HP Network Node Manager i Software

For the Windows[®] and Linux[®] operating systems Software Version: NNMi 10.10

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



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For the full Oracle license text, see the license-agreements directory on the NNMi product DVD.

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Acknowledgements

This product includes software developed by the Apache Software Foundation.(http://www.apache.org). This product includes software developed by the Visigoth Software Society (http://www.visigoths.org/).

Available Product Documentation

For a complete list of the documentation that is available for NNMi, see the *HP Network Node Manager i Software Documentation List*. This document is available on the HP manuals web site. Use this file to track additions to and revisions within the NNMi documentation set for this version of NNMi. Click a link to access a document on the HP manuals web site.

Also available on the HP manuals web site are .zip files of the complete documentation set for NNMi, NNMi Premium, and NNMi Ultimate. Access these documentation packages from the *HP Network Node Manager i* Software Documentation List or directly from the HP manuals web site.

To check for recent updates or to verify that you are using the most recent edition of a document, go to:

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This web site provides contact information and details about the products, services, and support that HP Software offers.

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Most of the support areas require that you register as an HP Passport user and sign in. Many also require a support contract. To register for an HP Passport user ID, go to:

https://hpp12.passport.hp.com/hppcf/createuser.do

To find more information about access levels, go to:

https://softwaresupport.hp.com/web/softwaresupport/access-levels

HP Software Solutions Now accesses the HPSW Solution and Integration Portal Web site. This site enables you to explore HP Product Solutions to meet your business needs, includes a full list of Integrations between HP Products, as well as a listing of ITIL Processes. The URL for this web site is:

http://h20230.www2.hp.com/sc/solutions/index.jsp

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HP Systems Insight Manager

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

HP 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 HP SIM, contact your HP sales representative.

This chapter contains the following topics:

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

HP NNMi-HP SIM Integration

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

Value

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

Integrated Products

The information in this chapter applies to the following products:

• HP SIM



For the list of supported versions, see the *NNMi System and Device Support Matrix*.

• NNMi 10.10

HP NNMi and HP SIM must be installed on separate computers. The NNMi management server and the HP 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 HP NNMi, see the *NNMi System and Device Support Matrix*.

For the most recent information about supported hardware platforms and operating systems for HP SIM, see the quickspecs, which are available at:

www.hp.com/go/sim

Documentation

This chapter describes how to configure HP NNMi to communicate with HP SIM and how to use the integration from the NNMi console.

The SIM documentation suite describes the SIM features and capabilities in detail. The documentation suite is available for download from the SIM information library, which is available at:

www.hp.com/go/sim

Enabling the HP NNMi–HP SIM Integration

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

- 1 In the NNMi console, open the HP NNMi–HP SIM Integration Configuration form (Integration Module Configuration > HP 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 on page 12.
- 4 Enter the information for connecting to the SIM server. For information about these fields, see SIM Server Connection on page 13.
- 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
 - 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 HP ProLiant device traps, load the cpqhost.mib file, and then load the remaining cpq*.mib files in the SystemsInsightManager directory.
 - For the HP 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 HP NNMi–HP SIM Integration

The HP NNMi–HP SIM integration provides links from the NNMi console to the SIM agent on a device or directly to HP 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 HP NNMi–HP SIM integration adds the following actions to the NNMi console:

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

Changing the HP NNMi–HP SIM Integration Configuration

- 1 In the NNMi console, open the HP NNMi–HP SIM Integration Configuration form (Integration Module Configuration > HP SIM).
- 2 Modify the values as appropriate. For information about the fields on this form, see HP NNMi-HP SIM Integration Configuration Form Reference on page 12.
- 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.



Disabling the HP NNMi-HP SIM Integration

- 1 In the NNMi console, open the HP NNMi–HP SIM Integration Configuration form (Integration Module Configuration > HP 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.



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

Troubleshooting the HP NNMi–HP SIM Integration

SIM Actions Do Not Work

If you have verified the values in the **HP NNMi–HP 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 HP NNMi–HP SIM Integration Configuration form.

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

5 Verify that HP 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 HP 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 step 7 on page 9.

HP NNMi-HP SIM Integration Configuration Form Reference

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



Only NNMi users with the Administrator role can access the HP NNMi–HP SIM Integration Configuration form.

The **HP NNMi–HP 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 HP NNMi– HP SIM Integration Configuration form, and then click Submit.

NNMi Management Server Connection

Table 1 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 nnmofficialfqdn.ovpl -t 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 HP NNMi was installed).
	For SSL connections, use the value of nmsas.server.port.web.https, which is 443 by default.

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Field	Description
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.

Table 1 NNMi Management Server Information (cont'd)

SIM Server Connection

Table 2 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. If HP SIM is configured to use HTTPS, select the HP SIM SSL Enabled check box. This is the default configuration. If HP SIM is configured to use HTTP, clear the HP SIM SSL Enabled check box.
SIM Host	The fully-qualified domain name of the SIM server.
SIM Port	The port for connecting to HP SIM. If you are using the default SIM configuration, use port 50000 (for SSL connections to HP SIM).

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We appreciate your feedback!

If an email client is configured on this system, by default an email window opens when you click *here*.

If no email client is available, copy the information below to a new message in a web mail client, and then send this message to **network-management-doc-feedback@hpe.com**.

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Feedback: