HP Operations Integration for HP Systems Insight Manager

for HP Operations Manager for Windows®

Software Version: 1.50

Installation and Reference Guide

June 2008

Legal Notices

Documentation Updates

This guide's title page contains the following identifying information:

- Software Version Number, which indicates the software version.
- Document Release Date, which changes each time the document is updated.
- Software Release Date, which indicates the release date of this version of the software.

To check for recent updates, or to verify that you are using the most recent edition of a document, see the HP software product manuals web site at:

http://h20230.www2.hp.com/selfsolve/documents/

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

Support

You can visit the HP software support web site at:

http://www.hp.com/managementsoftware/support

HP Software online support web site provides an efficient way to access interactive technical support tools. As a valued support customer, you can benefit by using the support web site to:

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

Most of the support areas require that you register as an HP Passport user and sign in. Many also require a support contract.

To find more information about access levels and HP Passport, visit the HP software support web site at:

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

Contents

1 HP Operations Integration for HP Systems Insight Manager

This chapter addresses the following topics:

Overview

The HP SIM Integration Kit provides a smart link between HP Operations Manager for Windows (HPOM for Windows) and HP SIM - a market leading management solution for network systems, databases, and applications in heterogeneous IT environments. This smart link also provides features for monitoring and managing the HP SIM and Insight Management Agents (IM Agents), host agent services, and enables event forwarding, and event acknowledgement between HP SIM and HPOM for Windows. The HP SIM Integration consists of policies, tools, and messages to manage the functionality of HP SIM management servers and the IM Agents. The HP SIM Integration can be installed in environments consisting of multiple HP SIM management servers and IM Agent nodes.

Features and functionality

The HP Systems Insight Manager Integration supports the following features on HPOM for Windows:

- **Service discovery**

  Supports discovery of HP SIM central management server (CMS) and IM Agents.

- **Service/process monitoring**

  Monitors the availability of the discovered HP SIM and the IM Agent services. The service alerts can be communicated to the HPOM service navigator and the HPOM message browser.

- **ProLiant server system monitoring**

  Offers tool to configure IM Agent SNMP trap destination and policies for IM Agent SNMP traps. These policies generate HPOM event messages for server hardware problems.

If you deploy the default HP SIM event forwarding and the IM Agent trap policies, duplicate events are forwarded from each of the SIM applications.

- **Event forwarding from HP SIM**

  Provides tools to configure forwarding of HP SIM events to HPOM message browser. Event 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**

  Enables you to clear events on HP SIM if the events forwarded from HP SIM to HPOM are acknowledged on HPOM. When configured, events that are cleared on HP SIM are acknowledged on HPOM if they were forwarded from HP SIM and they exist in the HPOM active message browser.

- **Tool groups**

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

- **Policy groups**

  Contain policies 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 CMS System page from HPOM messages.

- **Web Interface tools**

  Provides tools to launch the web interface for HP SIM, IM Agent, and Integrated Lights-Out (iLO).

- **Self-Healing services**

  Integrates with HPOM Self-Healing services to provide improved troubleshooting, streamlined problem analysis, and incident reporting, by collecting data and system information relevant to a fault.

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

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

2 HP Systems Insight Manager

This chapter addresses 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 supports 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. It enables you to choose the value-added software required to deliver complete life cycle management of your hardware assets.

Features

HP SIM supports the following features:

- Supports 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.
- Supports 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 using system software version control.
- Enables secure management through Secured Socket Layer (SSL), Secure Shell (SSH), and operating system authentication.

Benefits

HP SIM offers the following benefits:

- **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 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 systems running obsolete software, and updates system software across groups of servers. For system running, the software distributor is integrated with HP SIM.

For more information about HP Systems Insight Manager, see the HP SIM web site at:

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 web site:

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

3 Installing HP SIM Integration

This chapter addresses the following topics:

Prerequisites

This section addresses the software and hardware requirements for installing HP SIM Integration.

