

Installation and Reference guide

HP OpenView Operations Integration for HP Systems Insight Manager

Administrator's Reference for HP OpenView Operations for Unix



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About this guide

This guide discusses the following topics:

- HP Systems Insight Manager
- HP SIM Integration
- Installing HP SIM Integration
- Configuring HP SIM Integration
- HP SIM Integration application and utilities
- Removing HP SIM Integration
- Troubleshooting

Intended audience

This guide is intended for users who are familiar with the following:

- HP Systems Insight Manager (HP SIM)
- HP OpenView Operations for UNIX

Related documentation

In addition to this guide, the following documents are available for this product:

- *HP SIM Integration Release Notes*
- *HP Systems Insight Manager Installation and Configuration Guide*
- *HP Systems Insight Manager User Guide*
- *HP SIM Command Line Interface Reference Guide*
- *Insight Management Agents User Guide*
- *Server Management Software Installation and Configuration Guide*
- *HP OpenView Operations Installation Guide*
- *HP OpenView Operations User Guide*
- *HP OpenView Operations Application Guide*
- *HP OpenView Operations Release Notes*

These and other HP documents can be found on the HP website: <http://www.hp.com/support>

Typographical conventions and symbols

Table 1 lists the typographical conventions used in this guide.

Table 1 Typographical conventions

Convention	Element
Medium blue text: Related documentation	Cross-reference links and e-mail addresses
Medium blue, underlined text (http://www.hp.com)	Website addresses
Bold font	<ul style="list-style-type: none"> • Key names • Text typed into a Graphical User Interface (GUI) element, such as into a box • GUI elements that are clicked or selected, such as menu and list items, buttons, and check boxes
<i>Italic font</i>	Text emphasis
Monospace font	<ul style="list-style-type: none"> • File and directory names • System output • Code • Text typed at the command line
<i>Monospace, italic font</i>	<ul style="list-style-type: none"> • Code variables • Command-line variables
Monospace, bold font	Emphasis of file and directory names, system output, code, and text typed at the command line

△ CAUTION:

Indicates that failure to follow directions can result in damage to equipment or data.

📌 IMPORTANT:

Provides clarifying information or specific instructions.

📌 NOTE:

Provides additional information.

HP technical support

Telephone numbers for worldwide technical support are listed on the HP support website:

<http://www.hp.com/support/>

Collect the following information before calling:

- Technical support registration number (if applicable)
- Product serial numbers
- Product model names and numbers
- Applicable error messages
- Operating system type and revision level
- Detailed, specific questions

For continuous quality improvement, calls may be recorded or monitored.

HP recommends that customers sign up online using the Subscriber's choice website at:

<http://www.hp.com/go/e-updates>

- Subscribing to this service provides you with e-mail updates on the latest product enhancements, newer versions of drivers, and firmware documentation updates, as well as instant access to numerous other product resources.
- After signing up, you can quickly locate your products by selecting **Business support** and then **Storage** under Product Category.

HP-authorized reseller

For the name of your nearest HP-authorized resellers:

- In the United States, call 1-800-345-1518.
- In Canada, call 1-800-263-5868.
- Elsewhere, visit the HP website: <http://www.hp.com>, and click **Contact HP** to find locations and telephone numbers.

Helpful websites

For other product information, see the following HP websites:

- <http://www.hp.com>
- <http://www.hp.com/country/us/eng/prodserv/storage.html>
- <http://www.hp.com/support/>
- <http://www.docs.hp.com>
- <http://www.hp.com/managementsoftware/support>

1 HP Systems Insight Manager

This chapter discusses the following topics:

- [Overview](#)
- [Features](#)
- [Benefits](#)

Overview

HP Systems Insight Manager (HP SIM) is the foundation for the unified server-storage management strategy of HP. It is a multiple operating system, hardware level management product that supports HP ProLiant, Integrity, and HP 9000 servers, as well as HP StorageWorks MSA, EVA and XP arrays, and other third-party arrays. HP SIM provides the basic management features of device discovery and identification, single event view, inventory data collection, and reporting. It easily integrates with other HP management products and plug-ins, such as the ProLiant Essentials, Integrity Essentials, and Storage Essentials.

HP SIM can be extended to provide system management with plug-ins for HP clients, storage, power, and printer products. It uses plug-in applications for rapid deployment, performance management, partition management, and workload management. This enables you to choose the value-added software required to deliver complete life cycle management of your hardware assets.

Features

Following are the key features of HP SIM:

- Delivers fault monitoring, inventory reporting, and configuration management for ProLiant, Integrity, and HP 9000 systems, as well as HP StorageWorks MSA, EVA and XP arrays, and various third party arrays through a web-based GUI or command line.
- Provides base-level management of HP clients and printers. HP SIM can be extended with HP Client Management Software and HP Web JetAdmin for advanced management capabilities.
- Provides notification, and automates response to pre-failure or failure conditions through automated event handling.
- Facilitates secure and scheduled execution of operating system commands, batch files, and custom or off-the-shelf applications across groups of Windows, HP-UX, Linux, and nonstop systems.
- Enables centralized updates of BIOS, drivers, and agents across multiple ProLiant servers with system software version control.
- Enables secure management through Secured Socket Layer (SSL), Secure Shell (SSH), and operating system authentication.

Benefits

Following are the key benefits of HP SIM:

- **Role-based security**
Enables effective delegation of management responsibilities by providing system administrators with granular control over users and management operations.
- **Tools definitions**
Defines tools using simple XML documents that enable you to integrate off-the-shelf or custom tools. These tools can be command-line tools, Web-based tools, or scripts. Access to these integrated tools is governed by role-based security.
- **Data collection and inventory reports**

Performs comprehensive system data collection, and enables you to generate detailed inventory reports for managed systems. Reports can be generated in HTML, XML, or CSV format.

- Snapshot comparisons

Enables you to compare configuration snapshots of up to four different servers or a single server at a time. This functionality enables the system administrator in identifying configuration issues that can cause to system instability. The snapshot comparisons can also be used to save a picture of standard configuration for comparisons with other systems.

- HP Version Control

Downloads the latest BIOS, driver, and agent updates for HP ProLiant servers running on Windows and Linux. It also identifies system running obsolete software, and updates system software across groups of servers. For HP-UX systems, the software distributor is integrated with HP SIM.

For more information about HP Systems Insight Manager, see the HP SIM website:

<http://www.hp.com/go/hpsim>

Insight Management Agents

The HP Insight Management Agents are management tools provided to enhance the management of HP ProLiant and Integrity servers. The Insight Management Agents are part of the ProLiant Support Pack or Integrity Support pack available for download from the HP Software and Drivers downloads. For more information about Insight Management Agents, see the following HP website at:

<http://welcome.hp.com/country/us/en/prodserv/servers.html>

<http://h18013.www1.hp.com/products/servers/management/agents/index.html>

<http://h18013.www1.hp.com/products/servers/management/smartstart/index.html>

2 HP OpenView Operations Integration for HP Systems Insight Manager

This chapter discusses the following topics:

- [Overview](#)
- [Features and functionality](#)

Overview

The HP Systems Insight Manager Integration provides a smart link between HP Systems Insight Manager (HP SIM), Insight Management (IM) Agents, and HP OpenView Operations for Unix (OVOU) - a market leading management solution for network systems, databases, and applications in heterogeneous IT environments. The HP SIM Integration implements features for monitoring and managing the HP SIM and IM Agent services, event forwarding, and event acknowledgement between HP SIM and OVO. It also provides applications to manage some aspects of the functionality of the HP SIM management server and Insight Management Agents. It comprises commands, templates, applications, and groups. The HP SIM Integration can be installed in environments with multiple HP SIM management servers and IM Agent nodes.

Features and functionality

The HP Systems Insight Manager Integration supports the following features on OVOU:

- **Service Discovery**
Discovers the HP SIM services, IM Agent services, and the Insight Manager 7 services.
- **Service/Process Monitoring**
Monitors the availability of the discovered HP SIM service, the IM Agent services, and the Insight Manager 7 service. The service alerts can be communicated to the OVO Service Navigator and the OVO Message Browser.
- **ProLiant and Integrity Server System Monitoring**
Offers application to configure IM Agent SNMP trap destination and templates for IM Agents traps. These templates generate OpenView events for server hardware problems.

 **NOTE:**

If both the default event forwarding and the IM Agent trap templates are deployed, duplicate events are forwarded from each of these applications.

- **Event Forwarding from HP SIM**
Provides applications to configure forwarding of HP SIM events to OVO message browser. Forwarding can be configured to use a default event collection, or any customized collection of HP SIM events. The integration also associates an operator action with each HP SIM event to launch the HP SIM web interface for further investigation.
- **Bi-directional Event Acknowledgement/Clearing on HP SIM**

Can be optionally configured to clear events on HP SIM if the events forwarded from HP SIM to OVO are acknowledged on OVO. When configured, events that are cleared on HP SIM are acknowledged on OVO if they were forwarded from HP SIM and they exist on the OVO active message browser.

- **Application Groups**

Contain applications to assist in the management of HP SIM and IM Agent nodes. Application groups include applications for adding nodes to HP SIM, executing tools on HP SIM managed nodes, launching the HP SIM web interface, and IM Agents System Management Home page, and so on.

- **Template groups**

Contain templates for monitoring the HP SIM and IM Agent services, clearing or acknowledging events, and IM Agents SNMP trap interpretation.

- **Contextual launch to HP SIM System page**

Enables users to initiate contextual launch of the HP SIM Central Management Server (CMS) System page.

- **Web Interface applications**

Provides applications to launch the web interface for HP SIM, IM Agent, and Remote Integrated Lights-Out.

- **Self-Healing Services**

Integrates with HP OpenView Self-Healing Services to provide improved troubleshooting, streamlined problem analysis, and incident reporting, by collecting data and system information relevant to a fault when it occurs.

For more information, see the Self-Healing Services website at:

<http://managementsoftware.hp.com/service/selfheal>

3 Installing HP SIM Integration

This chapter discusses the following topics:

- Prerequisites
- Installing HP SIM Integration
- Verifying installation
- Installed File Locations

Prerequisites

This section discusses the software and hardware requirements for the HP SIM Integration installation. You must read this section and any other documents recommended in this section before installing HP SIM Integration.

Hardware Requirements

For a detailed list of hardware requirements, see the following documents:

- OVO 7.x management server, see the *HP OpenView Operations for Unix Installation Guide*.
- OVO 7.x managed node, see the *HP OpenView Operations for UNIX Administrator's Reference Volume II*.
- OVO 8.x HTTPS managed nodes, see the *HP OpenView Operations HTTPS Agent Concepts and Configuration Guide*.
- OVO 8.x DCE managed nodes, see the *HP OpenView Operations OVO DCE Agent Concepts and Configuration Guide*.

Table 2 lists the disk space requirements for the OVO management server for installing HP SIM Integration.

Table 2 Disk Space Requirements

Product	Operating System	Installation	Runtime Files	Total
OVO Management Server	HP-UX 11.00 HP-UX 11.11 HP-UX 11.23 PA HP-UX 11.23 IA Solaris 8 Solaris 9 Solaris 10	7 MB	1 MB	9 MB
OVO Managed Node	HP-UX 11.00 HP-UX 11.11 HP-UX 11.23 IA/PA RedHat Linux Advanced Server 3.0 (32-bit) RedHat Linux Advanced Server 4.0 (32-bit) SuSE Linux Enterprise Server 8 (32-bit) SuSE Linux Enterprise Server 9 (32-bit)	1 MB	1 MB	2 MB

**NOTE:**

No additional memory (RAM) is required either on the OVO management server or on the managed nodes for HP SIM Integration.

Software Requirements

This section lists the software versions supported by HP SIM Integration.

Before installing the HP SIM Integration, ensure that your system meets the following minimum requirements:

- HP OpenView Operations for HP-UX or Solaris, version A.07.2x or A.08.2x
- Service Discovery Component for HP OpenView SPI, version A.02.10
- HP OpenView Smart Plug-in Self-Healing Information Collector, version A.02.20.000

Table 3 lists the OVO Management Server versions supported by the HP SIM Integration..

Table 3 OVO Management Server Versions

OVO Management Server	Operating Systems	OVO Agent Types
OVOU A.07.2x	HP-UX 11.00 HP-UX 11.11 Solaris 8 Solaris 9	DCE
OVOU A.08.2x	HP-UX 11.11 HP-UX 11.23 IA/PA Solaris 9 Solaris 10	HTTPS DCE

Table 4 lists the HP Insight Management Agent versions supported by HP SIM Integration.

Table 4 HP Insight Management Agent Versions

HP Insight Management Agents	Operating System
HP SmartStart CD v 7.6	Windows 2000 Windows 2003 (32-bit) Windows 2003 (x86 64-bit)

Table 5 lists the HP Systems Insight Manager CMS versions supported by HP SIM Integration.

Table 5 HP Systems Insight Manager CMS Versions

HP Systems Insight Manager CMS	Operating System
HP SIM 5.0 with SP1 (and all subsequent Service Packs)	Windows 2000 Windows 2003 (32-bit) Windows XP Professional, SP2 HP-UX 11.00/11.11 HP-UX 11.23 PA/IA RedHat Linux AS 3/4 (32-bit) SuSE Linux ES 8/9 (32-bit)

Table 6 lists the Insight Manager 7 versions supported by HP SIM Integration.

Table 6 Insight Manager 7 Versions

Insight Manager 7	Operating System
Insight Manager 7 SP2	Windows XP Professional Windows 2000 Windows 2003 (32-bit)

Installing HP SIM Integration

Before you start installing the HP SIM Integration on the OVO management server, ensure that the OVO server meets the installation prerequisites. For more information, see [Prerequisites](#).

Following are the methods you can use to install the HP SIM Integration software bundle on the OVO management server:

- Using `swinstall` command.
- Using **swinstall** GUI on HP-UX.

Using the `swinstall` Command

To install the HP SIM Integration software bundle on the OVO management server, complete the following steps:

1. Log on to the OVO management server as a **root** user.
2. Mount the DVD. For more information, see the *HP OpenView Smart Plug-ins DVD Installation Guide*.
3. Enter the following command to install the HP SIM Integration:

On HP-UX:

```
/usr/sbin/swinstall -s <mount_point>/OV_DEPOT/11.0HPUX.sdtape HPSIMInt
```

On Solaris:

```
/usr/sbin/swinstall -s <mount_point>/OV_DEPOT/Solaris.sdtape HPSIMInt
```

NOTE:

The `swinstall` command installs the HP SIM Integration software bundle from the depot and performs the basic configuration. The software bundle contains the HP SIM Integration software, configuration files, and the documentation files.

4. Check the `/var/adm/sw/swagent.log` log file for any error.

Using `swinstall` GUI on HP-UX

To install the HP SIM Integration software bundle on the OVO management server, complete the following steps:

1. Log on to the OVO management server as a **root** user.
2. Mount the DVD by using the software depot file `<mount_point>/OV_DEPOT/11.0 HP-UX`. For more information mounting the DVD, see the *HP OpenView Smart Plug-ins DVD*.
3. Ensure that the **DISPLAY** environment variable is set to the appropriate node name.
4. Enter the following command to install the HP SIM Integration, and select the HP SIM Integration bundle

```
On HP-UX: /usr/sbin/swinstall -s <mount_point>/OV_DEPOT/  
11.0HPUX.sdtape
```

The SD Install - Software Selection window displays.

[Figure 1](#) shows SD Install - Software Selection window.

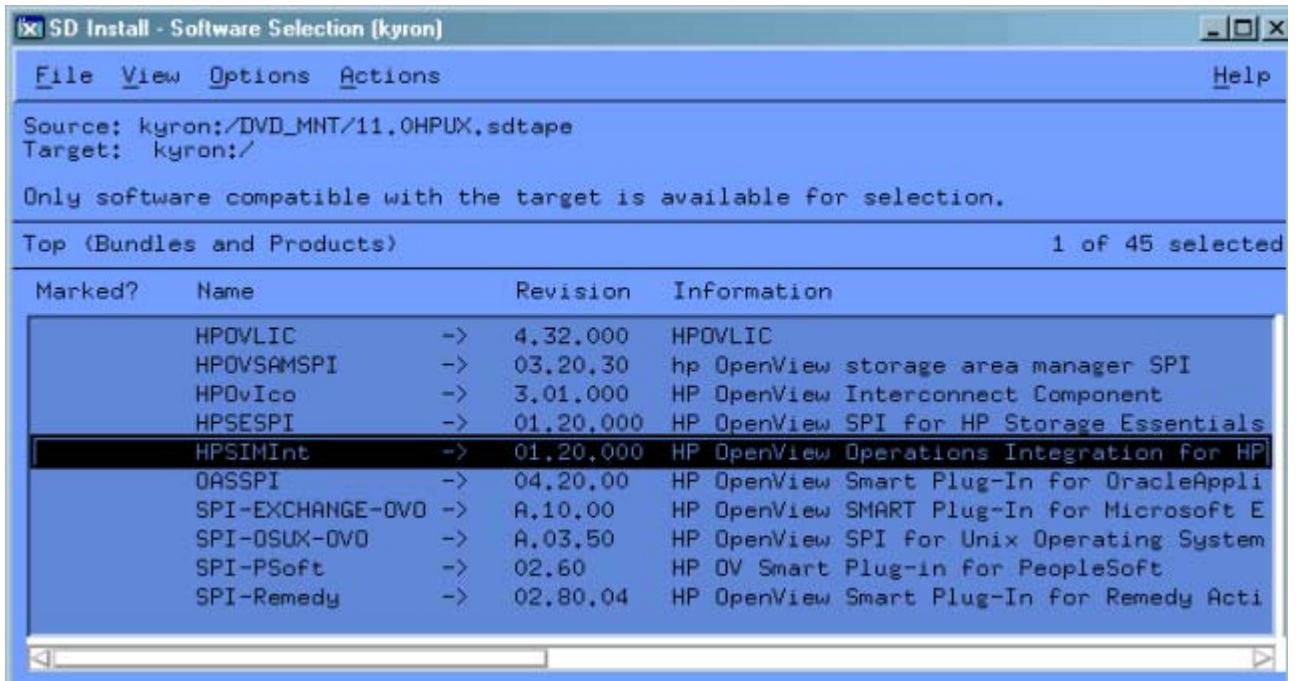


Figure 1 SD Install - Software Selection

5. From the SD Install - Software Selection window, select the **HPSIMInt** bundle.
6. Select **Actions > Install**. The analysis part of the installation starts, which checks whether the system meets the installation prerequisites.
7. Click **Logfile** in the Install Analysis window to check for errors in the analysis phase of the installation.

You can also check the following log file for correcting any error:

`/var/adm/sw/swagent.log`.

 **NOTE:**

If the analysis phase fails, follow the recommendations discussed in the following log file:

`/var/adm/sw/swagent.log` and re-execute the analysis.

8. After you complete the installation analysis without errors, click **OK** in the Install Analysis window to install the selected software after the analysis phase is completed without error. The message `Status=Complete` is displayed when the analysis phase is completed successfully.

9. Click **Logfile** to verify that the installation phase is complete without errors.

Check the following log file to verify the installation phase is complete without error:

`/var/adm/sw/swagent.log`

 **NOTE:**

If the installation execution fails, follow the recommendations discussed in the following log file and reinstall HP SIM Integration:

`/var/adm/sw/swagent.log`

10. Click **Done** in the Install window, to complete the installation.

**NOTE:**

For more information on installing HP OpenView Smart Plug-ins, see the *HP OpenView Smart Plug-ins DVD Installation Guide*.

Verifying Installation

To verify whether HP SIM Integration is installed successfully on the OVO management server, complete the following steps:

1. At the command prompt, enter the following command:

```
/usr/sbin/swlist HPSIMInt
```

The command returns:

```
HPSIMInt      01.20.000  HP OpenView Operations Integration for HP Systems Insight Manager
HPSIMInt.HPSIMInt-CONF 01.20.000  HP SIM Integration configuration files
HPSIMInt.HPSIMInt-DOC  01.20.000  HP SIM Integration documentation
```

[Table 7](#) describes the filesets contained in the HP SIM Integration product bundle and file sets.

Table 7 Filesets in the Product Bundle

SD Product	SD Filesets	Description
HPSIMInt		Contains executables, scripts files to execute the HP SIM Integration for HPUX and Solaris.
	HPSIMInt-CONF	Contains OVO GUI integration executables, templates, monitor and application scripts for HP SIM Integration.
	HPSIMInt-DOC	Contains HP SIM Integration documentation.

2. In the OVO server, open appropriate windows and check whether the elements listed in [Table 8](#) are present.

[Table 8](#) lists the HP SIM Integration elements on the OVO Management Server server.

Table 8 HP SIM Integration Elements

Window	Element
Node Group Bank	HP SIM CMS-Unix HP SIM CMS-Win IM Agents-Win
Application Bank	HP SIM Integration <ul style="list-style-type: none"> • HP Systems Insight Manager-Unix • HP Systems Insight Manager-Win • HPSIMInt Utils • Insight Management Agents • Insight Manager 7
Message Group Bank	HPSIMInt-IMAagents HPSIMInt-Systems_Insight_Manager HPSIMInt-Insight_Manager
Message Source Templates	HP SIM Integration <ul style="list-style-type: none"> • HP SIM CMS-Unix • HP SIM CMS-Win • HP SIM Event Acknowledging • HPSIMInt Service Discovery • IM Agents-Win • Insight Manager 7
User Profile Bank	HP SIM Integration Admin
User Bank	hpsimint_op

3. On the OVO GUI, check the assignment of template groups to the HP SIM Integration node groups. [Table 9](#) lists the assignment of the template groups to the node groups.

Table 9 Assignment of Template groups to Node groups

Node Groups	Template Groups
HP SIM CMS-Unix	HP SIM Event Forwarding-Unix
HP SIM CMS-Unix	HP SIM Service Monitoring-Unix
HP SIM CMS-Win	HP SIM Event Forwarding-Win
HP SIM CMS-Win	HP SIM Service Monitoring-Win
IM Agents-Win	IM Agents-Win
IM Agents-Win	Insight Manager 7

4. Check the following log files for more information on installation problems:

```
/var/adm/sw/swagent.log
/var/adm/sw/swinstall.log
```

 **NOTE:**

If any of the elements listed in [Table 8](#) are not present, you must reinstall HP SIM Integration.
If any of the assignments listed in [Table 9](#) are not present, you must manually assign the node groups to the template groups from **Action > Agents > Assign Templates**.

Installed File Locations

The installation process copies the necessary files on the OVO management server.

Table 10 lists the files and directories that are created during the installation process of HP SIM Integration on the OVO management server.

Table 10 File Locations on the OVO Management Server

Component	Location
Binaries	/opt/OV/lbin/HPSIMInt
OVO Server Configuration	/var/opt/OV/share/tmp/OpC_appl/HPSIMInt
OpenView Local Registration File (LRF)	/etc/opt/OV/share/lrf/hpsim_ack.lrf
Icon Files for Applications	/etc/opt/OV/share/bitmaps/C/software
Service Discovery Configuration File for Unix	/var/opt/OV/conf/SPISvcDisc/HPSIMInt_HPSIM-Unix_DiscConf.sh
Service Discovery Configuration File for Windows	/var/opt/OV/conf/SPISvcDisc/HPSIMInt_HPSIM-Win_DiscConf.sh
Service Discovery Configuration file for IM Agents for Windows	/var/opt/OV/conf/SPISvcDisc/HPSIMInt_IMAgents-Win_DiscConf.sh
Daemon Binary	/opt/OV/bin/OpC/HPSIMIntAck
Icon Files for Service Elements	/opt/OV/www/htdocs/ito_op/images
Application Icon Registration File	/etc/opt/OV/share/symbols/C/Software/Software_HPSIMInt
Documentation Files	/opt/OV/doc/C/HPSIMInt

Table 11 lists the directories for HP SIM Integration components that are deployed to the DCE managed nodes.

Table 11 File Locations on the OVO Managed DCE Nodes

Operating System	Installed Location
HP-UX, Linux	/var/opt/OV/bin/OpC/cmds
Microsoft Windows	\usr\OV\bin\OpC\cmds

Table 12 lists the directories for HP SIM Integration components that are deployed to the HTTPS managed nodes.

Table 12 File Locations for the OVO Managed HTTPS Nodes

Operating System	Installed Location
HP-UX, Linux	/var/opt/OV/bin/instrumentation
Microsoft Windows	%OvInstallDir%\data\bin\instrumentation



NOTE:

The HP SIM Integration commands scripts are copied in to these paths when the HP SIM Integration commands are deployed to the managed nodes.

4 Configuring HP SIM Integration

This chapter discusses the following topics:

- Overview
- HP SIM Integration Functions
- Installing the OVO Agent on Nodes
- Assigning HP SIM Integration User Responsibilities
- Assigning Nodes to the HP SIM Integration Node Groups
- Distributing Commands on the HP SIM or IM Agent Nodes
- Deploying Templates on the HP SIM Integration Nodes
- Configuring the OVO Agent for Non-root User
- Obtaining HP Systems Insight Manager CMS Credentials
- Setting Up Service Discovery
- Configuring the HP SIM Integration to Forward HP SIM Events
- Configuring Bi-directional Event Acknowledgement/Clearing
- Re-configuring HP SIM Integration to Forward HP SIM Events

Overview

This section provides a brief overview of the steps to configure all features in the HP SIM Integration. This section can be used as a checklist for HP SIM Integration configuration tasks.

1. Install OVO agents on all nodes.
2. Modify the user profile to provide authorization for all the HP SIM Integration groups.
3. Deploy commands to each HP SIM and IM Agent node.
4. Deploy the following templates on the OVOU management server:
 - HP SIM Integration Event Acknowledging
 - HP SIM Integration Service Discovery-Unix
 - HP SIM Integration Service Discovery-Win
5. Add nodes to the appropriate node groups.
6. Deploy templates to the HP SIM Integration node groups.
7. Run the **Get HP SIM Credentials** application on each HP SIM CMS node.
8. Run the appropriate Service Discovery application on the HP SIM Integration node groups.
9. Run applications to configure event forwarding.
10. Configure bi-directional event clearing/acknowledging.

Using the HP SIM Integration Functions

Configuring the HP SIM Integration enables the following functionality:

- Service discovery
- Service monitoring
- Forwarding and interpreting IM agent SNMP traps
- Event forwarding from HP SIM to OVO
- Event acknowledgement on OVO when corresponding events are cleared on HP SIM
- Event clearing on HP SIM when corresponding events are acknowledged on the OVO message browser

Installing the OVO Agent on Nodes

The first step of configuration of the HP SIM Integration is to install the OVO agent on all the nodes where HP SIM and/or IM are installed.

Before starting the OVO agent installation, ensure that the system on which you want to install the OVO agent meets the installation requirements mentioned in the [Prerequisites](#) chapter.

You can install the OVO agent on a managed node by various methods.

For more information on the various installation methods, see the *HP OpenView Operations for Unix Installation Guide* and also manuals listed in the [Prerequisites](#) section.

Assigning HP SIM Integration User Responsibilities

With HP OpenView Operations, user responsibilities can be assigned by means of user profiles, or by individually assigning responsibilities by modifying the user definition. The installation of HP SIM Integration adds the user profile **HP SIM Integration Admin** in the User Profile Bank and adds the user **hpsimint_op** to the User Bank.

To work with the HP SIM Integration, you must either log in as the **hpsimint_op** user, or assign the **HP SIM Integration Admin** profile to the user you are logged in as, or modify your user to give authorization for the HP SIM Integration applications and assign responsibilities for the HP SIM Integration message groups.

Figure 2 shows the Modify User and Responsibilities for Operator window.

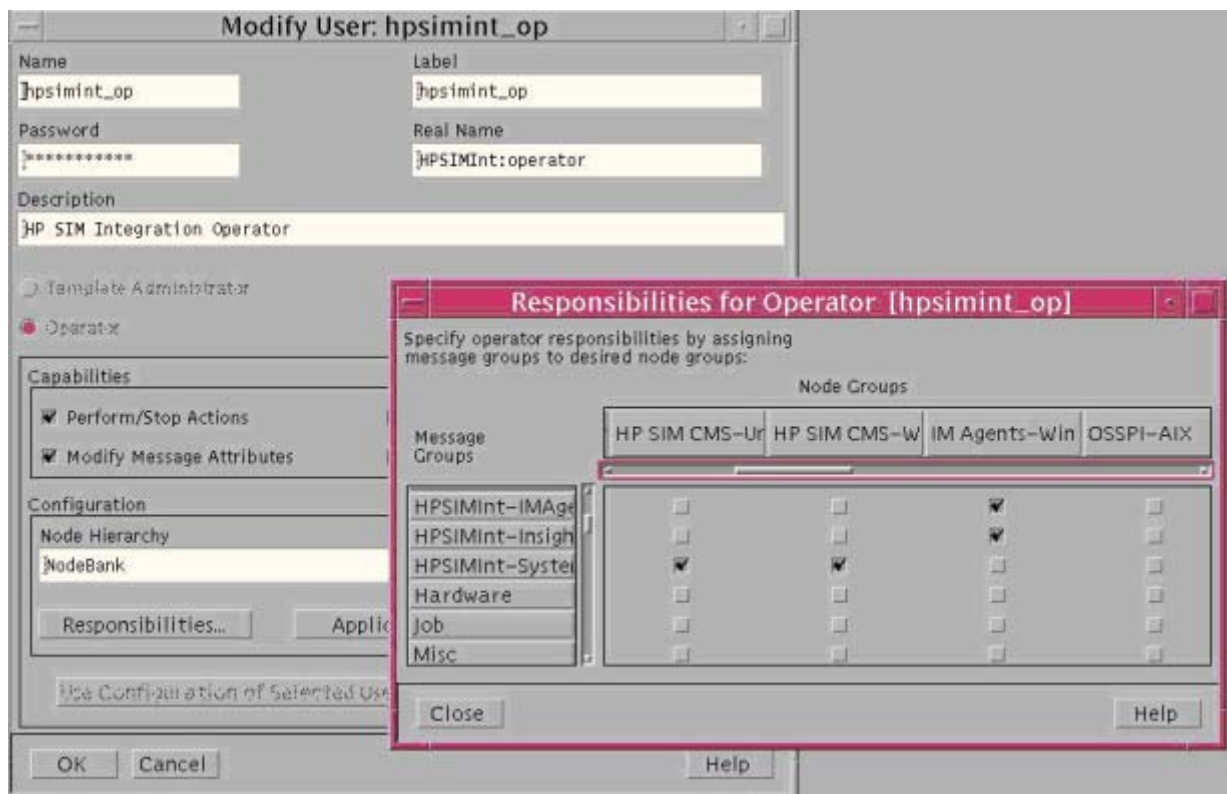


Figure 2 Modify User and Responsibilities for Operator

Figure 3 shows Copy of User Profile Hierarchy window.

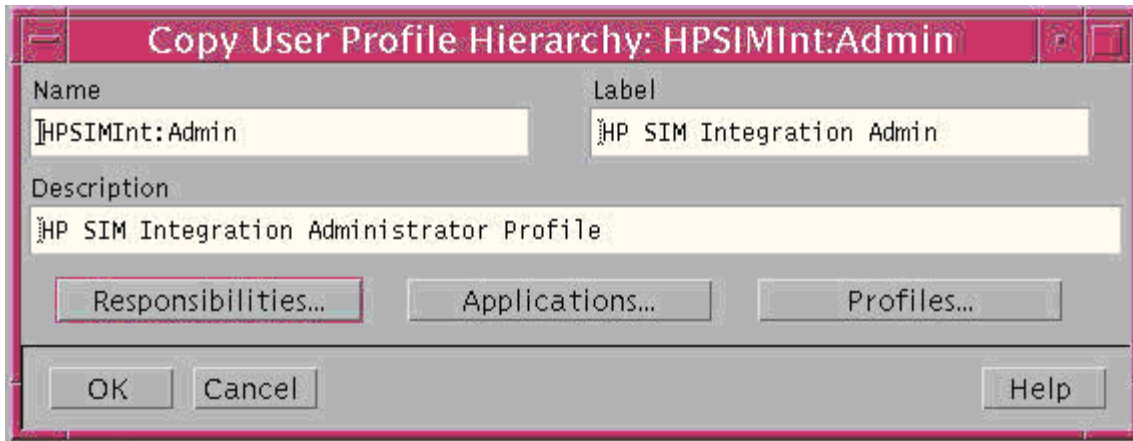


Figure 3 Copy of User Profile Hierarchy

The **HP SIM Integration Admin** user template authorizes a user for the following functions:

- Message browsing of the HPSIMInt-Systems_Insight_Manager, HPSIMInt-Insight_Manager, and HPSIMInt-IMAagents message groups.
- Execution rights to any application in the HP SIM Integration application groups.

To assign the profile to an OVO user, complete the following steps:

1. Open **OVO User Bank** and **OVO User Profile Bank**.
2. Right-click user, and select **Modify...** The Modify User window displays.
3. Click **Profiles...** The Profiles of User window displays.

[Figure 4](#) shows the profiles of user window.

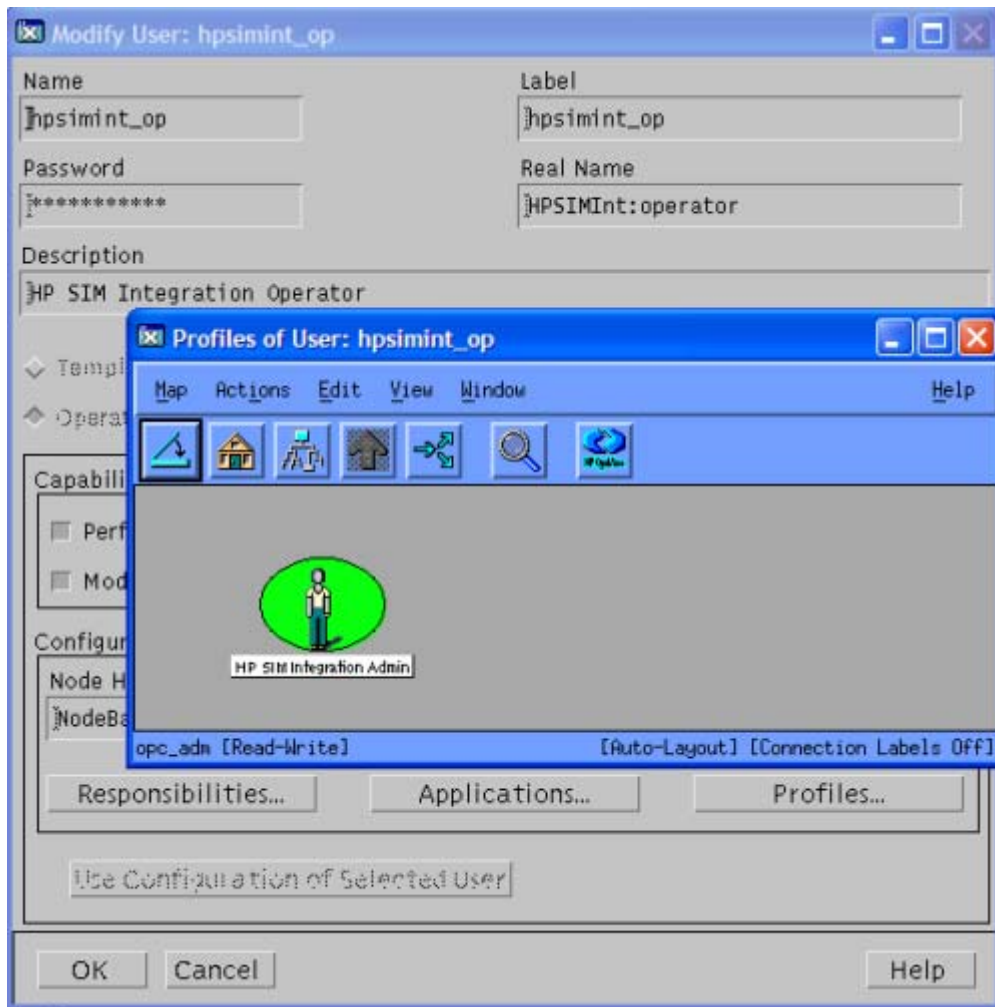


Figure 4 Assigning profile

4. Drag and drop the **HP SIM Integration Admin** from **OVO User Profile Bank** to the **Profiles of User** window.
5. Click **OK** in the **Modify User** window.



NOTE:

For more information on assigning user responsibilities, see the *HP OpenView Operations for Unix Concepts Guide*.

Assigning Nodes to the HP SIM Integration Node Groups

HP SIM Integration automatically creates following node groups with the appropriate template groups already assigned:

- HP SIM CMS-Win
- HP SIM CMS-Unix
- IM Agents-Win

To add a managed node to the HP SIM CMS node group, complete the following steps:

1. Open the OVO Node Bank and the Node Group Bank windows.
2. Drag a node from the OVO Node Bank window, and drop it in to the **HP SIM CMS-Unix** or the **HP SIM CMS-Win** (depending on your node's operating system) OVO Node Group Bank window.

You can also open the desired HP SIM Integration node group, drag nodes from the Node Bank, and drop them in to the desired HP SIM Integration Node Group window.

Figure 5 Node added to the HP SIM CMS-Win node group.

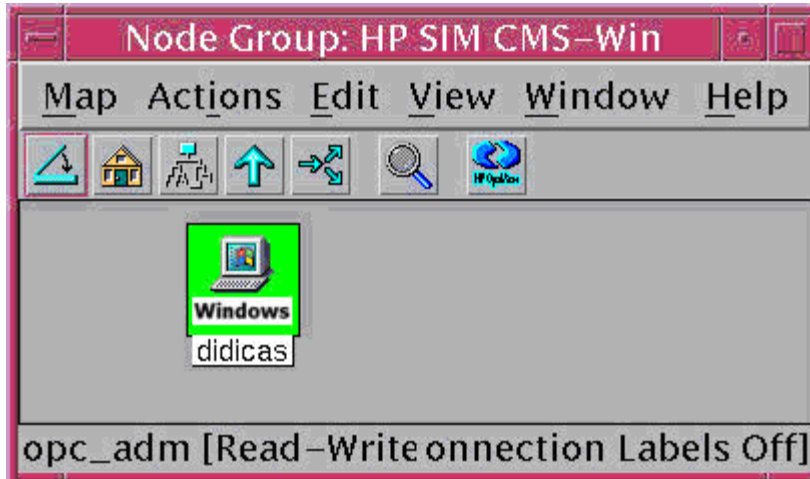


Figure 5 Node added to the HP SIM CMS-Win node group

Adding IM Agent Node to IM Agent-Win Node Group

IMPORTANT:

Only Windows installations of the IM Agents are supported by the HP SIM Integration.

To add the IM Agent managed nodes to the **IM Agent-Win** node group, complete the following steps:

1. Open the OVO Node Bank and the OVO Node Group Bank windows.
2. Double-click **IM Agent-Win**. The IM Agent-Win window displays.
3. Drag and drop a node from the OVO Node Group to the **IM Agent-Win** node group.

Figure 6 shows the node added to the IM Agent-Win node group.

