

# HPE Network Node Manager i Software

Software Version: 10.30 for the Windows® and Linux® operating systems

HPE Network Node Manager i Software—HPE Systems Insight Manager Integration Guide

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# Integrate NNMi with HPE Systems Insight Manager

HPE Systems Insight Manager (HPE SIM) provides systems management of HPE server and storage devices. HPE SIM features include system discovery and identification, a single-event view, inventory data collection, and reporting.

HPE SIM is beneficial for the following tasks:

- Troubleshooting complex problems that span server and storage infrastructure.
- Maintaining server and storage asset information.
- Modeling the impact of infrastructure and application changes before they occur.
- Tracking actual planned and unplanned changes through discovered change history.
- Gaining a shared, authoritative view of the environment through awareness of existing data repositories.
- Training network management personnel across domains of expertise.
- Shifting network management focus from daily maintenance toward future business needs.

For information about purchasing HPE SIM, contact your HPE sales representative.

This chapter contains the following topics:

- "HPE NNMi-HPE SIM Integration"
- "Enabling the NNMi–HPE SIM Integration"
- "Using the HPE NNMi–HPE SIM Integration"
- "Changing the HPE NNMi–HPE SIM Integration Configuration"
- "Disabling the HPE NNMi-HPE SIM Integration"
- "Troubleshooting the HPE NNMi–HPE SIM Integration"
- "HPE NNMi-HPE SIM Integration Configuration Form Reference"

# HPE NNMi-HPE SIM Integration

The HPE NNMi–HPE SIM integration provides actions for accessing several HPE SIM tools from the NNMi console.

### Value

The HPE NNMi–HPE SIM integration adds network device information to NNMi, so that NNMi users can detect and investigate potential network problems for HPE ProLiant servers and storage devices.

## **Integrated Products**

The information in this chapter applies to the following products:

HPE SIM

**TIP:** For the list of supported versions, see the NNMi Support Matrix.

NNMi 10.30

NNMi and HPE SIM must be installed on separate computers. The NNMi management server and the HPE SIM server computer can be of the same or different operating systems.

For the most recent information about supported hardware platforms and operating systems for NNMi, see the NNMi Support Matrix.

## **Enabling the NNMi-HPE SIM Integration**

On the NNMi management server, configure the connection between NNMi and HPE SIM by following these steps:

- 1. In the NNMi console, open the HPE NNMi–HPE SIM Integration Configuration form (Integration Module Configuration > HPE SIM).
- 2. Select the **Enable Integration** check box to make the remaining fields on the form available.
- 3. Enter the information for connecting to the NNMi management server For information about these fields, see "NNMi Management Server Connection".
- 4. Enter the information for connecting to the SIM server. For information about these fields, see "SIM Server Connection".
- 5. Click **Submit** at the bottom of the form.

A new window appears, showing a status message. If the message indicates a problem with connecting to the NNMi management server, click **Return**, then adjust the values as suggested by the text of the error message.

- 6. Load the incident definitions for SIM-managed devices:
  - a. Change to the following directory:
    - Windows: %NnmInstallDir%\newconfig\HPOvNmsEvent
    - Linux: \$NnmInstallDir/newconfig/HPOvNmsEvent
  - b. Import the SIM incident definitions by entering the following command:

```
nnmconfigimport.ovpl -f nnm-sim-incidentConfig.xml \
-u <username> -p <password>
```

- 7. Optional and recommended. Load the MIB definition files for the traps that SIM-managed devices generate:
  - a. Change to the following directory:
    - Windows:
      - %NNM\_SNMP\_MIBS%\Vendor\Hewlett-Packard\SystemsInsightManager
    - o Linux
      - \$NNM\_SNMP\_MIBS/Vendor/Hewlett-Packard/SystemsInsightManager
  - b. Use the nnmloadmib.ovpl script to load the appropriate MIB files for the managed environment. For example:

```
nnmloadmib.ovpl -load cpqhost.mib -u <username> -p <password>
```

- For the HPE ProLiant device traps, load the cpqhost.mib file, and then load the remaining cpq\*.mib files in the SystemsInsightManager directory.
- For the HPE Virtual Connect device traps, load the vc\*.mib files and the fa-mib40.mib file into NNMi.
- c. Verify that the MIBs loaded correctly, by entering the following command:

nnmloadmib.ovpl -list -u <username> -p <password>

## Using the HPE NNMi-HPE SIM Integration

The HPE NNMi–HPE SIM integration provides links from the NNMi console to the SIM agent on a device or directly to HPE SIM. The integration does not provide single sign-on between the products. You must enter your SIM user credentials to view the SIM pages.

Enabling the HPE NNMi-HPE SIM integration adds the following actions to the NNMi console:

- **HPE System Management Homepage**—Opens the HPE System Management device home page for the node selected in the NNMi console.
- HPE Systems Insight Manager Home—Opens the HPE SIM home page.
- HPE Systems Insight Manager—Opens the SIM System page for the node selected in the NNMi console.