Hardware Requirements

You must read this section and any other documents recommended in this section before installing HP SIM Integration. For a detailed list of hardware requirements, see the following documents:

- For 8.10 management server, see the *HP Operations Manager for Windows Installation Guide*.
- For 8.10 HTTPS managed nodes, see the *HP OpenView Operations HTTPS Agent Concepts and Configuration Guide*.
- For HPOM 8.10 DCE managed nodes, see the *HP OpenView Operations OVO DCE Agent Concepts and Configuration Guide*.

Table 1 lists the disk space requirements for installing HP SIM Integration.

Table 1 Disk Space Requirements

Product	Operating System	Installation	Runtime Files	Total
HP SIM Integration	Microsoft Windows	12 MB	1 MB	13 MB

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

Software Requirements

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

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

- OVO for Windows 7.50 or HPOM for Windows 8.10. It must be updated with the latest server and agent patches.
- HP Operations Smart Plug-in Self-Healing Integration Component, Version 2.30
- HP Operations DCE Agent A.07.29, A.07.32
- HP Operations HTTPS Agent 08.50.011
- Install **OVOW_00244** patch for running HPSIMInt SPI 1.50 on OVOW 7.50

Table 2 lists the HPOM management server versions supported by HP SIM Integration.

Table 2 HPOM Management Server Versions

HPOM Management Server	Operating System	HPOM Agent Types
OVO 7.50	Microsoft Windows 2003 (32-bit)	DCE
	Microsoft Windows 2000	
HPOM 8.10	Microsoft Windows 2003 (32-bit)	HTTPS DCE

Table 3 lists the HP Systems Insight Manager versions supported by the HP SIM Integration.

Table 3 HP Systems Insight Manager Versions

HP Systems Insight Manager CMS	Operating System
HP SIM 5.1 HP SIM 5.2	Windows 2000 (supported only on OVOW 7.50) Windows 2003 (32-bit) Windows XP Professional, SP2 HP-UX 11.00 (supported only on OVOW 7.50) HP-UX 11.11 HP-UX 11.23 PA/IA HP-UX 11.31 PA/IA RedHat Linux AS 3/4 (32-bit) SuSE Linux ES 8/9 (32-bit)

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

Table 4 HP Insight Management Agent Version

HP Insight Management Agent	Operating System
HP SmartStart CD v 7.8 HP SmartStart CD v 7.9	Windows 2000 (32-bit) (supported only on OVOW 7.50)
	Windows 2003 (32-bit)
	Windows 2003 (64-bit)

Installing HP SIM Integration

Before you start installing HP SIM Integration on the HPOM management server, ensure that the HPOM management server meets the installation prerequisites. For more information, see Prerequisites on page 20.

