

CA Nimsoft Monitor

Probe Guide for EMC Celerra Monitoring

celerra v1.5 series



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Documentation Changes

This table describes the version history for this document.

Version	Date	What's New?
1.5	September 2013	Initial web-based GUI version of this probe. (Previous versions of this probe are configured using Infrastructure Manager).

Chapter 1: Overview

The EMC Celerra Monitoring probe is a remote monitoring probe that monitors the EMC Celerra Storage systems, providing extensive availability and performance metrics.

This section contains the following topics:

[About This Guide](#) (see page 7)

[Related Documentation](#) (see page 7)

[Preconfiguration Requirements](#) (see page 8)

About This Guide

This guide is for the CA Nimsoft Monitor Administrator to help understand the configuration of the EMC Celerra Monitoring probe.

This guide contains the following information:

- An overview of the EMC Celerra Monitoring probe.
- The related documentation for previous probe versions, release notes, and so on.
- The configuration details of the probe including information for the fields that are required to configure the probe.
- The common procedures that can be used in the probe configuration.

Important! The field description for intuitive terms in the GUI has not been included in the document.

Related Documentation

For related information that may be of interest, see the following material:

Related Documentation

Documentation for other versions of the celerra probe

The [Release Notes](#) for the celerra probe

[User documentation for the Admin Console](#)

Monitor Metrics Reference Information for CA Nimsoft Probes

(http://docs.nimsoft.com/prodhelp/en_US/Probes/ProbeReference/index.htm)

Preconfiguration Requirements

This section contains the preconfiguration requirements for the EMC Celerra Monitoring probe.

Supported Platforms

Refer to the [Nimsoft Compatibility Support Matrix](#) for the latest information on supported platforms. See also the [Support Matrix for Nimsoft Probes](#) for specific information on the EMC Celerra Monitoring probe.

Chapter 2: Configuration Details

The EMC Celerra Monitoring probe can handle all common monitoring and data collection tasks for EMC Celerra Storage Systems.

You can define alarms to be raised and propagated when the specified thresholds are breached.

The following components are monitored:

- Data Movers
- Storage Systems and Processors
- File Systems
- Networks

Templates are a useful tool for defining monitors to be measured on the various components.

Create a template and define a set of checkpoints belonging to that template. Drag and drop the template on the folder where you want to monitor the checkpoints that are defined for the template.

This section contains the following topics:

[celerra Node](#) (see page 10)

[Configure a Node](#) (see page 14)

[Add New Resource](#) (see page 14)

[Delete Resource](#) (see page 15)

[Delete Monitor](#) (see page 15)

celerra Node

This node contains configuration details specific to the EMC Celerra Monitoring probe. In this node, you can view the probe information and can configure the general setup properties of the EMC Celerra Monitoring probe. You can view a list of all alarm messages that are available in the EMC Celerra Monitoring probe. You can also add a resource in the EMC Celerra Monitoring probe.

Navigation: celerra

Set or modify the following values that are based on your requirement:

celerra > Probe Information

This section provides information about the probe name, probe version, start time of the probe, and the vendor who created the probe.

celerra > General Setup

This section allows you to configure the general setup properties of the EMC Celerra Monitoring probe.

- **Log Level:** Specifies the level of details that are written to the log file.
Default: 2 - Warn
- **Enable GUI Autorefresh (60 sec):** Allows you to autorefresh the GUI in 60 seconds. The field reflects the most current measured values from the checkpoints and status of the nodes in the tree structure.
Default: Not selected
- **Java Home:** Defines a folder containing Java home.

celerra > Message pool

This section displays a list of all alarm messages that are available in the EMC Celerra Monitoring probe.

- Identification Name: Identifies the name of the message.
- Token: Identifies the token which is used for internalization.
- Error Severity: Indicates the severity level that is assigned to the alarm messages.
- Error Alarm Text: Identifies the alarm message text that is issued on the error alarm.
- Clear Alarm Text (OK): Identifies the alarm message text that is issued on the clear alarm.
- Subsystem String/Id: Identifies the subsystem ID of the alarm that the watcher generates.

celerra > Options Icon > Add New Resource

This section allows you to add a resource in the EMC Celerra Monitoring probe.