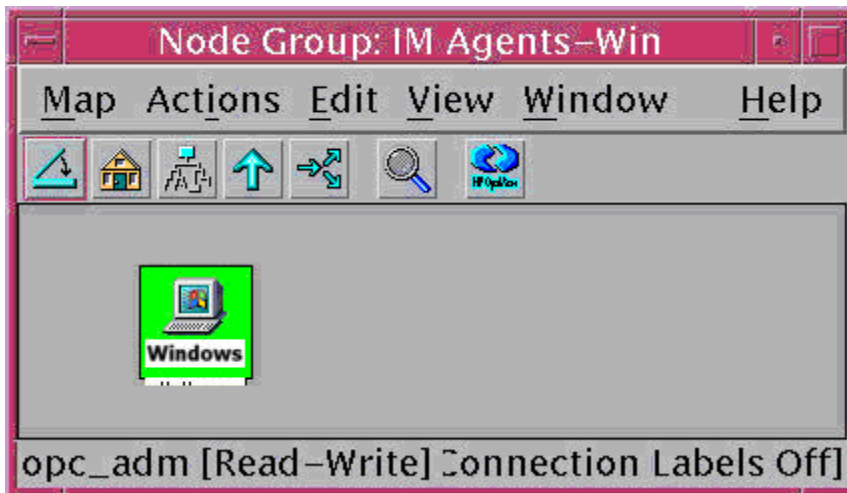


Figure 6 Node added to the IM Agent-Win node group

Distributing Commands on the HP SIM or IM Agent Nodes

To distribute commands on each HP SIM or IM Agent node, select the appropriate node from the Node Bank and, complete the following steps:

1. Select **Actions** -> **Agents** -> **Install / Update SW & Config**. The Install / Update OVO Software and Configuration window displays.

Figure 7 shows Install / Update OVO Software and Configuration window

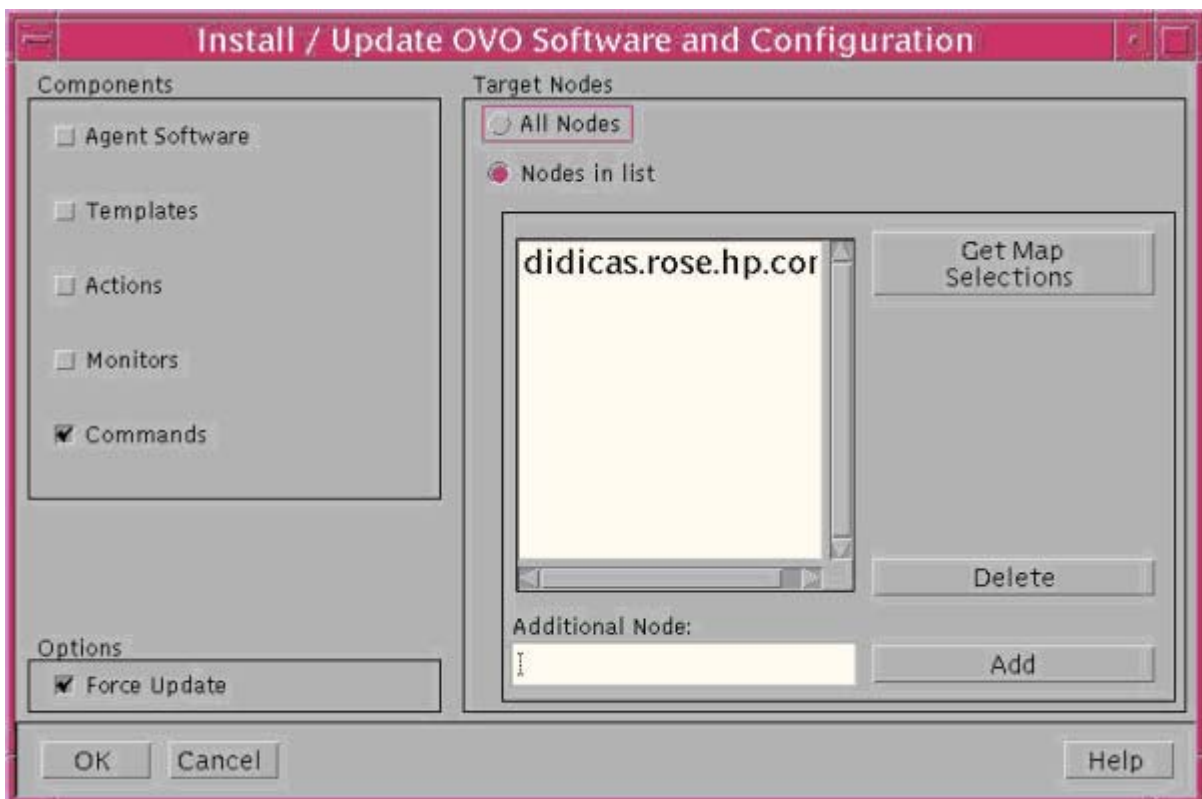


Figure 7 Installing commands on a node

2. In the Install / Update OVO Software and Configuration window, select **Commands**.
3. Select **Force Update**.

Upon completion of commands deployment, the following message displays in the Message Browser for each managed (HP SE CMS and CIM Extensions) node:

The following configuration information was successfully distributed: Commands

 **NOTE:**

The above message displays in the active message browser when the:

- Node is assigned to the appropriate HP SIM Integration node group
- User must have privileges for the OpC message group

The HP SIM Integration commands are now installed on the selected managed node(s).

Configuring the OVO Agent for a Non-root User

 **NOTE:**

For information on configuring the OVO Agent to run as an alternative user, see the *HP OpenView Operations [HTTPS] Agent Concepts and Configuration Guide*.

To configure the OVO agent for a non-root user, complete the following steps.

1. Log on to the managed node as a **root** user, and open a terminal window.
2. Open the following instrumentation directory for the HTTPS node:
`cd /var/opt/OV/bin/instrumentation`
3. Enter the following command at the command prompt to generate the file `HPSIMInt.su`:
`./HPSIMInt_perl HPSIMInt_root.pl`

The following message displays on successful execution of the command:

The script has completed successfully.

Providing Access to HP SIM Integration Applications

To provide access to the HP SIM Integration applications complete the following steps:

1. Log on to the managed node as a **root** user, and open a terminal window.
2. Open the following file:
`/etc/HPSIMInt.su`
3. Edit the file by uncommenting or by adding the following lines:
`root:/opt/mx/bin/mxstart`
`root:/opt/mx/bin/mxstop`
This enables a non-root user to start or stop HP SIM services.
`root:*`
This enables a non-root user to execute **Get HP SIM Nodes**, **Add Nodes to HP SIM**, **Get HP SIM Tool Status**, and **Get HP SIM Credentials** applications.

Obtaining HP Systems Insight Manager CMS Credentials

To activate the functionality provided with the HP SIM Integration, you must first enter the HP SIM credentials for each HP SIM management server. The credentials entered must be that of an HP SIM user having full configuration rights and authorization for all tools, all managed nodes and the CMS. This step is required only for the HP SIM CMS nodes.

Table 13 lists the HP SIM Integration components that require valid HP SIM login credentials.

Table 13 HP SIM Integration Components requiring HP SIM Integration credentials

Applications	Function
Create Events Task	Event clearing from OVOU to HP SIM
Fwd Cleared Imp Events	
Fwd Imp Events	
Remove Events Task	
Remove Query	
Stop Fwding Cleared Imp Events	
Stop Fwding Imp Events	

To enter HP SIM CMS Credentials, complete the following steps:

1. From the OVO Application Bank window, open **HP SIM Integration > HPSIMInt Utils**. The **HPSIMInt Utils** Application Group window displays.

Figure 8 shows the HPSIMInt Utils Application Group.

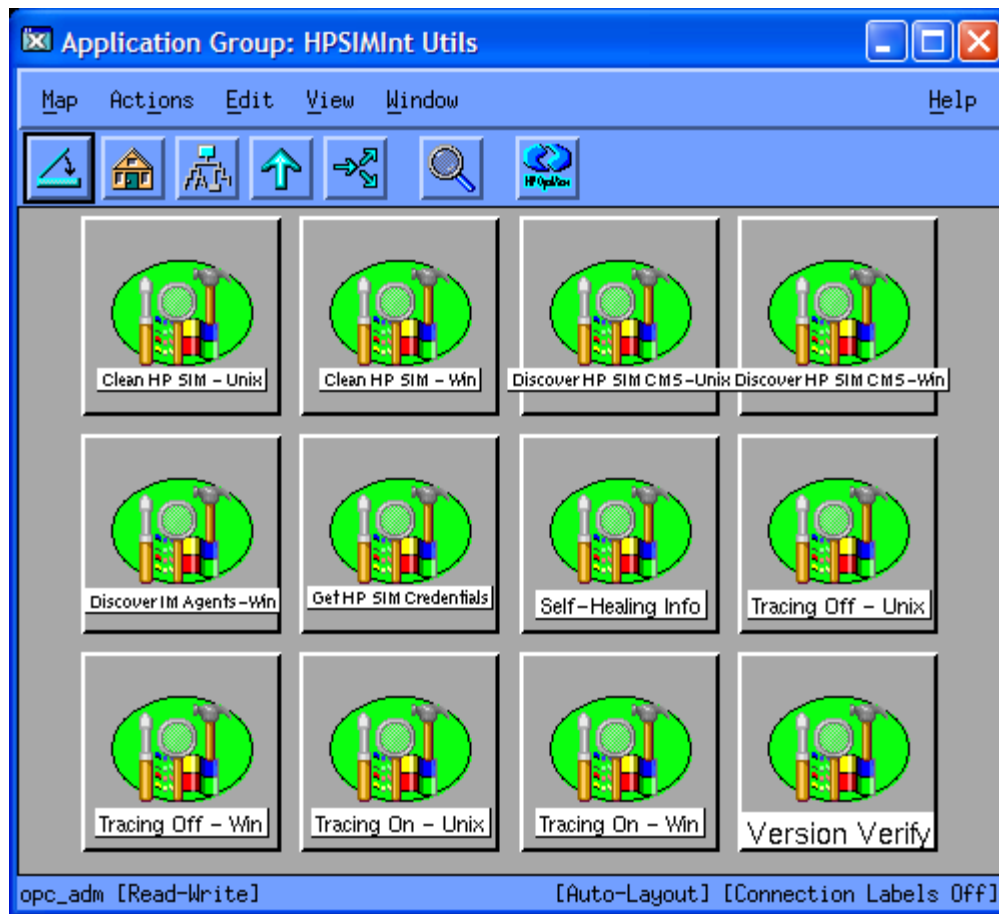


Figure 8 HPSIMInt Utils Application Group

2. Drag the HP SIM CMS node from the Node Bank, and drop it on the **Get HP SIM Credentials** application.

The terminal window displays.

The following message displays if the selected node is HP SIM CMS on Windows:

Enter the HP Systems Insight Manager DOMAIN\username:

The following message displays the following message if the selected node is HP SIM CMS on Unix:

- Enter the HP Systems Insight Manager username:
3. At the prompt, enter the user name for HP SIM on this node and press **Enter**.

 **NOTE:**

HP SIM usercode must have privileges to add, remove, and modify tasks and queries.

The following message displays:

Enter the HP Systems Insight Manager password:

4. At the prompt, enter the HP SIM password and press **Enter**.

The following message displays.

Re-enter password:

5. Re-enter the password to confirm.

The application attempts to verify the user name and password. On success, you are prompted to press **Return** to exit.

If the credentials entered are not accepted by HP SIM, the following message is displayed:

Failed to validate the HP SIM CMS credentials. Possible causes could be:

1. HP SIM CMS is not installed
2. HP SIM CMS service is not running
3. HP SIM CMS credentials incorrect

Press return to exit.

6. Press **Enter** to close the terminal window.

 **CAUTION:**

Event forwarding and task creation do not function correctly if the user name and password are incorrect. If you do not know the user name and password, contact your system administrator.

 **NOTE:**

After successful execution, the `hpsimcms.conf` file is created on the HP SIM CMS node.

Setting Up Service Discovery

You can initiate the discovery process on the node managed by HP SIM CMS or IM Agent node by executing **Discover HP SIM CMS-Win** or **Discover HP SIM CMS-Unix** or **Discover IM Agents-Win** from HPSIMInt Utils application group on the node.

Running the service discovery application discovers the following services and updates the OVO service views:

- HP SIM
- Foundation agents
- NIC agents
- Server agents
- Storage agents
- Version control agent
- Remote Integrated Lights-Out (RiLO) Web Interface

NOTE:

Remote Insight Lights-Out (RILO) - RILO is an optional feature. It is discovered only if it is present on the system. You must have a Remote Insight Board or the Integrated Lights-Out Advanced on the system.

Figure 9 shows the Insight Management Agent service view.

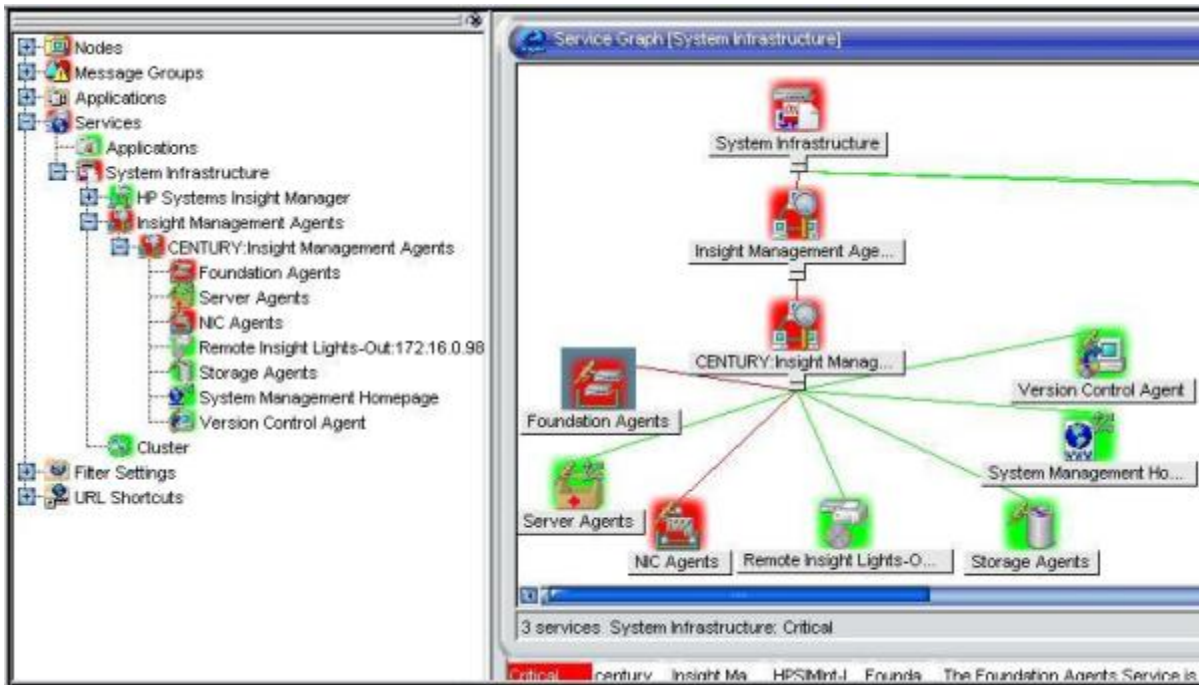


Figure 9 Insight Management Agent Service View

Figure 10 shows the HP Systems Insight Manager Service View.

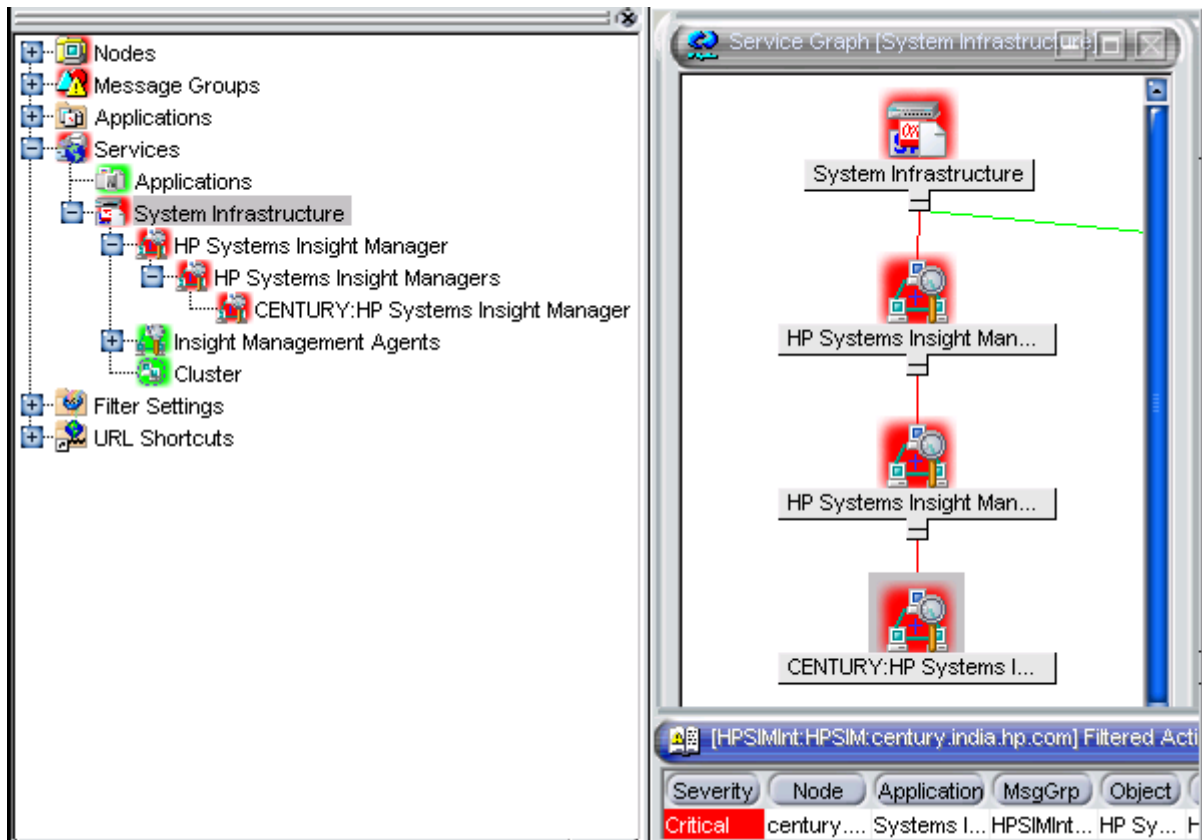


Figure 10 HP Systems Insight Manager Service View

To run the Service Discovery applications, complete the following steps:

1. Open the application group **HP SIM Integration > HPSIMInt Utils**.
2. Run **Discover HP SIM CMS–Unix** or **Discover HP SIM CMS–Win** application on the appropriate HP SIM CMS node group.
3. Run the **Discover IM Agents–Win** application on the **IM Agents–Win** node group.

Installing HP SIM Integration Service Discovery Templates on the OVOU Management Server

To deploy HP SIM Integration Service Discovery templates, complete the following steps:

1. Select OVO management server node in Node Bank window.
2. Select **Actions -> Agents -> Assign Templates...**. The Define Configuration window displays showing templates assigned to this node.
3. Click **Add**. The Add Configuration window displays.
4. Click **Open Template Window**. The Message Source Templates window displays.
5. Select **HP SIM Integration > HPSIMInt Service Discovery** template from the Message Source Templates window.
6. Return to the **Add Configuration** window.
7. Click **Get Template Selections**. The **Group HPSIMInt Service Discovery** group displays on the Templates pane.
8. Click **OK** in the Add Configuration window.

In the Define Configuration window the **Group HPSIMInt Service Discovery** template is now shown assigned to the OVO server.

Figure 11 shows HPSIMInt Service Discovery template group assigned to OVO server in the Define Configuration window.

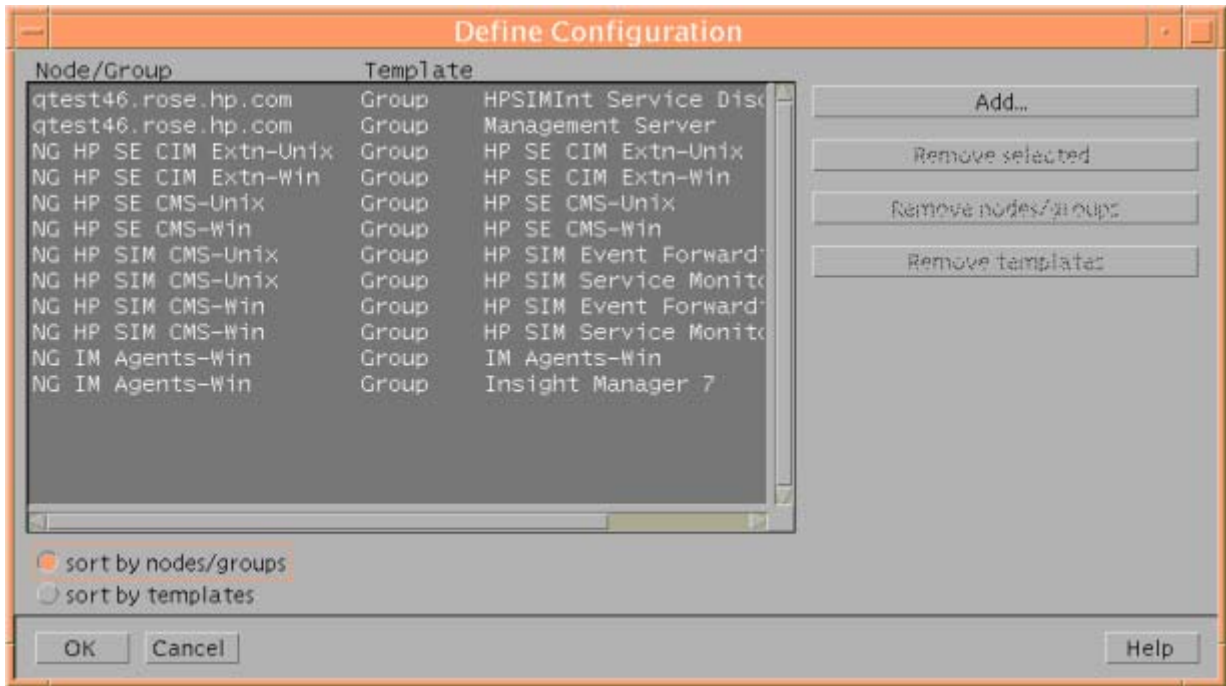


Figure 11 Define Configuration window

9. Click **OK** in the Define Configuration window.
10. Select the OVO server node from the Node Bank.
11. Click **Action > Agents > Install / Update OVO Software and Configuration**. The Install / Update OVO Software and Configuration window displays.
12. From the Install / Update OVO Software and Configuration window, select **Templates**.
13. Select **Force Update**, to ensure that the modifications are distributed.
14. Click **OK**, to distribute the templates to the OVO server.
15. Open the message browser of the node, and wait for the following message:
The following configuration information was successfully distributed: Template

NOTE:

By default, the service discovery templates run every night. Modify the templates if you want the service discovery to run at a different time.

You may schedule service discovery using the HP SIM Integration service discovery templates to run periodically. To achieve this, after [Assigning Nodes to the HP SIM Integration Node Groups](#), deploy the HP SIM Integration templates in the **HPSIMInt Service Discovery** template group to the OVO server node. By default, these templates run service discovery on the nodes in the corresponding HP SIM Integration node groups every night. Modify the service discovery templates if you want service discovery to be run at some different interval.

Configuring the HP SIM Integration to Forward HP SIM Events

To forward HP SIM Events, complete the following steps:

1. Start the Event Listener.
2. Configure the default query and task for event forwarding.
You can also configure a custom query and task for event forwarding.

Starting Event Listener on HP SIM Management Server

The Start Event Listener application in both the **HP Systems Insight Manager–Win** and **HP Systems Insight Manager–Unix** application groups starts the HP SIM Event Listener on port 54321 by default. If you want to select another port, modify the **Start Event Listener** application in the application group to supply a different port number in the `-port` parameter.

To start the HP SIM Integration Event Listener on each HP SIM Server running on Unix or Windows, complete the following steps:

1. Open the **HP Systems Insight Manager–Unix** or **HP Systems Insight Manager–Win** application group, depending on the operating system of the node your HP SIM management server is running on.
2. Right-click **Start Event Listener** application, and select **Modify** to edit the port number in the **Additional Parameters** field.

The parameter is `-port 54321` where: 54321 is the default port number of the Event Listener. Change this value if the TCP port 54321 is not available or if you want to configure it on a different port.

3. Click **OK**.
4. Drag a node from **HP SIM CMS–Unix** or **HP SIM CMS–Win** node group, and drop it in the **Start Event Listener** application. An Output window opens displaying the status of the application.

Figure 12 shows the Output of Start Event Listener application.

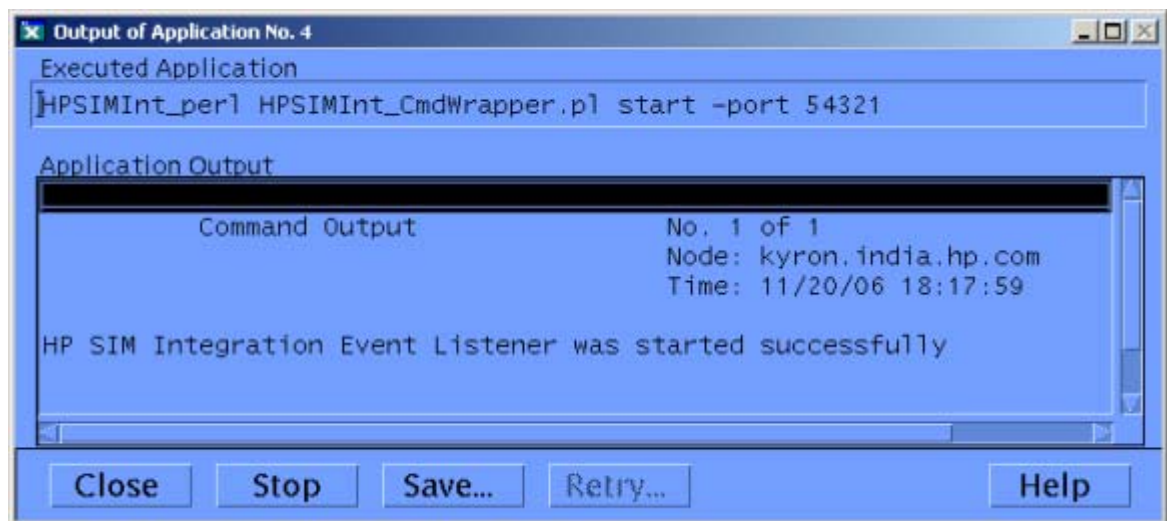


Figure 12 Output of Start Event Listener Application

Configuring Event Forwarding from HP SIM to OVOU - Default

To forward events from HP SIM to OVO, you must create an event query and the corresponding task on the HP SIM management server. The default event forwarding task forwards events of severity Critical and Major.

To configure the default event forwarding, run the **Fwd Imp Events** application from the **HP Systems Insight Manager - Win** or **HP Systems Insight Manager - Unix** application group on the HP SIM CMS node.

Configuring Event Forwarding from HP SIM to OVOU - Custom

If the default event query and task do not meet your needs, you can skip that step and create a custom query and task in addition to the default query and task.

△ **CAUTION:**

Creating a user-defined query and task for event forwarding may result in duplicate copies of HP SIM events being received on the OVO management server.

To create an event query through the HP SIM web interface, complete the following steps:

1. Create an event query on HP SIM to forward events to OVO.
 - a. Log on to the HP SIM management console.
 - b. Click **Customize** in the **Systems and Events** panel. The **Customize Collections** page displays.
 - c. In the **Show** drop-down list, select **Events**. All available event collections displays.
 - d. Click **New**. The **New Collection** section displays.
 - e. Select **Choose members by attributes**.
The **New Collection** section displays.
 - f. Enter the criteria of your requirement to forward events to OVO.
 - g. Click **Save As** to save the collection. The **Save Collection As** section displays.
 - h. In the **Name** field, enter a name for the collection.
 - i. Select **Private** or **Shared** folder to select the location for saving the collection.
 - j. Click **OK** to save the collection.

 **NOTE:**

The same event collection can be customized using the HP SIM command line interface `mxquery` command.

For more information, see the *HP SIM Command Line Interface Reference Guide*.

Figure 13 shows the HP Systems Insight Manager Customize Collections window.

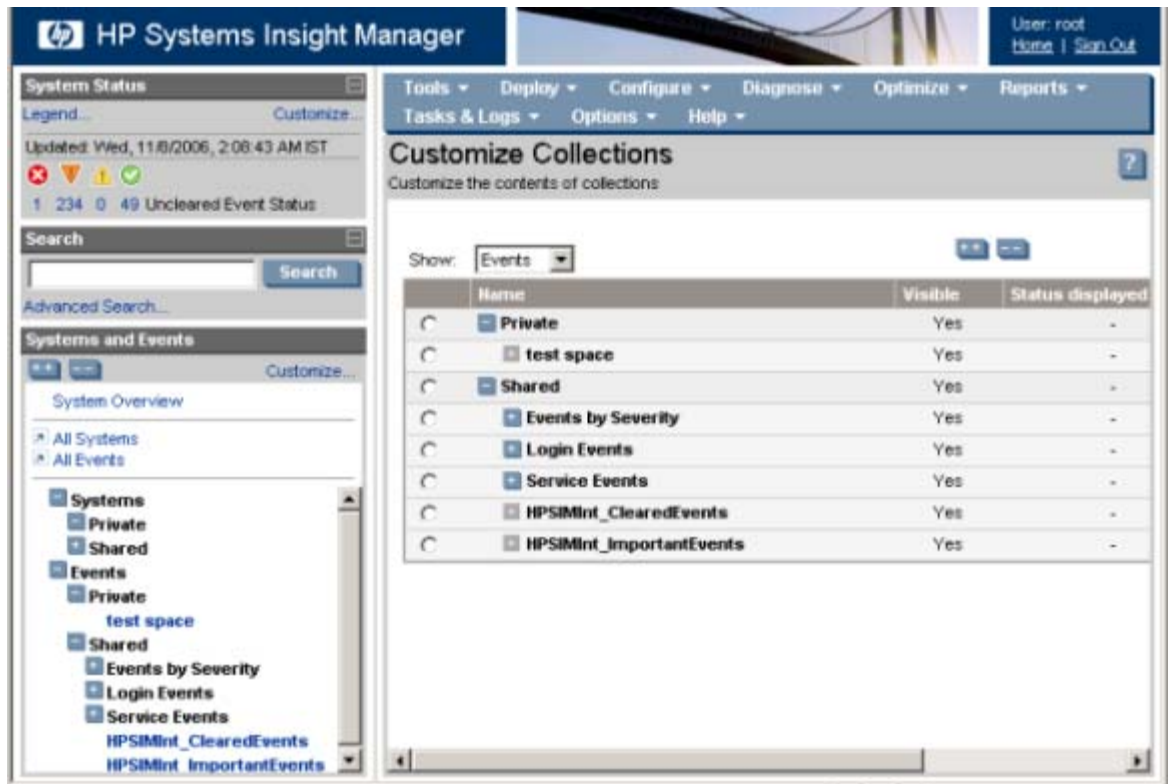


Figure 13 HP Systems Insight Manager Customize Collections

2. Create a task on HP Systems Insight Manager to forward events to OVO.
To create a task on HP SIM CMS to forward events to OVO, complete the following steps:
 - a. From the **HP Systems Insight Manager - Win** or **HP Systems Insight Manager - Unix** application group, right-click **Create Events Task** application and select **Modify**. The Modify OVO application window displays.
Figure 14 shows the Modify OVO Application window.

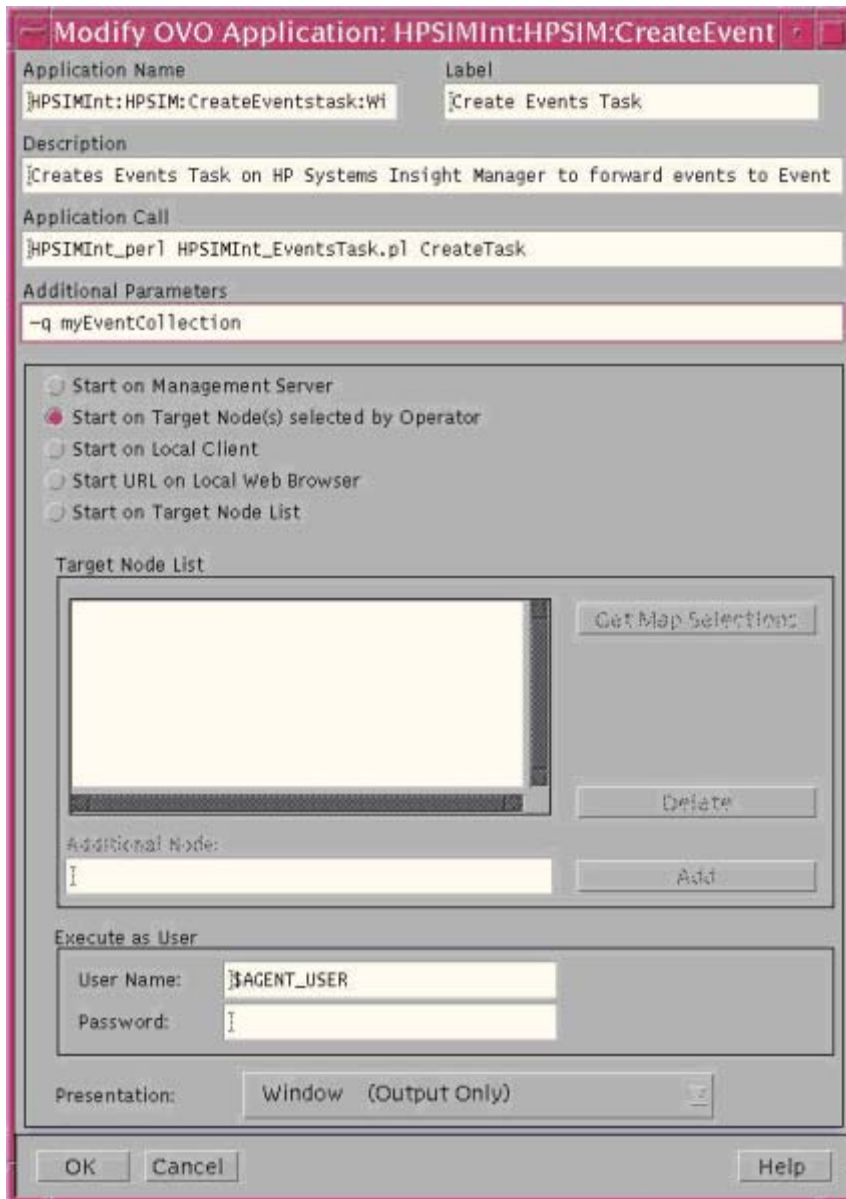


Figure 14 Modify OVO Application

- b.** If a custom event query is created in the previous step in the **Additional Parameters**, replace the `-q` parameter with the user-defined query name.
Example: `-q myEventCollection`
- c.** If you want to provide a specific task name, enter the `-t` option followed by the required task name.
Example: `-q my EventCollection -t myTask`
- d.** Click **OK**.
- e.** Run this application on the appropriate HP SIM CMS node.
A task is created on the HP SIM CMS node with the same name as the query supplied in the `-q` parameter, if the task name is not specified using the `-t` option.

Configuring Bi-directional Event Acknowledgement/Clearing

The bi-directional event acknowledgement/clearing involves the following:

- Configuring event acknowledgement from HP SIM to OVOU - Default
- Configuring event acknowledgement from HP SIM to OVOU - Custom
- Configuring event clearing from OVO to HPSIM

Configuring Event Acknowledgement from HP SIM to OVOU - Default

The HP SIM Integration can be optionally configured to automatically acknowledge the forwarded HP Systems Insight Manager events on OVO when the corresponding event is cleared through the HP SIM web interface.

You can create an event query and task to select the cleared events on HP SIM that correspond to the events displayed through **HPSIMInt_ImportantEvents** query and forward them to the HP SIM Integration event listener.

If the HP SIM event forwarding was configured using the **Fwd Imp Events** application, complete the following steps to configure event acknowledgement:

Navigate to the **Fwd Cleared Imp Events** application in the **HP Systems Insight Manager-Win** or **HP Systems Insight Manager-Unix** application group on the HP SIM management server node.

Execute the **Fwd Cleared Imp Events** application on each HP SIM CMS node.

This adds the default HP SIM Integration cleared events query and task on the HP SIM management server.

NOTE:

The application **Fwd Cleared Imp Events** adds the default HP SIM Integration cleared events query **HPSIMInt_ClearedEvents**. It also creates a task **HPSIMInt_ClearedEvents** on the HP SIM management server. This task forwards cleared events to the event listener for acknowledging events on OVO Message browser

Configuring Event Acknowledgement from HP SIM to OVOU - Custom

If you have configured a user-defined query and task to forward HP SIM events to OVO, then to acknowledge these events you must create a second query with the same selection criteria as the original user-defined query, and additionally select the criteria "cleared state" is "**cleared**", as displayed in the [Figure 15](#).

[Figure 15](#) shows the HP Systems Insight Management Agent user interface.

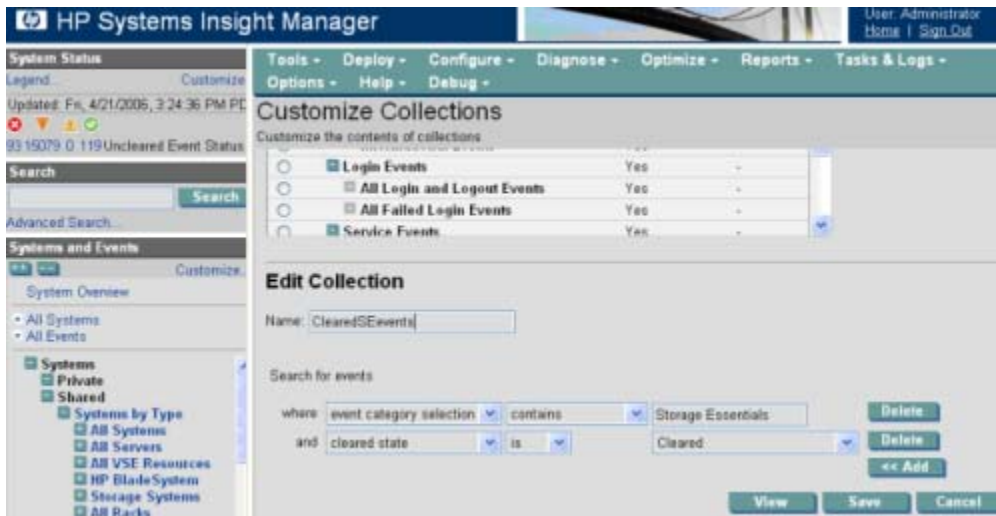


Figure 15 HP Systems Insight Management Edit Collection

Create a task on HP SIM to forward the cleared events to OVO using the **Create Events Task** application by replacing the `-q` parameter with the cleared events query name that was created in the step above. This creates a task with the same name on the HP SIM management server that forwards cleared events to the Event Listener. This triggers the HP SIM Integration to acknowledge these events in the OVO message browser.

To create an events task on HP SIM to forward cleared events to OVO, complete the following steps:

1. In the **HP Systems Insight Manager-Unix** or **HP Systems Insight Manager-Win** application group, right-click **Create Events Task** and select **Modify**.
2. In the **Additional Parameters** field, replace the `-q` parameter with the user-defined cleared events custom query name you created on the HP SIM web interface.

If you want to provide a specific task name, enter the `-t` option followed by the required task name.

 **NOTE:**

Create Events Task application should contain a task name that starts with an alphabetic character. The other characters supported for the task name are space, hyphen, and underscore.

Example: `-q myClearedEventCollection -t myClearedEventTask`

Figure 2 shows Modify OVO Application window.

