

Symantec™ Storage Foundation and High Availability Cluster Communication Management Pack Guide for Microsoft SCOM

Windows

Cluster Communication Management
Pack



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About Symantec Cluster Communication Management Pack

This chapter includes the following topics:

- [Overview](#)
- [List of SCOM rules for collecting GAB / LLT events](#)

Overview

The Symantec Cluster Communication Management Pack is required to monitor the components which are used for cluster communication. Typically, these components are GAB, and LLT components. GAB, and LLT components are part of Symantec Cluster Server (VCS), however, these components are also used in few SFW deployments, and configuration scenarios. Having the Symantec Cluster Communication Management Pack installed in the System Center Operations Manager (SCOM) environment helps administrator to identify potential issues in the cluster communications

[Table 1-1](#) lists the management pack file name and description of the Symantec Cluster Communication Management Pack for System Center Operations Manager.

Table 1-1 Symantec Cluster Communication Management Pack: file name and description

File name	Description
Symantec.Cluster.Communication.mp	This management pack contains GAB, and LLT specific rules and alerts.

The Symantec Cluster Communication Management Pack, Symantec.Cluster.Communication.mp, is a sealed management pack that contains rules to monitor the following components, in a SCOM monitoring environment:

Table 1-2 Symantec Cluster Communication Management Pack: components monitored

Component name	Description
GAB	Group Membership Services/Atomic Broadcast (GAB) is responsible for cluster membership and cluster communications. The Management Pack monitors the status of the cluster memberships and communications.
LLT	Low Latency Transport (LLT) is responsible for private network communications between cluster nodes. LLT functions as a high-performance, low-latency replacement for the IP stack, and is used for all cluster communications. The Management Pack monitors the LLT status.

The Symantec Cluster Communication Management Pack contains the following components:

- Monitor for Veritas VCSComm Startup service
 This monitor represents the current state of Veritas VCSComm Startup service. While the service is running the state is displayed as healthy. However, in case of a failure the state is displayed as critical.
- One target named 'Symantec Cluster Communication Servers'
 This target represents the nodes with GAB / LLT installed.
- Rules to collect GAB / LLT specific events
 The Symantec Cluster Communication Management Pack contains the rules which collect events from GAB / LLT components, and generate alerts for critical GAB / LLT errors.

List of SCOM rules for collecting GAB / LLT events

Symantec Cluster Communication Management Pack contains the following rules to collect various events:

- GAB source with severity as “error”
- GAB source with severity as “warning”
- GAB source with severity as “information”
- LLT source with severity as “error”

- LLT source with severity as “warning”
- LLT source with severity as “information”
- VCSCComm source with severity as “error”

'GAB information events collection rule', and 'LLT information events collection rule' are disabled by default. To collect and display Information events, you need to manually enable rules using overrides for a particular event source. For information about how to enable rules using overrides, refer to Microsoft System Center Operations Manager 2012 documentation.

Note: The target for these rules is 'Symantec Cluster Communication Servers'.

Deploying the Symantec Cluster Communication Management Pack

This chapter includes the following topics:

- [Supported software](#)
- [Prerequisite](#)
- [Importing the Symantec Cluster Communication Management Pack](#)

Supported software

The Symantec Cluster Communication Management Pack is compatible with the following product versions:

- Microsoft System Center Operations Manager 2012 SP1
- Microsoft System Center Operations Manager 2012 R2

Prerequisite

Verify that Operations Manager 2012 infrastructure is set up and configured correctly. See the Microsoft System Center Operations Manager 2012 documentation for more information for setup and configuration.

Importing the Symantec Cluster Communication Management Pack

Use the following procedure to import the Symantec Cluster Communication Management Pack, `Symantec.Cluster.Communication.mp`.

To import the Symantec Cluster Communication Management Pack for SCOM

- 1 Log on to the computer with an account that is a member of the Operations Manager Administrators role for the Operations Manager management group.
- 2 In the Operations Console, click **Administration**.
- 3 Under Required Configuration Tasks: section, click **Required: Import management packs** to launch Import Management Packs wizard.
- 4 Click **Add**, and then click **Add from disk**.
- 5 The Select Management Packs to import dialog box appears. Change to the directory that holds the Symantec Cluster Communication Management Pack file, select the management pack **Symantec.Cluster.Communicaiton.mp** and then click **Open**.
- 6 On the Select Management Packs page, the management pack that you selected for import is listed. A green check mark indicates that the management pack can be imported. Click **Import**.

A red error icon indicates that the management pack is dependent on one or more management packs that are not in the Import list and are not available in the catalog. To view the missing management packs, click **Error** in the Status column. To remove the management pack with the error from the Import list, right-click the management pack, and then click **Remove**.

- 7 The Import management packs page appears and shows the progress for management pack. Each management pack is downloaded to a temporary directory, imported to Operations Manager, and then deleted from the temporary directory. If there is a problem at any stage of the import process, select the management pack in the list to view the status details. Click **Close**.

After successfully importing the Symantec Cluster Communication Management Pack, to view the alerts which are generated from Symantec Cluster Communication Servers, you may first need to create desired view in the Operations Manager console. When creating a view, specify 'Symantec Cluster Communication Servers' as a target.

Symantec Cluster Communication Management Pack monitoring alerts

This chapter includes the following topics:

- [About monitoring alerts](#)
- [GAB monitoring alerts](#)
- [LLT monitoring alerts](#)

About monitoring alerts

This chapter lists the monitoring alerts for GAB / LLT components. Depending on the alert that has been set for an event, an appropriate alert is generated. An alert notifies the administrator about the event that triggered the alert.

GAB monitoring alerts

[Table 3-1](#) lists the GAB alerts which are included in this management pack.

Table 3-1 GAB monitoring alerts

Event source	Event ID	Event message	Alert severity
GAB	20045	Incorrect protocol message	Error
GAB	20050	Protocol error: recv div_seq <sequence number>	Error

LLT monitoring alerts

[Table 3-2](#) lists the LLT alerts which are included in this management pack.

Table 3-2 LLT monitoring alerts

Event source	Event ID	Event message	Alert severity
LLT	10085	LLT protocol is unbinding from link name	Error
LLT	10463	bad msg checksum	Error
LLT	10030	duplicate cluster <cluster id> node <node id> detected, link <link id> (<link identifier>), address <MacAddress>	Error

This management pack also generates alerts for all the VCSCComm source events those have severity as error.