- Control Station IP: Defines the IP address of the Celerra Network Control Station.
- Port: Specifies the ssh port that is used to connect to the Celerra Network Control Station.
Default: 0
- Reserved: Defines a character in this field.
- Alarm Message: Specifies the alarm message to be sent in case the resource does not respond.
Default: Resource Critical
- Check Interval: Specifies how often the probe checks the values of the monitors.
Default: 5
- Units: Specifies the unit of the check interval.
Default: Minutes
- Scope: Specifies the login scope for the celerra system user.
Default: 0

Profile-<Resource Name> Node

The Profile-*resource name* node allows you to configure the host information of EMC Celerra Monitoring probe.

Navigation: celerra > profile-*resource name*

Set or modify the following values that are based on your requirement:

profile-*resource name* > Celerra Host Information

This section allows you to configure the host information of the EMC Celerra Monitoring probe.

<Resource Name> Node

The *resource name* node represents the resource name of the profile that is used to monitor the EMC Celerra Monitoring probe.

Note: This node is user-configurable and depends on the resource name of the profile. Hence, this node is referred as the *resource name* throughout this document.

Storage Node

The **Storage** node allows you to configure the resource that has been added. This node also lets you add and delete the monitors to be measured.

The **Storage** node is of five types of monitors:

- Control Station
- Data Movers
- File Systems
- Network
- Storage

Navigation: celerra > Profile-*resource name* > *resource name* > Storage

Set or modify the following values that are based on your requirement:

Storage > Resource Configuration

This section allows you to set up the resource configuration of the EMC Celerra Monitoring probe.

Storage > Monitor Properties

This section lets you add and delete monitors in the EMC Celerra Monitoring probe.

- Description: Indicates the description of the monitors.
- Publish Data: Allows the probe for generating the QoS.
- Publish Alarms: Allows the probe for generating alarm messages.
- Active: Activates the monitor.
- Key: Indicates the monitor key.
- Name: Defines the name of the monitor.
- Value Definition: Specifies the value to be used for alarming and QoS.
- Device: Identifies the type of device from where the device is fetching the data.
- Threshold High: Defines the high threshold. If the defined high threshold is breached, allows you to generate an alarm.
- Unit: Specifies the unit of the threshold high.
- Operator: Specifies the operator to be used when setting the high alarm threshold for the measured value.
- Message: Specifies the alarm message to be issued in case the specified high threshold value is breached.
- Threshold Low: Defines the low threshold. If the defined low threshold is breached, allows you to generate an alarm.

- Unit: Specifies the unit of the low threshold.
- Operator: Specifies the operator to be used when setting the low alarm threshold for the measured value.
- Message: Specifies the alarm message to be issued in case the specified low threshold value is breached.

<Monitor Name> Node

The *monitor name* node allows you to select one or more monitors from a list of all available monitors.

Navigation: celerra > Profile-*resource name* > *resource name* > Storage > *monitor name*

Set or modify the following values that are based on your requirement:

***monitor name* > Monitors List**

This section allows you to select one or more monitors from a list of available monitors.

Configure a Node

This procedure provides the information to configure a particular section within a node in the EMC Celerra Monitoring probe.

Follow these steps:

1. Select the appropriate navigation path.
2. Update the field information and click **Save**.

The specified section of the EMC Celerra Monitoring probe is configured.

Add New Resource

You can add a resource in the EMC Celerra Monitoring probe. This resource can be used as a connection to the probe through which the probe collects, and stores data and information from the monitored components.

Follow these steps:

1. Click the **Options** icon next to the **celerra** node in the navigation pane.
2. Click the **Add New Resource** option.
3. Update the field information and click **Submit**.

The resource is saved and you can configure the resource properties that can be used as a connection to the Celerra system.

Delete Resource

You can delete an existing resource when you no longer need it.

Follow these steps:

1. Click the **Options** icon beside the *Profile-resource name* node that you want to delete.
2. Click the **Delete Resource** option.

The resource is deleted.

Delete Monitor

You can delete a custom monitor in the EMC Celerra Monitoring probe when you no longer need it.

Follow these steps:

1. Go to the **monitor** node in the navigation pane.
2. Select the monitor that you want to delete from the **Monitor Properties** section.
3. Click **Delete**.

The selected monitor is deleted.