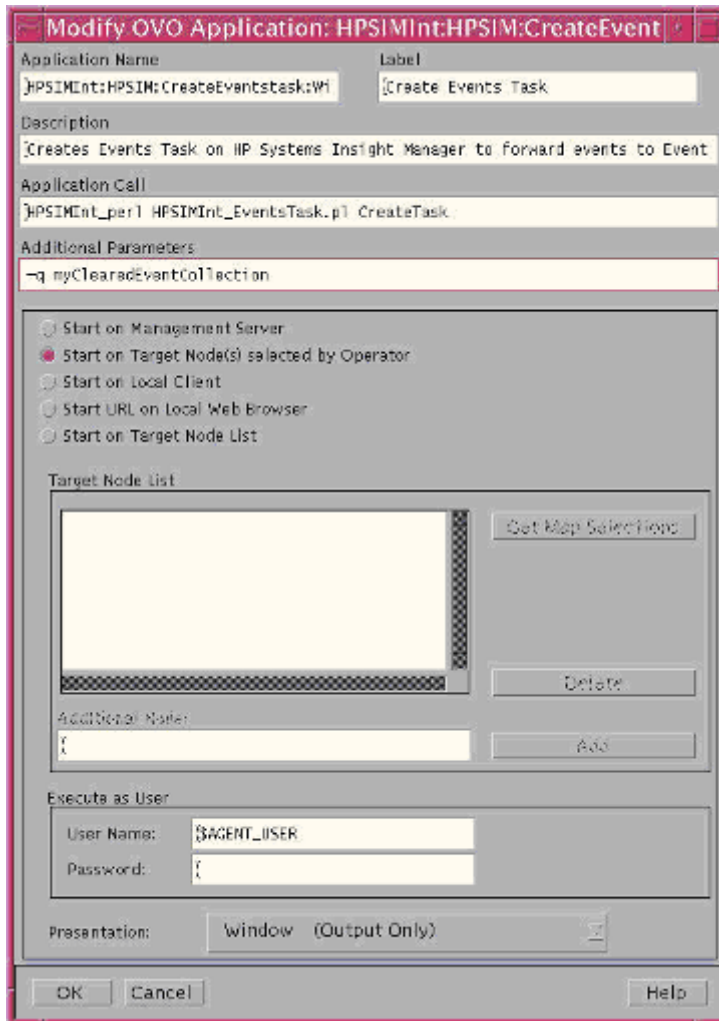


Figure 16 Modify OVO Application

3. Click **OK**.
4. After modifying the application, run the **Create Events Task** application on the appropriate HP SIM CMS node.

A task is created with the same name as the query supplied in the `-q` parameter if the task name is not specified using the `-t` option.

Configuring Event Clearing from OVOU to HP SIM

HP SIM Integration can be configured to automatically clear an event on the HP SIM server if the corresponding event is acknowledged in the OVO message browser. For this functionality, the template in the HP SIM Integration template group **HP SIM Event Acknowledging** must be deployed to the OVO Management Server. The template is **HPSIMInt-HPSIM_ClearEvents**.

Installing HP SIM Integration Event Acknowledge/Clear Template on the OVO Management Server

To deploy HP SIM Integration event acknowledge/clear template on the OVO management server, complete the following steps:

1. In the Node Bank, select the OVOU management server.
2. Select **Actions** -> **Agents** -> **Assign Templates**. The Define Configuration window displays showing templates assigned to this node.

3. Click **Add**. The Add Configuration window displays.
4. Click **Open Template Window**. The Message Source Templates window displays.
5. From the left pane, select **HP SIM Integration** template group. In the right pane, you will see **Group HP SIM Event Acknowledging**.
6. Select **Group HP SIM Event Acknowledging**.
7. Return to the **Add Configuration** window.
8. Click **Get Template Selections**. The **Group HP SIM Event Acknowledging** displays in the **Templates** pane.
9. Click **OK**.

Figure 17 shows the Event Acknowledge template on the OVOU management server in the Define Configuration window.

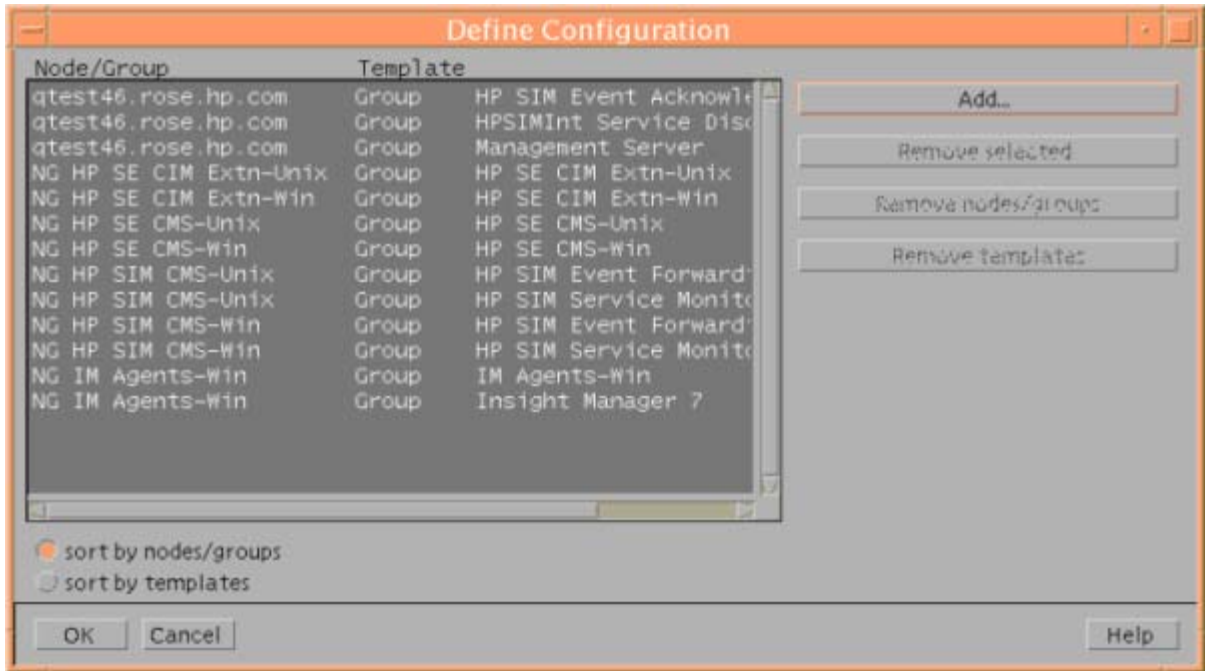


Figure 17 Define Configuration

10. Click **OK** Define Configuration window.
11. Select the OVO server node from the Node Bank.
12. Click **Action > Agents > Install / Update OVO Software and Configuration**. The Install / Update OVO Software and Configuration window displays.
13. From the Install / Update OVO Software and Configuration window, select **Templates**.
14. Select **Force Update**, to ensure that the modifications are distributed.
15. Click **OK**, to distribute the templates to the OVO server.
16. Open the message browser of the node, and wait for the following message:

The following configuration information was successfully distributed: Template

To verify whether this template is deployed, enter the following command on the OVO management server from a terminal window console:

```
opctemplate
```

Verify that the **HPSIMInt-HPSIM_ClearEvents** schedule is enabled.

Figure 18 shows the HP SIM Integration Clear Events templates in the terminal window.

```

Terminal
Window Edit Options Help
# opctemplate
* List installed policies for host 'localhost'.

Type           Name                               Status    Version
-----
CONFIGSETTINGS "OVO settings"                     enabled   1
LOGFILE         "Cron (Solaris)"                   enabled   1
MONITOR         "distrib_mon"                      enabled   1
MONITOR         "mondbfile"                        enabled   1
OPCMMSG        "opcmsg(113)"                      enabled   1
SCHEDULE        "HPSESPI_ServiceDiscovery-Unix"    enabled   1
SCHEDULE        "HPSESPI_ServiceDiscovery-Win"    enabled   1
SCHEDULE        "HPSIMInt-HPSIM_ClearEvents"      enabled   1
SCHEDULE        "HPSIMInt-ServiceDiscovery-Unix"  enabled   1
SCHEDULE        "HPSIMInt-ServiceDiscovery-Win"   enabled   1
SNMPTRAP       "SNMP ECS Traps"                   enabled   1
SNMPTRAP       "SNMP Traps (NNM 7.01)"           enabled   1

#

```

Figure 18 Terminal window

Deploying Templates on the HP SIM Integration Nodes

Before deploying templates, ensure that the node is added to the appropriate HP SIM Integration node group.

To deploy templates on the managed nodes, complete the following steps:

1. Select the node from the OVO Node Bank.
2. Select **Actions** -> **Agents** -> **Install / Update SW & Config**.
The Install / Update OVO Software and Configuration window displays.
3. From the Install / Update OVO Software and Configuration window, select **Templates**.
4. Select **Force Update** to ensure that the modifications are distributed.

Figure 19 shows templates selected in the Install / Update OVO Software and Configuration window.

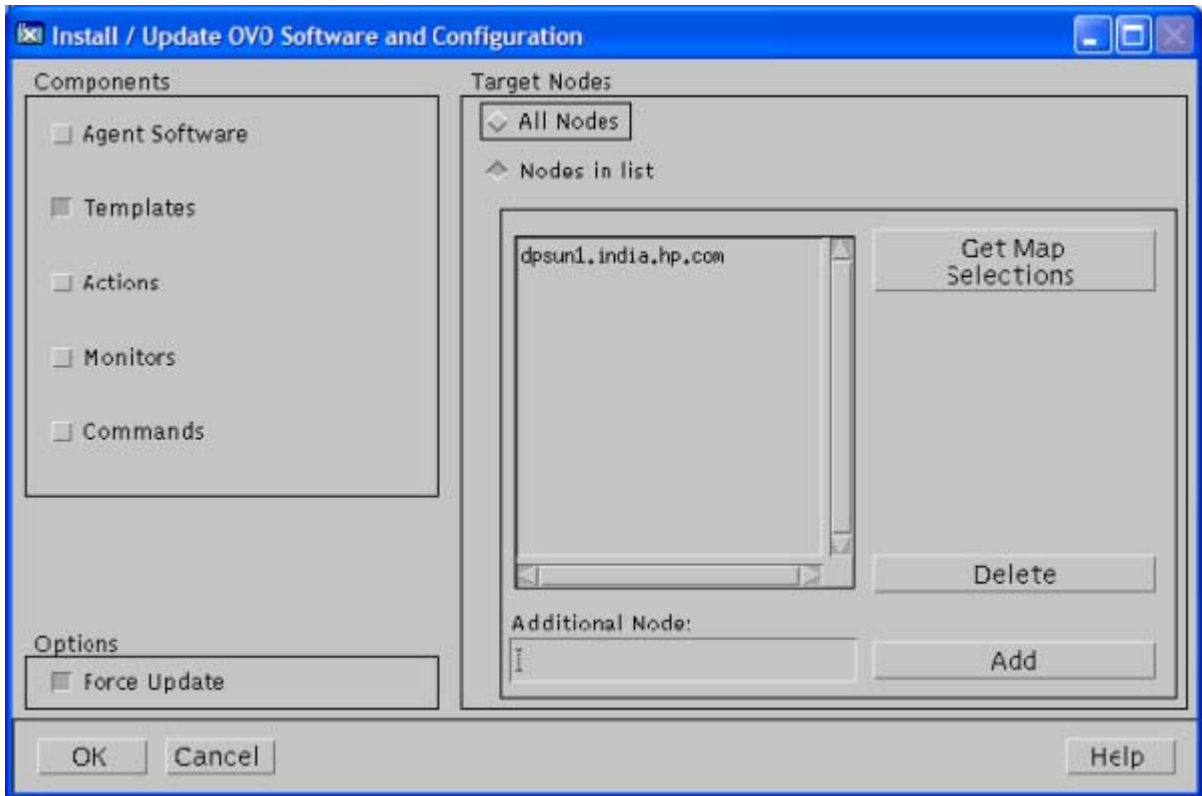


Figure 19 Templates Selected

5. Click **OK** to distribute the templates to the OVO agent node. In the message browser for the node, the following message displays on successful template deployment:

The following configuration information was successfully distributed: Templates

 **NOTE:**

The above message displays in the active message browser when the:

- Node is assigned to the appropriate HP SIM node group.
- User must have privileges for the OpC message group.

 **IMPORTANT:**

The HP SIM Integration contains templates for IM Agent SNMP trap interpretation. The Insight Management Agent trap destination must be manually configured to send traps to the OVOU agent on the node using either **Configure SNMP Trap Destination** application or through the System Management Home page on the IM Agent node.

Re-configuring HP SIM Integration to Forward HP SIM Events

In some cases, you may want to re-configure HP SIM event forwarding in order to change the Event Listener port. If you have configured event forwarding previously, check for default HP SIM Integration tasks and queries in HP SIM. If they exist, they must be deleted before proceeding with re-configuration.

To delete tasks and queries existing in HP SIM, complete the following steps:

1. Stop the HP SIM Integration Event Listener using the application **Stop Event Listener** in the **HP Systems Insight Manager - Win** or **HP Systems Insight Manager - Unix** application group.
2. Delete all event forwarding tasks including cleared events. For more information, see [Removing HP SIM Integration from Nodes](#).
3. You can also perform the following steps.

From a command window on the managed node where HP Systems Insight Manager is running:

- Run the following command to remove the task **HPSIMInt_ImportantEvents** if exists on HP SIM CMS node:

```
mxtask -r HPSIMInt_ImportantEvents
```

- Run the following command to remove the query **HPSIMInt_ImportantEvents** if exists on HP SIM CMS node:

```
mxquery -r HPSIMInt_ImportantEvents
```

- Run the following command to remove the task **HPSIMInt_ClearedEvents** if exists on HP SIM CMS node

```
mxtask -r HPSIMInt_ClearedEvents
```

- Run the following command to remove the query **HPSIMInt_ClearedEvents** if exists on HP SIM CMS node:

```
mxquery -r HPSIMInt_ClearedEvents
```

 **NOTE:**

For more information on HP SIM CLI commands, see the *HP SIM Command Line Interface Reference Guide*.

4. Start the HP SIM Integration Event Listener and provide a different port number.
5. Repeat the steps described in [Configuring the HP SIM Integration to Forward HP SIM Events](#).

Ensure that you complete these steps in the correct order to ensure that the HP SIM Event Listener and the event forwarding tasks are configured with the same port number.

 **NOTE:**

The HP SIM event query and event forwarding task are stored as a part of HP SIM data, separate from the OVO agent and HP SIM Integration. Therefore, these persist even when you uninstall the OVO agent and reinstall. In many cases, if the HP SIM query and task are correctly set up, after an OVO agent or HP SIM Integration reinstallation, you need to run only the **Start Event Listener** application for events to be forwarded to OVO.

5 Using HP SIM Integration

This chapter discusses the following topics:

- Using HP SIM Integration Templates Groups
- Using HP SIM Integration Service Views
- Using HP SIM Integration Applications

Using HP SIM Integration Templates Groups

This section provides an overview of the HP SIM Integration templates.

All the templates provided with HP SIM Integration are grouped under the **HP SIM Integration** template group.

Figure 20 shows the HP SIM Integration Template Groups.

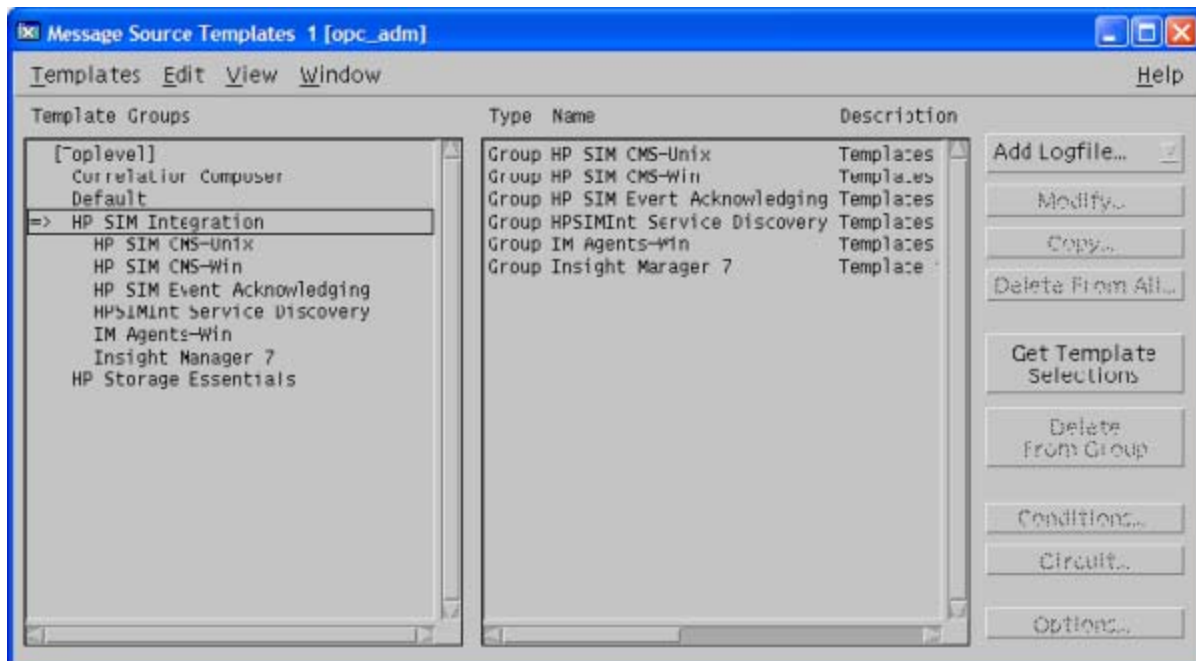


Figure 20 HP SIM Integration Template Groups

The HP SIM Integration provides applications that enable you to configure event forwarding from HP SIM to OVO. HP SIM events are received by the HP SIM Integration event listener process on the HP SIM CMS node, and forwarded to OVO through the OVO agent. The events that are received by the HP SIM Integration event listener are determined by the event query that is created initially, and are prioritized and assigned an OVO severity level.

All the messages generated by the HP SIM Integration templates belong by default to the **HPSIMInt-Systems_Insight_Manager** message group.

Additionally, monitor templates monitor the status of the HP SIM service running on the HP SIM management server and the IM Agent services running on the managed nodes and generate messages to indicate any change in status. Message templates handle messages forwarded from HP SIM. Trap templates define the interpretation of SNMP traps from the Insight Management Agent nodes.

The scheduled templates in the **HPSIMInt Service Discovery** template group, when deployed on the OVO management server discover the following services:

- HP Systems Insight Manager
- Insight Management Agents

The template **HP SIM Event Acknowledging**, when deployed on the OVO management server, handles event clearing on HP SIM when an HP SIM event is acknowledged on the OVO management server.

Using Templates

HP SIM Integration provides a set of pre-configured templates for HP SIM and IM Agent nodes. These templates enable you to monitor the status of the services running on these nodes.

For more information on the pre-configured templates provided by the HP SIM Integration, see [Appendix-B Templates](#). This appendix specifies whether the template must be deployed to the OVO management server or to the managed node (HP SIM management server node or IM Agent node).

NOTE:

The templates in the **IM Agents-Win -> IM Agents Hardware Traps** message group must be deployed on the IM Agents nodes.

Using HP SIM Integration Message Groups

OVO uses message groups to combine management information about similar or related managed objects under a chosen name, and provide status information at a group level. Messages are categorized into groups to simplify message management.

All messages generated by the HP SIM Integration are grouped into one of these message groups:

[Table 14](#) describes the HP SIM Integration Message Groups.

Table 14 HP SIM Integration Message Groups

Message Groups	Description
HPSIMInt-IMAagents	HP SIM Integration Messages for IM Agents
HPSIMInt-Systems_Insight_Manager	HP SIM Integration Messages for HP SIM
HPSIMInt-Insight_Manager	HP SIM Integration Messages for IM 7

Example 1. HP SIM Integration Message Groups

One operator can be responsible for HP SIM and another operator can be responsible for Insight Manager Agent OVO message management. The messages generated by HP SIM Integration templates are displayed in the OVO Message Browser window. These messages contain information that is vital for understanding the problems being reported.

[Table 15](#) describes the mapping that is performed by the HP SIM Integration of HP SIM event severities to OVO event severities.

Table 15 Mapping of HP Systems Insight Manager and OVO Event Severity Levels

HP SIM Severity Level	OVO Message Severity Level	HP SIM Integration Impact
Critical	Critical	A critical problem is detected that needs immediate attention.
Major	Major	A very significant event has occurred, where immediate attention is advised. Some parts of the system or device may have ceased functioning properly.
Minor	Minor	An event of some significance has occurred. Potential or impending problems have occurred that may escalate to become a serious problem.
Warning	Warning	A problem has been detected that must be corrected. This event is not likely to be escalated to a more severe condition.
Informational	Warning	A notable event has occurred, one without any obvious detrimental effects. This is purely an information event.
Normal	Normal	An events of this type indicate that this event is not a problem.

NOTE:

Events with a severity of Normal from HP SIM are redirected to OVO acknowledged message browser.

Figure 21 shows the message browser with HP SIM Integration messages received from HP SIM CMS.

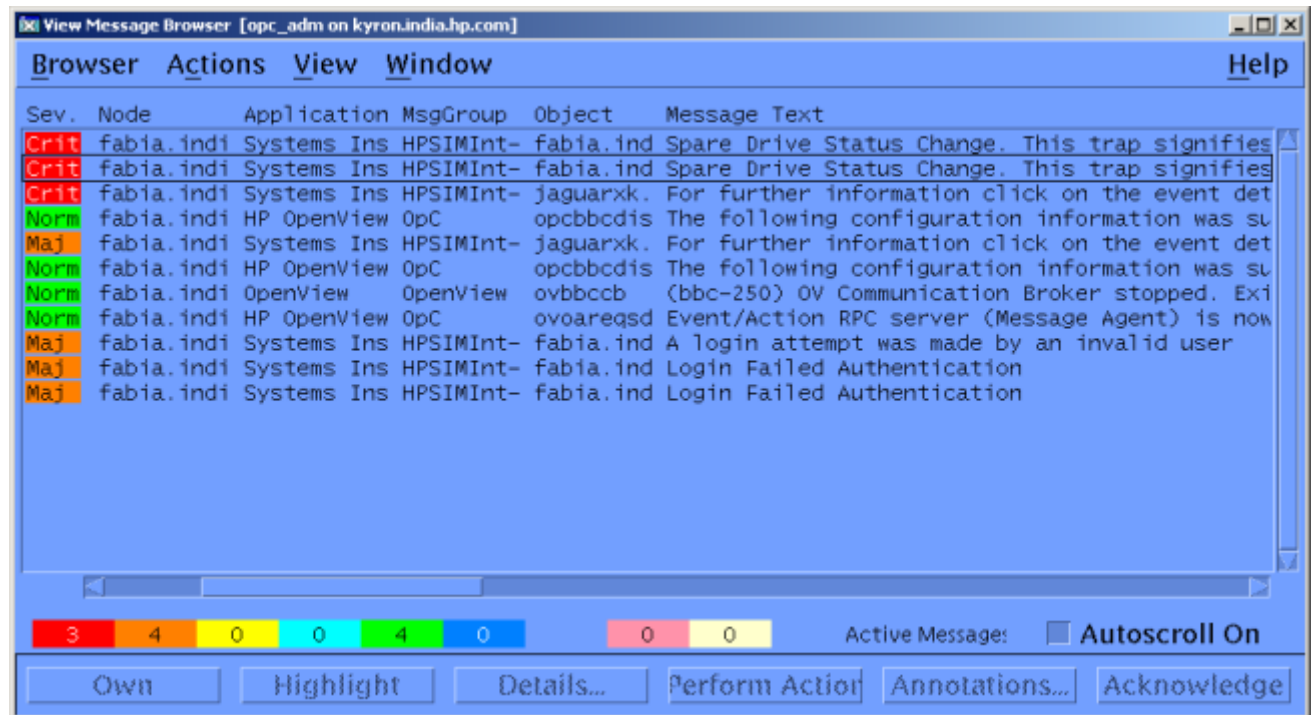


Figure 21 HP SIM Integration Messages in the Message Browser

The message content indicates the scope of the problem. In the context of the HP SIM Integration, this information can be broken down in the following way:

- **Node** - Name of the node that generates the message. If the message is forwarded from an HP SIM server, then it is the HP SIM server node name. If the message is generated by an IM Agent trap, then in this case it is the IM Agent node name.
- **Application** - Systems Insight Manager.
- **Message Group**: Values for messages generated by the HP SIM Integration. Example: HPSIMInt-IMAgents, HPSIMInt-Systems_Insight_Manager, and HPSIMInt-Insight_Manager.
- **Text** - A single line description of the event.
- **Object** - The system name of the event source.

Launching the HP SIM Web Portal from the Message Browser

The operator can launch the HP SIM web interface to further determine the cause of the problem and possibly correct it.

To launch HP SIM web interface, complete the following steps:

1. Select an HP SIM event of the **HPSIMInt-Systems_Insight_Manager** message group.
2. Right-click the event, and select **Perform/Stop Action > Perform Operator-Initiated Action**. The HP Systems Insight Manager login page displays.

Figure 22 shows the HP SIM login page.

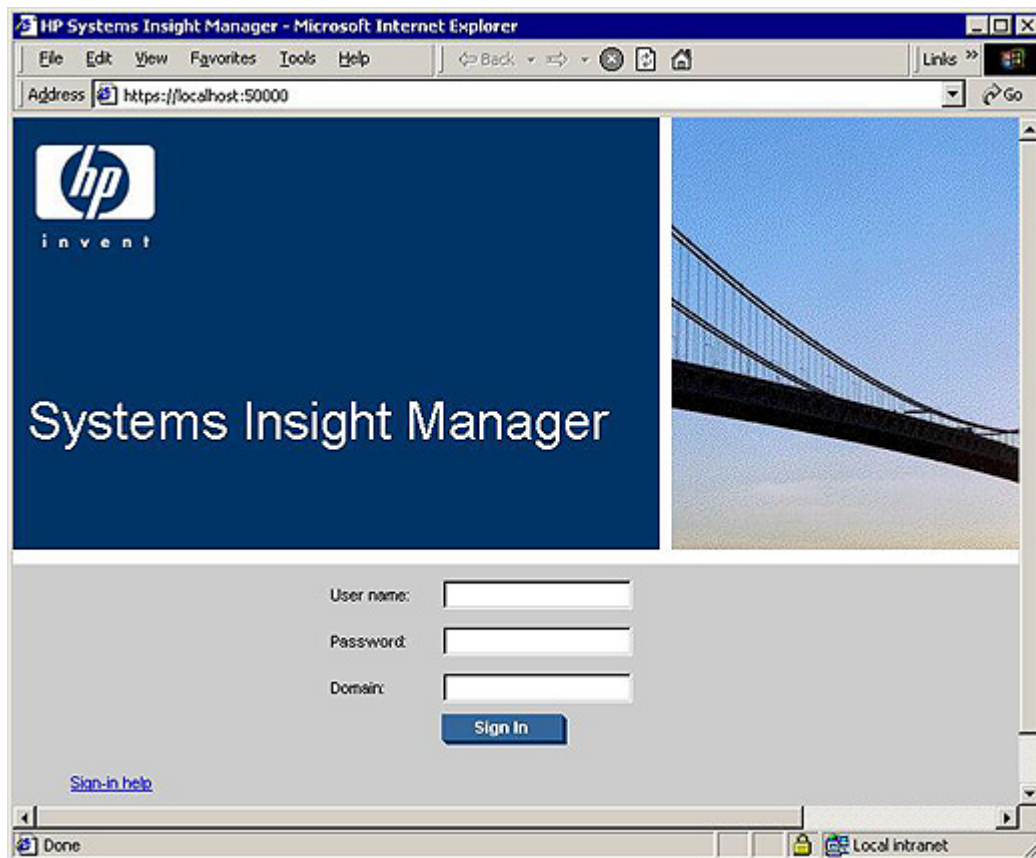


Figure 22 HP SIM Login page.

3. Enter your HP SIM user name in the **User name** field.
 4. Enter your HP SIM password in the **Password** field.
 5. Enter the domain information in the **Domain** field.
- The HP SIM System Page displays for the device in the event.

Figure 23 shows the HP SIM System Page.

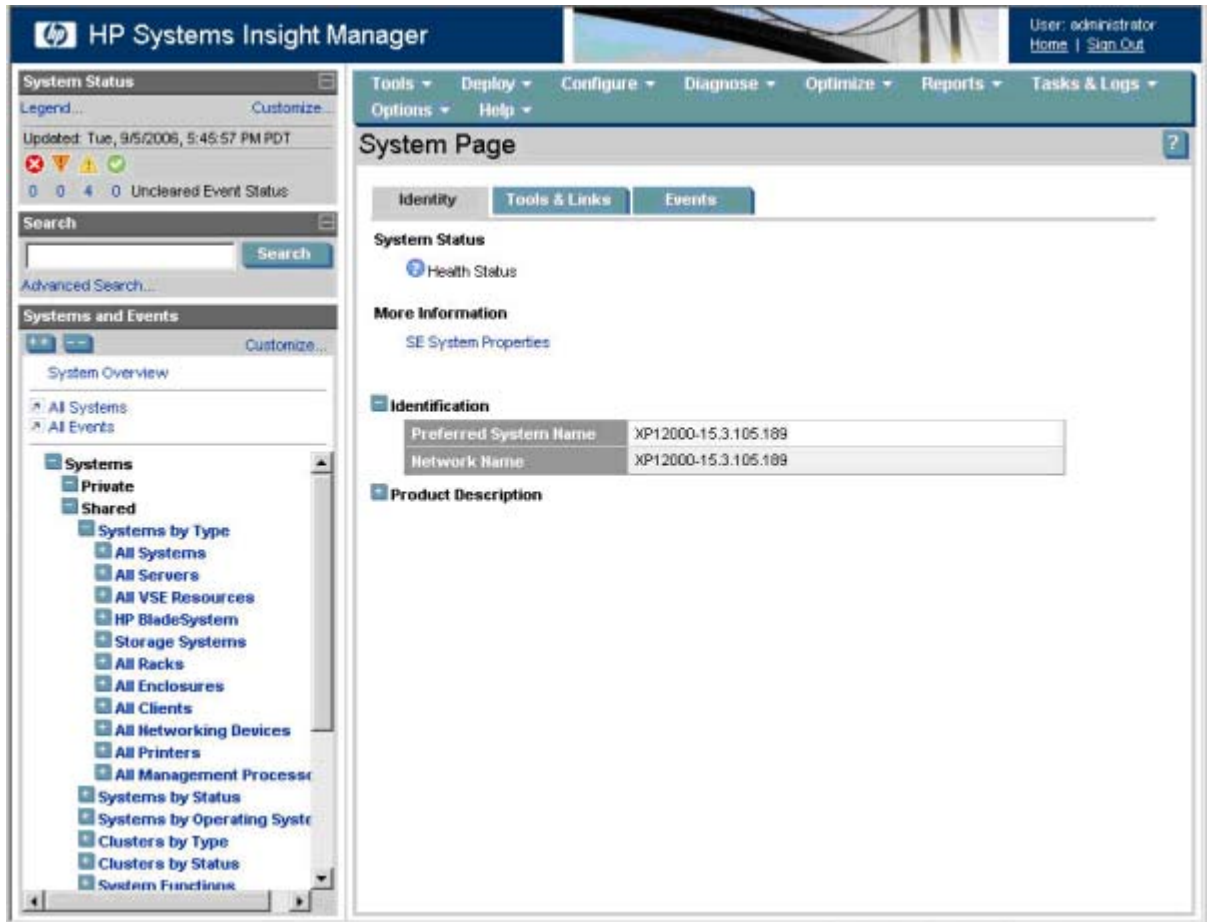


Figure 23 HP SIM System Page



NOTE:

The consecutive operator initiated actions displays a new web interface, then user must provide credentials again to HP SIM CMS web interface.

Using HP SIM Integration Service Views

HP SIM Integration provides the administrator with the additional perspective of Service Views. You can access the service view through the OVO Java Console.

HP SIM Integration provides the following service views:

- HP SIM
- IM Agents

The HP SIM Integration service discovery templates discover the following services:

- HP Systems Insight Manager
- Foundation agents
- NIC agents
- Server agents
- Storage agents
- System Management Home page Agent
- Insight Manager 7

- Version control agent
- Remote Insight Lights-Out (RILO)

NOTE:

RILO is an optional feature. It is discovered only if it is present on the system. You must have a Remote Insight Board or the Integrated Lights-Out Advanced on the system.

HP Systems Insight Manager Service View

HP SIM Integration includes applications to discover the HP SIM service on a node. It also includes templates for deployment on the OVO management server that automatically discover HP SIM services on nodes in the HP SIM Node Groups on a scheduled basis.

Figure 24 shows the HP Systems Insight Manager services in the Service View discovered by HP SIM Integration.

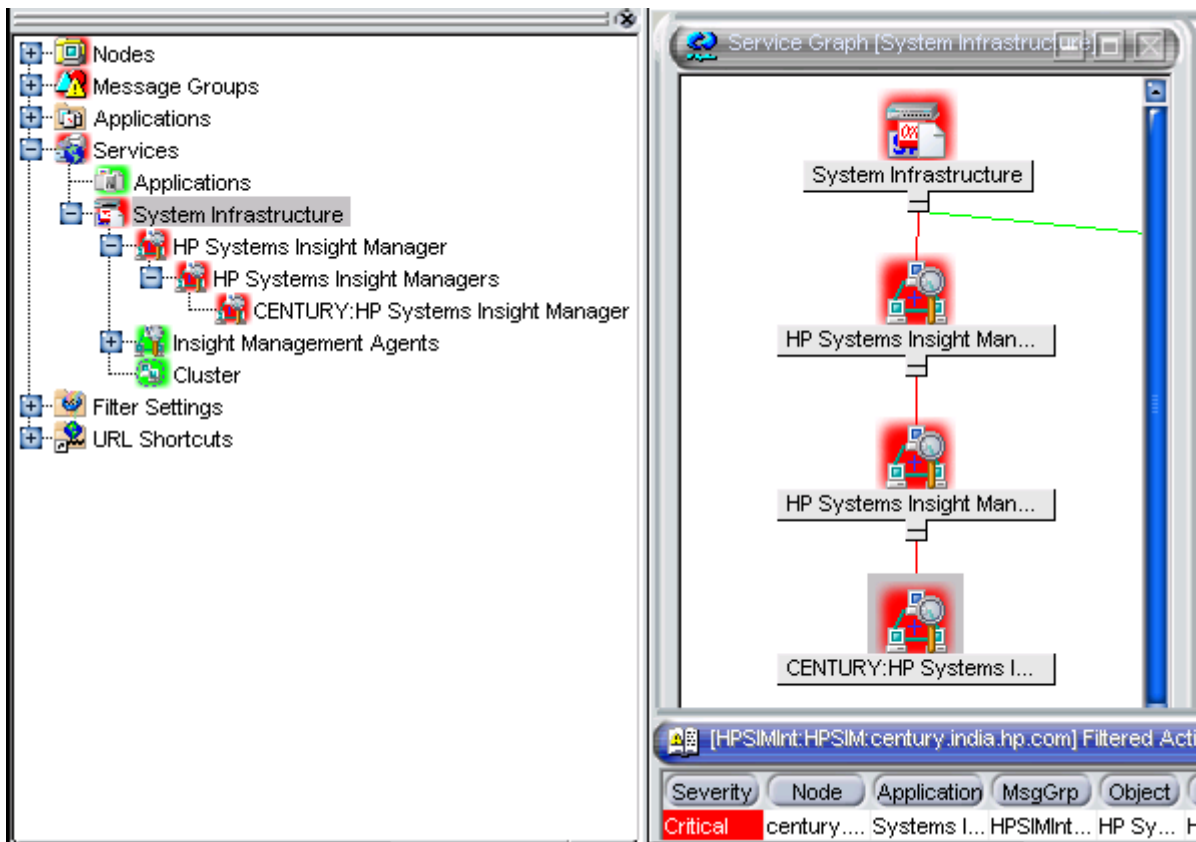


Figure 24 HP Systems Insight Manager Services discovered by HP SIM Integration

The services discovered by HP SIM Integration facilitate root-cause analysis of HP SIM service problems. The HP SIM Integration monitor templates enables the HP SIM service view to allow the OpenView Operations user to monitor the availability of the HP SIM management server service.

Insight Management Agents Service View

HP SIM Integration includes applications to discover the Insight Management Agent services on a node. It also includes templates for deployment on the OVO management server that automatically discover the IM Agent services on nodes in the IM Agent Node Groups on a scheduled basis.

Figure 25 shows the Insight Management Agent service in the service view.

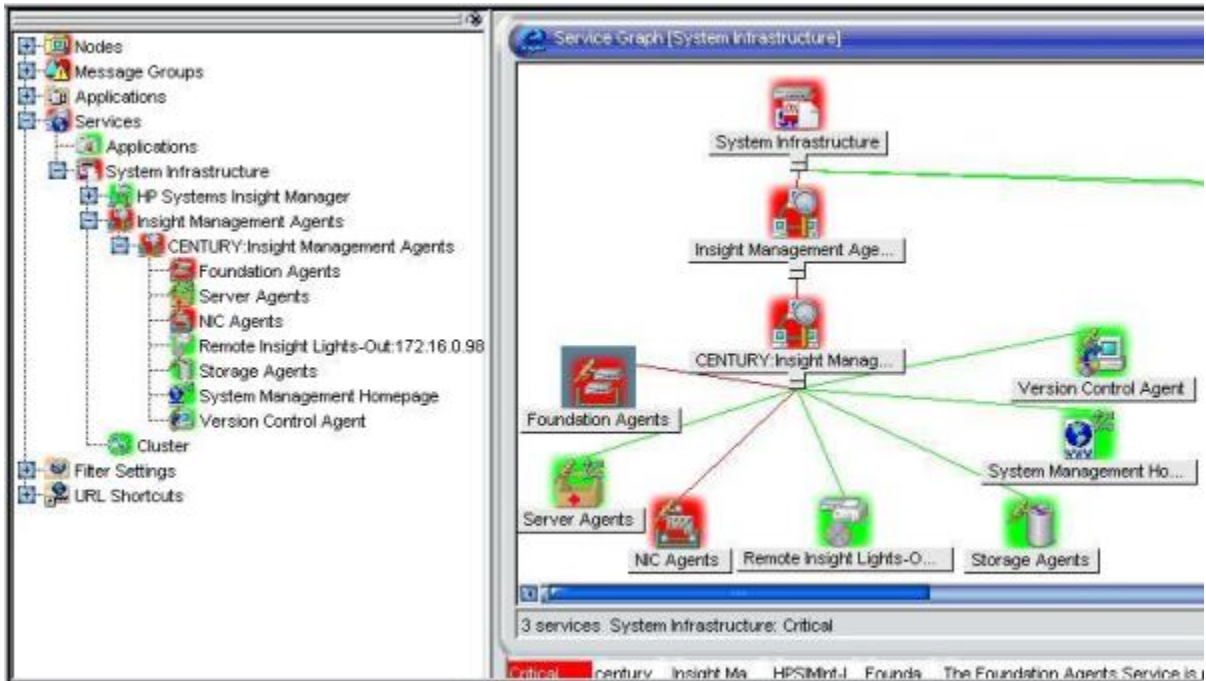


Figure 25 Insight Management Agent service discovered by HP SIM Integration

The services discovered by HP SIM Integration facilitate root-cause analysis of problems in crucial elements of the IM Agent services.

By default, propagation rules for the objects in service trees are defined as Unchanged. This means that a parent service does not change the status of a child object by attaching a priority to it. Such a scenario is feasible only if a parent service considered the status of one child service to be more important than the status of another child service.