# Changing the HPE NNMi-HPE SIM Integration Configuration

- 1. In the NNMi console, open the HPE NNMi-HPE SIM Integration Configuration form (Integration Module Configuration > HPE SIM).
- 2. Modify the values as appropriate. For information about the fields on this form, see "HPE NNMi–HPE SIM Integration Configuration Form Reference".
- 3. Verify that the **Enable Integration** check box at the top of the form is selected, and then click **Submit** at the bottom of the form.

**NOTE:** The changes take effect immediately. You do not need to restart ovjboss.

## Disabling the HPE NNMi-HPE SIM Integration

- 1. In the NNMi console, open the HPE NNMi-HPE SIM Integration Configuration form (Integration Module Configuration > HPE SIM).
- 2. Clear the **Enable Integration** check box at the top of the form, and then click **Submit** at the bottom of the form. The integration actions are no longer available.

**NOTE:** The changes take effect immediately. You do not need to restart ov jboss.

# Troubleshooting the HPE NNMi-HPE SIM Integration

#### SIM Actions Do Not Work

If you have verified the values in the **HPE NNMi–HPE SIM Integration Configuration** form and you are still not able to open a SIM page from the NNMi console, do the following:

- 1. Clear the web browser cache.
- 2. Clear all saved form or password data from the web browser.
- 3. Close the web browser window completely, and then re-open it.
- 4. Re-enter the values in the HPE NNMi-HPE SIM Integration Configuration form.

**TIP:** Because NNMi cannot silently verify the connection to the SIM server, the **HPE NNMi–HPE SIM Integration Configuration** form status message applies to the NNMi management server connection information only.

5. Verify that HPE SIM is running by opening the SIM homepage in a web browser.

## OID Not Found in the MIB Cache Message in Traps

If the MIB definition files for the traps that SIM-managed devices generate are not loaded in NNMi, you might see an error similar to the following text:

<Cia .1.3.6.1.4.1.11.5.7.5.2.1.1.1.7.0 with value 1 was not found within the mib cache>

To resolve these errors, load the MIBs as described in "Enabling the NNMi-HPE SIM Integration".

# HPE NNMi-HPE SIM Integration Configuration Form Reference

The HPE NNMi–HPE SIM Integration Configuration form contains the parameters for configuring communications between NNMi and HPE SIM. This form is available from the Integration Module Configuration workspace.

**TIP:** Only NNMi users with the Administrator role can access the **HPE NNMi–HPE SIM Integration Configuration** form.

The **HPE NNMi–HPE SIM Integration Configuration** form collects information for the following general areas:

- "NNMi Management Server Connection"
- "SIM Server Connection"

To apply changes to the integration configuration, update the values on the **NNMi–HPE SIM Integration Configuration** form, and then click **Submit**.

## NNMi Management Server Connection

"Table 1 NNMi Management Server Information" lists the parameters for connecting to the NNMi management server. This is the same information that you use to open the NNMi console. You can determine many of these values by examining the URL that invokes an NNMi console session. Coordinate with the NNMi administrator to determine the appropriate values for this section of the configuration form.

**Table 1 NNMi Management Server Information** 

Field	Description
NNMi SSL Enabled	The connection protocol specification.
	If the NNMi console is configured to use HTTPS, select the NNMi SSL Enabled check box. This is the default configuration.
	If the NNMi console is configured to use HTTP, clear the NNMi SSL Enabled check box.
NNMi Host	The fully-qualified domain name of the NNMi management server. This field is pre-filled with the hostname that was used to access the NNMi console. Verify that this value is the name returned by the <pre>nnmofficialfqdn.ovpl -t</pre> command run on the NNMi management server.
NNMi Port	The port for connecting to the NNMi console. This field is pre-filled with the port that the jboss application server uses for communicating with the NNMi console, as specified in the following file:
	• Windows: %NnmDataDir%\conf\nnm\props\nms-local.properties
	• Linux: \$NnmDataDir/conf/nnm/props/nms-local.properties
	For non-SSL connections, use the value of nmsas.server.port.web.http, which is 80 or 8004 by default (depending on the presence of another web server when NNMi was installed).
	For SSL connections, use the value of nmsas.server.port.web.https, which is 443 by default.
NNMi User	The user name for connecting to the NNMi console. This user must have the NNMi Administrator or Web Service Client role.
NNMi Password	The password for the specified NNMi user.

## SIM Server Connection

"Table 2 SIM Server Information" lists the parameters for connecting to the SIM server to open SIM pages. Coordinate with the SIM administrator to determine the appropriate values for this section of the configuration.

Table 2 SIM Server Information

SIM Server Parameter	Description
SIM SSL Enabled	The connection protocol specification for connecting to SIM.

Table 2 SIM Server Information, continued

SIM Server Parameter	Description
	<ul> <li>If HPE SIM is configured to use HTTPS, select the HPE SIM SSL Enabled check box. This is the default configuration.</li> </ul>
	<ul> <li>If HPE SIM is configured to use HTTP, clear the HPE SIM SSL Enabled check box.</li> </ul>
SIM Host	The fully-qualified domain name of the SIM server.
SIM Port	The port for connecting to HPE SIM.
	If you are using the default SIM configuration, use port 50000 (for SSL connections to HPE SIM).

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