

# HP Network Node Manager i Software

For the Windows<sup>®</sup> and Linux operating systems

Software Version: NNMi 10.00

---

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

Document Release Date: May 2014  
Software Release Date: May 2014



## Legal Notices

### Warranty

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

The information contained herein is subject to change without notice.

### Restricted Rights Legend

Confidential computer software. Valid license from HP required for possession, use or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

### Copyright Notice

© Copyright 2008–2014 Hewlett-Packard Development Company, L.P.

### Trademark Notices

Adobe® is a trademark of Adobe Systems Incorporated.

Intel® is a trademark of Intel Corporation in the U.S. and other countries.

Microsoft® and Windows® are U.S. registered trademarks of Microsoft Corporation.

Oracle and Java are registered trademarks of Oracle and/or its affiliates.

Red Hat® is a registered trademark of Red Hat, Inc. in the United States and other countries.

UNIX® is a registered trademark of The Open Group.

### Oracle Technology — Notice of Restricted Rights

Programs delivered subject to the DOD FAR Supplement are 'commercial computer software' and use, duplication, and disclosure of the programs, including documentation, shall be subject to the licensing restrictions set forth in the applicable Oracle license agreement. Otherwise, programs delivered subject to the Federal Acquisition Regulations are 'restricted computer software' and use, duplication, and disclosure of the programs, including documentation, shall be subject to the restrictions in FAR 52.227-19, Commercial Computer Software-Restricted Rights (June 1987). Oracle America, Inc., 500 Oracle Parkway, Redwood City, CA 94065.

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

### Acknowledgements

This product includes software developed by the Apache Software Foundation.  
(<http://www.apache.org>)

This product includes software developed by the Indiana University Extreme! Lab.  
(<http://www.extreme.indiana.edu>)

## Available Product Documentation

In addition to this guide, the following documentation is available for NNMi:

- *HP Network Node Manager i Software Documentation List*—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.
- *NNMi Installation Guide*—This is an interactive document, and is available on the NNMi product media. See the `nnmi_interactive_installation_en_README.txt` file, located on the product media, for more information.
- *HP Network Node Manager i Software Upgrade Reference*—Available on the HP manuals web site.
- *HP Network Node Manager i Software Release Notes*—Available on the product media and the NNMi management server.
- *HP Network Node Manager i Software System and Device Support Matrix*—Available on the product media and the NNMi management server.
- *HP Network Node Manager iSPI Network Engineering Toolset Planning and Installation Guide*—Available on the NNM iSPI NET diagnostics server product media.

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

**<http://h20230.www2.hp.com/selfsolve/manuals>**

This site requires that you register for an HP Passport and sign in. To register for an HP Passport ID, go to:

**<http://h20229.www2.hp.com/passport-registration.html>**

Or click the **New users - please register** link on the HP Passport sign-in page.

You will also receive updated or new editions if you subscribe to the appropriate product support service. Contact your HP sales representative for details.

## Support

Visit the HP Software Support Online web site at:

**[www.hp.com/go/hpsoftwaresupport](http://www.hp.com/go/hpsoftwaresupport)**

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

HP Software online support provides customer self-solve capabilities. It provides a fast and efficient way to access interactive technical support tools needed to manage your business. As a valued support customer, you can benefit by using the support web site to:

- Search for knowledge documents of interest
- Submit and track support cases and enhancement requests
- Download software patches and associated patch documentation
- Manage support contracts
- Look up HP support contacts
- Review information about available services
- Enter into discussions with other software customers
- Research and register for software training

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:

**<http://h20229.www2.hp.com/passport-registration.html>**

To find more information about access levels, go to:

**[http://h20230.www2.hp.com/new\\_access\\_levels.jsp](http://h20230.www2.hp.com/new_access_levels.jsp)**

*May 2014*



# Contents

HP NNMi–HP SIM Integration .....	10
Value .....	10
Integrated Products .....	10
Documentation .....	10
Enabling the HP NNMi–HP SIM Integration .....	11
Using the HP NNMi–HP SIM Integration .....	12
Changing the HP NNMi–HP SIM Integration Configuration .....	12
Disabling the HP NNMi–HP SIM Integration .....	12
Troubleshooting the HP NNMi–HP SIM Integration .....	13
SIM Actions Do Not Work .....	13
OID Not Found in the MIB Cache Message in Traps .....	13
HP NNMi–HP SIM Integration Configuration Form Reference .....	14
NNMi Management Server Connection .....	14
SIM Server Connection .....	15





# 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 10.00

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](http://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](http://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 14.
- 4 Enter the information for connecting to the SIM server. For information about these fields, see [SIM Server Connection](#) on page 15.
- 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\SystemInsightManager
```
    - *Linux*:
 

```
$NNM_SNMP_MIBS/Vendor/Hewlett-Packard/SystemInsightManager
```
  - 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 `SystemInsightManager` 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 14.
- 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.

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

---

## 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 11.

## 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	<p>The connection protocol specification.</p> <ul style="list-style-type: none"> <li>• If the NNMi console is configured to use HTTPS, select the <b>NNMi SSL Enabled</b> check box. This is the default configuration.</li> <li>• If the NNMi console is configured to use HTTP, clear the <b>NNMi SSL Enabled</b> check box.</li> </ul>
NNMi Host	<p>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 <code>nnmofficialfqdn.ovpl -t</code> command run on the NNMi management server.</p>
NNMi Port	<p>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:</p> <ul style="list-style-type: none"> <li>• <i>Windows:</i> %NnmDataDir%\conf\nnm\props\nms-local.properties</li> <li>• <i>Linux:</i> \$NnmDataDir/conf/nnm/props/nms-local.properties</li> </ul> <p>For non-SSL connections, use the value of <code>nmsas.server.port.web.http</code>, which is 80 or 8004 by default (depending on the presence of another web server when HP NNMi was installed).</p> <p>For SSL connections, use the value of <code>nmsas.server.port.web.https</code>, which is 443 by default.</p>

**Table 1 NNMi Management Server Information (cont'd)**

<b>Field</b>	<b>Description</b>
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 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**

<b>SIM Server Parameter</b>	<b>Description</b>
SIM SSL Enabled	The connection protocol specification for connecting to SIM. <ul style="list-style-type: none"> <li>• If HP SIM is configured to use HTTPS, select the <b>HP SIM SSL Enabled</b> check box. This is the default configuration.</li> <li>• If HP SIM is configured to use HTTP, clear the <b>HP SIM SSL Enabled</b> check box.</li> </ul>
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).





# 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 **ovdoc-nsm@hp.com**.

**Product name and version:** NNMi 10.00

**Document title:** *HP Network Node Manager i Software - HP Systems Insight Manager Integration Guide*

**Feedback:**