Calculation rules for Insight Management Agent service trees are set, by default, to Critical. This means that if a parent service has more than one child service, it assumes the status equal to the highest severity of its child services.

NOTE:

By default, the HP SIM Integration discovery templates are configured to run discovery every day at 1:30 am. For HP SIM CMS on Windows nodes, 2:30 am for HP SIM CMS on Unix nodes and 3.30 am for IM Agent nodes a.m. for Unix nodes. The administrator can change the service discovery period by modifying the service discovery template. The changed discovery period comes into effect only after the templates are redeployed on the OVO management server node.

Assigning the HP SIM Integration Services to Non-default Users

The HP SIM Integration services are by default assigned to users **hpsimint_op** and **opc_adm**.

To apply the HP SIM Integration services to an additional user, enter the following commands in a command prompt on the OVO server:

- `opcservice -assign <username> "HPSIMInt:HP Systems Insight Manager"`
- `opcservice -assign <username> "HPSIMInt:Insight Management Agents"`
- `opcservice -assign <username> "HPSIMInt:Insight Manager 7"`

Using HP SIM Integration Applications

HP SIM Integration adds the top-level application group **HP SIM Integration** in the OVO Application bank window.

Figure 27 shows the OVO Application Bank.

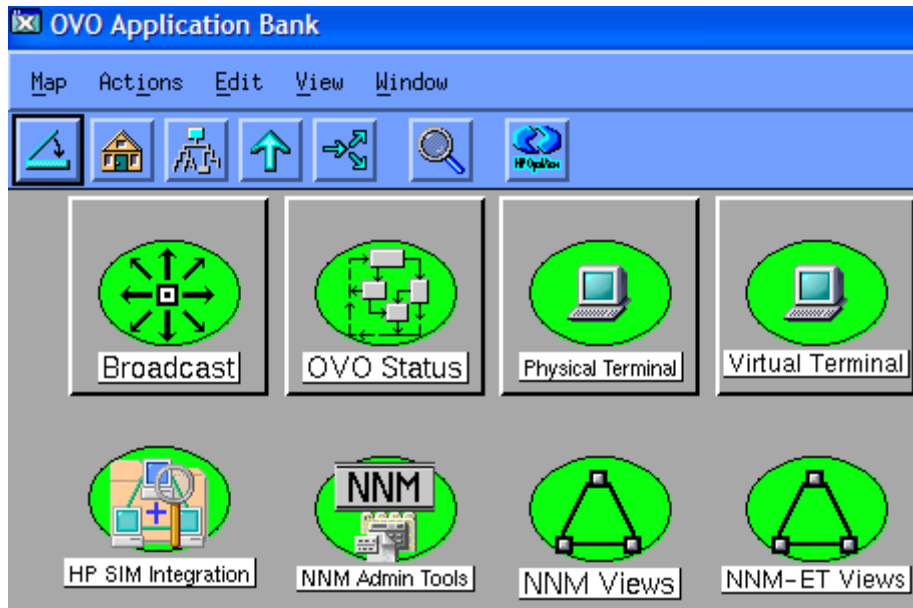


Figure 26 OVO Application Bank

To access HP SIM Integration applications, double-click **HP SIM Integration**. The HP SIM Integration Application Group window displays.

Figure 27 shows the HP SIM Integration HP SIM Application Group.

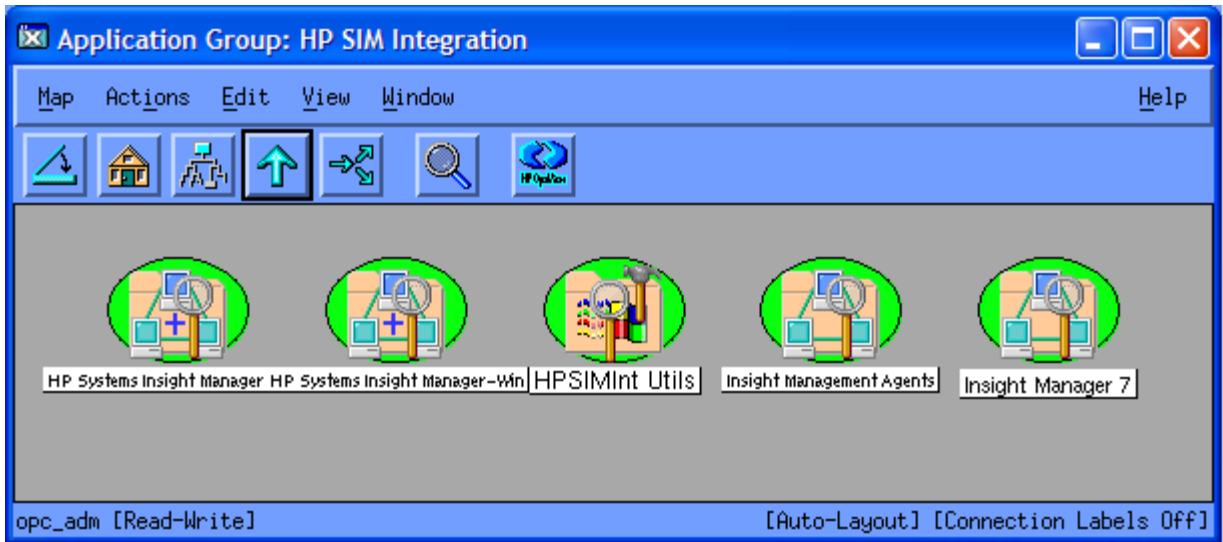


Figure 27 HP SIM Integration Application Group



NOTE:

Executing the HP SIM Integration applications on HP OVO Java console by selecting a node on Service View is not supported.

For executing the HP SIM Integration applications on HP OVO Java console, select a node in the Nodes pane on OVO Java console and right-click and select **Start -> HP SIM Integration**.

HP OVO Java console running on Windows requires the X-windows emulator software to be installed on the PC for proper functioning of HP SIM Integration applications.

Using HP Systems Insight Manager Application Group

The **HP Systems Insight Manager-Unix** or **HP Systems Insight Manager-Win** (depending on your node's operating system) application group include applications that are executed on HP SIM management server nodes (Unix or Windows)

Figure 28 shows applications in the HP Systems Insight Manager-Unix application group window.

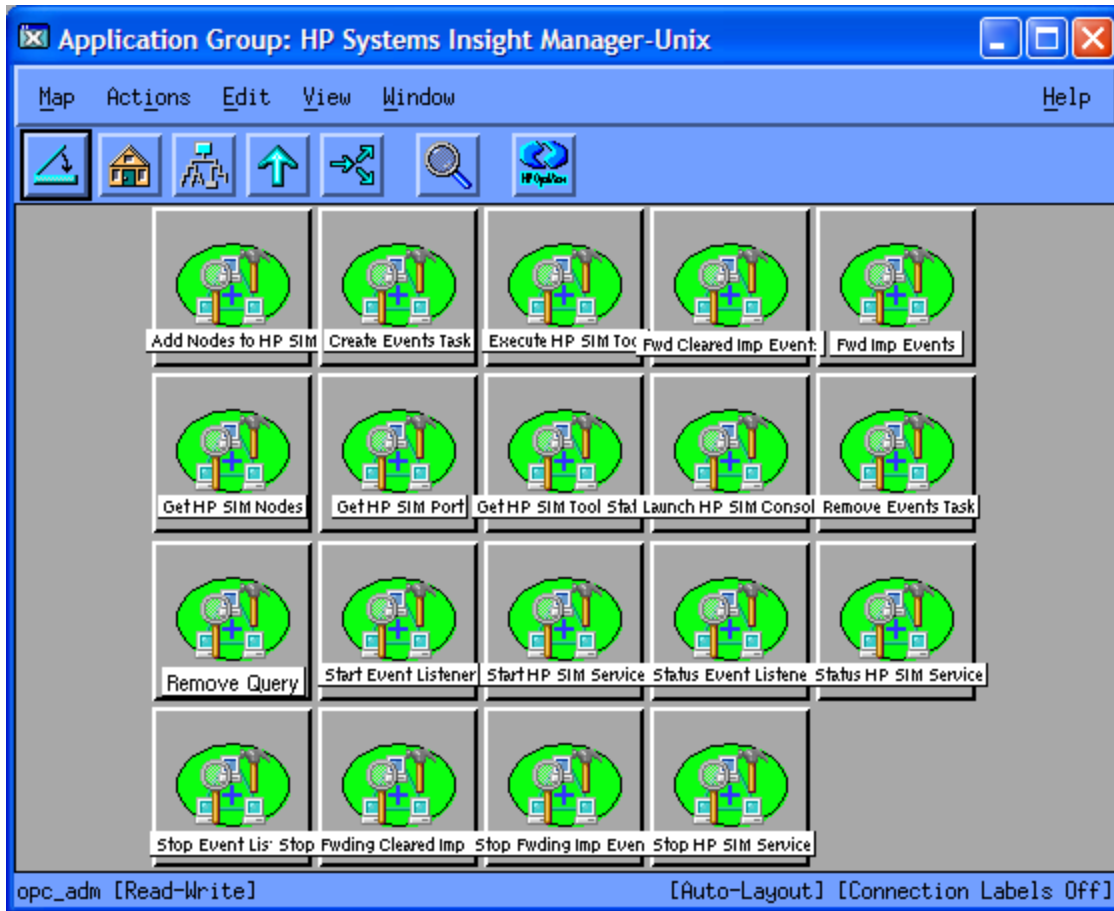


Figure 28 HP Systems Insight Manager-Unix Application Group

This group contains applications for monitoring and configuring the HP SIM management server on a Unix node.

Table 16 describes the applications in the HP SIM applications group.

Table 16 HP Systems Insight Manager-Unix Applications

Application Name	Description	Parameters
Add nodes to HP SIM	Adds nodes to HP SIM server.	First parameter: The list of host names to be managed by HP SIM. The host names must be separated by a space, and the list must be within double quotes. This parameter is mandatory. To pass a single name, double quotes are not required.

Application Name	Description	Parameters
Create Events Task	Creates task on the HP SIM node to forward events to Event Listener.	<p>–q <queryname>, replace <queryname> with the name of the HP SIM query that the task must use to select HP SIM events. The query name must be the name of an existing query that was manually created as described in the Configuring Event Forwarding from HP SIM to OVOU - Custom. The query name itself is used as the task name when only this parameter is specified. To specify other task names, use the optional parameter provided after this parameter.</p> <p>+ <taskname> This is an optional parameter. Replace <taskname> with the task name you want to use.</p>
Execute HP SIM Tool	Executes the specified HP SIM tool on the managed nodes. You must provide the WAIT or NOWAIT argument to the tool. The default argument is WAIT. If the tool is executed with WAIT as one of its arguments, it does not return the status of the tool execution till the tool execution is completed, cancelled, failed, or killed. If the NOWAIT argument is provided, the command returns the JOB ID. You can provide the JOB ID as a parameter to the Get HP SIM Tool Status to find the status of the HP SIM tool execution.	<p>First parameter: The first parameter can be WAIT or NOWAIT. By default, the parameter is WAIT in the Execute HP SIM Tool application.</p> <p>WAIT: When you specify the WAIT parameter, the Execute HP SIM Tool application returns the status of the HP SIM tool execution. The status is provided when the HP SIM tool execution reaches one of the following stages: Completed Cancelled Failed Killed</p> <p>NOWAIT: When you specify the NOWAIT parameter, the Execute HP SIM Tool retrieves the JOB ID of the specified HP SIM tool. This JOB ID can be supplied to the Get HP SIM Tool Status application to retrieve the status of the HP SIM tool execution.</p> <p>Second parameter: List of HP SIM managed host names where the tool is intended to be executed. The names must be separated by a blank space or a semicolon (;), and the list must be enclosed within double quotation marks (" ").</p> <p>Third parameter: The HP SIM tool to be executed.</p> <p>Fourth parameter (optional) : One or more parameters required by the tool must be specified. A blank space or a semicolon (;) must be used to separate them. The list of parameters must be enclosed within double quotation marks (" ").</p>

Application Name	Description	Parameters
Fwd Cleared Imp Events	Forwards the default collection of HP SIM cleared important events to the HP SIM Integration Event Listener process on the node. This is done by adding the query "HPSIMInt_ClearedEvents" and creating task "HPSIMInt_ClearedEvents" on HP SIM.	
Fwd Important Events	Forwards the default collection of important HP SIM events to the HP SIM Integration Event Listener process on the node by adding the query "HPSIMInt_ImportantEvents" and creating the task "HPSIMInt_ImportantEvents" on HP SIM.	
Get HP SIM Nodes	Returns a list of host names and operating system types of the nodes managed by HP SIM.	
Get HP SIM Port	Gets the SSL port to be used by other HP SIM applications to communicate to the HP SIM server. This application is useful when a custom SSL port is configured in the <code>mx.properties</code> file on the HP SIM server (the default port is 50001). The port number can be obtained by executing this application.	
Get HP SIM Tool Status	Get the status of tool execution on HP SIM managed nodes	The JOB ID of the task whose status is being queried. The JOB ID is returned by the Execute HP SIM Tool if the NOWAIT option is specified.
Launch HP SIM Console	Launches the HP SIM web interface by default. If the "system name" parameter is supplied, the HP SIM web interface is launched to the specified node's System Page. If both "system name" and "tool name" are supplied, the HP SIM web interface is launched to the specified tool's Verify page. For more information on HP SIM, see the <i>HP Systems Insight Manager User Guide</i> .	Select the HP SIM node whose web interface you want to launch and execute this application. You can optionally specify additional parameters to open the System page or Tool page for the required HP SIM managed node(s). Additional Parameters (optional): First parameter (optional): System name of HP SIM managed node(s) whose system page you want to launch. Can only launch to one system page. Second Parameter: (optional) <tool name>" Tool name to launch HP SIM console to the tools page for the managed node(s) specified in the first parameter. Examples: hpsimnode1.domain.com hpsimnode2.domain.com "mytoolname"

Application Name	Description	Parameters
Remove Events Task	Removes specified event task from the HP SIM node that forwards events to Event Listener.	-t <taskname>- replace <taskname> with the name of the task to be deleted. The task name is the name of the existing event forwarding task on HP SIM that the user wants to delete.
Remove Query	Removes the user-defined query from the HP SIM.	Replace Additional Parameter <UserDefinedQuery> with the name of the query that you want to delete, that displays on the Systems and Events pane of HP SIM. Before running this application, ensure that any HP SIM task which references this query is deleted. See application Remove Events Task .
Start Event Listener	Starts HP SIM Integration Event Listener on the node and registers as subagent of OVO Agent to forward events to the OVO management server.	The parameter is -port 54321, where 54321 is the default port number of the Event Listener. Change this value if TCP port 54321 is not available or if you want to configure it on a different port.
Start HP SIM Service	Starts HP SIM Service.	
Status Event Listener	Gets the status of HP SIM Integration Event Listener that forwards events to OVO.	
Status HP SIM Service	Gets the status of HP SIM Service.	
Stop Event Listener	Stops HP SIM Integration Event Listener and unregisters as subagent of OVO Agent to stop forwarding events to OVO.	
Stop Fwding Imp Events	Stops forwarding the HP SIM important events to OVO by removing the task "HPSIMInt_ImportantEvents" and the query "HPSIMInt_ImportantEvents" on HP SIM.	
Stop Fwding Cleared Imp Events	Stops forwarding the HP SIM cleared important events to OVO by removing the task "HPSIMInt_ClearedEvents" and the query "HPSIMInt_ClearedEvents" on HP SIM.	
Stop HP SIM Service	Stops HP SIM Service.	

For information on HP Systems Insight Manager-Win applications, see [Appendix-A Applications](#).

Using HPSIMInt Utils Application Group

The HPSIMInt Utils application group includes applications for performing administrative tasks for HP SIM Integration.

Figure 29 shows applications in the HPSIMInt Utils Application Group.

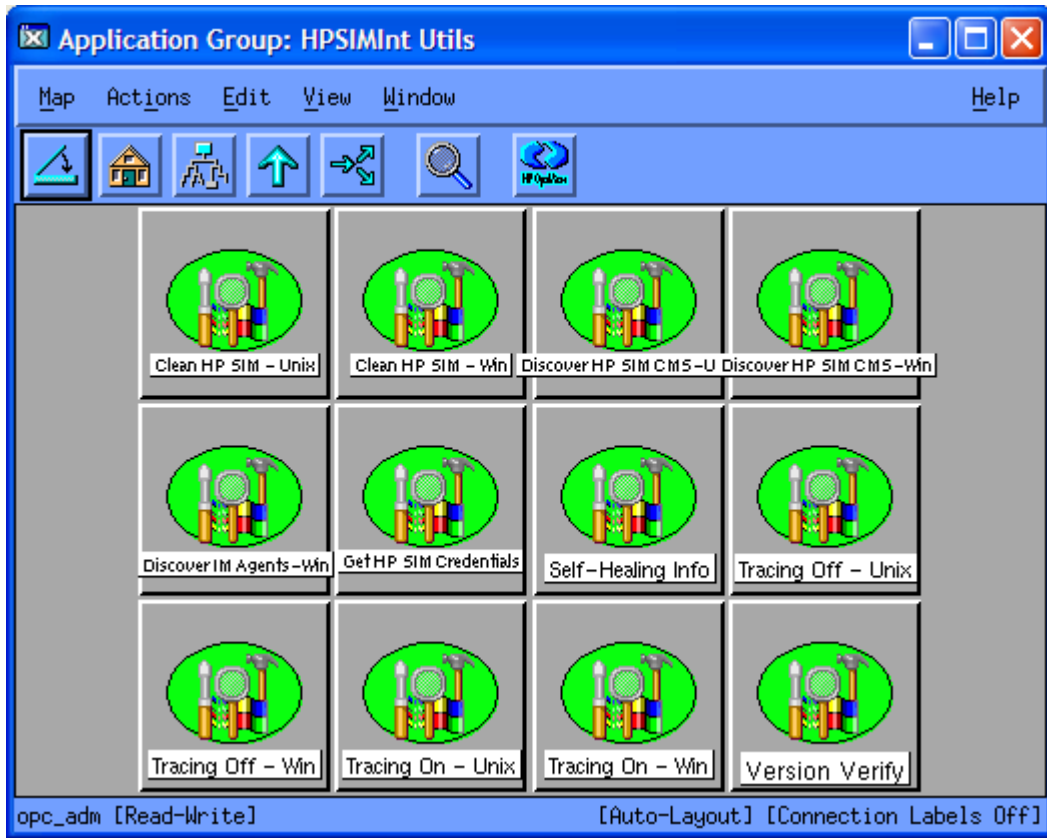


Figure 29 HPSIMInt Utils Applications

Table 17 describes the applications present in the HPSIMInt Utils application group.

Table 17 HPSIMInt Utils Applications

Applications Name	Description
Clean HP SIM - Unix	Deletes the HP SIM Integration files on the HP SIM CMS on UNIX managed node.
Clean HP SIM - Win	Deletes the HP SIM Integration files on the HP SIM CMS on Windows managed node.
Discover HP SIM CMS-Win	Performs the HP SIM CMS Service Discovery on Windows managed nodes.
Discover HP SIM CMS-Unix	Performs the HP SIM CMS Service Discovery on the Unix managed nodes.
Discover IM Agents-Win	Performs the IM Agents Service Discovery on the Windows managed nodes.
Get HP SIM Credentials	Gets the user name and password of the HP SIM for HP SIM Integration applications.
Self-Healing Info	Runs the HP SIM Integration Data collector on managed nodes and collects the data from the OVO managed nodes. If the OVO server is treated as a managed node, both HP SIM Integration managed node and server data are collected.
Tracing On - Unix	Sets the HP SIM Integration tracing to ON on the Unix managed nodes. The application enables tracing only for the service discovery module of HP SIM Integration. The application does not support other modules.
Tracing Off - Unix	Sets the HP SIM Integration tracing to OFF on the Unix managed nodes.
Tracing On - Win	Sets the HP SIM Integration tracing to ON on the Windows managed nodes. The application enables tracing only for the service discovery module of HP SIM Integration. The application does not support other modules.
Tracing Off - Win	Sets the HP SIM Integration tracing to OFF on the Windows managed nodes.
Version Verify	Verifies the version of the HP SIM Integration files. It lists all the files and specifies if they have the same version as the HP SIM Integration installed version. This application enables you to check if any HP SIM Integration file is updated upon installation of a patch.

NOTE:

The HP SIM Integration uses the **Service Discovery Component for HP OpenView SPIs** for the discovery of the HP SIM CMS, IM Agents and Insight Manager 7 services. When the service discovery application is executed on non-HP SIM CMS or non-IM Agent nodes, the discovery application will not report any failure message to indicate non-HP SIM CMS or non-IM Agent node. The discovery application will still indicate the Service Discovery on the node completed.

Using Insight Management Agents Application

The IM Agent application group contains the applications that you can execute on Windows IM Agent nodes.

Figure 31 shows IM Agent Application Group.

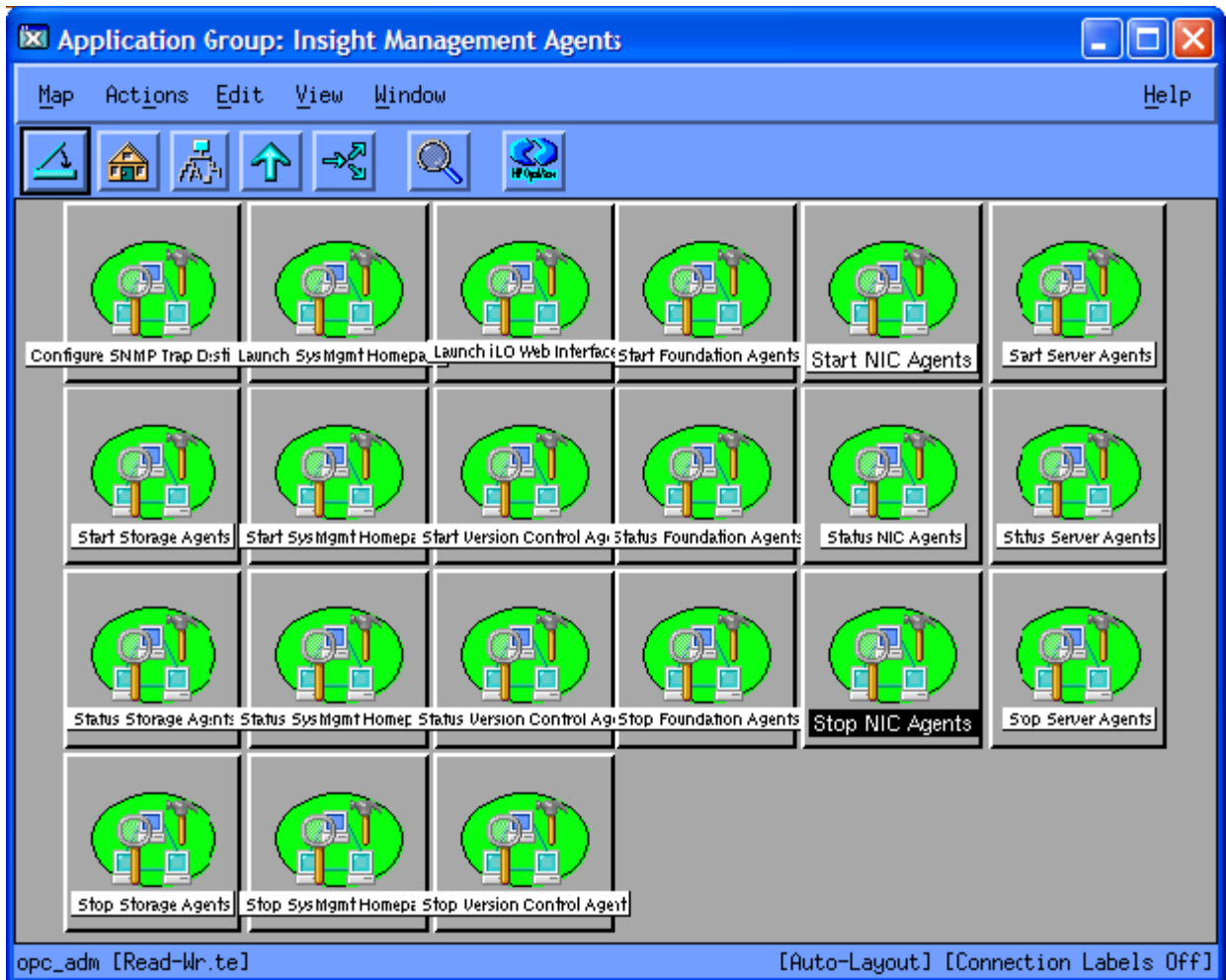


Figure 30 Insight Management Agents Application

Applications in this group enable you to perform the following tasks:

- Configure hardware trap destinations on the IM Agent nodes
- Launch the IM Agent web interface
- Start or Stop or Get Status of IM Agent services of the IM Agent services

Table 18 describes the applications in the IM Agent Application Group.

Table 18 Insight Management Agent Applications

Application Name	Description
Configure SNMP Trap Destination	Configures SNMP trap destination on the IM Agent nodes
Launch SysMgmt Homepage	Launches System Management Home page.
Launch iLO Web Interface	Launches Integrated Lights-Out web interface.
Start Foundation Agents	Starts IM Agent's Foundation Agents service.
Status Foundation Agents	Provides the status of IM Agent's Foundation Agents service.
Stop Foundation Agents	Stops IM Agent's Foundation Agents service.
Start NIC Agents	Starts IM Agent's NIC Agents service.
Status NIC Agents	Get the status of IM Agent's NIC Agents service.
Stop NIC Agents	Stops IM Agent's NIC Agents service.
Start Server Agents	Starts IM Agent's Server Agents service.
Stop Server Agents	Stops IM Agent's Server Agents service.
Status Server Agents	Get the status of IM Agent's Server Agents service.
Start Storage Agents	Starts IM Agent's Storage Agents service.
Stop Storage Agents	Stops IM Agent's Storage Agents service.
Status Storage Agents	Get the status of IM Agent's Storage Agents service.
Start Version Control Agent	Starts IM Agent's Version Control Agent service.
Stop Version Control Agent	Stops IM Agent's Version Control Agent service.
Status Version Control Agent	Get the status of IM Agent's Version Control Agent service.
Start SysMgmt Homepage	Starts System Management Home page Service.
Status SysMgmt Homepage	Get the status of System Management Home page Service.
Stop SysMgmt Homepage	Stops System Management Home page Service.

Using Insight Manager 7

The applications in the Insight Manager 7 (IM7) application group are retained to support the older version of IM7. These applications starts, stops, or discover status of the IM7 service. These applications are for backward compatibility only, and are not applicable if HP SIM version 5.0 or later is installed.

Figure 31 shows Insight Manager 7 Application Group.

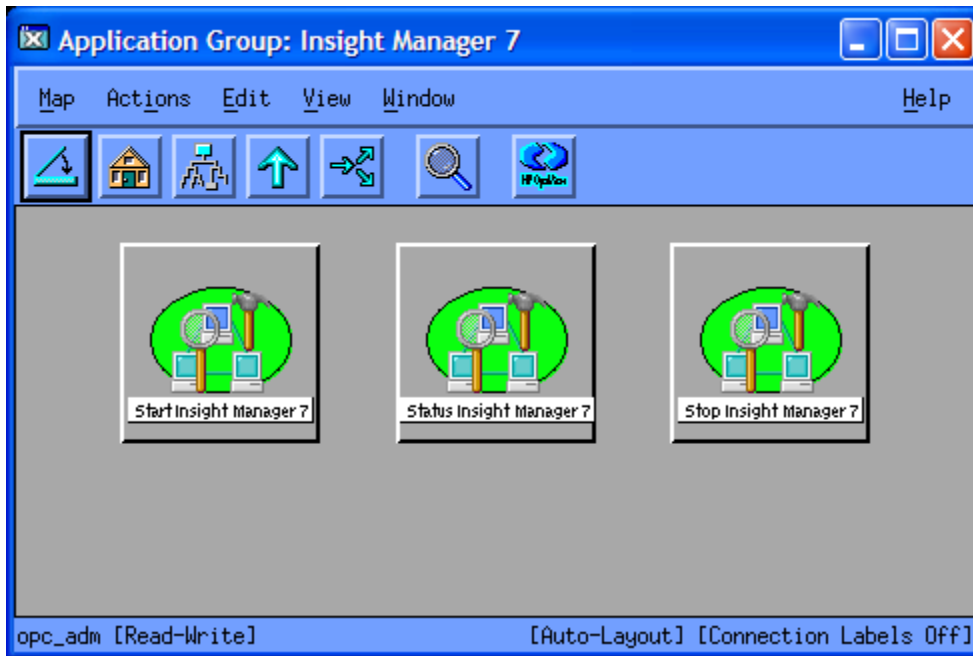


Figure 31 Insight Manager 7 Application Group

Table 19 lists the application present in the Insight Manager 7 group.

Table 19 Insight Manager 7 Applications

Application Name	Description
Start Insight Manager 7	Starts Insight Manager 7 Service.
Status Insight Manager 7	Get the status of Insight Manager 7 Service.
Stop Insight Manager 7	Stops Insight Manager 7 Service

6 Removing HP SIM Integration

This chapter discusses the following topics:

- Removing HP SIM Integration Templates from the OVO Managed Nodes
- Removing HP SIM Integration Templates from the OVO Management Server Node
- Removing HP SIM Integration Components
- Removing HP SIM Integration from the OVO Management Server

Removing HP SIM Integration Templates from the OVO Managed Nodes

To remove the HP SIM Integration templates from the OVO managed nodes, complete the following steps:

1. Start the OVO console GUI.
2. From the OVO Node Group Bank window, press the **Ctrl** key and select all the HP SIM Integration related node groups.
3. Select **Actions > Agents > Assign Templates...**. The Define Configuration window displays.
4. Select the HP SIM Integration related Node Group, and click Remove Selected.
5. Click **OK**.
6. From the OVO Node Group Bank window, press the **Ctrl** key and select all the HP SIM Integration related node groups.
7. Select **Actions > Agents Install / Update SW & Config...**. The Install / Update OVO Software and Configuration window displays.

Figure 32 shows the Install / Update OVO Software and Configuration window.

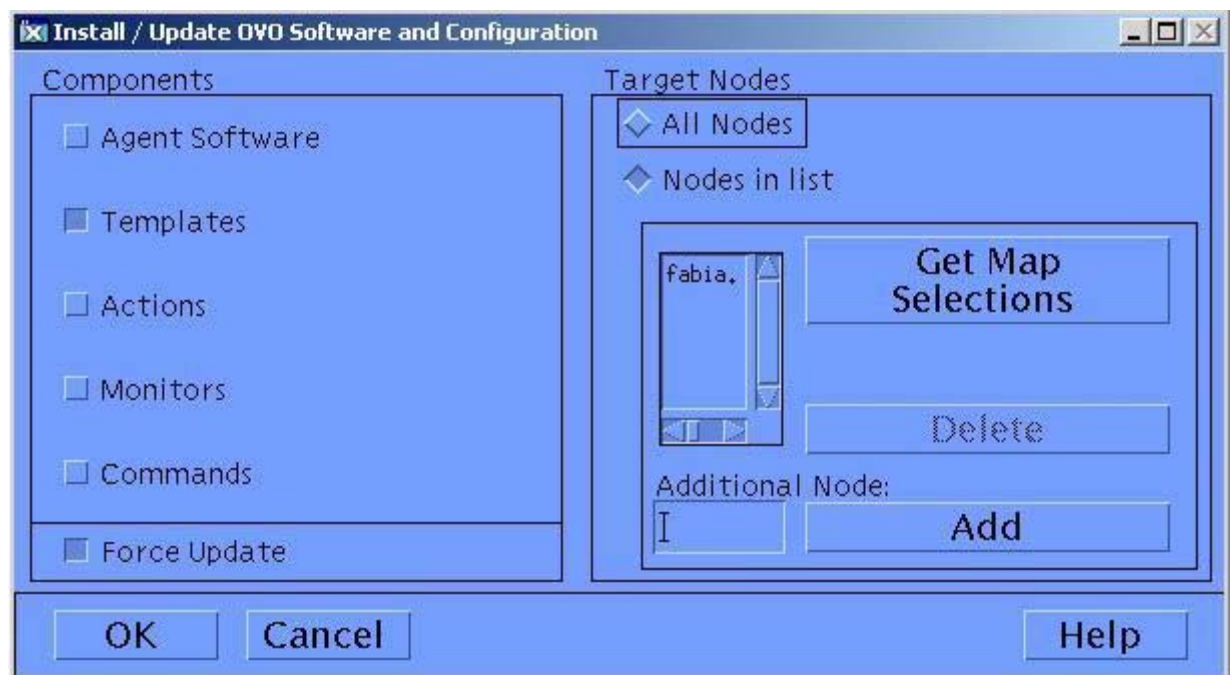


Figure 32 Install / Update OVO Software and Configuration

8. From the **Components** pane, select the **Templates** check box.

9. Select the **Force Update** check box to ensure that the modifications are distributed.
10. Click **OK** to remove HP SIM Integration templates from the OVO managed nodes.
After you remove the HP SIM Integration templates from the HP SIM Integration related managed nodes, you can remove the HP SIM Integration related managed nodes from the Node Bank window in the OVO GUI if you no longer wish to manage these nodes from OVO.

 **NOTE:**

The HP SIM Integration node groups folders are removed automatically while removing the HP SIM Integration from the OVO management server.

Removing HP SIM Integration Templates from the OVO Management Server Node

To remove the HP SIM Integration templates from the OVO management server node, complete the following steps:

1. Start the OVO console GUI.
2. Select **Actions > Agents > Assign Templates...**. The Define Configuration window displays.
3. Select the HP SIM Integration template group **HP SIM Event Acknowledging** and **HPSIMInt Service Discovery** associated with OVO management server node, as shown in the figure below.

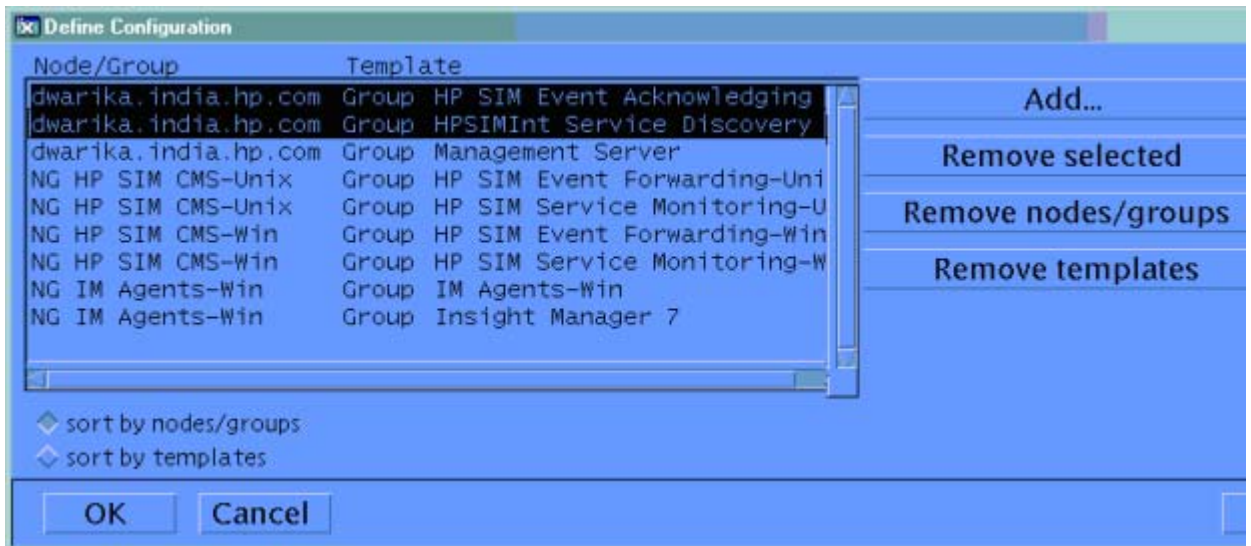


Figure 33 Templates selected in the Define Configuration window

4. Click **Remove Selected**.
5. Click **OK**.
6. From the OVO Node Bank window, select the OVO management server node.
7. Select **Actions > Agents Install / Update SW & Config...**. The Install / Update OVO Software and Configuration window displays.

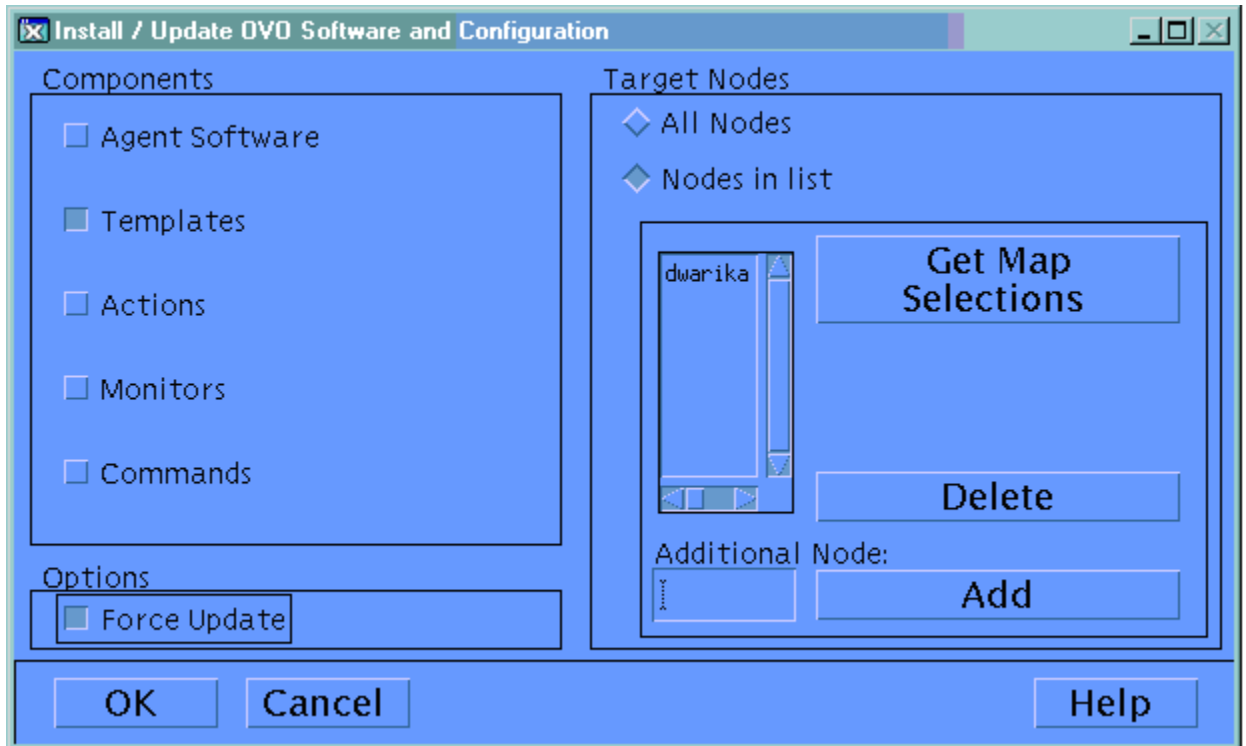


Figure 34 Install / Update OVO Software and Configuration window

8. From the **Components** pane, select the **Templates** check box.
9. Select the **Force Update** check box to ensure that the modifications are distributed.
10. Click **OK** to remove HP SIM Integration templates from the OVO management server node.

