To save the updated profile, select the profile and click **Store**.

Alternatively you can right-click the profile column and click **Store** from the short cut menu.

Step 5 In the **Store Profile(s)** dialog box, perform the following:

a) Select **To Node(s)** option and choose the node(s) were you want to save the profile.

Alternatively select **To File** option and click **Browse** to navigate to the location where you want to save the profile.

b) Click **OK**.

Stop. You have completed this procedure.

Delete Alarm Profile Using CTC

Purpose	This procedure enables you to delete an existing alarm profile saved on a node.
Tools/Equipment	None
Prerequisite Procedures	"Login to CTC" in *System Setup and Software Installation Guide for Cisco NCS 4000 Series*
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Procedure

Step 1 In Node/Card View, click the **Provisioning** > **Alarm Profiles** > **Alarm Profile Editor** tabs .

Note
To access the profile editor from Network View, click **Provisioning** > **Alarm Profile** tabs.

Step 2 Click **Delete.**

Note

You cannot delete the Active alarm profiles.

Step 3 Click the node name 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 4 Click the profile names that you want to delete in the **Profile Names** list.

Step 5 Click **OK**.

Stop. You have completed this procedure.

Apply/Suppress an Alarm Profile on a Node Using CTC

Purpose	This procedure enables you to apply/suppress an alarm profile on a node using CTC.
Tools/Equipment	None
Prerequisite Procedures	"Login to CTC" in *System Setup and Software Installation Guide for Cisco NCS 4000 Series*
Required/As Needed	As Needed
Onsite/Remote	Onsite or Remote
Security Level	Provisioning or higher

Procedure

Step 1 In the Node View, click the **Provisioning** tab.

Step 2 Click **Alarm Profiles** > **Alarm Behavior** tabs.

Step 3 From the **Node Profile** drop down list, select a profile.

Note
Select None to detach a profile from the node.

Step 4 Check the **Supress Alarms** checkbox, if you want to suppress the profile for the node.

Step 5 Click **Apply**, to save the changes.

Stop. You have completed this procedure.

Apply/Suppress an Alarm Profile on a Line Card Using CTC

Purpose	This procedure enables you to apply/suppress an alarm profile on a line card using CTC.
Tools/Equipment	None
Prerequisite Procedures	"Login to CTC" in *System Setup and Software Installation Guide for Cisco NCS 4000 Series*
Required/As Needed	As Needed
Onsite/Remote	Onsite or Remote
Security Level	Provisioning or higher

Procedure

Step 1 In the Node View, click the **Provisioning** tab.

Step 2 Click **Alarm Profiles** > **Alarm Behavior** tabs.

This tab displays the list of line cards.

Step 3 To apply a profile on a line card , click the **Profile** column, and select a profile from the drop down list.

Note
Select None to detach a profile from the line card.

Step 4 Check the **Supress Alarms** checkbox, if you want to suppress the profile for the card.

Step 5 Click **Apply**, to save the changes.

Stop. You have completed this procedure.

Apply/Suppress an Alarm Profile on a Port Using CTC

Purpose	This procedure enables you to apply/suppress an alarm profile on a port for NCS4K-20T-O-S, NCS4K-2H-O-K, NCS4K-24LR-O-S, NCS4K-2H10T-OP-KS, and NCS4K-4H-OPW-QC2 line cards, using CTC.
Tools/Equipment	None
Prerequisite Procedures	"Login to CTC" in *System Setup and Software Installation Guide for Cisco NCS 4000 Series*
Required/As Needed	As Needed

Onsite/Remote	Onsite or Remote
Security Level	Provisioning or higher

Procedure

Step 1 In the Node View, double click the line card.

Step 2 Click **Provisioning** > **Alarm Profiles** > **Alarm Behavior** tabs.

The pane displays the list of port numbers.

Step 3 To apply a profile on a port, click the **Profile** column, and select a profile from the drop down list.

Note
Select None to detach a profile from the port.

Step 4 Check the **Supress Alarms** checkbox, if you want to suppress the profile for the port.

Step 5 Click **Apply**, to save the changes.

Stop. You have completed this procedure.