Removing HP SIM Integration Components

To remove the HP SIM Integration components, complete the following steps:

1. Stop HP SIM Integration Event Listener.
2. Delete the HP SIM Integration event forwarding tasks and queries from the HP SIM management server.
3. Remove nodes from HP SIM Integration node groups.
4. Remove HP SIM Integration components from nodes by running **Clean HP SIM-Unix** or **Clean HP SIM-Win** (depending on your node's operating system) application on all HP SIM Integration node groups.

Stopping HP SIM Integration Event Listener

To stop HP SIM Integration Event Listener complete the following steps:

1. Select the appropriate HP SIM CMS management server.
2. Right-click **Stop Event Listener** application and select **Execute**.

Deleting the HP SIM Integration Event Forwarding Tasks and Queries

To stop event forwarding from HP SIM to OVO, you must remove the event forwarding query and its corresponding task from the HP SIM management server.

To delete the event forwarding queries and tasks from HP SIM to OVO, complete the following steps:

1. Run the **Stop Fwding Imp Events** application on the HP SIM nodes to remove the **HPSIMInt_ImportantEvents**, the default query and task for forwarding HP SIM events.

2. If you have configured default event acknowledgement from HP SIM to OVO, run the **Stop Fwding Cleared Imp Events** application to remove **HPSIMInt_ClearedEvents**. It is the default query and task acknowledging HP SIM events.

To delete custom event queries and tasks from HP SIM, complete the following steps:

1. Run the **Remove Events Task** application for each custom task added to forward HP SIM events to OVO, by providing the name of the custom task.
2. Run the **Remove Query** application for each query to remove it from HP SIM, by providing the name of the custom query.

To verify whether HP SIM Integration event tasks and queries are deleted, complete the following steps:

1. log on to the HP SIM web interface and ensure that there is no **HPSIMInt_ImportantEvents** or **HPSIMInt_ClearedEvents** query in the **Events > Shared** tree on the **Systems and Events** panel.
2. In addition, you must check for any custom event queries that you have added.

 **NOTE:**

You can delete queries from the HP SIM web interface or using HP SIM CLI.

You can delete tasks from HP SIM using HP SIM CLI

For more information on HP SIM CLI, see the *HP SIM Command Line Interface Reference Guide*.

Removing HP SIM Integration from Nodes

To remove HP SIM Integration components from the managed nodes, complete the following steps:

1. Open the **HPSIMInt Utils** application group in HP SIM Integration application group.
2. Run **Clean HP SIM-Win** application on the **HP SIM CMS-Win** nodes.
3. Run **Clean HP SIM-Unix** application on the **HP SIM CMS-Unix** nodes.

Removing Nodes from HP SIM Integration Node groups

To remove nodes from HP SIM Integration node groups, complete the following steps:

1. Open **HP SIM CMS-Win** node group present in the node group bank.
2. Select all the nodes.
3. Right-click **Remove from this group**.
4. Repeat step 2 and 3, to remove nodes in the **HP SIM CMS-Unix** and **IM Agents-Win** Node groups.

Removing HP SIM Integration from the OVO Management Server

 **NOTE:**

If Storage Essentials SPI is installed, ensure that it is removed from all managed nodes before proceeding with this procedure.

To remove all the HP SIM Integration components from the OVO management server, complete the following steps:

1. Log in to the OVO management server as a **root** user.
2. In the terminal window, enter the following command:

```
/usr/sbin/swremove HPSIMInt
```

This removes all the HP SIM Integration components from the OVO management server.

For more information on uninstalling HP OpenView Smart Plug-ins, see the *HP OpenView Smart Plug-ins DVD Installation Guide*.

7 Troubleshooting HP SIM Integration

This chapter discusses the following topics:

- [Before you start](#)
- [Troubleshooting](#)
- [Known Issues](#)

Before you start

Before you start investigating problems encountered during installing, configuring, or using the HP SIM Integration; you should perform the following basic checks to ensure that the HP SIM Integration environment is correctly installed and configured.

Ensure that the procedures mentioned in [Installing HP SIM Integration](#) is completed successfully. This ensures that you have installed and configured the HP SIM Integration in the recommended manner and that the messages seen in the OVO Events Browser are:

- Generated by HP SIM
- Intercepted by the HP SIM Integration templates
- Appearing in the OVO message browser in the form you expect

If the preliminary check does not resolve the problems, then you must go through the list of common problems and their solutions described below.

Troubleshooting

HP SIM events not arriving on the OVO management server message browser

Symptom: No HP SIM events arriving on the OVO management server.

Action:

In order to resolve the issue, complete the following steps:

1. Ensure that the connection between the OVO management server and the HP SIM CMS is up and running.
2. Send a test message from the OVO console and ensure that it can be received in the OVO Message Browser. You can send a test message using the command `opcmmsg` on managed node.
3. Ensure that the HP SIM services are running on the HP SIM CMS node.
4. Verify that the OVO agent has been correctly installed and configured on the management server and the OVO agent processes (and in particular the control agent) are running.
5. Ensure that you have followed all the configuration steps in the order specified in the [Configuring the HP SIM Integration to Forward HP SIM Events](#) chapter.
6. Ensure that the correct HP SIM Credentials are entered when configuring the HP SIM CMS node as described in the [Obtaining HP Systems Insight Manager CMS Credentials](#) chapter, before adding the node to the HP SIM node group.
7. The **Get HP SIM Credentials** application must be run on one node at a time.

8. Check the HP SIM Integration logs `IndicationListener.log`, `Parser.log` and `DetailsParser.log` on the managed node for error messages. If the HP SIM credentials are invalid, there will be error messages in the logs indicating authentication failures.
9. Ensure that the HP SIM Integration templates have been correctly deployed to the HP SIM CMS or Insight Management Agent nodes.
10. Ensure that the HP SIM Integration Event Listener is running. For more information, see [Starting Event Listener on HP SIM Management Server](#).
11. Verify whether HP SIM Integration default events query **HPSIMInt_ImportantEvents** is present on HP SIM CMS GUI in the Events > Public tree on the Systems and Events panel. Check the existence of the query and task using HP SIM CLI commands `mxtask` and `mxquery` respectively on HP SIM CMS node.
12. Check the task definition and the Event Listener port to ensure that they are both configured for the same port number - if not see [Re-configuring HP SIM Integration to Forward HP SIM Events](#) section to modify the port. To check the task definition, use the HP SIM CLI command `mxtask -lf <taskname>` to list the XML task definition and check the URL field to determine which port number the task is configured to send events to. Check the listener port by running the HP SIM Integration application **Status Event Listener** – the application output contains the Event Listener port.
13. Check the host that the HP SIM CMS and Event Listener are running on for port conflicts. Ensure that there are no other services running on the port that the Event Listener is using. If there is a port conflict, change the port number, and use a free port number. For more information on changing the Event Listener port, see [Re-configuring HP SIM Integration to Forward HP SIM Events](#).

Automatic acknowledgement from OVO to HP SIM is not working

Symptom: Acknowledging an event on OVO console is not clearing the event in HP SIM CMS.

Action: In order to resolve the issue, check the following steps:

1. Ensure that you have carried out the configuration steps described in [Configuring Event Clearing from OVOU to HP SIM](#) chapter.
2. Ensure that the correct HP SIM Credentials are entered when configuring the HP SIM CMS node. See [Obtaining HP Systems Insight Manager CMS Credentials](#) section.
3. Check the HP SIM Integration logs `IndicationListener.log`, `Parser.log` and `DetailsParser.log` on the managed node for error messages. If the HP SIM credentials are invalid, there will be error messages in the logs indicating authentication failures. See [Obtaining HP Systems Insight Manager CMS Credentials](#) section for instructions on entering the HP SIM credentials.
4. Ensure that the HP SIM Event Acknowledging template **HPSIMInt-HPSIM_ClearEvents** has been deployed on the OVO Management Server. See [Installing HP SIM Integration Event Acknowledge/Clear Template on the OVO Management Server](#)

HP SIM event details in OVO do not describe the problem adequately

Symptom: HP SIM event displayed in the OVO message browser does not contain adequate descriptive text

Action:

1. Select an HP SIM event from the message group **HPSIMInt-Systems_Insight_Manager**.
2. Right-click the event, and select **Perform/Stop Action > Perform Operator-Initiated Action**. The HP Systems Insight Manager login page displays.
3. Provide the HP SIM credentials. This launches HP SIM GUI into the System Page for the device the event was reported on.
4. Click the **Events** tab to view the full event text.

Known Issues

Operator initiated action or application fails to launch web interface

Symptom: Message Operator initiated action or application fails to launch web interface.

Description: The message operator initiated action or application fails to launch web interface. This happens when Netscape, the default OVO browser, is not present.

Action: Configure OVO for an available web browser (like Mozilla).

To configure a Web browser, complete the following steps:

1. Set the environment variable `$WWW_BROWSER=<Web browser name>`
2. Include the Web browser path to the environment variable, `$PATH`.
3. Add the following line to the `/etc/opt/OV/share/conf/ovweb.conf` file:
`Browser: <browser path> %s`

Perform/Stop Action option is disabled for messages from monitor templates of HP SIM Integration

Symptom: The Operator Initiated Action on OVO message browser is disabled, preventing the execution of Remote Actions on DCE Nodes.

Description: This option is disabled by default

Action: To enable this option, complete the following steps:

1. Open the following file for editing
2. Insert the following rules in the xml file.
`"/etc/opt/OV/share/conf/OpC/mgmt_sv/remactconf.xml"`

```
<rule>
  <doc>Actions from HP SIM CMS-Win node group to management server</doc>
  <if>
    <source>
      <nodegroup>HP SIM CMS-Win</nodegroup>
    </source>
    <target>
      <mgmtsrv/>
    </target>
    <certified>>false</certified>
  </if>
  <allow/>
</rule>
<rule>
  <doc>Actions from HP SIM CMS-Unix node group to management server</doc>
  <if>
    <source>
      <nodegroup>HP SIM CMS-Unix</nodegroup>
    </source>
    <target>
      <mgmtsrv/>
    </target>
    <certified>>false</certified>
  </if>
  <allow/>
</rule>
<rule>
  <doc>Actions from IM Agents-Win node group to management server</doc>
  <if>
    <source>
      <nodegroup>IM Agents-Win</nodegroup>
```

```
        </source>
        <target>
            <mgmtsrv/>
        </target>
        <certified>>false</certified>
    </if>
    <allow/>
</rule>
```

3. Save and close the file.

Meaningless HP SIM message in OVO message browser

Symptom: The OVO message browser displays the following incomplete message:

For further information click on the event details link below.

Description: This message is displayed if the version of HP SIM is lower than 5.0 SP5.

Action: Upgrade the version of HP SIM to version 5.0 SP5.

A Applications

This appendix describes configuration and troubleshooting utilities provided by the HP SIM Integration applications. Following are the application groups:

- HP Systems Insight Manager-Unix
- HP Systems Insight Manager-Win
- HPSIMInt Utils
- Insight Management Agents
- Insight Manager 7

HP Systems Insight Manager-Unix

The **HP Systems Insight Manager-Unix** application group includes applications for HP SIM Unix Nodes.

[Table 20](#) describes the applications under HP SIM-Unix application group.

Table 20 HP Systems Insight Manager-Unix Application

Application	Description
Add Nodes to HP SIM	Adds nodes to the HP SIM server.
Create Events Task	Creates Events Task on HP SIM to forward events to Event Listener.
Execute HP SIM Tool	Execute HP SIM tool on its managed nodes.
Fwd Cleared Imp Events	Creates the query HPSIMInt_ClearedEvents and the task HPSIMInt_ClearedEvents on HP SIM for forwarding cleared important events from HP SIM to OVO
Fwd Imp Events	Creates the query HPSIMInt_ImportantEvents and the task HPSIMInt_ImportantEvents on HP SIM for forwarding important events from HPSIM to OVO
Get HP SIM Nodes	Gets nodes being managed by the HP SIM server
Get HP SIM Port	Gets the SSL port to be used by other HP SIM tools to communicate to the HP SIM server
Get HP SIM Tool Status	Gets the status of tool execution on HP SIM managed nodes
Launch HP SIM Console	Launches the HP SIM console
Remove Events Task	Removes Events Task from HP SIM that forwards events to Event Listener
Remove Query	Removes the user defined query from HP SIM
Start Event Listener	Starts HP SIM Integration Event Listener and registers as subagent of OVO Agent to forward events to OVO
Start HP SIM Service	Starts HP SIM Service
Status Event Listener	Get the status of HP SIM Integration Event Listener that forwards events to OVO
Status HP SIM Service	Get the status HP SIM Service
Stop Event Listener	Stops HP SIM Integration Event Listener and unregisters as subagent of OVO Agent to stop forwarding events to OVO
Stop Fwding Cleared Imp Events	Removes task HPSIMInt_ClearedEvents and query HPSIMInt_ClearedEvents on HP SIM to stop forwarding the cleared important events from HP SIM to OVO
Stop Fwding Imp Events	Removes task HPSIMInt_ImportantEvents and query HPSIMInt_Important on HP SIM to stop forwarding the important events from HP SIM to OVO
Stop HP SIM Service	Stops HP SIM Service

HP Systems Insight Manager-Win

The **HP Systems Insight Manager-Win** application group includes applications for HP SIM Windows nodes.

[Table 21](#) describes the applications under HP Systems Insight Manager-Win application group.

Table 21 HP Systems Insight Manager-Win Application

Application	Description
Add Nodes to HP SIM	Adds nodes to HP SIM server.
Create Events Task	Creates Events Task on HP SIM to forward events to Event Listener.
Execute HP SIM Tool	Executes HP SIM tool on its managed nodes.
Fwd Cleared Imp Events	Creates the query HPSIMInt_ClearedEvents and the task HPSIMInt_ClearedEvents on HP SIM for forwarding cleared important events from HPSIM to OVO
Fwd Imp Events	Creates the query HPSIMInt_ImportantEvents and the task HPSIMInt_ImportantEvents on HP SIM for forwarding important events from HP SIM to OVO
Get HP SIM Nodes	Gets nodes that are managed by the HP SIM server
Get HP SIM Port	Gets the SSL port to be used by other HP SIM tools to communicate to the HP SIM server
Get HP SIM Tool Status	Gets the status of tool execution on HP SIM managed nodes
Launch HP SIM Console	Launches the HP SIM console
Remove Events Task	Removes Events Task from HP SIM that forwards events to Event Listener
Remove Query	Removes the user defined query from HP SIM
Start Event Listener	Starts HP SIM Integration Event Listener and registers as subagent of OVO Agent to forward events to OVO
Start OpenSSH Service	Starts OpenSSH Service
Start Pegasus WMI Mapper Service	Starts Pegasus WMI Mapper Service
Start HP SIM Service	Starts HP SIM Service
Status Event Listener	Gets the status of HP SIM Integration Event Listener that forwards events to OVO
Status HP SIM Service	Gets the status HP SIM Service
Status OpenSSH Service	Gets the status of OpenSSH Service
Status Pegasus WMIMapper Service	Gets the status of Pegasus WMI Mapper Service
Stop Event Listener	Stops HP SIM Integration Event Listener and unregisters as subagent of OVO Agent to stop forwarding events to OVO
Stop Fwding Cleared Imp Events	Removes task HPSIMInt_ClearedEvents" and query "HPSIMInt_ClearedEvents" on HP SIM" to stop forwarding the cleared important events from HP SIM to OVO
Stop Fwding Imp Events	Removes task HPSIMInt_ImportantEvents and query HPSIMInt_Important on HP SIM to stop forwarding the important events from HP SIM to OVO
Stop HP SIM Service	Stops HP SIM Service
Stop Pegasus WMI Mapper Service	Stops Pegasus WMI Mapper Service
Stop OpenSSH Service	Stops OpenSSH Service
Stop Pegasus WMI Mapper Service	Stops Pegasus WMI Mapper Service

HP Systems Insight Manager-Unix application group consists of applications for HP Systems Insight Manager Unix nodes.

HP SIM Integration Utils

The **HPSIMInt Utils** application group include applications for performing administrative tasks for HP SIM Integration.

Table 22 describes the applications under HP SIM Integration Utils application group.

Table 22 HP SIM Integration Utils Applications

Application	Description
Clean HP SIM - Unix	Deletes HP SIM Integration files on the HP SIM Unix managed node
Clean HP SIM - Win	Deletes HP SIM Integration files on the HP SIM Windows managed node
Discover HP SIM CMS-Unix	Performs HP SIM CMS Service Discovery on the Unix managed nodes
Discover HP SIM CMS-Win	Performs HP SIM CMS Service Discovery on the Windows managed nodes
Discover IM Agents-Win	Performs IM Agents and Insight Manager 7 Service Discovery on the Windows managed nodes
Get HP SIM Credentials	Gets the user name and password of HP SIM for HP SIM Integration
Self-Healing Info	Runs the HP SIM Integration Data collector on managed nodes
Tracing Off - Unix	Sets the HP SIM Integration tracing to OFF on the Unix managed nodes
Tracing Off - Win	Sets the HP SIM Integration tracing to OFF on the Windows managed nodes
Tracing On - Unix	Sets the HP SIM Integration tracing to ON state on the Unix managed nodes
Tracing On - Win	Sets the HP SIM Integration tracing to ON on the Windows managed nodes
Version Verify	Verifies the version of HP SIM Integration files

 **NOTE:**

The Trace ON/OFF application enables trace ONLY for service discovery module of HP SIM Integration and application does not support other modules.

Insight Management Agents

The **Insight Management Agents** application group includes applications for Insight Management Agents.

Table 23 describes the applications under Insight Management Agents application group.

Table 23 Insight Management Agents Applications

Application	Description
Configure SNMP Trap Destination	Configures SNMP trap destination on the Insight Management agent nodes
Launch SysMgmt Homepage	Launches System Management Homepage
Launch iLO Web Interface	Launches Integrated Lights-Out Web Interface.
Start Foundation Agents	Starts Foundation Agents Service
Start NIC Agents	Starts NIC Agents Service
Start Server Agents	Starts Server Agents Service
Start Storage Agents	Starts Storage Agents Service
Start SysMgmt Homepage	Starts System Management Home page Service
Start Version Control Agent	Starts Version Control Agent Service
Status Foundation Agents	Gets the status of Foundation Agents Service
Status NIC Agents	Gets the status of NIC Agents Service
Status Server Agents	Gets the status of Server Agents Service
Status Storage Agents	Gets the status of Storage Agents Service
Status SysMgmt Homepage	Gets the status of Web Agent Service
Status Version Control Agent	Status Version Control Agent Service
Stop Foundation Agents	Stops Foundation Agent Service
Stop NIC Agents	Stops NIC Agents Service
Stop Server Agents	Stops Server Agents Service
Stop Storage Agents	Stops Storage Agents Service
Stop SysMgmt Homepage	Stops System Management Home page Service
Stop Version Control Agent	Stops Version Control Agent Service

Insight Manager 7

The **Insight Manager 7** application group includes applications for Insight Manager 7 nodes.

[Table 24](#) describes the applications under Insight Management Agents application group.

Table 24 Insight Manager 7 Applications

Application	Description
Start Insight Manager 7	Starts Insight Manager 7 Service
Status Insight Manager 7	Status of Insight Manager 7 Service
Stop Insight Manager 7	Stops Insight Manager 7 Service

Tracing

If tracing is enabled, all tracing information generated by the HP SIM Integration scripts and executables are written to the following file:

HP-UX: `/var/opt/OV/log/HPSIMInt/HPSIMInt.trc`

Linux: /var/opt/OV/log/HPSIMInt/HPSIMInt.trc

Window: %OvAgentDir%\log\HPSIMInt\HPSIMInt.trace

You can enable tracing by setting a flag in the configuration file/data:

HP-UX: /var/opt/OV/conf/HPSIMInt/HPSIMInt.cfg

Linux: /var/opt/OV/conf/HPSIMInt/HPSIMInt.cfg

Windows Registry key: HKLM\Software\Hewlett-Packard\HP OpenView\HPSIMInt\Trace



NOTE:

The Trace ON/OFF application is only applicable for the service discovery module of HP SIM Integration.



NOTE:

The HP SIM Integration allows tracing to be set only on the HP SIM CMS managed nodes.

B Templates

When the HP SIM Integration is installed, a number of template groups are uploaded to the OVO database.

The following high-level HP SIM Integration template groups are available in the HP SIM Integration:

- HP SIM Event Acknowledging
- HP SIM CMS-Unix
- HP SIM CMS-Win
- HPSIMInt Service Discovery
- IM Agents-Win
- Insight Manager 7

Templates Deployed on the OVO Management Server

The following templates groups contain templates that can be deployed to the OVO management server:

- HP SIM Event Acknowledging
- HP SIM Service Discovery

HP SIM Event Acknowledging Template Groups

The HP SIM Event Acknowledging template groups consist of templates for clearing events on HP SIM when these events are acknowledged on OVO.

Table 25 describes the template under HP SIM Event Acknowledging template groups.

Table 25 HP SIM Event Acknowledging Groups

Template	Description	Type
HPSIMInt-HPSIM_ClearEvents	Clears the events on HP Systems Insight Manager when it is acknowledged on OVO Unix.	Schedule

HPSIMInt Service Discovery Template Groups

The HP SIM Integration Service Discovery template group consists of templates for HP SIM CMS, IM Agents, and IM 7 Service Discovery.

Table 26 describes the description of templates under HPSIMInt Service Discovery template groups.

Table 26 HPSIMInt Service Discovery Templates

Template	Description	Type
HPSIMInt-HPSIM_ServiceDiscovery-Unix	Discovers of HP SIM CMS services on the Unix nodes.	Schedule
HPSIMInt-HPSIM_ServiceDiscovery-Win	Discovers of HP SIM CMS services on the Windows nodes.	Schedule
HPSIMInt-IMAagents_ServiceDiscovery-Win	Discovers of IM Agents and IM 7 services on the Windows nodes.	Schedule

Templates Deployed on the OVO Managed Nodes

The templates in the following template groups can be deployed to the OVO managed nodes:

- HP SIM CMS-Unix
- HP SIM CMS-Win
- IM Agents-Win
- Insight Manager 7

HP SIM CMS-Unix Template Groups

The **HP SIM CMS-Unix** template groups consists of templates for HP Systems Insight Manager for Unix. These templates are deployed to the HP SIM CMS Unix managed nodes.

[Table 27](#) describes the templates under HP SIM CMS-Unix template groups.

Table 27 HP SIM CMS-Unix Templates

Template	Description	Type
HP SIM Event Forwarding-Unix	Forwards events from HP SIM to OVO.	Group
HP SIM Service Monitoring-Unix	Monitors HP SIM services on Unix nodes.	Group

The **HP SIM Event Forwarding-Unix** template group contains the HP SIM Event Forwarding-Unix templates.

[Table 28](#) describes the templates under HP SIM Event Forwarding-Unix template groups.

Table 28 HP SIM Event Forwarding-Unix Templates

Template	Description	Type
HPSIMInt-HPSIM_Events-Unix	Forwards and acknowledges the HP SIM Events on the OVO.	Message
HPSIMInt-HPSIM_EventListenerMonitoring-Unix	Monitors HP SIM Integration Event Listener on Unix nodes.	Monitor

The **HP SIM Service Monitoring-Unix** template group HP SIM Service Monitoring-Unix templates.

[Table 29](#) describes the template under HP SIM Service Monitoring-Unix template groups.

Table 29 HP SIM Service Monitoring-Unix

Template	Description	Type
HPSIMInt-HPSIM_HPSIMServiceMonitoring-Unix	Monitors the HP SIM service on Unix nodes.	Monitor

HP SIM CMS-Win Template Groups

HP SIM CMS-Win template groups consists of templates for HP SIM for Windows. These templates are deployed to the HP SIM CMS Windows managed nodes.

[Table 30](#) describes the templates under HP SIM CMS-Win template groups.

Table 30 HP SIM CMS-Win Templates

Template	Description	Type
HP SIM Event Forwarding-Win	Templates for forwarding events from HP SIM to OVO.	Message
HP SIM Service Monitoring-Win	Templates for monitoring HP SIM services on the Windows nodes.	Group

The **HP SIM Event Forwarding-Win** template group contains the HP SIM Event Forwarding-Win templates described in the following table.

[Table 31](#) describes the templates under HP SIM Event Forwarding-Win template groups.

Table 31 HP SIM Event Forwarding-Win Templates

Template	Description	Type
HPSIMInt-HPSIM_Events-Win	Forwards and acknowledges the HP Systems Insight Manager Events on to OVO.	Message
HPSIMInt-HPSIM_EventListenerMonitoring-Win	Monitors HP SIM services on Windows nodes.	Monitor

The **HP SIM Service Monitoring-Win** template group contains the HP SIM Event Forwarding-Win templates.

[Table 32](#) describes the templates under HP SIM Service Monitoring-Win template groups.

Table 32 HP SIM Service Monitoring-Win Templates

Template	Description	Type
HPSIMInt-HPSIM_HPSIMServiceMonitoring-Win	Monitors the HP SIM service on the Windows nodes.	Monitor
HPSIMInt-HPSIM_OpenSSHdServiceMonitoring-Win	Monitors the OpenSSHd service on the Windows nodes.	Monitor
HPSIMInt-HPSIM_WMI MapperServiceMonitoring-Win	Monitors the Pegasus WMI Mapper service on Windows nodes	Monitor

IM Agents-Win Template Groups

The **IM Agents-Win** template groups consist of templates for Insight Management Agents on Windows nodes. These templates are deployed to the IM Agent managed nodes.

[Table 33](#) describes the templates under IM Agents-Win template groups.

Table 33 IM Agents-Win Templates

Template	Description	Type
IM Agents Hardware Traps	Forwarding SNMP Traps from IM Agents to OVO.	Group
IM Agents Service Monitoring	Monitors IM Agents Services.	Group

The **IM Agents Hardware Traps** template group contains list of hardware trap templates listed in the following table.

[Table 34](#) describes the templates under IM Agents Hardware Traps template groups.

Table 34 IM Agents Hardware Traps Templates

Template	Description	Type
HPSIMInt-IMAagents_FwdCIMTraps	Forwards IM Agents ProLiant GbE Switches SNMP Traps.	Trap
HPSIMInt-IMAagents_FwdCMCTraps	Forwards IM Agents Console Management Controller SNMP Traps.	Trap
HPSIMInt-IMAagents_FwdCMCTraps	Forwards IM Agents Console Management Controller SNMP Traps.	Trap
HPSIMInt-IMAagents_FwdChannelArray-Traps	Forwards IM Agents Fibre Channel Array SNMP Traps	Trap
HPSIMInt-IMAagents_FwdClusterTraps	Forwards IM Agents Cluster SNMP Traps	Trap
HPSIMInt-IMAagents_FwdDMITraps	Forwards IM Agents DMI SNMP Traps	Trap
HPSIMInt-IMAagents_FwdDriveArrayTraps	Forwards IM Agents Intelligent Drive Array SNMP Traps	Trap
HPSIMInt-IMAagents_FwdHostOSTraps	Forwards IM Agents Host Operating System SNMP Traps	Trap
HPSIMInt-IMAagents_FwdICATraps	HPSIMInt-IMAagents_FwdICATraps	Trap
HPSIMInt-IMAagents_FwdIDEDriveTraps	Forwards IM Agents Manageable IDE Drive SNMP Traps	Trap
HPSIMInt-IMAagents_FwdNICTraps	Forwards IM Agents Network Interface Card SNMP Traps	Trap
HPSIMInt-IMAagents_FwdPCConfigTraps	Forwards IM Agents PC Equipment Configuration SNMP Traps	Trap
HPSIMInt-IMAagents_FwdPowerDevices-Traps	Forwards IM Agents Power Devices SNMP Traps	Trap
HPSIMInt-IMAagents_FwdRPMTraps	Forwards IM Agents Rack Power Manager SNMP Traps	Trap
HPSIMInt-IMAagents_FwdRackTraps	Forwards IM Agents Rack Information SNMP traps	Trap
HPSIMInt-IMAagents_FwdRaidController-Traps	Forwards IM Agents Raid Controller SNMP Traps	Trap
HPSIMInt-IMAagents_FwdRecoverySvr-Traps	Forwards IM Agents Recovery Server SNMP Traps	Trap
HPSIMInt-IMAagents_FwdSANTraps	Forwards IM Agents Storage Area Networks SNMP traps	Trap
HPSIMInt-IMAagents_FwdSCSIDevices-Traps	Forwards IM Agents SCSI Devices' SNMP Traps	Trap
HPSIMInt-IMAagents_FwdSTEAMTraps	Forwards IM Agents StorageWorks Enterprise Array Manager SNMP traps	Trap
HPSIMInt-IMAagents_FwdSWCCTraps	Forwards IM Agents 'StorageWorks Command Console' SNMP traps	Trap
HPSIMInt-IMAagents_FwdServerMgrTraps	Forwards IM Agents Server Manager SNMP Traps	Trap
HPSIMInt-IMAagents_FwdServiceIncident-Traps	Forwards IM Agents Service Incident Information SNMP Traps	Trap
HPSIMInt-IMAagents_FwdStorageSysTraps	Forwards IM Agents 'Storage Systems' SNMP Traps	Trap

Template	Description	Type
HPSIMInt-IMAagents_FwdSvrHealthTraps	Forwards IM Agents Server Health SNMP Traps	Trap
HPSIMInt-IMAagents_FwdSysInfoTraps	Forwards IM Agents System Information SNMP Traps	Trap
HPSIMInt-IMAagents_FwdThresholdMgmt-Traps	Forwards IM Agents Threshold Management SNMP Traps	Trap
HPSIMInt-IMAagents_FwdUPSTraps	Forwards IM Agents Uninterrupted Power Supply SNMP Traps	Trap

The **IM Agents Service Monitoring** template group contains the list of service monitoring templates.

[Table 35](#) describes the templates under IM Agents Service Monitoring templates.

Table 35 IM Agents Service Monitoring Templates

Template	Description	Type
HP Remote Insight Lights Out	Templates for Remote Insight Lights Out	Group
IM Foundation Agents	Templates for Foundation Agents	Group
IM NIC Agents	Templates for NIC Agents	Group
IM Server Agents	Templates for Server Agents	Group
IM Storage Agents	Templates for Storage Agents	Group
IM System Homepage	Templates for System Management Home page	Group
IM Version Control Agent	Templates for Version Control Agent	Group

The **HP Remote Insight Lights Out** template contains the following template:

- **HPSIMInt-IMAagents_FwdRIBTraps**
Description: Forwards IM Agents Remote Insight Board SNMP Traps
Type: Trap

The **IM Foundation Agents** template contains the following template:

- **HPSIMInt-IMAagents_FoundationAgents**
Description: Monitors the Foundation Agents Service.
Type: Monitor

The **IM NIC Agents** template contains the following template:

- **HPSIMInt-IMAagents_NICAgents**
Description: Monitors the NIC Agents Service.
Type: Monitor

The **IM Server Agents** template contains the following template:

- **HPSIMInt-IMAagents_ServerAgents**
Description: Monitors the Server Agents Service.
Type: Monitor

The **IM Storage Agents** template contains the following template:

- **HPSIMInt-IMAagents_StorageAgents**
Descriptions: Monitors the Storage Agents Service.
Type: Monitor

The **IM System Homepage** template contains the following template:

- **HPSIMInt-IMAagents_SysMgmtHomepage**
Description: Monitors the System Management Home page Service.
Type: Monitor

The **IM Version Control Agent** template contains the following template:

- **HPSIMInt-IMAagents_VCAgent**
Description: Monitors the Version Control Agent Service.
Type: Monitor

Insight Manager 7 Template Group

Insight Manager 7 template group consists of templates for Insight Manager 7. These templates are deployed to the Insight Manager 7 nodes.

Table 36 describes the templates under Insight Manager 7 template group.

Table 36 Insight Manager 7

Template	Description	Type
HPSIMInt-InsightManager7	Checks the Insight Manager 7 service	Monitor

SNMP Trap Templates Rules

The template group **IM Agents Hardware Traps** contains SNMP Trap Interceptor templates with rules or conditions to match SNMP traps from the Insight Management Agents. There are rules to match a trap generated for different status of the monitored object.

For example: A trap is generated when status of a physical drive changes from Ready to Rebuild to Rebuilding, there is a rule or condition to match this change of status of the Physical drive and send a message with correct status of the Physical drive. The existing message on the OVO console or message browser, related to this object is acknowledged by the arriving message. Upon receiving a message, users can drill down to the root cause of the problem using the System Management Home page that can be launched using an operator-initiated action. The templates and conditions in them are listed below. The Insight Management Agent SNMP Trap from which traps are used to create the conditions are mentioned in the parentheses following the template name.

NOTE:

The Operator Initiated Action in the templates opens a web browser displaying the System Management Home page of the node from which the message is received.

Insight Management Agent SNMP Trap Templates and Rules for HPSIMInt_IMAagents_FwdPowerDevices-Traps(cpqpower.mib)

1. Insight Management Agent: A critical alarm has occurred.(.1.3.6.1.4.1.232.165.1.1)
2. Insight Management Agent: A Warning Alarm has occurred. (.1.3.6.1.4.1.232.165.1.2)
3. Insight Management Agent: An Informational alarm has occurred. (.1.3.6.1.4.1.232.165.1.3)
4. Insight Management Agent: An alarm has cleared. (.1.3.6.1.4.1.232.165.1.4)
5. Insight Management Agent: This Trap is sent each time a power device is initialized. (.1.3.6.1.4.1.232.165.1.6)

Insight Management Agent SNMP Trap Templates and Rules for HPSIMInt_IMAagents_FwdServiceIncidentTraps (cpqservice.mib)

1. Insight Management Agent: A service incident is generated when it is determined that a service event has occurred upon an analysis of system initiated event traps or an update to a service event has occurred .(.1.3.6.1.4.1.232.0.164001)

2. Insight Management Agent: A service incident is generated when it is determined that a service event has occurred upon an analysis of system initiated event traps or an update to a service event has occurred .(1.3.6.1.4.1.232.0.164002)
3. Insight Management Agent: A service incident is generated when it is determined that a service event has occurred upon an analysis of system initiated event traps or an update to a service event has occurred .(1.3.6.1.4.1.232.0.164003)

Insight Management Agent SNMP Trap templates and Rules for HPSIMInt-IMAgents_FwdChannelArrayTraps (uses CPQFCA.MIB)

The templates or templates and the rules or conditions in them are listed. The Insight Management Agent SNMP Trap from which traps are used to create the rules are mentioned in the parentheses following the template name.

1. Insight Management Agent: Fibre Channel Array Logical Drive status is FAILED contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16001)
2. Insight Management Agent: Fibre Channel Array Logical Drive status is RECOVERING, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16001)
3. Insight Management Agent: Fibre Channel Array Logical Drive status is READY for REBUILD, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16001)
4. Insight Management Agent: Fibre Channel Array Logical Drive status is REBUILDING, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16001)
5. Insight Management Agent: Fibre Channel Array Logical Drive status is WRONG DRIVE, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16001)
6. Insight Management Agent: Fibre Channel Array Logical Drive status is BAD CONNECTION, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16001)
7. Insight Management Agent: Fibre Channel Array Logical Drive status is OVERHEATING, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16001)
8. Insight Management Agent: Fibre Channel Array Logical Drive status is SHUTDOWN, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16001)
9. Insight Management Agent: Fibre Channel Array Logical Drive status is UNAVAILABLE, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16001)
10. Insight Management Agent: Fibre Channel Array Spare Drive status is FAILED, contained in SNMP Varbind 7 on bus contained in SNMP Varbind 5. (1.3.6.1.4.1.232.0.16002)
11. Insight Management Agent: Fibre Channel Array Spare Drive status is BUILDING, contained in SNMP Varbind 7 on bus contained in SNMP Varbind 5. (1.3.6.1.4.1.232.0.16002)
12. Insight Management Agent: Fibre Channel Array Physical Drive status is FAILED, contained in SNMP Varbind 7. (1.3.6.1.4.1.232.0.16003)
13. Insight Management Agent: Fibre Channel Array Physical Drive status is PREDICTIVEFAILURE, contained in SNMP Varbind 7. (1.3.6.1.4.1.232.0.16003)
14. Insight Management Agent: Fibre Channel Array Physical Drive status is THRESHOLDEXCEEDED, contained in SNMP Varbind 7. (1.3.6.1.4.1.232.0.16003)
15. Insight Management Agent: Fibre Channel Array Accelerator Board status is TEMPORARILY DISABLED, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16004)
16. Insight Management Agent: Fibre Channel Array Accelerator Board status is PERMANENTLY DISABLED, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16004)
17. Insight Management Agent: Fibre Channel Array Accelerator lost battery power. Data loss is possible. (1.3.6.1.4.1.232.0.16005)
18. Insight Management Agent: Fibre Channel Array Accelerator Board battery status is failed. (1.3.6.1.4.1.232.0.16006)
19. Insight Management Agent: Fibre Channel Array Controller status is FAILED, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16007)
20. Insight Management Agent: Fibre Channel Array Controller status is OFFLINE, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16007)
21. Insight Management Agent: Fibre Channel Tape Controller Status is OFFLINE, contained in SNMP Varbind 4 for a tape controller contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.16008)

22. Insight Management Agent: Fiber Channel Tape Library Status is DEGRADED, contained in SNMP Varbind 7 for the tape library. (1.3.6.1.4.1.232.0.16009)
23. Insight Management Agent: Fiber Channel Tape Library Status is FAILED, contained in SNMP Varbind 7 for the tape library. (1.3.6.1.4.1.232.0.16009)
24. Insight Management Agent: Fibre Channel Tape Library Door Status is OPEN, contained in SNMP Varbind 7 for tape library. (1.3.6.1.4.1.232.0.16010)
25. Insight Management Agent: Fibre Channel Tape Library Door Status is CLOSED, contained in SNMP Varbind 7 for tape library. (1.3.6.1.4.1.232.0.16010)
26. Insight Management Agent: Fibre Channel Tape Drive Status is DEGRADED, contained in SNMP Varbind 7 for a tape drive. (1.3.6.1.4.1.232.0.16011)
27. Insight Management Agent: Fibre Channel Tape Drive Status is FAILED, contained in SNMP Varbind 7 for a tape drive. (1.3.6.1.4.1.232.0.16011)
28. Insight Management Agent: Fibre Channel Tape Drive Status is OFFLINE, contained in SNMP Varbind 7 for a tape drive. (1.3.6.1.4.1.232.0.16011)
29. Insight Management Agent: Fibre Channel Tape Drive Status is MISSING WAS OK, contained in SNMP Varbind 7 for a tape drive. (1.3.6.1.4.1.232.0.16011)
30. Insight Management Agent: Fibre Channel Tape Drive Status is MISSING WAS OFFLINE, contained in SNMP Varbind 7 for a tape drive. (1.3.6.1.4.1.232.0.16011)
31. Insight Management Agent: Fibre Channel Tape Drive cleaning required. (1.3.6.1.4.1.232.0.16012)
32. Insight Management Agent: Cleaning tape needs replacing (1.3.6.1.4.1.232.0.16013)
33. Insight Management Agent: Fibre Channel Host Controller Status is FAILED, contained in SNMP Varbind 4 for a host controller contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.16015)
34. Insight Management Agent: Fibre Channel Host Controller Status is LOOPDEGRADED, contained in SNMP Varbind 4 for a host controller contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.16015)
35. Insight Management Agent: Fibre Channel Host Controller Status is LOOPFAILED contained in SNMP Varbind 4 for a host controller contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.16015)
36. Insight Management Agent: External Array Redundant Controller Active (1.3.6.1.4.1.232.0.16014)
37. Insight Management Agent: Fibre Channel Array Physical Drive status is FAILED, contained in SNMP Varbind 7. (1.3.6.1.4.1.232.0.16016)
38. Insight Management Agent: Fibre Channel Array Physical Drive status is PREDICTIVEFAILURE, contained in SNMP Varbind 7. (1.3.6.1.4.1.232.0.16016)
39. Insight Management Agent: Fibre Channel Array Physical Drive status is THRESHOLDEXCEEDED, contained in SNMP Varbind 7. (1.3.6.1.4.1.232.0.16016)
40. Insight Management Agent: Fibre Channel Array Accelerator Board status is TEMPORARILY DISABLED, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16017)
41. Insight Management Agent: Fibre Channel Array Accelerator Board status is PERMANENTLY DISABLED, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16017)
42. Insight Management Agent: Fibre Channel Array Accelerator lost battery power. Data Loss possible. (1.3.6.1.4.1.232.0.16018)
43. Insight Management Agent: Fibre Channel Array Accelerator Board Battery status is failed. (1.3.6.1.4.1.232.0.16019)
44. Insight Management Agent: Fibre Channel Array Controller status is FAILED, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16020)
45. Insight Management Agent: Fibre Channel Array Controller status is OFFLINE, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16020)
46. Insight Management Agent: Fibre Channel Host Controller Status is FAILED, contained in SNMP Varbind 4 for a host controller contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.16021)
47. Insight Management Agent: Fibre Channel Controller status is OK, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16010)
48. Insight Management Agent: Fibre Channel Host Controller Status is LOOPFAILED, contained in SNMP Varbind 4 for a host controller contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.16021)
49. Insight Management Agent : Fibre Channel Host Controller Status is SHUTDOWN, contained in SNMP Varbind 4 for the host controller contained in SNMP Varbind 3.(1.3.6.1.4.1.232.0.16021).

50. Insight Management Agent: Fibre Channel Array Logical Drive status is FAILED, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16022)
51. Insight Management Agent: Fibre Channel Array Logical Drive status is RECOVERING, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16022)
52. Insight Management Agent: Fibre Channel Array Logical Drive status is READY for REBUILD, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16022)
53. Insight Management Agent: Fibre Channel Array Logical Drive status is REBUILDING, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16022)
54. Insight Management Agent: Fibre Channel Array Logical Drive status is WRONG DRIVE, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16022)
55. Insight Management Agent: Fibre Channel Array Logical Drive status is BAD CONNECTION, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16022)
56. Insight Management Agent: Fibre Channel Array Logical Drive status is OVERHEATING, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16022)
57. Insight Management Agent: Fibre Channel Array Logical Drive status is SHUTDOWN, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16022)
58. Insight Management Agent: Fibre Channel Array Logical Drive status is UNAVAILABLE, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.16022)
59. Insight Management Agent: External Tape Drive Status is NORMAL, contained in SNMP Varbind 7 for a tape drive. (1.3.6.1.4.1.232.0.16023)
60. Insight Management Agent: External Tape Drive Status is DEGRADED, contained in SNMP Varbind 7 for a tape drive. (1.3.6.1.4.1.232.0.16023)
61. Insight Management Agent: External Tape Drive Status is FAILED, contained in SNMP Varbind 7 for a tape drive. (1.3.6.1.4.1.232.0.16023)
62. Insight Management Agent: External Tape Drive Status is OFFLINE, contained in SNMP Varbind 7 (1.3.6.1.4.1.232.0.16023)
63. Insight Management Agent: External Tape Drive Status is MISSING WAS OK, contained in SNMP Varbind 11 (1.3.6.1.4.1.232.0.16023)
64. Insight Management Agent: External Tape Drive Status is MISSING WAS OFFLINE, contained in SNMP Varbind 11 (1.3.6.1.4.1.232.0.16023)
65. Insight Management Agent: External Tape Drive cleaning required. (1.3.6.1.4.1.232.0.16024)
66. Insight Management Agent: Cleaning tape needs replacing (1.3.6.1.4.1.232.0.16025)
67. Insight Management Agent: External Tape Library status is NORMAL, contained in SNMP Varbind 11 (1.3.6.1.4.1.232.0.16026)
68. Insight Management Agent: External Tape Library status is DEGRADED, contained in SNMP Varbind 11 (1.3.6.1.4.1.232.0.16026)
69. Insight Management Agent: External Tape Library status is FAILED, contained in SNMP Varbind 11 (1.3.6.1.4.1.232.0.16026)
70. Insight Management Agent: External Tape Library status is OFFLINE, contained in SNMP Varbind 11 (1.3.6.1.4.1.232.0.16026)
71. Insight Management Agent: External Tape Library door status is OPEN, contained in SNMP Varbind 11 (1.3.6.1.4.1.232.0.16027)
72. Insight Management Agent: Fibre Channel Host Controller Status is FAILED, status is contained in SNMP Varbind 5 for a host controller contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.16028)
73. Insight Management Agent: Fibre Channel Host Controller Status is LOOPDEGRADED, contained in SNMP Varbind 5 for a host controller contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.16028)
74. Insight Management Agent: Fibre Channel Host Controller Status is LOOPFAILED, contained in SNMP Varbind 5 for a host controller contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.16028)
75. Insight Management Agent: Fibre Channel Host Controller Status is SHUTDOWN, contained in SNMP Varbind 5 for the host controller contained in Varbind 3. (1.3.6.1.4.1.232.0.16028)

Insight Management Agent SNMP Trap Templates and Rules for HPSIMint-IMAgents_FwdClusterTraps (uses CPQCLUS.MIB)

1. Insight Management Agent: Cluster contained in SNMP Varbind 3 has become degraded. (1.3.6.1.4.1.232.0.15001)
2. Insight Management Agent: Cluster contained in SNMP Varbind 3 has failed. (1.3.6.1.4.1.232.0.15002)
3. Insight Management Agent: Cluster service on contained in SNMP Varbind 3 has become degraded. (1.3.6.1.4.1.232.0.15003)
4. Insight Management Agent: Cluster service on node contained in SNMP Varbind 3 has failed. (1.3.6.1.4.1.232.0.15004)
5. Insight Management Agent: Cluster resource contained in SNMP Varbind 3 has become degraded. (1.3.6.1.4.1.232.0.15005)
6. Insight Management Agent: Cluster resource contained in SNMP Varbind 3 has failed. (1.3.6.1.4.1.232.0.15006)
7. Insight Management Agent: Cluster network contained in SNMP Varbind 3 has become degraded. (1.3.6.1.4.1.232.0.15007)
8. Insight Management Agent: Cluster network contained in SNMP Varbind 3 has failed. (1.3.6.1.4.1.232.0.15008)

Insight Management Agent SNMP Trap Polices and Rules for HPSIMInt-IMAagents_FwdCMCTraps (uses CPQCMC.MIB)

1. Insight Management Agent: Temperature in rack sensed by CMC temperature sensor 1 is NORMAL, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153001)
2. Insight Management Agent: Temperature in rack sensed by CMC temperature sensor 1 has exceeded High Threshold, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153001)
3. Insight Management Agent: Temperature in rack as sensed by CMC has exceeded Warning Threshold, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153001)
4. Insight Management Agent: Temperature in rack as sensed by CMC has gone below Minimum Threshold, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153001)
5. Insight Management Agent: Temperature in rack as sensed by CMC has exceeded High Threshold, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153002)
6. Insight Management Agent: Temperature in rack as sensed by CMC has exceeded Warning Threshold, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153002)
7. Insight Management Agent: Temperature in rack as sensed CMC has gone below Minimum Threshold, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153002)
8. Insight Management Agent: Status of Fan 1 in rack is Normal, status is contained in SNMP Varbind 5(.1.3.6.1.4.1.232.153.0.153003)
9. Insight Management Agent: Status of Fan 1 in rack is AutoOff, status is contained in SNMP Varbind 5(.1.3.6.1.4.1.232.153.0.153003)
10. Insight Management Agent: Status of Fan 1 in rack is SmokeOff, status is contained in SNMP Varbind 5(.1.3.6.1.4.1.232.153.0.153003)
11. Insight Management Agent: Status of Fan 1 in rack is DoorOff, status is contained in SNMP Varbind 5(.1.3.6.1.4.1.232.153.0.153003)
12. Insight Management Agent: Status of Fan 2 in rack is AutoOn, status is contained in SNMP Varbind 5(.1.3.6.1.4.1.232.153.0.153004)
13. Insight Management Agent: Status of Fan 2 in rack is AutoOff, status is contained in SNMP Varbind 5(.1.3.6.1.4.1.232.153.0.153004)
14. Insight Management Agent: Status of Fan 2 in rack is SmokeOff, status is contained in SNMP Varbind 5(.1.3.6.1.4.1.232.153.0.153004)
15. Insight Management Agent: Status of Fan 2 in rack is DoorOff, status is contained in SNMP Varbind 5(.1.3.6.1.4.1.232.153.0.153004)
16. Insight Management Agent: Status of voltage-supply to CMC is Normal, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153005)
17. Insight Management Agent: Status of voltage-supply to CMC is OverMax, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153005)

18. Insight Management Agent: Status of voltage-supply to CMC is UnderMin, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153005)
19. Insight Management Agent: Status of humidity is Normal, status is contained in SNMP Varbind 5(.1.3.6.1.4.1.232.153.0.153006)
20. Insight Management Agent: Status of humidity is OverMax, status is contained in SNMP Varbind 5(.1.3.6.1.4.1.232.153.0.153006)
21. Insight Management Agent: Status of humidity is UnderMin, status is contained in SNMP Varbind 5(.1.3.6.1.4.1.232.153.0.153006)
22. Insight Management Agent: Status of door or sidepanel of the rack in access point 1 is opened, status is contained in SNMP Varbind 5(.1.3.6.1.4.1.232.153.0.153007)
23. Insight Management Agent: Status of door or sidepanel of the rack in access point 1 is closed, status is contained in SNMP Varbind 5(.1.3.6.1.4.1.232.153.0.153007)
24. Insight Management Agent: Status of door or sidepanel of the rack in access point 2 is opened, status is contained in SNMP Varbind 5(.1.3.6.1.4.1.232.153.0.153008)
25. Insight Management Agent: Status of door or sidepanel of the rack in access point 2 is closed, status is contained in SNMP Varbind 5(.1.3.6.1.4.1.232.153.0.153008)
26. Insight Management Agent: Status of door or sidepanel of the rack in access point 3 is opened, status is contained in SNMP Varbind 5(.1.3.6.1.4.1.232.153.0.153009)
27. Insight Management Agent: Status of door or sidepanel of the rack in access point 4 is opened, status is contained in SNMP Varbind 5(.1.3.6.1.4.1.232.153.0.153010)
28. Insight Management Agent: Status of door or sidepanel of the rack in access point 4 is closed, status is contained in SNMP Varbind 5(.1.3.6.1.4.1.232.153.0.153010)
29. Insight Management Agent: Status of rack door locked by locking device 1 is Locked, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153011)
30. Insight Management Agent: Status of rack door locked by locking device 1 is Unlocked, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153011)
31. Insight Management Agent: Status of rack door locked by locking device 2 is Locked, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153012)
32. Insight Management Agent: Status of rack door locked by locking device 2 is Unlocked, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153012)
33. Insight Management Agent: Status of smoke presence in rack as detected by CMC is Normal, the status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153013)
34. Insight Management Agent: Status of smoke presence in rack as detected by CMC is Present, the status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153013)
35. Insight Management Agent: Status of shock or vibrations in rack as detected by CMC shock sensor is Normal, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153014)
36. Insight Management Agent: Status of shock or vibrations in rack as detected by CMC shock sensor is Present, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153014)
37. Insight Management Agent: Status of rack auxillary alarm input #1 as detected by CMC is Triggerred, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153015)
38. Insight Management Agent: Status of rack auxillary alarm input #1 as detected by CMC is ok, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153015)
39. Insight Management Agent: Status of rack auxiliary alarm input #1 as detected by CMC is triggered; status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153015)
40. Insight Management Agent: Status of rack auxiliary alarm input #1 as detected by CMC is ok, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153015)
41. Insight Management Agent: Status of rack auxillary alarm input #1 as detected by CMC is Triggerred, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153016)
42. Insight Management Agent: Status of rack auxillary alarm input #1 as detected by CMC is ok, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153016)
43. Insight Management Agent: NMS-alarm Status of Alarm1, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153017)

- 44. Insight Management Agent: NMS-alarm Status of Alarm2, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153018)
- 45. Insight Management Agent: The door locking device 1 needs Normal, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153019)
- 46. Insight Management Agent: The door locking device 1 needs attention, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153019)
- 47. Insight Management Agent: The door locking device 2 needs Normal, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153020)
- 48. Insight Management Agent: The door locking device 2 needs attention, status is contained in SNMP Varbind 5 (.1.3.6.1.4.1.232.153.0.153020)

Insight Management Agent SNMP Trap templates and Rules for HPSIMInt-IMAagents_FwdRaidControllerTraps (uses CPQCR.MIB)

- 1. Insight Management Agent: The primary controller in the subsystem has failed. (1.3.6.1.4.1.232.141.3.2.0.1)
- 2. Insight Management Agent: The primary controller in the subsystem has recovered. (1.3.6.1.4.1.232.141.3.2.0.2)
- 3. Insight Management Agent: The secondary controller in the subsystem has failed. (1.3.6.1.4.1.232.141.3.2.0.3)
- 4. Insight Management Agent: The secondary controller in the subsystem has recovered. (1.3.6.1.4.1.232.141.3.2.0.4)
- 5. Insight Management Agent: The RAIDset has failed and is off-line. (1.3.6.1.4.1.232.141.3.3.0.6)
- 6. Insight Management Agent: A RAID set has started the reconstruction process. (1.3.6.1.4.1.232.141.3.3.0.7)
- 7. Insight Management Agent: The RAIDset has become degraded. (1.3.6.1.4.1.232.141.3.3.0.8)
- 8. Insight Management Agent: A disk device has recovered. (1.3.6.1.4.1.232.141.3.5.0.10)
- 9. Insight Management Agent: A disk device has failed. (1.3.6.1.4.1.232.141.3.5.0.11)
- 10. Insight Management Agent: A disk device has recovered. (1.3.6.1.4.1.232.141.3.5.0.30)
- 11. Insight Management Agent: A disk device has failed. (1.3.6.1.4.1.232.141.3.5.0.31)
- 12. Insight Management Agent: One of the cooling fans in the primary enclosure has failed. (1.3.6.1.4.1.232.141.3.7.0.16)
- 13. Insight Management Agent: One of the cooling fans in the primary enclosure has recovered. (1.3.6.1.4.1.232.141.3.7.0.17)
- 14. Insight Management Agent: One of the power supplies in the primary enclosure has failed. (1.3.6.1.4.1.232.141.3.7.0.18)
- 15. Insight Management Agent: One of the power supplies in the primary enclosure has recovered. (1.3.6.1.4.1.232.141.3.7.0.19)
- 16. Insight Management Agent: The temperature in the primary enclosure has triggered a critical condition detected by the controller. (1.3.6.1.4.1.232.141.3.7.0.24)
- 17. Insight Management Agent: The temperature in the primary enclosure has returned to normal. (1.3.6.1.4.1.232.141.3.7.0.25)
- 18. Insight Management Agent: One of the cooling fans in the expansion cabinet has failed. (1.3.6.1.4.1.232.141.3.8.0.20)
- 19. Insight Management Agent: One of the cooling fans in the expansion cabinet has recovered. (1.3.6.1.4.1.232.141.3.8.0.21)
- 20. Insight Management Agent: One of the power supplies in the expansion cabinet has failed. (1.3.6.1.4.1.232.141.3.8.0.22)
- 21. Insight Management Agent: One of the power supplies in the expansion cabinet has recovered. (1.3.6.1.4.1.232.141.3.8.0.29)
- 22. Insight Management Agent: The temperature in the expansion cabinet has triggered a critical condition detected by the controller. (1.3.6.1.4.1.232.141.3.8.0.27)
- 23. Insight Management Agent: The temperature in the expansion cabinet has returned to normal. (1.3.6.1.4.1.232.141.3.8.0.28)

Insight Management Agent SNMP Trap templates and Rules for HPSIMInt-IMAagents_FwdDMITraps (uses CPQDMII.mib)

1. Insight Management Agent: DMI Informational Indication occurred on SNMP Varbind 2 of type SNMP Varbind 8 for (SNMP Varbind 4,SNMP Varbind 5) (1.3.6.1.4.1.232.0.150001)
2. Insight Management Agent: DMI Monitor Indication occurred on SNMP Varbind 2 of type SNMP Varbind 8 for (SNMP Varbind 4,SNMP Varbind 5) (1.3.6.1.4.1.232.0.150002)
3. Insight Management Agent: DMI OK Indication occurred on SNMP Varbind 2 of type SNMP Varbind 8 for (SNMP Varbind 4,SNMP Varbind 5) (1.3.6.1.4.1.232.0.150003)
4. Insight Management Agent: DMI NonCritical Indication occurred on SNMP Varbind 2 of type SNMP Varbind 8 for (SNMP Varbind 4,SNMP Varbind 5) (1.3.6.1.4.1.232.0.150004)
5. Insight Management Agent: DMI Critical Indication occurred on SNMP Varbind 2 of type SNMP Varbind 8 for (SNMP Varbind 4,SNMP Varbind 5) (1.3.6.1.4.1.232.0.150005)
6. Insight Management Agent: DMI NonRecoverable Indication occurred on SNMP Varbind 2 of type SNMP Varbind 8 for (SNMP Varbind 4,SNMP Varbind 5) (1.3.6.1.4.1.232.0.150006)

Insight Management Agent SNMP Trap templates and Rules for HPSIMInt-IMAagents_FwdSvrHealthTraps (uses CPQHLTH.MIB)

1. Insight Management Agent: A correctable memory error has occurred. (1.3.6.1.4.1.232.0.6001)
2. Insight Management Agent: Too many memory errors tracking now disabled. (1.3.6.1.4.1.232.0.6002)
3. Insight Management Agent: System will be shutdown due to this thermal condition. (1.3.6.1.4.1.232.0.6003)
4. Insight Management Agent: Temperature out of range. Shutdown may occur. (1.3.6.1.4.1.232.0.6004)
5. Insight Management Agent: Temperature has returned to normal range. (1.3.6.1.4.1.232.0.6005)
6. Insight Management Agent: Required fan not operating normally. Shutdown may occur. (1.3.6.1.4.1.232.0.6006)
7. Insight Management Agent: An optional fan is not operating normally. (1.3.6.1.4.1.232.0.6007)
8. Insight Management Agent: System fan has returned to normal operation. (1.3.6.1.4.1.232.0.6008)
9. Insight Management Agent: CPU fan has failed. Server will be shutdown. (1.3.6.1.4.1.232.0.6009)
10. Insight Management Agent: CPU fan is now OK. (1.3.6.1.4.1.232.0.6010)
11. Insight Management Agent: Server is operational again after ASR shutdown. (1.3.6.1.4.1.232.0.6011)
12. Insight Management Agent: Server is operational again after thermal shutdown. (1.3.6.1.4.1.232.0.6012)
13. Insight Management Agent: Errors occurred during server restart. (1.3.6.1.4.1.232.0.6013)
14. Insight Management Agent: The server power supply status has become degraded. (1.3.6.1.4.1.232.0.6014)
15. Insight Management Agent: A correctable memory error has occurred. (1.3.6.1.4.1.232.0.6015)
16. Insight Management Agent: Too many memory errors tracking now disabled. (1.3.6.1.4.1.232.0.6016)
17. Insight Management Agent: Error tracking is now enabled. (1.3.6.1.4.1.232.0.6016)
18. Insight Management Agent: System will be shutdown due to this thermal condition. (1.3.6.1.4.1.232.0.6017)
19. Insight Management Agent: Thermal condition has degraded. (1.3.6.1.4.1.232.0.6018)
20. Insight Management Agent: Temperature out of range. Shutdown may occur. (1.3.6.1.4.1.232.0.6018)
21. Insight Management Agent: Temperature has returned to normal range. (1.3.6.1.4.1.232.0.6019)
22. Insight Management Agent: Required fan not operating normally. (1.3.6.1.4.1.232.0.6020)
23. Insight Management Agent: System fan has failed. (1.3.6.1.4.1.232.0.6020)
24. Insight Management Agent: An optional fan is not operating normally. (1.3.6.1.4.1.232.0.6021)
25. Insight Management Agent: System fan has returned to normal operation. (1.3.6.1.4.1.232.0.6022)
26. Insight Management Agent: CPU fan has failed. Server will be shutdown. (1.3.6.1.4.1.232.0.6023)
27. Insight Management Agent: CPU fan is now OK. (1.3.6.1.4.1.232.0.6024)

28. Insight Management Agent: Server is operational again after ASR shutdown. (1.3.6.1.4.1.232.0.6025)
29. Insight Management Agent: Server is operational again after thermal shutdown. (1.3.6.1.4.1.232.0.6026)
30. Insight Management Agent: Errors occurred during server restart. (1.3.6.1.4.1.232.0.6027)
31. Insight Management Agent: The server power supply status has become degraded. (1.3.6.1.4.1.232.0.6028)
32. Insight Management Agent: Correctable memory errors require a replacement memory module. (1.3.6.1.4.1.232.0.6029)
33. Insight Management Agent: The Power Supply Degraded on Chassis contained in SNMP Varbind 3, Bay contained in SNMP Varbind 4. (1.3.6.1.4.1.232.0.6030)
34. Insight Management Agent: The Power Supply Failed on Chassis contained in SNMP Varbind 3, Bay contained in SNMP Varbind 4. (1.3.6.1.4.1.232.0.6031)
35. Insight Management Agent: The Power Supplies are no longer redundant on Chassis contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.6032)
36. Insight Management Agent: The Power Supply Inserted on Chassis contained in SNMP Varbind 3, Bay contained in SNMP Varbind 4. (1.3.6.1.4.1.232.0.6033)
37. Insight Management Agent: The Power Supply Removed on Chassis contained in SNMP Varbind 3, Bay contained in SNMP Varbind 4. (1.3.6.1.4.1.232.0.6034)
38. Insight Management Agent: The Fan Degraded on Chassis contained in SNMP Varbind 3, Fan contained in SNMP Varbind 4. (1.3.6.1.4.1.232.0.6035)
39. Insight Management Agent: The Fan Failed on Chassis contained in SNMP Varbind 3, Fan contained in SNMP Varbind 4. (1.3.6.1.4.1.232.0.6036)
40. Insight Management Agent: The Fans are no longer redundant on Chassis contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.6037)
41. Insight Management Agent: The Fan Inserted on Chassis contained in SNMP Varbind 3, Fan contained in SNMP Varbind 4. (1.3.6.1.4.1.232.0.6038)
42. Insight Management Agent: The Fan Removed on Chassis contained in SNMP Varbind 3, Fan contained in SNMP Varbind 4. (1.3.6.1.4.1.232.0.6039)
43. Insight Management Agent: Temperature Exceeded on Chassis contained in SNMP Varbind 3, Location contained in SNMP Varbind 4. (1.3.6.1.4.1.232.0.6040)
44. Insight Management Agent: Temperature status has degraded on Chassis contained in SNMP Varbind 4, Location contained in SNMP Varbind 5. (1.3.6.1.4.1.232.0.6041)
45. Insight Management Agent: Temperature out of range on Chassis contained in SNMP Varbind 4, Location contained in SNMP Varbind 5. Shutdown may occur soon. (1.3.6.1.4.1.232.0.6041)
46. Insight Management Agent: Temperature Normal on Chassis contained in SNMP Varbind 3, Location contained in SNMP Varbind 4. (1.3.6.1.4.1.232.0.6042)
47. Insight Management Agent: Power Converter Degraded on Chassis in SNMP Varbind 3, Slot in SNMP Varbind 4, Socket in SNMP Varbind 5. (1.3.6.1.4.1.232.0.6043)
48. Insight Management Agent: Power Converter Failed on Chassis in SNMP Varbind 3, Slot in SNMP Varbind 4, Socket in SNMP Varbind 5. (1.3.6.1.4.1.232.0.6044)
49. Insight Management Agent: Power Converters are no longer redundant on Chassis contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.6045)
50. Insight Management Agent: Cache Accelerator errors may require a replacement module. (1.3.6.1.4.1.232.0.6046)
51. Insight Management Agent: The Resilient Memory subsystem has engaged the online spare memory. (1.3.6.1.4.1.232.0.6047)
52. Insight Management Agent: The Power Supply is OK on Chassis in SNMP Varbind 3 (1.3.6.1.4.1.232.0.6048)
53. Insight Management Agent: The Power Supply is degraded on Chassis in SNMP Varbind 3 (1.3.6.1.4.1.232.0.6049)
54. Insight Management Agent: The Power Supply is failed on Chassis in SNMP Varbind 3 (1.3.6.1.4.1.232.0.6050)

- 55. Insight Management Agent: Advanced Memory Protection Mirrored Memory Engaged (1.3.6.1.4.1.232.0.6051)
- 56. Insight Management Agent: Advanced Memory Protection Advanced ECC Memory Engaged (1.3.6.1.4.1.232.0.6052)
- 57. Insight Management Agent: Advanced Memory Protection XOR Engine Memory Engaged (1.3.6.1.4.1.232.0.6053)
- 58. Insight Management Agent: Fault Tolerant Power Supplies Power Redundancy Restored (1.3.6.1.4.1.232.0.6054)
- 59. Insight Management Agent: Fault Tolerant Fans Fan Redundancy Restored (1.3.6.1.4.1.232.0.6055)
- 60. Insight Management Agent: Correctable memory errors require a replacement memory module. (1.3.6.1.4.1.232.0.6056)
- 61. Insight Management Agent: Memory board or cartridge removed (1.3.6.1.4.1.232.0.6057)
- 62. Insight Management Agent: Memory board or cartridge inserted (1.3.6.1.4.1.232.0.6058)
- 63. Insight Management Agent : Memory board or cartridge bus error detected (1.3.6.1.4.1.232.0.6059)
- 64. Insight Management Agent: Too many memory errors tracking now disabled. (1.3.6.1.4.1.232.6.0.2)
- 65. The Management processor is in the process of being reset (1.3.6.1.4.1.232.0.6061)
- 66. Insight Management Agent: The Management processor is ready after a successfully reset (1.3.6.1.4.1.232.0.6062)

Insight Management Agent SNMP Trap Templates and Rules for HPSIMInt-IMAagents_FwdHostOSTraps (uses CPQHOST.MIB)

- 1. Insight Management Agent: Generic Trap received (1.3.6.1.4.1.232.0.11001)
- 2. Insight Management Agent: Application Error Trap (1.3.6.1.4.1.232.0.11002)
- 3. Insight Management Agent: Generic Trap Received (1.3.6.1.4.1.232.0.11003)
- 4. Insight Management Agent: Application Error Trap (1.3.6.1.4.1.232.0.11004)
- 5. Insight Management Agent: NIC Status is OK (1.3.6.1.4.1.232.0.11005)
- 6. Insight Management Agent: NIC Status is Failed (1.3.6.1.4.1.232.0.11006)
- 7. Insight Management Agent: NIC switchover occurred (1.3.6.1.4.1.232.0.11007)
- 8. Insight Management Agent: NIC Status is OK (1.3.6.1.4.1.232.0.11008)
- 9. Insight Management Agent: NIC Status is Failed (1.3.6.1.4.1.232.0.11009)
- 10. Insight Management Agent: NIC switchover (1.3.6.1.4.1.232.0.11010)
- 11. Insight Management Agent: Process monitor event trap received (1.3.6.1.4.1.232.0.11011)
- 12. Insight Management Agent: Process Count event trap received (1.3.6.1.4.1.232.0.11012)
- 13. Insight Management Agent: Process monitor event trap received (1.3.6.1.4.1.232.0.11013)
- 14. Insight Management Agent: Critical software update trap received (1.3.6.1.4.1.232.0.11014)
- 15. Insight Management Agent: Crash Dump is not enabled (1.3.6.1.4.1.232.0.11015)
- 16. Insight Management Agent: The paging file size of the boot volume (%s) or the target volume of the memory dump file is not large enough to hold a crash dump in the event of a system crash (1.3.6.1.4.1.232.0.11016)

Insight Management Agent SNMP Trap Templates and Rules for HPSIMInt-IMAagents_FwdICATraps (uses CPQICA.MIB)

- 1. Insight Management Agent: Intelligent Cluster Administrator added an object to the cluster. (1.3.6.1.4.1.232.0.140001)
- 2. Insight Management Agent: Intelligent Cluster Administrator has deleted an object in the cluster. (1.3.6.1.4.1.232.0.140002)
- 3. Insight Management Agent: Intelligent Cluster Administrator has performed one or more property changes on the cluster. (1.3.6.1.4.1.232.0.140003)
- 4. Insight Management Agent: Intelligent Cluster Administrator has performed a move action on the cluster. (1.3.6.1.4.1.232.0.140004)
- 5. Insight Management Agent: Intelligent Cluster Administrator is starting an import operation on the cluster. (1.3.6.1.4.1.232.0.140005)

6. Insight Management Agent: Intelligent Cluster Administrator has finished an import operation on the cluster. (1.3.6.1.4.1.232.0.140006)

Insight Management Agent SNMP Trap templates and Rules for HPSIMInt-IMAgents_FwdDriveArrayTraps (uses CPQIDA.MIB)

1. Insight Management Agent: Intelligent DriveArray Logical Drive status is NORMAL, contained in SNMP Varbind 1. (1.3.6.1.4.1.232.0.3001)
2. Insight Management Agent: Intelligent DriveArray Logical Drive status is FAILED, contained in SNMP Varbind 1. (1.3.6.1.4.1.232.0.3001)
3. Insight Management Agent: Intelligent Drive Array Logical Drive status is RECOVERING, contained in SNMP Varbind 1. (1.3.6.1.4.1.232.0.3001)
4. Insight Management Agent: Intelligent Drive Array Logical Drive status is READY for REBUILD, contained in SNMP Varbind 1 (1.3.6.1.4.1.232.0.3001)
5. Insight Management Agent: Intelligent Drive Array Logical Drive status is REBUILDING, contained in SNMP Varbind 1 (1.3.6.1.4.1.232.0.3001)
6. Insight Management Agent: Intelligent Drive Array Logical Drive status is WRONG DRIVE, contained in SNMP Varbind 1. (1.3.6.1.4.1.232.0.3001)
7. Insight Management Agent: Intelligent Drive Array Logical Drive status is BAD CONNECTION, contained in SNMP Varbind 1. (1.3.6.1.4.1.232.0.3001)
8. Insight Management Agent: Intelligent Drive Array Logical Drive status is OVERHEATING, contained in SNMP Varbind 1. (1.3.6.1.4.1.232.0.3001)
9. Insight Management Agent: Intelligent Drive Array Logical Drive status is SHUTDOWN, contained in SNMP Varbind 1. (1.3.6.1.4.1.232.0.3001)
10. Insight Management Agent: Intelligent Drive Array Logical Drive status is UNAVAILABLE, status is contained in SNMP Varbind 1. (1.3.6.1.4.1.232.0.3001)
11. Insight Management Agent: Intelligent Drive Array Spare Drive status is ACTIVE, status is contained in SNMP Varbind 1 (1.3.6.1.4.1.232.0.3002)
12. Insight Management Agent: Intelligent Drive Array Spare Drive status is FAILED, status is contained in SNMP Varbind 1 (1.3.6.1.4.1.232.0.3002)
13. Insight Management Agent: Intelligent Drive Array Spare Drive status is BUILDING, status is contained in SNMP Varbind 1. (1.3.6.1.4.1.232.0.3002)
14. Insight Management Agent: Intelligent Drive Array Physical Drive status is OK, contained in SNMP Varbind 1. (1.3.6.1.4.1.232.0.3003)
15. Insight Management Agent: Intelligent Drive Array Physical Drive status is FAILED, contained in SNMP Varbind 1. (1.3.6.1.4.1.232.0.3003)
16. Insight Management Agent: Intelligent Drive Array Physical Drive status is PREDICTIVEFAILURE, status is contained in SNMP Varbind 1. (1.3.6.1.4.1.232.0.3003)
17. Insight Management Agent: Intelligent Drive Array Physical Drive threshold passed, status is contained in SNMP Varbind 1. (1.3.6.1.4.1.232.0.3004)
18. Insight Management Agent: Intelligent Drive Array Accelerator Board status is TEMPORARILY DISABLED, status is contained in SNMP Varbind 1. (1.3.6.1.4.1.232.0.3005)
19. Insight Management Agent: Intelligent Drive Array Accelerator Board status is PERMANENTLY DISABLED, contained in SNMP Varbind 1. (1.3.6.1.4.1.232.0.3005)
20. Insight Management Agent: Intelligent Drive Array Accelerator lost battery power. Data Loss possible. (1.3.6.1.4.1.232.0.3006)
21. Insight Management Agent: Intelligent Drive Array Accelerator Board Battery status is OK. Status is contained in SNMP Varbind 1 (1.3.6.1.4.1.232.0.3007)
22. Insight Management Agent: Intelligent Drive Array Accelerator Board Battery status is failed. Status is contained in SNMP Varbind 1 (1.3.6.1.4.1.232.0.3007)
23. Insight Management Agent: Intelligent Drive Array Accelerator Board Battery status is degraded. Status is contained in SNMP Varbind 1 (1.3.6.1.4.1.232.0.3007)
24. Insight Management Agent: Intelligent DriveArray Logical Drive status is NORMAL, contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.3008)

25. Insight Management Agent: Intelligent DriveArray Logical Drive status is FAILED, contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.3008)
26. Insight Management Agent: Intelligent Drive Array Logical Drive status is RECOVERING, contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.3008)
27. Insight Management Agent: Intelligent Drive Array Logical Drive status is READY for REBUILD, contained in SNMP Varbind 3 (1.3.6.1.4.1.232.0.3008)
28. Insight Management Agent: Intelligent Drive Array Logical Drive status is REBUILDING, contained in SNMP Varbind 3 (1.3.6.1.4.1.232.0.3008)
29. Insight Management Agent: Intelligent Drive Array Logical Drive status is WRONG DRIVE, contained in SNMP Varbind 3 (1.3.6.1.4.1.232.0.3008)
30. Insight Management Agent: Intelligent Drive Array Logical Drive status is BAD CONNECTION, contained in SNMP Varbind 3 (1.3.6.1.4.1.232.0.3008)
31. Insight Management Agent: Intelligent Drive Array Logical Drive status is OVERHEATING, contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.3008)
32. Insight Management Agent: Intelligent Drive Array Logical Drive status is SHUTDOWN, contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.3008)
33. Insight Management Agent: Intelligent Drive Array Logical Drive status is UNAVAILABLE, status is contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.3008)
34. Insight Management Agent: Intelligent Drive Array Spare Drive status is ACTIVE, status is contained in SNMP Varbind 3 (1.3.6.1.4.1.232.0.3009)
35. Insight Management Agent: Intelligent Drive Array Spare Drive status is FAILED, status is contained in SNMP Varbind 3 (1.3.6.1.4.1.232.0.3009)
36. Insight Management Agent: Intelligent Drive Array Spare Drive status is BUILDING, status is contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.3009)
37. Insight Management Agent: Intelligent Drive Array Physical Drive status is OK, contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.3010)
38. Insight Management Agent: Intelligent Drive Array Physical Drive status is FAILED, contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.3010)
39. Insight Management Agent: Intelligent Drive Array Physical Drive status is PREDICTIVEFAILURE, status is contained in SNMP Varbind 3 (1.3.6.1.4.1.232.0.3010)
40. Insight Management Agent: Intelligent Drive Array Physical Drive threshold passed, status is contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.3011)
41. Insight Management Agent: Intelligent Drive Array Accelerator Board status is TEMPORARILY DISABLED, status is contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.3012)
42. Insight Management Agent: Intelligent Drive Array Accelerator Board status is PERMANENTLY DISABLED, contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.3012)
43. Insight Management Agent: Intelligent Drive Array Accelerator lost battery power. Data Loss possible. (1.3.6.1.4.1.232.0.3013)
44. Insight Management Agent: Intelligent Drive Array Accelerator Board Battery status is OK. Status is contained in SNMP Varbind 3 (1.3.6.1.4.1.232.0.3014)
45. Insight Management Agent: Intelligent Drive Array Accelerator Board Battery status is failed. Status is contained in SNMP Varbind 3 (1.3.6.1.4.1.232.0.3014)
46. Insight Management Agent: Intelligent Drive Array Accelerator Board Battery status is degraded. Status is contained in SNMP Varbind 3 (1.3.6.1.4.1.232.0.3014)
47. Insight Management Agent: Intelligent Drive Array Controller status is FAILED, status is contained in SNMP Varbind 4. (1.3.6.1.4.1.232.0.3015)
48. Insight Management Agent: Intelligent Drive Array Controller has cable problem, status is contained in SNMP Varbind 4. (1.3.6.1.4.1.232.0.3015)
49. Insight Management Agent: Intelligent Drive Array Controller is powered off, status is contained in SNMP Varbind 4. (1.3.6.1.4.1.232.0.3015)
50. Insight Management Agent: Intelligent Drive Array Spare Drive status is ACTIVE, status is contained in SNMP Varbind 3 (1.3.6.1.4.1.232.0.3017)

51. Insight Management Agent: Intelligent Drive Array Spare Drive status is FAILED, status is contained in SNMP Varbind 3 (1.3.6.1.4.1.232.0.3017)
52. Insight Management Agent: Intelligent Drive Array Spare Drive status is BUILDING, status is contained in SNMP Varbind 1. (1.3.6.1.4.1.232.0.3017)
53. Insight Management Agent: Intelligent Drive Array Physical Drive status is OK, contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.3018)
54. Insight Management Agent: Intelligent Drive Array Physical Drive status is FAILED, contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.3018)
55. Insight Management Agent: Intelligent Drive Array Physical Drive status is PREDICTIVEFAILURE, status is contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.3018)
56. Insight Management Agent: Intelligent Drive Array Physical Drive threshold passed (1.3.6.1.4.1.232.0.3019)
57. Insight Management Agent: Intelligent Drive ArrayTape Library status is OK, status is contained in SNMP Varbind 7 for the tape library. (1.3.6.1.4.1.232.0.3020)
58. Insight Management Agent: Intelligent Drive ArrayTape Library status is FAILED, status is contained in SNMP Varbind 7 for the tape library. (1.3.6.1.4.1.232.0.3020)
59. Insight Management Agent: Intelligent Drive ArrayTape Library status is DEGRADED, status is contained in SNMP Varbind 7 for the tape library. (1.3.6.1.4.1.232.0.3020)
60. Insight Management Agent: Intelligent Drive Array Tape Library Door Status is OPEN, status is contained in SNMP Varbind 7 (1.3.6.1.4.1.232.0.3021)
61. Insight Management Agent: Intelligent Drive Array Tape Drive Status is DEGRADED, status is contained in SNMP Varbind 7 (1.3.6.1.4.1.232.0.3022)
62. Insight Management Agent: Intelligent Drive Array Tape Drive Status is FAILED, status is contained in SNMP Varbind 7 (1.3.6.1.4.1.232.0.3022)
63. Insight Management Agent: Intelligent Drive Array Tape Drive Status is OFFLINE, status is contained in SNMP Varbind 7 (1.3.6.1.4.1.232.0.3022)
64. Insight Management Agent: Intelligent Drive Array Tape Drive Status is MISSING WAS OK, status is contained in SNMP Varbind 7 (1.3.6.1.4.1.232.0.3022)
65. Insight Management Agent: Intelligent Drive Array Tape Drive Status is MISSING WAS OFFLINE, status is contained in SNMP Varbind 7 (1.3.6.1.4.1.232.0.3022)
66. Insight Management Agent: Intelligent Drive Array Tape Drive cleaning is required. (1.3.6.1.4.1.232.0.3023)
67. Insight Management Agent: Cleaning tape needs replacing (1.3.6.1.4.1.232.0.3024)
68. Insight Management Agent: Intelligent Drive Array Accelerator Board status is TEMPORARILY DISABLED, status is contained in SNMP Varbind 7. (1.3.6.1.4.1.232.0.3025)
69. Insight Management Agent: Intelligent Drive Array Accelerator Board status is PERMANENTLY DISABLED, status is contained in SNMP Varbind 7. (1.3.6.1.4.1.232.0.3025)
70. Insight Management Agent: Intelligent Drive Array Accelerator lost battery power. Data Loss possible. (1.3.6.1.4.1.232.0.3026)
71. Insight Management Agent: Intelligent Drive Array Accelerator battery failed (1.3.6.1.4.1.232.0.3027)
72. Insight Management Agent: Intelligent Drive Array Controller Board has failed, status is contained in SNMP Varbind 4. (1.3.6.1.4.1.232.0.3028)
73. Insight Management Agent: Intelligent Drive Array Controller Board has cable problem, status is contained in SNMP Varbind 4. (1.3.6.1.4.1.232.0.3028)
74. Insight Management Agent: Intelligent Drive Array Controller Board is POWER OFF, status is contained in SNMP Varbind 4 . (1.2.6.1.4.1.232.0.3028)
75. Insight Management Agent: Intelligent Drive Array Physical Drive status is OK, contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.3029)
76. Insight Management Agent: Intelligent Drive Array Physical Drive status is FAILED, contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.3029)
77. Insight Management Agent: Intelligent Drive Array Physical Drive status is PREDICTIVEFAILURE, status is contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.3029)

- 78.** Insight Management Agent: Intelligent Drive Array Physical Drive threshold passed (1.3.6.1.4.1.232.0.3030)
- 79.** Insight Management Agent: Intelligent Drive ArrayTape Library status is FAILED, status is contained in SNMP Varbind 7 for the tape library. (1.3.6.1.4.1.232.0.3031)
- 80.** Insight Management Agent: Intelligent Drive ArrayTape Library status is OK, status is contained in SNMP Varbind 10 for the tape library. (1.3.6.1.4.1.232.0.3031)
- 81.** Insight Management Agent: Intelligent Drive ArrayTape Library status is DEGRADED, status is contained in SNMP Varbind 10 for the tape library. (1.3.6.1.4.1.232.0.3031)
- 82.** Insight Management Agent: Intelligent Drive Array Logical Drive status is EXPANDING, status is contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.3034)
- 83.** Insight Management Agent: Intelligent Drive Array Tape Drive Status is DEGRADED, status is contained in SNMP Varbind 7 (1.3.6.1.4.1.232.0.3032)
- 84.** Insight Management Agent: Intelligent Drive Array Tape Drive Status is FAILED, status is contained in SNMP Varbind 10 (1.3.6.1.4.1.232.0.3032)
- 85.** Insight Management Agent: Intelligent Drive Array Tape Drive Status is MISSING WAS OK, status is contained in SNMP Varbind 10 (1.3.6.1.4.1.232.0.3032)
- 86.** Insight Management Agent: Intelligent Drive Array Tape Drive Status is MISSING WAS OFFLINE, status is contained in SNMP Varbind 10 (1.3.6.1.4.1.232.0.3032)
- 87.** Insight Management Agent: Intelligent Drive Array Controller status is GENERAL FAILURE, status is contained in SNMP Varbind 5 (1.3.6.1.4.1.232.0.3033)
- 88.** Insight Management Agent: Intelligent Drive Array Controller has a CABLE PROBLEM, status is contained in SNMP Varbind 5 (1.3.6.1.4.1.232.0.3033)
- 89.** Insight Management Agent: Intelligent Drive Array Controller is POWERED OFF, status is contained in SNMP Varbind 5 (1.3.6.1.4.1.232.0.3033)
- 90.** Insight Management Agent: Intelligent Drive Array Controller is OK, status is contained in SNMP Varbind 5 (1.3.6.1.4.1.232.0.3033)
- 91.** Insight Management Agent: Intelligent DriveArray Logical Drive status is FAILED, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.3034)
- 92.** Insight Management Agent: Intelligent Drive Array Logical Drive status is RECOVERING, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.3034)
- 93.** Insight Management Agent: Intelligent Drive Array Logical Drive status is READY for REBUILD, contained in SNMP Varbind 6 (1.3.6.1.4.1.232.0.3034)
- 94.** Insight Management Agent: Intelligent Drive Array Logical Drive status is REBUILDING, contained in SNMP Varbind 6 (1.3.6.1.4.1.232.0.3034)
- 95.** Insight Management Agent: Intelligent Drive Array Logical Drive status is WRONG DRIVE, contained in SNMP Varbind 6 (1.3.6.1.4.1.232.0.3034)
- 96.** Insight Management Agent: Intelligent Drive Array Logical Drive status is BAD CONNECTION, contained in SNMP Varbind 6 (1.3.6.1.4.1.232.0.3034)
- 97.** Insight Management Agent: Intelligent Drive Array Logical Drive status is OVERHEATING, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.3034)
- 98.** Insight Management Agent: Intelligent Drive Array Logical Drive status is SHUTDOWN, contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.3034)
- 99.** Insight Management Agent: Intelligent Drive Array Accelerator Board status is TEMPORARILY DISABLED, status is contained in SNMP Varbind 8 (1.3.6.1.4.1.232.0.3038)
- 100.** Insight Management Agent: Intelligent Drive Array Spare Drive status is ACTIVE, status is contained in SNMP Varbind 6 (1.3.6.1.4.1.232.0.3035)
- 101.** Insight Management Agent: Intelligent Drive Array Spare Drive status is FAILED, status is contained in SNMP Varbind 6 (1.3.6.1.4.1.232.0.3035)
- 102.** Insight Management Agent: Intelligent Drive Array Spare Drive status is BUILDING, status is contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.3035)
- 103.** Insight Management Agent: Intelligent Drive Array Physical Drive status is OK, contained in SNMP Varbind 12. (1.3.6.1.4.1.232.0.3036)

- 104.**Insight Management Agent: Intelligent Drive Array Physical Drive status is FAILED, contained in SNMP Varbind 12. (1.3.6.1.4.1.232.0.3036)
- 105.**Insight Management Agent: Intelligent Drive Array Physical Drive status is PREDICTIVEFAILURE, status is contained in SNMP Varbind 12. (1.3.6.1.4.1.232.0.3036)
- 106.**Insight Management Agent: Intelligent Drive Array Physical Drive threshold passed, the physical drive index is contained in SNMP Varbind 5. (1.3.6.1.4.1.232.0.3037)
- 107.**Insight Management Agent: Intelligent Drive Array Accelerator Board status is PERMANENTLY DISABLED, contained in SNMP Varbind 8. (1.3.6.1.4.1.232.0.3038)
- 108.**Insight Management Agent: Intelligent Drive Array Accelerator Board status is TEMPORARILY DISABLED, status is contained in SNMP Varbind 8 (1.3.6.1.4.1.232.0.3038)
- 109.**Insight Management Agent: Intelligent Drive ArrayTape Library status is OK, status is contained in SNMP Varbind 11 for the tape library. (1.3.6.1.4.1.232.0.3041)
- 110.**Insight Management Agent: Intelligent Drive ArrayTape Library status is DEGRADED, status is contained in SNMP Varbind 11 for the tape library. (1.3.6.1.4.1.232.0.3041)
- 111.**Insight Management Agent: Spare Status has changed. (1.3.6.1.4.1.232.0.3047)
- 112.**Insight Management Agent: Intelligent Drive Array Tape Library Door Status is OPEN, status is contained in SNMP Varbind 11 (1.3.6.1.4.1.232.0.3042)
- 113.**Insight Management Agent: Intelligent Drive Array Tape Drive status is DEGRADED, status is contained in SNMP Varbind 11 (1.3.6.1.4.1.232.0.3043)
- 114.**Insight Management Agent: Intelligent Drive Array Tape Drive Status is FAILED, status is contained in SNMP Varbind 11 (1.3.6.1.4.1.232.0.3043)
- 115.**Insight Management Agent: Intelligent Drive Array Tape Drive Status is OFFLINE, status is contained in SNMP Varbind 11(1.3.6.1.4.1.232.0.3043)
- 116.**Insight Management Agent: Intelligent Drive Array Tape Drive Status is MISSING WAS OK, status is contained in SNMP Varbind 11(1.3.6.1.4.1.232.0.3043)
- 117.**Insight Management Agent: Intelligent Drive Array Tape Drive Status is MISSING WAS OFFLINE, status is contained in SNMP Varbind 11 (1.3.6.1.4.1.232.0.3043)
- 118.**Insight Management Agent: Intelligent Drive Array Tape Drive cleaning is required. (1.3.6.1.4.1.232.0.3044)
- 119.**Insight Management Agent: Cleaning tape needs replacing (1.3.6.1.4.1.232.0.3045)
- 120.**Insight Management Agent: Physical Drive Status has changed (1.3.6.1.4.1.232.0.3046)
- 121.**Insight Management Agent: Spare Status has changed (1.3.6.1.4.1.232.0.3047)

Insight Management Agent SNMP Trap templates and Rulesfor HPSIMInt-IMAagents_FwdIDEDriveTraps (uses CPQIDE.MIB)

- 1.** Insight Management Agent: IDE drive contained in SNMP Varbind 3 has become degraded. (1.3.6.1.4.1.232.0.14001)
- 2.** Insight Management Agent: IDE drive contained in SNMP Varbind 3 has returned to normal operating condition. (1.3.6.1.4.1.232.0.14002)
- 3.** Insight Management Agent: IDE drive contained in SNMP Varbind 3 has detected Ultra ATA errors. (1.3.6.1.4.1.232.0.14003)
- 4.** Insight Management Agent: Status of an ATA disk has changed to NORMAL, status is contained in SNMP Varbind 8. (1.3.6.1.4.1.232.0.14004)
- 5.** Insight Management Agent: Status of an ATA disk has changed to SMART ERROR, status is contained in SNMP Varbind 8. (1.3.6.1.4.1.232.0.14004)
- 6.** Insight Management Agent: Status of an ATA disk has changed to FAILED, status is contained in SNMP Varbind 8. (1.3.6.1.4.1.232.0.14004)
- 7.** Insight Management Agent: Status of an IDE logical drive has changed to NORMAL, status is contained in SNMP Varbind 7 for the IDE logical drive. (1.3.6.1.4.1.232.0.14005)
- 8.** Insight Management Agent: Status of an IDE logical drive has changed to DEGRADED, status is contained in SNMP Varbind 7 for the IDE logical drive. (1.3.6.1.4.1.232.0.14005)
- 9.** Insight Management Agent: Status of an IDE logical drive has changed to REBUILDING, status is contained in SNMP Varbind 7 for the IDE logical drive. (1.3.6.1.4.1.232.0.14005)

10. Insight Management Agent: Status of an IDE logical drive has changed to FAILED, status is contained in SNMP Varbind 7 for the IDE logical drive. (1.3.6.1.4.1.232.0.14005)

Insight Management Agent SNMP Trap templates and Rules for HPSIMInt-IMAagents_FwdNICTraps (uses CPQNIC.MIB)

1. Insight Management Agent: Connectivity is restored for logical adapter in slot contained in SNMP Varbind 3, port contained in SNMP Varbind 4. (1.3.6.1.4.1.232.0.18001)
2. Insight Management Agent: Connectivity lost for logical adapter in slot contained in SNMP Varbind 3, port contained in SNMP Varbind 4. (1.3.6.1.4.1.232.0.18002)
3. Insight Management Agent: Physical adapter connection restored in slot contained in SNMP Varbind 3, port contained in SNMP Varbind 4. (1.3.6.1.4.1.232.0.18003)
4. Insight Management Agent: Physical adapter connection failed in slot contained in SNMP Varbind 3, port contained in SNMP Varbind 4. (1.3.6.1.4.1.232.0.18004)
5. Insight Management Agent: Connectivity is restored for logical adapter in slot contained in SNMP Varbind 3, port contained in SNMP Varbind 4. (1.3.6.1.4.1.232.0.18005)
6. Insight Management Agent: Connectivity lost for logical adapter in slot contained in SNMP Varbind 3, port contained in SNMP Varbind 4. (1.3.6.1.4.1.232.0.18006)
7. Insight Management Agent: Physical adapter connection restored in slot contained in SNMP Varbind 3, port contained in SNMP Varbind 4. (1.3.6.1.4.1.232.0.18007)
8. Insight Management Agent: Physical adapter connection failed in slot contained in SNMP Varbind 3, port contained in SNMP Varbind 4. (1.3.6.1.4.1.232.0.18008)
9. Insight Management Agent: The Virus Throttle Filter Driver has detected a Virus Activity. (1.3.6.1.4.1.232.0.18009)
10. Insight Management Agent: Virus Throttle Filter Driver no longer detects Virus like activity. (1.3.6.1.4.1.232.0.16010)

Insight Management Agent SNMP Trap templates and Rules for HPSIMInt-IMAagents_FwdRackTraps (uses CPQRACK.MIB)

1. Insight Management Agent: The rack name has changed to value contained in SNMP Varbind 3 (.1.3.6.1.4.1.232.0.22001)
2. Insight Management Agent: The enclosure name has changed to SNMP Varbind 5 in rack SNMP Varbind 3 (.1.3.6.1.4.1.232.0.22002)
3. Insight Management Agent: The enclosure in SNMP Varbind 5 has been removed from rack SNMP Varbind 3. (.1.3.6.1.4.1.232.0.22003)
4. Insight Management Agent: The enclosure in SNMP Varbind 5 has been inserted into rack SNMP Varbind 3 (.1.3.6.1.4.1.232.0.22004)
5. Insight Management Agent: The enclosure in SNMP Varbind 5 temperature sensor in rack SNMP Varbind 3 has been set to failed. (.1.3.6.1.4.1.232.0.22005)
6. Insight Management Agent: The enclosure in SNMP Varbind 5 temperature sensor in rack SNMP Varbind 3 has been set to degraded. (.1.3.6.1.4.1.232.0.22006)
7. Insight Management Agent: The enclosure in SNMP Varbind 5 temperature sensor in rack SNMP Varbind 3 has been set to ok. (.1.3.6.1.4.1.232.0.22007)
8. Insight Management Agent: The enclosure in SNMP Varbind 5 fan in rack SNMP Varbind 3 has been set to failed. (.1.3.6.1.4.1.232.0.22008)
9. Insight Management Agent: The enclosure in SNMP Varbind 5 fan in rack SNMP Varbind 3 has been set to degraded. (.1.3.6.1.4.1.232.0.22009)
10. Insight Management Agent: The enclosure in SNMP Varbind 5 fan in rack SNMP Varbind 3 has been set to ok. (.1.3.6.1.4.1.232.0.22010)
11. Insight Management Agent: The enclosure in SNMP Varbind 5 fan in rack SNMP Varbind 3 has been removed (.1.3.6.1.4.1.232.0.22011)
12. Insight Management Agent: The enclosure in SNMP Varbind 5 fan in rack SNMP Varbind 3 has been inserted (.1.3.6.1.4.1.232.0.22012)
13. Insight Management Agent: The power supply in SNMP Varbind 7 in enclosure SNMP Varbind 5 in rack SNMP Varbind 3 has been set to failed. (.1.3.6.1.4.1.232.0.22013)

14. Insight Management Agent: The power supply in SNMP Varbind 7 in enclosure SNMP Varbind 5 in rack SNMP Varbind 3 has been set to degraded. (.1.3.6.1.4.1.232.0.22014)
15. Insight Management Agent: The power supply in SNMP Varbind 7 in enclosure SNMP Varbind 5 in rack SNMP Varbind 3 has been set to ok. (.1.3.6.1.4.1.232.0.22015)
16. Insight Management Agent: The power supply in SNMP Varbind 7 in enclosure SNMP Varbind 5 in rack SNMP Varbind 3 has been removed (.1.3.6.1.4.1.232.0.22016)
17. Insight Management Agent: The power supply in SNMP Varbind 7 in enclosure SNMP Varbind 5 in rack SNMP Varbind 3 has been inserted (.1.3.6.1.4.1.232.0.22017)
18. Insight Management Agent: The power subsystem in enclosure SNMP Varbind 5 in rack SNMP Varbind 3 is no longer redundant (.1.3.6.1.4.1.232.0.22018)
19. Insight Management Agent: The rack power supply detected an input line voltage problem in power supply SNMP Varbind 6, enclosure in SNMP Varbind 5, rack in SNMP Varbind 3. (.1.3.6.1.4.1.232.0.22019)
20. Insight Management Agent: The power subsystem in enclosure SNMP Varbind 5 in rack SNMP Varbind 3 is in an overload condition (.1.3.6.1.4.1.232.0.22020)
21. Insight Management Agent: The server shutdown due to lack of power blade SNMP Varbind 6, in enclosure SNMP Varbind 5, in rack SNMP Varbind 3 (.1.3.6.1.4.1.232.0.22021)
22. Insight Management Agent: Server power on prevented to preserve redundancy in blade SNMP Varbind 6, in enclosure SNMP Varbind 5, in rack SNMP Varbind 3. (.1.3.6.1.4.1.232.0.22022)
23. Insight Management Agent: Inadequate power to power on blade SNMP Varbind 6, in enclosure SNMP Varbind 5, in rack SNMP Varbind 3 (.1.3.6.1.4.1.232.0.22023)
24. Insight Management Agent: Inadequate power to power on blade SNMP Varbind 6, in enclosure SNMP Varbind 5, in rack SNMP Varbind 3 (.1.3.6.1.4.1.232.0.22024)
25. Insight Management Agent: Inadequate power to power on blade SNMP Varbind 6, in enclosure SNMP Varbind 5, in rack SNMP Varbind 3 (.1.3.6.1.4.1.232.0.22025)
26. Insight Management Agent: Server power on via manual override on blade SNMP Varbind 6, in enclosure SNMP Varbind 5, in rack SNMP Varbind 3 (.1.3.6.1.4.1.232.0.22026)
27. Insight Management Agent: Fuse open fuse SNMP Varbind 6, in enclosure SNMP Varbind 5, in rack SNMP Varbind 3 (.1.3.6.1.4.1.232.0.22027)
28. Insight Management Agent: Server blade in SNMP Varbind 6 removed from position SNMP Varbind 7, in enclosure SNMP Varbind 5, in rack SNMP Varbind 3 (.1.3.6.1.4.1.232.0.22028)
29. Insight Management Agent: Server blade in SNMP Varbind 6 inserted from position SNMP Varbind 7, in enclosure SNMP Varbind 5, in rack SNMP Varbind 3 (.1.3.6.1.4.1.232.0.22029)
30. Insight Management Agent: Power subsystem not load balanced in enclosure SNMP Varbind 5, in rack SNMP Varbind 3 (.1.3.6.1.4.1.232.0.22030)
31. Insight Management Agent: Power subsystem DC power problem in enclosure SNMP Varbind 5, in rack SNMP Varbind 3 (.1.3.6.1.4.1.232.0.22031)
32. Insight Management Agent: Power subsystem AC facility input power exceeded in enclosure SNMP Varbind 5, in rack SNMP Varbind 3 (.1.3.6.1.4.1.232.0.22032)
33. Insight Management Agent: Unknown power consumption in rack SNMP Varbind 3 (.1.3.6.1.4.1.232.0.22033)
34. Insight Management Agent: Power subsystem load balancing wire missing for enclosure SNMP Varbind 5, in rack SNMP Varbind 3 (.1.3.6.1.4.1.232.0.22034)
35. Insight Management Agent: Power subsystem has too may power enclosures SNMP Varbind 5, in rack SNMP Varbind 3 (.1.3.6.1.4.1.232.0.22035)
36. Insight Management Agent: Power subsystem has been improperly configured in enclosure SNMP Varbind 5, in rack SNMP Varbind 3 (.1.3.6.1.4.1.232.0.22036)
37. Insight Management Traps: The Onboard Administrator status has been set to degraded. (.1.3.6.1.4.1.232.0.22037)
38. Insight Management Traps: The Onboard Administrator status has been set to OK (.1.3.6.1.4.1.232.0.22038)
39. Insight Management Traps: The Onboard Administrator has been removed (.1.3.6.1.4.1.232.0.22039)

40. Insight Management Traps: A server blade e-keying has failed and there is a port mapping problem between a server mezz card and the interconnect, in Blade SNMP Varbind 6, in position SNMP Varbind 7, in enclosure SNMP Varbind 5, in rack SNMP Varbind 3 (.1.3.6.1.4.1.232.0.22042)
41. Insight Management Traps: Server blade e-keying has returned to normal operation, in Blade SNMP Varbind 6, in position SNMP Varbind 7, in enclosure SNMP Varbind 5, in rack SNMP Varbind 3 (.1.3.6.1.4.1.232.0.22043)
42. Insight Management Traps: The interconnect has been removed from the enclosure, in interconnect SNMP Varbind 6, in position SNMP Varbind 7, in enclosure SNMP Varbind 5, in rack SNMP Varbind 3 (.1.3.6.1.4.1.232.0.22044)
43. Insight Management Traps: The interconnect status has been set to failed, in interconnect SNMP Varbind 6, in position SNMP Varbind 7, in enclosure SNMP Varbind 5, in rack SNMP Varbind 3 (.1.3.6.1.4.1.232.0.22046)

Insight Management Agent SNMP Trap templates and Rules for HPSIMInt-IMAagents_FwdRecoverySvrTraps (uses CPQRECOV.MIB)

1. Insight Management Agent: Partner server has failed and the server sending the trap has taken over operations. (.1.3.6.1.4.1.232.0.13001)
2. Insight Management Agent: Standby Recovery Server reports the local serial interconnect has failed. (.1.3.6.1.4.1.232.0.13002)
3. Insight Management Agent: Recovery Server reports the standby server has failed. (.1.3.6.1.4.1.232.0.13003)
4. Insight Management Agent: OnLine Recovery Server reports the local serial interconnect has failed. (.1.3.6.1.4.1.232.0.13004)
5. Insight Management Agent: OnLine Recovery Server reports the failover attempt has failed. (.1.3.6.1.4.1.232.0.13005)

Insight Management Agent SNMP Trap Templates and Rules for HPSIMInt-IMAagents_Fwd SANTraps

1. Insight Management Agent: Failure event detected element in SNMP Varbind 2 of Type SNMP Varbind 3 sent notification SNMP Varbind 4 SNMP Varbind 5. (.1.3.6.1.4.1.232.151.11.0.1)
2. Insight Management Agent: Warning event detected element in SNMP Varbind 2 of Type SNMP Varbind 3 sent notification SNMP Varbind 4 SNMP Varbind 5. (.1.3.6.1.4.1.232.151.11.0.2)
3. Insight Management Agent: Information event detected element in SNMP Varbind 2 of Type SNMP Varbind 3 sent notification SNMP Varbind 4 SNMP Varbind 5. (.1.3.6.1.4.1.232.151.11.0.4)

Insight Management Agent SNMP Trap templates and Rules for HPSIMInt-IMAagents_FwdSCSIDevicesTraps (uses CPQSCSI.MIB)

1. Insight Management Agent: Status of a SCSI Controller is NORMAL. (.1.3.6.1.4.1.232.5.0.1)
2. Insight Management Agent: Status of a SCSI Controller is FAILED. (.1.3.6.1.4.1.232.5.0.1)
3. Insight Management Agent: Status of a SCSI Logical Drive is NORMAL (.1.3.6.1.4.1.232.5.0.2)
4. Insight Management Agent: Status of a SCSI Logical Drive is FAILED (.1.3.6.1.4.1.232.5.0.2)
5. Insight Management Agent: Status of a SCSI Logical Drive is RECOVERING (.1.3.6.1.4.1.232.5.0.2)
6. Insight Management Agent: A wrong SCSI Logical Drive has been REPLACED (.1.3.6.1.4.1.232.5.0.2)
7. Insight Management Agent: Status of a SCSI Logical Drive is BADCONNECT (.1.3.6.1.4.1.232.5.0.2)
8. Insight Management Agent: Status of a SCSI Logical Drive is DEGRADED (.1.3.6.1.4.1.232.5.0.2)
9. Insight Management Agent: Status of a SCSI physical drive is NORMAL (.1.3.6.1.4.1.232.5.0.3)
10. Insight Management Agent: Status of a SCSI physical drive is FAILED (.1.3.6.1.4.1.232.5.0.3)
11. Insight Management Agent: Status of a SCSI physical drive is MISSING WAS OK (.1.3.6.1.4.1.232.5.0.3)
12. Insight Management Agent: Status of a SCSI physical drive is MISSING WAS FAILED (.1.3.6.1.4.1.232.5.0.3)
13. Insight Management Agent: Status of a SCSI physical drive is MISSING WAS OFFLINE (.1.3.6.1.4.1.232.5.0.3)
14. Insight Management Agent: Status of a SCSI physical drive is BADCABLE (.1.3.6.1.4.1.232.5.0.3)

15. Insight Management Agent: Status of a SCSI physical drive is PREDICTIVE FAILURE (1.3.6.1.4.1.232.5.0.3)
16. Insight Management Agent: Status of a SCSI physical drive is OFFLINE (1.3.6.1.4.1.232.5.0.3)
17. Insight Management Agent: SCSI Controller Status is NORMAL. (1.3.6.1.4.1.232.0.5001)
18. Insight Management Agent: SCSI Controller Status is FAILED. (1.3.6.1.4.1.232.0.5001)
19. Insight Management Agent: Status of a SCSI Logical Drive is NORMAL (1.3.6.1.4.1.232.0.5002)
20. Insight Management Agent: Status of a SCSI Logical Drive is FAILED (1.3.6.1.4.1.232.0.5002)
21. Insight Management Agent: Status of a SCSI Logical Drive is RECOVERING (1.3.6.1.4.1.232.0.5002)
22. Insight Management Agent: A wrong SCSI Logical Drive has been REPLACED (1.3.6.1.4.1.232.0.5002)
23. Insight Management Agent: Status of a SCSI Logical Drive is BADCONNECT (1.3.6.1.4.1.232.0.5002)
24. Insight Management Agent: Status of a SCSI physical drive is NORMAL (1.3.6.1.4.1.232.0.5003)
25. Insight Management Agent: Status of a SCSI physical drive is FAILED (1.3.6.1.4.1.232.0.5003)
26. Insight Management Agent: Status of a SCSI physical drive is MISSING WAS OK (1.3.6.1.4.1.232.0.5003)
27. Insight Management Agent: Status of a SCSI physical drive is MISSING WAS FAILED (1.3.6.1.4.1.232.0.5003)
28. Insight Management Agent: Status of a SCSI physical drive is MISSING WAS OFFLINE (1.3.6.1.4.1.232.0.5003)
29. Insight Management Agent: Status of a SCSI physical drive is BADCABLE (1.3.6.1.4.1.232.0.5003)
30. Insight Management Agent: Status of a SCSI physical drive is PREDICTIVE FAILURE (1.3.6.1.4.1.232.0.5003)
31. Insight Management Agent: Status of a SCSI physical drive is OFFLINE (1.3.6.1.4.1.232.0.5003)
32. Insight Management Agent: Status of SCSI Tape Drive is NORMAL (1.3.6.1.4.1.232.0.5004)
33. Insight Management Agent: Status of SCSI Tape Drive is DEGRADED (1.3.6.1.4.1.232.0.5004)
34. Insight Management Agent: Status of SCSI Tape Drive is FAILED (1.3.6.1.4.1.232.0.5004)
35. Insight Management Agent: SCSI Controller Status is NORMAL. (1.3.6.1.4.1.232.0.5005)
36. Insight Management Agent: SCSI Controller Status is FAILED. (1.3.6.1.4.1.232.0.5005)
37. Insight Management Agent: Status of a SCSI physical drive is NORMAL (1.3.6.1.4.1.232.0.5006)
38. Insight Management Agent: Status of a SCSI physical drive is FAILED (1.3.6.1.4.1.232.0.5006)
39. Insight Management Agent: Status of a SCSI physical drive is MISSING WAS OK (1.3.6.1.4.1.232.0.5006)
40. Insight Management Agent: Status of a SCSI physical drive is MISSING WAS FAILED (1.3.6.1.4.1.232.0.5006)
41. Insight Management Agent: Status of a SCSI physical drive is MISSING WAS OFFLINE (1.3.6.1.4.1.232.0.5006)
42. Insight Management Agent: Status of a SCSI physical drive is BADCABLE (1.3.6.1.4.1.232.0.5006)
43. Insight Management Agent: Status of a SCSI physical drive is PREDICTIVE FAILURE (1.3.6.1.4.1.232.0.5006)
44. Insight Management Agent: Status of a SCSI physical drive is OFFLINE (1.3.6.1.4.1.232.0.5006)
45. Insight Management Agent: Status of SCSI Tape Drive is NORMAL (1.3.6.1.4.1.232.0.5007)
46. Insight Management Agent: Status of SCSI Tape Drive is DEGRADED (1.3.6.1.4.1.232.0.5007)
47. Insight Management Agent: Status of SCSI Tape Drive is FAILED (1.3.6.1.4.1.232.0.5007)
48. Insight Management Agent: A SCSI Tape Drive requires cleaning (1.3.6.1.4.1.232.0.5008)
49. Insight Management Agent: Cleaning tape used on an attached tape drive needs to be replaced. (1.3.6.1.4.1.232.0.5009)
50. Insight Management Agent: A Tape Library is not operational(1.3.6.1.4.1.232.0.5010)
51. Insight Management Agent: Tape library error has been resolved. (1.3.6.1.4.1.232.0.5011)
52. Insight Management Agent: Tape Library status has degraded (1.3.6.1.4.1.232.0.5012)
53. Insight Management Agent: Tape Library door was left open. (1.3.6.1.4.1.232.0.5013)
54. Insight Management Agent: Tape Library door is now closed. (1.3.6.1.4.1.232.0.5014)

- 55.** Insight Management Agent: DVD library status is OK. (1.3.6.1.4.1.232.0.5015)
- 56.** Insight Management Agent: DVD library status is DEGRADED. (1.3.6.1.4.1.232.0.5015)
- 57.** Insight Management Agent: DVD library status is FAILED. (1.3.6.1.4.1.232.0.5015)
- 58.** Insight Management Agent: Status of SCSI Tape Physical Drive is NORMAL (1.3.6.1.4.1.232.0.5016)
- 59.** Insight Management Agent: Status of SCSI Tape Physical Drive is FAILED (1.3.6.1.4.1.232.0.5016)
- 60.** Insight Management Agent: Status of SCSI Tape Physical Drive is OFFLINE (1.3.6.1.4.1.232.0.5016)
- 61.** Insight Management Agent: Status of SCSI Tape Physical Drive is MISSING WAS OK (1.3.6.1.4.1.232.0.5016)
- 62.** Insight Management Agent: Status of SCSI Tape Physical Drive is MISSING WAS FAILED (1.3.6.1.4.1.232.0.5016)
- 63.** Insight Management Agent: Status of SCSI Tape Physical Drive is MISSING WAS OFFLINE (1.3.6.1.4.1.232.0.5016)
- 64.** Insight Management Agent: Status of a SCSI physical drive is NORMAL (1.3.6.1.4.1.232.0.5017)
- 65.** Insight Management Agent: Status of a SCSI physical drive is FAILED (1.3.6.1.4.1.232.0.5017)
- 66.** Insight Management Agent: Status of a SCSI physical drive is MISSING WAS OK (1.3.6.1.4.1.232.0.5017)
- 67.** Insight Management Agent: Status of a SCSI physical drive is MISSING WAS FAILED (1.3.6.1.4.1.232.0.5017)
- 68.** Insight Management Agent: Status of a SCSI physical drive is MISSING WAS OFFLINE (1.3.6.1.4.1.232.0.5017)
- 69.** Insight Management Agent: Status of a SCSI physical drive is BADCABLE (1.3.6.1.4.1.232.0.5017)
- 70.** Insight Management Agent: Status of a SCSI physical drive is PREDICTIVE FAILURE (1.3.6.1.4.1.232.0.5017)
- 71.** Insight Management Agent: Status of a SCSI physical drive is OFFLINE (1.3.6.1.4.1.232.0.5017)
- 72.** Insight Management Agent: Status of SCSI Tape Library is NORMAL (1.3.6.1.4.1.232.0.5018)
- 73.** Insight Management Agent: Status of SCSI Tape Library is DEGRADED (1.3.6.1.4.1.232.0.5018)
- 74.** Insight Management Agent: Status of SCSI Tape Library is FAILED (1.3.6.1.4.1.232.0.5018)
- 75.** Insight Management Agent: Status of SCSI Tape Library is OFFLINE (1.3.6.1.4.1.232.0.5018)
- 76.** Insight Management Agent: Status of SCSI Tape Physical Drive is NORMAL (1.3.6.1.4.1.232.0.5019)
- 77.** Insight Management Agent: Status of SCSI Tape Physical Drive is FAILED (1.3.6.1.4.1.232.0.5019)
- 78.** Insight Management Agent: Status of SCSI Tape Physical Drive is OFFLINE (1.3.6.1.4.1.232.0.5019)
- 79.** Insight Management Agent: Status of SCSI Tape Physical Drive is MISSING WAS OK (1.3.6.1.4.1.232.0.5019)
- 80.** Insight Management Agent: Status of SCSI Tape Physical Drive is MISSING WAS FAILED (1.3.6.1.4.1.232.0.5019)
- 81.** Insight Management Agent: Status of SCSI Tape Physical Drive is MISSING WAS OFFLINE(1.3.6.1.4.1.232.0.5019)
- 82.** Insight Management Agent: Status of a SCSI physical drive is NORMAL (1.3.6.1.4.1.232.0.5020)
- 83.** Insight Management Agent: Status of a SCSI physical drive is FAILED (1.3.6.1.4.1.232.0.5020)
- 84.** Insight Management Agent: Status of a SCSI physical drive is MISSING WAS OK (1.3.6.1.4.1.232.0.5020)
- 85.** Insight Management Agent: Status of a SCSI physical drive is MISSING WAS FAILED (1.3.6.1.4.1.232.0.5020)
- 86.** Insight Management Agent: Status of a SCSI physical drive is MISSING WAS OFFLINE (1.3.6.1.4.1.232.0.5020)
- 87.** Insight Management Agent: Status of a SCSI physical drive is BADCABLE (1.3.6.1.4.1.232.0.5020)
- 88.** Insight Management Agent: Status of a SCSI physical drive is PREDICTIVE FAILURE (1.3.6.1.4.1.232.0.5020)
- 89.** Insight Management Agent: Status of a SCSI physical drive is OFFLINE (1.3.6.1.4.1.232.0.5020)
- 90.** Insight Management Agent: Status of SCSI logical drive is NORMAL (1.3.6.1.4.1.232.0.5021)

- 91. Insight Management Agent: Status of SCSI logical drive is FAILED (1.3.6.1.4.1.232.0.5021)
- 92. Insight Management Agent: Status of SCSI logical drive is UNCONFIGURED (1.3.6.1.4.1.232.0.5021)
- 93. Insight Management Agent: Status of SCSI logical drive is RECOVERING (1.3.6.1.4.1.232.0.5021)
- 94. Insight Management Agent: Status of SCSI logical drive is READYREBUILD (1.3.6.1.4.1.232.0.5021)
- 95. Insight Management Agent: Status of SCSI logical drive is REBUILDING (1.3.6.1.4.1.232.0.5021)
- 96. Insight Management Agent: Status of SCSI logical drive is WRONGDRIVE (1.3.6.1.4.1.232.0.5021)
- 97. Insight Management Agent: Status of SCSI logical drive is BADCONNECT (1.3.6.1.4.1.232.0.5021)
- 98. Insight Management Agent: Status of SCSI logical drive is DEGRADED (1.3.6.1.4.1.232.0.5021)
- 99. Insight Management Agent: Status of SCSI logical drive is DISABLED (1.3.6.1.4.1.232.0.5021)
- 100. Insight Management Traps: Status of SCSI logical drive is DEGRADED (1.3.6.1.4.1.232.0.5021)
- 101. Insight Management Traps: Physical Drive Status has changed (1.3.6.1.4.1.232.0.5022)
- 102. Insight Management Traps: Logical Drive Status has changed (1.3.6.1.4.1.232.0.5023)
- 103. Insight Management Traps: SAS Tape Drive Status has changed (1.3.6.1.4.1.232.0.5025)

Insight Management Agent SNMP Trap templates and Rules for HPSIMInt-IMAagents_FwdSysInfoTraps (uses CPQSINFO.MIB)

- 1. Insight Management Agent: Hood is removed from unit. (1.3.6.1.4.1.232.0.2001)
- 2. Insight Management Agent: The monitor condition has been set to OK. (1.3.6.1.4.1.232.0.2002)
- 3. Insight Management Agent: The monitor condition has been set to degraded. (1.3.6.1.4.1.232.0.2003)
- 4. Insight Management Agent: The monitor condition has been set to failed. (1.3.6.1.4.1.232.0.2004)
- 5. Insight Management Agent: The Memory Module ECC status has been set to degraded. (1.3.6.1.4.1.232.0.2005)
- 6. Insight Management Agent: The Memory Module ECC status has been set to OK. (1.3.6.1.4.1.232.0.2006)
- 7. Insight Management Agent: The system's memory configuration has changed. (1.3.6.1.4.1.232.0.2007)
- 8. Insight Management Agent: Hot Plug Slot Board Removed from Chassis. (1.3.6.1.4.1.232.0.2008)
- 9. Insight Management Agent: Hot Plug Slot Board Inserted into Chassis contained in SNMP Varbind 3, Slot contained in SNMP Varbind 4. (1.3.6.1.4.1.232.0.2009)
- 10. Insight Management Agent: Hot Plug Slot Board Failed in Chassis contained in SNMP Varbind 3, Slot contained in SNMP Varbind 4, Error contained in SNMP ind 5. (1.3.6.1.4.1.232.0.2010)
- 11. Insight Management Agent: Battery contained in SNMP Varbind 3 has failed. (1.3.6.1.4.1.232.0.2011)
- 12. Insight Management Agent: Battery contained in SNMP Varbind 3 has degraded charging capacity. (1.3.6.1.4.1.232.0.2012)
- 13. Insight Management Agent: Battery contained in SNMP Varbind 3 has calibration error. (1.3.6.1.4.1.232.0.2013)

Insight Management Agent SNMP Trap templates and Rules for HPSIMInt-IMAagents_FwdServerMgrTraps (uses CPQSRVMN.MIB)

- 1. Insight Management Agent: Server Manager/R board failure detected. (1.3.6.1.4.1.232.4.0.1)
- 2. Insight Management Agent: Server Manager/R board has been reset. (1.3.6.1.4.1.232.4.0.2)
- 3. Insight Management Agent: Threshold exceeded on Server Manager monitored item. (1.3.6.1.4.1.232.4.0.3)
- 4. Insight Management Agent: Asynchronous communication failure on Server Manager Board. (1.3.6.1.4.1.232.4.0.4)
- 5. Insight Management Agent: Server Manager/R battery has failed. (1.3.6.1.4.1.232.4.0.5)
- 6. Insight Management Agent: Server Manager/R board is not responding. (1.3.6.1.4.1.232.4.0.6)
- 7. Insight Management Agent: Phone number, Pager ID blacklisted. The Phone number is contained in SNMP Varbind 2, Pager ID is contained in SNMP Varbind 3 (1.3.6.1.4.1.232.4.0.7)

Insight Management Agent SNMP Trap templates and Rules for HPSIMInt-IMAagents_FwdPCConfigTraps (uses CPQSTDEQ.MIB)

1. Insight Management Agent: CPU internal corrected errors have passed a set threshold. (1.3.6.1.4.1.232.0.1001)
2. Insight Management Agent: Safe PC Card Thermal operating conditions exceeded. (1.3.6.1.4.1.232.0.1002)
3. Insight Management Agent: Degraded PC Card Thermal operating conditions exceeded. (1.3.6.1.4.1.232.0.1003)
4. Insight Management Agent: Degraded/Failed PC Card Thermal conditions restored to Safe operations. (1.3.6.1.4.1.232.0.1004)
5. Insight Management Agent: CPU internal corrected errors have passed a set threshold. (1.3.6.1.4.1.232.0.1005)
6. Insight Management Traps: Status change of Processor in Slot (1.3.6.1.4.1.232.0.1006)
7. Insight Management Traps: Power supply status change of Processor in Slot (1.3.6.1.4.1.232.0.1007)
8. Insight Management Traps: A USB storage device has been attached to the system.(1.3.6.1.4.1.232.0.1008)

Insight Management Agent SNMP Trap Templates and Rules for HPSIMInt-IMAagents_FwdStorageSysTraps (uses CPQSTSYS.MIB)

1. Insight Management Agent: Storage System fan status changed to OK, status contained in SNMP Varbind 1. (1.3.6.1.4.1.232.0.8001)
2. Insight Management Agent: Storage System fan status changed to FAILED, status contained in SNMP Varbind 1. (1.3.6.1.4.1.232.0.8001)
3. Insight Management Agent: Storage System fan status changed to DEGRADED, status contained in SNMP Varbind 1. (1.3.6.1.4.1.232.0.8001)
4. Insight Management Agent: This unit does not support fan monitoring, status contained in SNMP Varbind1 (1.3.6.1.4.1.232.0.8001)
5. Insight Management Agent: Storage System will be shutdown because of temperature failure. (1.3.6.1.4.1.232.0.8002)
6. Insight Management Agent: Storage System temperature degraded (1.3.6.1.4.1.232.0.8003)
7. Insight Management Agent: Storage System temperature OK. (1.3.6.1.4.1.232.0.8004)
8. Insight Management Agent: Storage System side panel is reinstalled on unit. (1.3.6.1.4.1.232.0.8005)
9. Insight Management Agent: Storage System side panel is removed from unit. (1.3.6.1.4.1.232.0.8006)
10. Insight Management Agent: Storage System power supply unit has become degraded (1.3.6.1.4.1.232.0.8007)
11. Insight Management Agent: Storage System fan status changed to OK, status is contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.8008)
12. Insight Management Agent: Storage System fan status changed to Failed, status is contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.8008)
13. Insight Management Agent: Storage System fan status changed to Degraded, status is contained in SNMP Varbind 3. (1.3.6.1.4.1.232.0.8008)
14. Insight Management Agent: Storage System will be shutdown. (1.3.6.1.4.1.232.0.8009)
15. Insight Management Agent: Storage System temperature degraded. (1.3.6.1.4.1.232.0.8010)
16. Insight Management Agent: Storage System temperature OK. (1.3.6.1.4.1.232.0.8011)
17. Insight Management Agent: Storage System side panel is reinstalled on unit. (1.3.6.1.4.1.232.0.8012)
18. Insight Management Agent: Storage System side panel is removed from unit. (1.3.6.1.4.1.232.0.8013)
19. Insight Management Agent: Storage System power supply unit has become degraded (1.3.6.1.4.1.232.0.8014)
20. Insight Management Agent: Storage System power supply unit has become degraded (1.3.6.1.4.1.232.0.8015)
21. Insight Management Agent: Storage System fan status changed to OK, status is contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.8016)

22. Insight Management Agent: Storage System fan status changed to Degraded, status is contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.8016)
23. Insight Management Agent: Storage System fan status changed to Failed, status is contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.8016)
24. Insight Management Agent: Storage System power supply status changed to OK, status is contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.8017)
25. Insight Management Agent: Storage System power supply status changed to Failed, status is contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.8017)
26. Insight Management Agent: Storage System power supply status changed to Degraded, status is contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.8017)
27. Insight Management Agent: Storage System power supply UPS status changed to OK, status is contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.8018)
28. Insight Management Agent: Storage System power supply UPS status changed to Power failed, status is contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.8018)
29. Insight Management Agent: Storage System power supply UPS status changed to Battery low, status is contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.8018)
30. Insight Management Agent: Storage System temperature sensor status has changed to OK, status is contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.8019)
31. Insight Management Agent: Storage System temperature sensor status has changed to Degraded, status is contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.8019)
32. Insight Management Agent: Storage System temperature sensor status has changed to Failed, status is contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.8019)
33. Insight Management Agent: Storage System fan status changed to OK, status is contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.8020)
34. Insight Management Agent: Storage System fan status changed to Degraded, status is contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.8020)
35. Insight Management Agent: Storage System fan status changed to Failed, status is contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.8020)
36. Insight Management Agent: Storage System power supply status changed to OK, status is contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.8021)
37. Insight Management Agent: Storage System power supply status changed to Failed, status is contained in SNMP Varbind 6. (1.3.6.1.4.1.232.0.8021)
38. Insight Management Agent: Storage System fan status changed to OK, status is contained in SNMP Varbind 9. (1.3.6.1.4.1.232.0.8022)
39. Insight Management Agent: Storage System fan status changed to Degraded, status is contained in SNMP Varbind 9. (1.3.6.1.4.1.232.0.8022)
40. Insight Management Agent: Storage System fan status changed to Failed, status is contained in SNMP Varbind 9. (1.3.6.1.4.1.232.0.8022)
41. Insight Management Agent: Storage System temperature status changed to OK, status is contained in SNMP Varbind 9. (1.3.6.1.4.1.232.0.8023)
42. Insight Management Agent: Storage System temperature status changed to Degraded, status is contained in SNMP Varbind 9. (1.3.6.1.4.1.232.0.8023)
43. Insight Management Agent: Storage System temperature status changed to Failed, status is contained in SNMP Varbind 9. (1.3.6.1.4.1.232.0.8023)
44. Insight Management Agent: Storage System power supply status changed to OK, status is contained in SNMP Varbind 9. (1.3.6.1.4.1.232.0.8024)
45. Insight Management Agent: Storage System power supply status changed to Degraded, status is contained in SNMP Varbind 9. (1.3.6.1.4.1.232.0.8024)
46. Insight Management Agent: Storage System power supply status changed to Failed, status is contained in SNMP Varbind 9. (1.3.6.1.4.1.232.0.8024)
47. Insight Management Agent: Storage System fan status changed to OK, status is contained in SNMP Varbind 1. (1.3.6.1.4.1.232.8.0.1)

- 48.** Insight Management Agent: Storage System fan status changed to Failed, status is contained in SNMP Varbind 1. (1.3.6.1.4.1.232.8.0.1)
- 49.** Insight Management Agent: Storage System fan status changed to Degraded, status is contained in SNMP Varbind 1. (1.3.6.1.4.1.232.8.0.1)
- 50.** Insight Management Agent: Storage system recovery server option status changed to DEAMON DOWN DISABLED, status is contained in SNMP Varbind 5. (1.3.6.1.4.1.232.0.8025)
- 51.** Insight Management Agent: Storage system recovery server option status changed to OK, status is contained in SNMP Varbind 5. (1.3.6.1.4.1.232.0.8025)
- 52.** Insight Management Agent: Storage system recovery server option status changed to DEAMON DOWN ACTIVE, status is contained in SNMP Varbind 5. (1.3.6.1.4.1.232.0.8025)
- 53.** Insight Management Agent: Storage system recovery server option status changed to NOSECONDARY, status is contained in SNMP Varbind 5. (1.3.6.1.4.1.232.0.8025)
- 54.** Insight Management Agent: Storage system recovery server option status changed to DEAMON DOWN NOSECONDARY, status is contained in SNMP Varbind 5. (1.3.6.1.4.1.232.0.8025)
- 55.** Insight Management Agent: Storage system recovery server option status changed to LINKDOWN, status is contained in SNMP Varbind 5. (1.3.6.1.4.1.232.0.8025)
- 56.** Insight Management Agent: Storage system recovery server option status changed to DEAMON DOWN LINKDOWN, status is contained in SNMP Varbind 5. (1.3.6.1.4.1.232.0.8025)
- 57.** Insight Management Agent: Storage system recovery server option status changed to SECONDARY RUNNING AUTO, status is contained in SNMP Varbind 5. (1.3.6.1.4.1.232.0.8025)
- 58.** Insight Management Agent: Storage system recovery server option status changed to SECONDARY RUNNING USER, status is contained in SNMP Varbind 5. (1.3.6.1.4.1.232.0.8025)
- 59.** Insight Management Agent: Storage System fan status changed to OK, status is contained in SNMP Varbind 9. (1.3.6.1.4.1.232.0.8026)
- 60.** Insight Management Agent: Storage System fan status changed to Failed, status is contained in SNMP Varbind 9. (1.3.6.1.4.1.232.0.8026)
- 61.** Insight Management Agent: Storage System fan status changed to Degraded, status is contained in SNMP Varbind 9. (1.3.6.1.4.1.232.0.8026)
- 62.** Insight Management Agent: Storage System temperature status is degraded, status is contained in SNMP Varbind 9. (1.3.6.1.4.1.232.0.8027)
- 63.** Insight Management Agent: Storage System temperature status is failed, status is contained in SNMP Varbind 9. (1.3.6.1.4.1.232.0.8027)
- 64.** Insight Management Agent: Storage System temperature status is ok, status is contained in SNMP Varbind 9. (1.3.6.1.4.1.232.0.8027)
- 65.** Insight Management Agent: Storage System power supply unit status is degraded, status is contained in SNMP Varbind 9 (1.3.6.1.4.1.232.0.8028)
- 66.** Insight Management Agent: Storage System power supply unit status is failed, status is contained in SNMP Varbind 9 (1.3.6.1.4.1.232.0.8028)
- 67.** Insight Management Agent: Storage System power supply unit status is OK, status contained in SNMP Varbind 9 (1.3.6.1.4.1.232.0.8028)
- 68.** Insight Management Traps: Storage System fan status has changed, status contained in SNMP Varbind 9 (1.3.6.1.4.1.232.0.8029)
- 69.** Insight Management Traps: Storage System temperature status has changed, status contained in SNMP Varbind 9 (1.3.6.1.4.1.232.0.8030)
- 70.** Insight Management Traps: Storage system power supply status has changed, status is contained in SNMP Varbind 9 (1.3.6.1.4.1.232.0.8031)

Insight Management Agent SNMP Trap templates and Rules for HPSIMInt-IMAagents_FwdSWCCTraps (uses CPQSWCC.MIB)

- 1.** Insight Management Agent: Fiber channel device status is OK , status is now contained in SNMP Varbind 3. (.1.3.6.1.4.1.232.132.2.0.1)
- 2.** Insight Management Agent: Fiber channel device status is Degraded , status is now contained in SNMP Varbind 3. (.1.3.6.1.4.1.232.132.2.0.1)

3. Insight Management Agent: Fiber channel device status is FAILED, status is now contained in SNMP Varbind 3. (.1.3.6.1.4.1.232.132.2.0.1)
4. Insight Management Agent: Fiber channel tape controller device status is OK , status is now contained in SNMP Varbind 3. (.1.3.6.1.4.1.232.132.2.0.2)
5. Insight Management Agent: Fiber channel tape controller device status is DEGRADED , status is now contained in SNMP Varbind 3. (.1.3.6.1.4.1.232.132.2.0.2)
6. Insight Management Agent: Fiber channel tape controller device status is FAILED , status is now contained in SNMP Varbind 3. (.1.3.6.1.4.1.232.132.2.0.2)
7. Insight Management Agent: EMU/Device Manager device status is OK , status is now contained in SNMP Varbind 3. (.1.3.6.1.4.1.232.132.3.0.1)
8. Insight Management Agent: EMU/Device Manager device status is DEGRADED, status is now contained in SNMP Varbind 3. (.1.3.6.1.4.1.232.132.3.0.1)
9. Insight Management Agent: EMU/Device Manager device status is FAILED, status is now contained in SNMP Varbind 3. (.1.3.6.1.4.1.232.132.3.0.1)
10. Insight Management Agent: Some event has happened to a physical device on a KZPCC controller (.1.3.6.1.4.1.232.132.4.1.0.1)
11. Insight Management Agent: Some event has happened to a virtual device (logical drive) on a KZPCC controller (.1.3.6.1.4.1.232.132.4.1.0.2)
12. Insight Management Agent: Some event has happened to a KZPCC controller (.1.3.6.1.4.1.232.132.4.1.0.3)

Insight Management Agent SNMP Trap templates and Rules for HPSIMInt-IMAagents_FwdThresholdMgmt-Traps (uses CPQTHRS.MIB)

1. Insight Management Agent: Rising threshold passed (1.3.6.1.4.1.232.0.10001)
2. Insight Management Agent: Falling threshold passed. (1.3.6.1.4.1.232.0.10002)
3. Insight Management Agent: Rising threshold passed (1.3.6.1.4.1.232.0.10003)
4. Insight Management Agent: Falling threshold passed (1.3.6.1.4.1.232.0.10004)
5. Insight Management Agent: Rising threshold passed (1.3.6.1.4.1.232.0.10005)
6. Insight Management Agent: Falling threshold passed (1.3.6.1.4.1.232.0.10006)
7. Insight Management Agent : Critical Rising Threshold Crossed (1.3.6.1.4.1.232.0.10007)
8. Insight Management Traps: Critical Falling Threshold Crossed (1.3.6.1.4.1.232.0.10008)

Insight Management Agent SNMP Trap templates and Rules for HPSIMInt-IMAagents_FwdUPSTraps (uses CPQUPS.MIB)

1. Insight Management Agent: UPS reports AC line power failure. (1.3.6.1.4.1.232.0.12001)
2. Insight Management Agent: UPS reports AC line power has returned. (1.3.6.1.4.1.232.0.12002)
3. Insight Management Agent: UPS has initiated server shutdown. (1.3.6.1.4.1.232.0.12003)
4. Insight Management Agent: Server now operational after UPS shutdown. (1.3.6.1.4.1.232.0.12004)
5. Insight Management Agent: UPS battery low server will soon lose power. (1.3.6.1.4.1.232.0.12005)
6. Insight Management Agent: UPS reports AC line power failure. (1.3.6.1.4.1.232.0.12006)
7. Insight Management Agent: UPS reports AC line power has returned. (1.3.6.1.4.1.232.0.12007)
8. Insight Management Agent: UPS has initiated server shutdown. (1.3.6.1.4.1.232.0.12008)
9. Insight Management Agent: Server now operational after UPS shutdown. (1.3.6.1.4.1.232.0.12009)
10. Insight Management Agent: UPS battery is low server will soon lose power. (1.3.6.1.4.1.232.0.12010)
11. Insight Management Agent: UPS has been overloaded. (1.3.6.1.4.1.232.0.12011)
12. Insight Management Agent: UPS battery is about to fail. (1.3.6.1.4.1.232.0.12012)
13. Insight Management Agent: UPS critical alarm received (1.3.6.1.4.1.232.0.12013)
14. Insight Management Agent: UPS informational alarm received (1.3.6.1.4.1.232.0.12014)

Insight Management Agent SNMP Trap templates and Rules for HPSIMInt-IMAagents_FwdSTEAMTraps (uses HS_agent.mib)

1. Insight Management Agent: Disk device has failed (.1.3.6.1.4.1.36.2.15.21.0.1)

2. Insight Management Agent: Disk device has recovered (1.3.6.1.4.1.36.2.15.21.0.2)
3. Insight Management Agent: Power supply has failed (.1.3.6.1.4.1.36.2.15.21.0.3)
4. Insight Management Agent: Power supply device has recovered (.1.3.6.1.4.1.36.2.15.21.0.4)
5. Insight Management Agent: Fan has failed (.1.3.6.1.4.1.36.2.15.21.0.5)
6. Insight Management Agent: Fan has recovered (.1.3.6.1.4.1.36.2.15.21.0.6)
7. Insight Management Agent: Cache Battery has failed (.1.3.6.1.4.1.36.2.15.21.0.7)
8. Insight Management Agent: Cache Battery has LOW state (.1.3.6.1.4.1.36.2.15.21.0.8)
9. Insight Management Agent: Cache Battery has good state (.1.3.6.1.4.1.36.2.15.21.0.9)
10. Insight Management Agent: Temperature Sensor has exceeded WARNING threshold limit (1.3.6.1.4.1.36.2.15.21.0.10)
11. Insight Management Agent: Temperature Sensor has dropped below WARNING threshold limit (1.3.6.1.4.1.36.2.15.21.0.11)
12. Insight Management Agent: Agent on host has lost communication with subsystem (1.3.6.1.4.1.36.2.15.21.0.12)
13. Insight Management Agent: Agent on host has recovered communication with subsystem (1.3.6.1.4.1.36.2.15.21.0.13)
14. Insight Management Agent: The Secondary Controller has failed (1.3.6.1.4.1.36.2.15.21.0.14)
15. Insight Management Agent: The Secondary Controller has recovered (.1.3.6.1.4.1.36.2.15.21.0.15)
16. Insight Management Agent: LUN has failed (1.3.6.1.4.1.36.2.15.21.0.16)
17. Insight Management Agent: LUN is now in reconstruct mode (1.3.6.1.4.1.36.2.15.21.0.17)
18. Insight Management Agent: LUN is in degraded state(1.3.6.1.4.1.36.2.15.21.0.18)
19. Insight Management Agent: LUN is in optimal state (1.3.6.1.4.1.36.2.15.21.0.19)
20. Insight Management Agent: The External Input to the EMU in cabinet indicates a failure (1.3.6.1.4.1.36.2.15.21.0.20)
21. Insight Management Agent: The External Input to the EMU in cabinet indicates a recovery (1.3.6.1.4.1.36.2.15.21.0.21)
22. Insight Management Agent: Cache Battery has unknown state (.1.3.6.1.4.1.36.2.15.21.0.22)

Insight Management Agent SNMP Trap templates and Rules for HPSIMInt-IMAgents_FwdRPMTraps (uses CPQRPM.MIB)

1. Insight Management Agent: A UPS device is reporting a Connection Lost (1.3.6.1.4.1.232.154.2.1)
2. Insight Management Agent: A UPS device is reporting a Connection Lost (1.3.6.1.4.1.232.154.2.2)
3. Insight Management Agent: A CMC device is reporting temperature 1 below minimum threshold (1.3.6.1.4.1.232.154.2.10001)
4. Insight Management Agent: A CMC device is reporting temperature 1 above warning threshold (1.3.6.1.4.1.232.154.2.10002)
5. Insight Management Agent: A CMC device is reporting temperature 1 above warning threshold (1.3.6.1.4.1.232.154.2.10002)
6. Insight Management Agent: A CMC device is reporting temperature 1 above maximum threshold (1.3.6.1.4.1.232.154.2.10003)
7. Insight Management Agent: A CMC device is reporting temperature 1 has returned to a normal (1.3.6.1.4.1.232.154.2.10004)
8. Insight Management Agent: A CMC device is reporting temperature 2 below minimum threshold (1.3.6.1.4.1.232.154.2.10005)
9. Insight Management Agent: A CMC device is reporting temperature 2 above warning threshold (1.3.6.1.4.1.232.154.2.10006)
10. Insight Management Agent: A CMC device is reporting temperature 2 above maximum threshold (1.3.6.1.4.1.232.154.2.10007)
11. Insight Management Agent: A CMC device is reporting temperature 2 has returned to a normal temperature (1.3.6.1.4.1.232.154.2.10008)
12. Insight Management Agent: A CMC device is reporting voltage below minimum threshold (1.3.6.1.4.1.232.154.2.10011)

13. Insight Management Agent: A CMC device is reporting voltage above maximum threshold (1.3.6.1.4.1.232.154.2.10012)
14. Insight Management Agent: A CMC device is reporting voltage has returned to normal (1.3.6.1.4.1.232.154.2.10013)
15. Insight Management Agent: A CMC device is reporting humidity below minimum threshold (1.3.6.1.4.1.232.154.2.10021)
16. Insight Management Agent: A CMC device is reporting humidity above maximum threshold (1.3.6.1.4.1.232.154.2.10022)
17. Insight Management Agent: A CMC device is reporting humidity has returned to normal (1.3.6.1.4.1.232.154.2.10023)
18. Insight Management Agent: A CMC device is reporting smoke detected (1.3.6.1.4.1.232.154.2.10031)
19. Insight Manager: A CMC device is reporting smoke cleared (1.3.6.1.4.1.232.154.2.10032)
20. Insight Management Agent: A CMC device is reporting shock detected (1.3.6.1.4.1.232.154.2.10041)
21. Insight Management Agent: A CMC device is reporting shock cleared (1.3.6.1.4.1.232.154.2.10042)
22. Insight Management Agent: A CMC device has entered an alarm condition for auxiliary input 1(1.3.6.1.4.1.232.154.2.10051)
23. Insight Management Agent: A CMC device is reporting auxiliary input 1 alarm cleared (1.3.6.1.4.1.232.154.2.10052)
24. Insight Management Agent: A CMC device has entered an alarm condition for auxiliary input 2(1.3.6.1.4.1.232.154.2.10053)
25. Insight Management Agent: A CMC device is reporting auxiliary input 2 alarm cleared (1.3.6.1.4.1.232.154.2.10054)
26. Insight Management Agent: A CMC device is reporting input 1 has been opened (1.3.6.1.4.1.232.154.2.10101)
27. Insight Management Agent: A CMC device is reporting input 1 has been closed (1.3.6.1.4.1.232.154.2.10102)
28. Insight Management Agent: A CMC device is reporting input 2 has been opened (1.3.6.1.4.1.232.154.2.10103)
29. Insight Management Agent: A CMC device is reporting input 2 has been closed (1.3.6.1.4.1.232.154.2.10104)
30. Insight Management Agent: A CMC device is reporting input 3 has been opened (1.3.6.1.4.1.232.154.2.10105)
31. Insight Management Agent: A CMC device is reporting input 3 has been closed (1.3.6.1.4.1.232.154.2.10106)
32. Insight Management Agent: A CMC device is reporting input 4 has been opened (1.3.6.1.4.1.232.154.2.10107)
33. Insight Management Agent: A CMC device is reporting input 4 has been closed(1.3.6.1.4.1.232.154.2.10108)
34. Insight Management Agent: A CMC device is reporting lockset 1 has been unlocked (1.3.6.1.4.1.232.154.2.10111)
35. Insight Management Agent: A CMC device is reporting lockset 1 has failed to lock (1.3.6.1.4.1.232.154.2.10112)
36. Insight Management Agent: A CMC device is reporting an error with lockset 1(1.3.6.1.4.1.232.154.2.10113)
37. Insight Management Agent: A CMC device is reporting lockset 1 has been locked (1.3.6.1.4.1.232.154.2.10114)
38. Insight Management Agent: A CMC device is reporting lockset 2 has been unlocked (1.3.6.1.4.1.232.154.2.10116)
39. Insight Management Agent : A CMC device is reporting lockset 2 has failed to lock (1.3.6.1.4.1.232.154.2.10117)
40. Insight Management Agent: A CMC device is reporting an error with lockset 2 (1.3.6.1.4.1.232.154.2.10118)

41. Insight Management Agent: A CMC device is reporting lockset 2 has been locked (1.3.6.1.4.1.232.154.2.10119)
42. Insight Management Agent: A CMC device is reporting lockset 1 is normal (1.3.6.1.4.1.232.154.2.10134)
43. Insight Management Agent: A CMC device is reporting lockset 2 is normal (1.3.6.1.4.1.232.154.2.10135)
44. Insight Management Agent: A UPS device is reporting output voltage is out of Range (1.3.6.1.4.1.232.154.2.21020)
45. Insight Management Agent: A UPS device is reporting an overload condition (1.3.6.1.4.1.232.154.2.20014)
46. Insight Management Agent: A UPS device is reporting an overload condition has cleared (1.3.6.1.4.1.232.154.2.20015)
47. Insight Management Agent: A UPS device is reporting low battery (1.3.6.1.4.1.232.154.2.21055)
48. Insight Management Agent: A UPS device is reporting low battery error has been cleared (1.3.6.1.4.1.232.154.2.21056)
49. Insight Management Agent: A UPS device is reporting on battery condition (1.3.6.1.4.1.232.154.2.21063)
50. Insight Management Agent: A UPS device is reporting an On Buck condition (1.3.6.1.4.232.154.2.21029)
51. Insight Management Agent: A UPS device is reporting an On Boost condition (1.3.6.1.4.232.154.2.21031)
52. Insight Management Agent: A UPS device is reporting on Power Utility condition (1.3.6.1.4.1.232.154.2.21064)
53. Insight Management Agent: A UPS device is reporting temperature is out of range (1.3.6.1.4.1.232.154.2.20103)
54. Insight Management Agent: A UPS device is reporting a general UPS failure (1.3.6.1.4.1.232.154.2.20111)
55. Insight Management Agent: A UPS device is reporting a general UPS failure has been cleared (1.3.6.1.4.1.232.154.2.20112)
56. Insight Management Agent: A UPS device is reporting a battery failure (1.3.6.1.4.1.232.154.2.20121)
57. Insight Management Agent: A UPS device is reporting a battery failure has been cleared (1.3.6.1.4.1.232.154.2.20122)
58. Insight Management Agent: A UPS device is reporting a diagnostic test failed (1.3.6.1.4.1.232.154.2.20131)
59. Insight Management Agent: A UPS device is reporting a diagnostic test succeeded (1.3.6.1.4.1.232.154.2.20132)
60. Insight Management Agent: Input (Utility) for UPS: measured input frequency is outside of either the upper or lower frequency limit specification for normal operation (1.3.6.1.4.1.232.154.2.20141)
61. Insight Management Agent: UPS Measured input frequency is normal (1.3.6.1.4.1.232.154.2.20142)
62. Insight Management Agent: A UPS device is reporting bypass not available (1.3.6.1.4.1.232.154.2.20161)
63. Insight Management Agent: A UPS device is reporting bypass not available error has been cleared (1.3.6.1.4.1.232.154.2.20162)
64. Insight Management Agent: A UPS device is reporting the input wiring is NORMAL (1.3.6.1.4.1.232.154.2.20202)
65. Insight Management Agent: A UPS device is reporting a fault in the input wiring (1.3.6.1.4.1.232.154.2.20201)
66. Insight Management Agent: A UPS device is operating in NORMAL mode (1.3.6.1.4.1.232.154.2.21060)
67. Insight Management Agent: A UPS device is operating in manual bypass mode (1.3.6.1.4.1.232.154.2.21059)
68. Insight Management Agent: A UPS device has been started while on utility power (1.3.6.1.4.1.232.154.2.20152)

69. Insight Management Agent: A UPS device has been started while on battery power (1.3.6.1.4.1.232.154.2.20151)
70. Insight Management Agent: A UPS device reporting input voltage out of range is NORMAL (1.3.6.1.4.1.232.154.2.21022)
71. Insight Management Agent: A UPS device is reporting input voltage is out of range (1.3.6.1.4.1.232.154.2.21021)
72. Insight Management Agent: A UPS device is reporting temperature is out of range (1.3.6.1.4.1.232.154.2.21007)
73. Insight Management Agent: A UPS device is reporting temperature is NORMAL (1.3.6.1.4.1.232.154.2.21008)
74. Insight Management Agent: A UPS device is operating in auto bypass mode (1.3.6.1.4.1.232.154.2.21047)
75. Insight Management Agent: A UPS device is not operating in auto bypass mode (1.3.6.1.4.1.232.154.2.21048)
76. Insight Management Agent: A UPS device is reporting output voltage is out of Range (1.3.6.1.4.1.232.154.2.21019)
77. Insight Management Agent: A UPS device is reporting batteries are not connected to the UPS (1.3.6.1.4.1.232.154.2.21053)
78. Insight Management Agent: A UPS device is reporting batteries are reconnected to the UPS (1.3.6.1.4.1.232.154.2.21054)
79. Insight Management Agent: A UPS device is reporting batteries are completely discharged (1.3.6.1.4.1.232.154.2.21057)
80. Insight Management Agent: A UPS device is reporting an output Breaker or Relay has failed (1.3.6.1.4.1.232.154.2.21041)
81. Insight Management Agent: A UPS device is reporting an output Breaker is functioning normally (1.3.6.1.4.1.232.154.2.21042)
82. Insight Management Agent: A UPS device is reporting an Emergency Power Off (EPO) command (1.3.6.1.4.1.232.154.2.21037)
83. Insight Management Agent: The UPS has been powered off with user interaction (1.3.6.1.4.1.232.154.2.21033)
84. Insight Management Agent: The UPS output has been restored (1.3.6.1.4.1.232.154.2.21034)
85. Insight Management Agent: A UPS device is reporting a cover panel has been removed (1.3.6.1.4.1.232.154.2.21045)
86. Insight Management Agent: A UPS device is reporting a cover panel has been replaced (1.3.6.1.4.1.232.154.2.21046)
87. Insight Management Agent: A UPS device is reporting a fan failure has occurred (1.3.6.1.4.1.232.154.2.21035)
88. Insight Management Agent: A UPS device is reporting a fan failure has cleared (1.3.6.1.4.1.232.154.2.21036)
89. Insight Management Agent: A UPS device is reporting a loss of redundancy (1.3.6.1.4.1.232.154.2.21023)
90. Insight Management Agent: A UPS device is reporting a loss of redundancy cleared (1.3.6.1.4.1.232.154.2.21024)
91. Insight Management Agent: A UPS device is reporting a shutdown imminent condition (1.3.6.1.4.1.232.154.2.21013)
92. Insight Management Agent: A UPS device is reporting a shutdown imminent condition cleared (1.3.6.1.4.1.232.154.2.21014)
93. Insight Management Agent: A UPS device is reporting shutdown pending condition (1.3.6.1.4.1.232.154.2.21011)
94. Insight Management Agent: The UPS is no longer pending shutdown (1.3.6.1.4.1.232.154.2.21012)
95. Insight Management Agent: A critical alarm has occurred (1.3.6.1.4.1.232.154.3.1)
96. Insight Management Agent: A warning alarm has occurred for UPS (1.3.6.1.4.1.232.154.3.2)
97. Insight Management Agent: An alarm has cleared for UPS (1.3.6.1.4.1.232.154.3.4)

Insight Management Agent SNMP Trap templates and Rules for HPSIMInt-IMAagents_FwdCIMTraps (CPQCIM.MIB)

- 1.** Insight Management Agent: The GbE switch has successfully transferred a firmware image (1.3.6.1.4.1.232.0.161001)
- 2.** Insight Management Agent: The GbE switch has successfully transferred a configuration file (1.3.6.1.4.1.232.0.161002)
- 3.** Insight Management Agent: The GbE switch has successfully completed a TFTP transfer (1.3.6.1.4.1.232.0.161003)
- 4.** Insight Management Agent: The GbE switch has failed a TFTP transfer (1.3.6.1.4.1.232.0.161004)
- 5.** Insight Management Agent: Invalid firmware or configuration image downloaded (1.3.6.1.4.1.232.0.161005)
- 6.** Insight Management Agent: The GbE switch fan has failed (1.3.6.1.4.1.232.0.161006)
- 7.** Insight Management Agent: The switch fan has returned to normal operation (1.3.6.1.4.1.232.0.161007)
- 8.** Insight Management Agent: The switch temperature sensor indicates a high temperature condition (1.3.6.1.4.1.232.0.161008)
- 9.** Insight Management Agent: The switch temperature sensor indicates an over-temperature condition (1.3.6.1.4.1.232.0.161009)
- 10.** Insight Management Agent: The switch temperature sensor indicates temperature has returned to normal (1.3.6.1.4.1.232.0.161010)
- 11.** Insight Management Agent: The switch has successfully completed POST (1.3.6.1.4.1.232.0.161011)
- 12.** Insight Management Agent: The switch has rejected a login attempt (1.3.6.1.4.1.232.0.161012)
- 13.** Insight Management Agent: A SNTP Server was configured, but no SNTP servers were found (1.3.6.1.4.1.232.0.161015)

C Service Discovery File Locations

The locations of the files that are created or used during the HP SIM Integration service discovery process are listed below:

OVO Management Server

If you need to locate a particular type of file on the OVO management server, use the following list:

The OVO Service Navigator/Discovery Output files also contain information about errors that occur during the service discovery process, for example, if a node is down or not responding.

NOTE:

You can set values for variables in the discovery configuration file to enable tracing and to receive discovery related messages from the managed nodes. To enable tracing, the variable `SPI_DISC_TRACE` should be set to `ON` and to receive discovery related messages from the node, the variable `MSG_ALLOW` should be set to `Y`. By default, tracing is set to `OFF` and `MSG_ALLOW` is set to `N`.

Table 37 provides Service Discovery File Location on the OVO Management Server.

Table 37 Service Discovery File Location on the OVO Management Server

File Type	File Location
Discovery Server Script	/opt/OV/lbin/SPIsvcDisc/SPI_DiscServ.sh
Logs	/var/opt/OV/log/SPIsvcDisc/discovery_error.log
Service Configuration File (XML)	/var/opt/OV/share/conf/SPIsvcDisc/HPSIMInt_HPSIM-Unix/ HPSIMInt_HPSIM-UnixSvcDisc_\${NODENAME}.xml /var/opt/OV/share/conf/SPIsvcDisc/HPSIMInt_HPSIM-Win/ HPSIMInt_HPSIM-WinSvcDisc_\${NODENAME}.xml /var/opt/OV/share/conf/SPIsvcDisc/HPSIMInt_IMAgents-Win/ HPSIMInt_IMAgents-WinSvcDisc_\${NODENAME}.xml
Discovery Configuration File	/var/opt/OV/conf/SPIsvcDisc/HPSIMInt_HPSIM-Win_DiscConf.sh /var/opt/OV/conf/SPIsvcDisc/HPSIMInt_HPSIM-Unix_DiscConf.sh /var/opt/OV/conf/SPIsvcDisc/HPSIMInt_IMAgents- Win_DiscConf.sh
Trace (If tracing is enabled)	/var/opt/OV/log/SPIsvcDisc/discovery_trace_HPSIMInt_HPSIM- Unix.log /var/opt/OV/log/SPIsvcDisc/discovery_trace_HPSIMInt_HPSIM- Win.log /var/opt/OV/log/SPIsvcDisc/discovery_trace_HPSIMInt_IMA- gents-Win.log

OVO Managed Nodes for HTTPS Agents

The following list shows the directory locations for the files the HP SIM Integration deploys on OVO managed nodes for HTTPS agents.

Table 38 provides Service Discovery File Location on the OVO Managed Nodes for HTTPS Agents

Table 38 Service Discovery File Location on the OVO Managed Nodes for HTTPS Agents

File Type	File Location
Discovery Client Script	%OvInstallDir%\data\bin\Instrumentation\SPI_DiscClient.pl
Discovery Modules	Windows: %OvInstallDir%\data\bin\Instrumentation HP-UX/Linux: /var/opt/OV/bin/instrumentation
Logs	Windows: %OvInstallDir%\data\log\SPISvcDisc\HPSIMInt_HPSIM-Win_discovery.log %OvInstallDir%\data\log\SPISvcDisc\HPSIMInt_IMAagents-Win_discovery.log %OvInstallDir%\data\tmp\SPISvcDisc\HPSIMInt_IMAagents-Win_discovery.xml HP-UX/Linux: /var/opt/OV/log/SPISvcDisc/HPSIMInt_HPSIM-Unix_discovery.log
Service Configuration File (XML)	Windows: %OvInstallDir%\data\tmp\SPISvcDisc\HPSIMInt_HPSIM-Win_discovery.xml %OvInstallDir%\data\tmp\SPISvcDisc\HPSIMInt_IMAagents-Win_discovery.xml HP-UX/Linux: /var/opt/OV/tmp/SPISvcDisc/HPSIMInt_HPSIM-Unix_discovery.xml
Trace (If tracing is enabled)	Windows: %OvInstallDir%\data\log\SPISvcDisc\HPSIMInt_HPSIM-Win_discovery.trc %OvInstallDir%\data\log\SPISvcDisc\HPSIMInt_IMAagents-Win_discovery.trc HP-UX/Linux: /var/opt/OV/log/SPISvcDisc/HPSIMInt_HPSIM-Unix_discovery.trc

OVO Managed Nodes for DCE Agents

The following list shows the directory locations for the files the HP SIM Integration deploys on OVO managed nodes for DCE agents.

Table 39 provides Service Discovery File Location on the OVO Managed Nodes for DCE Agents

Table 39 Service Discovery File Location on the OVO Managed Nodes for DCE Agents

File Type	File Location
Discovery Client Script	%OvAgentDir%\bin\OpC\cmds\SPI_DiscClient.pl
Discovery Modules	Windows: %OvAgentDir%\bin\OpC\cmds HP-UX/Linux: /var/opt/OV/bin/OpC/cmds
Service Configuration File (XML)	Windows: %OvAgentDir%\tmp\SPISvcDisc\HPSIMInt_HPSIM-Win_discovery.xml %OvAgentDir%\tmp\SPISvcDisc\HPSIMInt_IMAgents-Win_discovery.xml HP-UX/Linux: /var/opt/OV/tmp/SPISvcDisc/HPSIMInt_HPSIM-Unix_discovery.xml
Logs	Windows: %OvAgentDir%\log\SPISvcDisc\HPSIMInt_HPSIM-Win_discovery.log %OvAgentDir%\log\SPISvcDisc\HPSIMInt_IMAgents-Win_discovery.log HP-UX/Linux: /var/opt/OV/log/SPISvcDisc/HPSIMInt_HPSIM-Unix_discovery.log
Trace (If tracing is enabled)	Windows: %OvAgentDir%\log\SPISvcDisc\HPSIMInt_HPSIM-Win_discovery.trc %OvAgentDir%\log\SPISvcDisc\HPSIMInt_IMAgents-Win_discovery.trc HP-UX/Linux: /var/opt/OV/log/SPISvcDisc/HPSIMInt_HPSIM-Unix_discovery.trc

Glossary

This glossary defines terms used in this guide or terms related to this product and is not a comprehensive glossary of computer terms.

Central Management Server (CMS)	The central management server (CMS) runs the HP Systems Insight Manager software.
SAN	Storage Area Network. A configuration of networked devices for storage.
state	State is an attribute that describes the current operational condition of an object.
WMI	The Microsoft Windows Management Instrumentation (WMI) service. This service is a Microsoft Windows Web Based Enterprise Management (WBEM) implementation.
Secured Socket Layer (SSL)	A system for encrypting data sent over the Internet, including e-commerce transactions and passwords. With SSL, client and server computers exchange public keys, enabling them to encode and decode their communication.
GUI	Graphical User Interface. A software interface that is based on graphics instead of text.
Server	A system that delivers information and software to other systems linked by a network.
Secure Shell (SSH)	Secure Shell is a secure way of transferring information (including files) between systems on a network.
BIOS	A set of routines that works closely with the hardware to support the transfer of information between elements of the system, such as memory, disks, and the monitor. Although critical to performance, the BIOS is usually invisible to the end user.
CLI	A CLI (command line interface) is a user interface to a system's operating system or an application in which the user responds to a visual prompt by typing in a command on a specified line, receives a response back from the system, and then enters another command.
RAM	Random-Access Memory: The most common computer memory which can be used by programs to perform necessary tasks while the system is on. RAM is an integrated circuit memory chip that allows information to be stored or accessed in any order; and all storage locations are equally accessible.

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