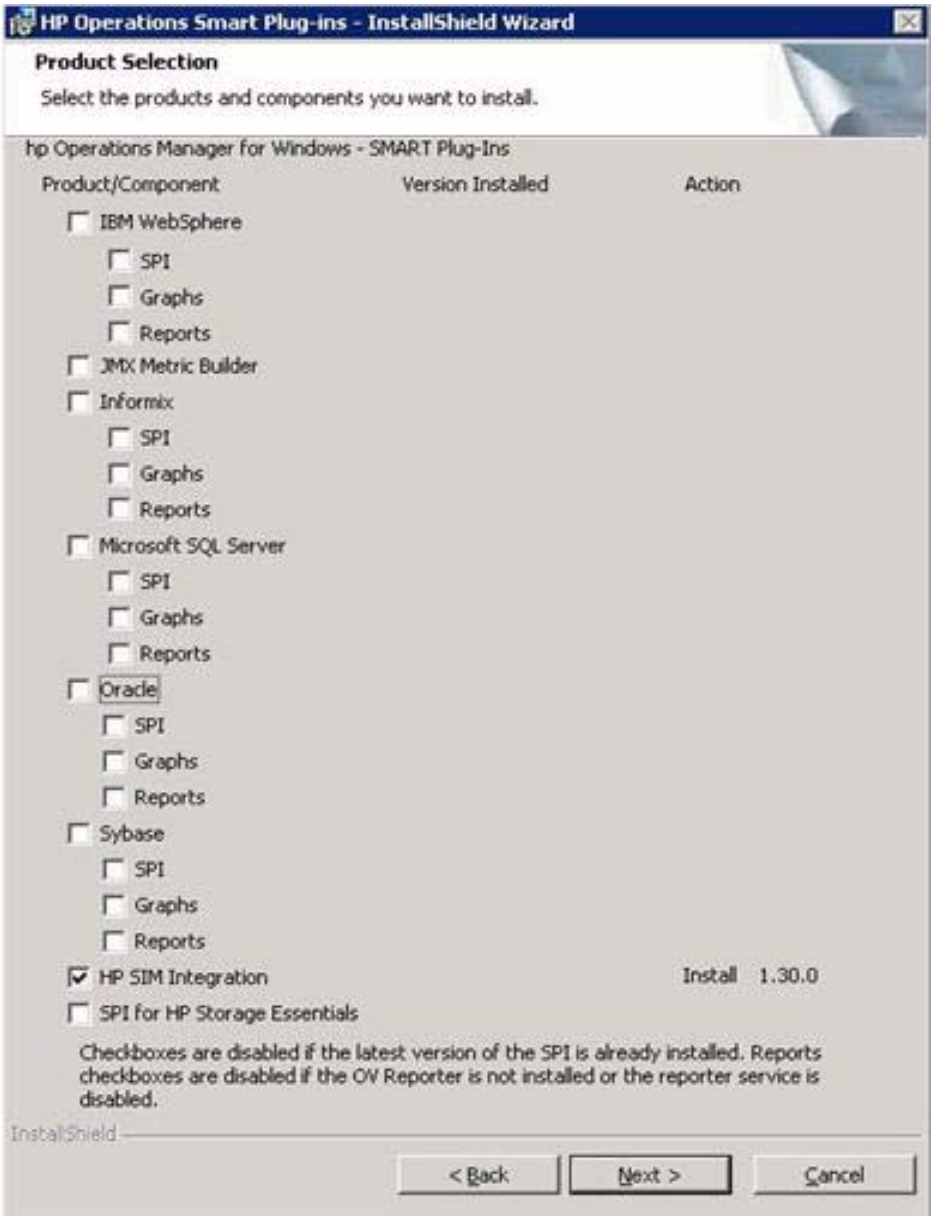
Deploy the agent with the latest patches to the node before deploying the HP SIM Integration.

To install the HP SIM Integration from the *Smart Plug-ins, New and Upgraded* DVD on the HPOM management server, complete the following steps:

For correct installation, HP SIM integration must be installed from the DVD installer. Do not copy and run `.msi` files directly.

1. Log in to the HPOM management server as an administrator.
2. Insert the *Smart Plug-ins, New and Upgraded* DVD into the DVD drive of the management server/console system.

The installation wizard displays.



3 In the Product Selection window, select **HP SIM Integration** and click **Next**.

4 The Installer executable verifies whether HPOM is installed, installs the package, and loads the selected packages to the HPOM management server.

5 Follow the on-screen instructions to complete the installation process.

6 Click **Finish** to exit from the installation wizard.

For more details on installing HP Operations Smart Plug-ins, see the *New and Upgraded Smart Plug-ins DVD for HP Operations Installation / Upgrade Guide*.

Upgrading the HP SIM Integration

To upgrade to the latest version of HP SIM Integration, complete the following steps:

1. Ensure you have read the hardware and software requirements in Prerequisites section.
2. If you want to preserve any policy customization that you have made in the previous version, you must take a backup to save the complete and current HP SIM Integration policies.
3. Stop HP SIM Integration Event Listener using the **Stop Event Listener** tool.
4. Remove the HP SIM CMS node from the node group using **De-assign HP SIM node from node group** tool.
5. Uninstall older versions of the HP SIM Integration policies from existing managed nodes.

   a) In the console tree, select Policy management -> Policy groups -> HP SIM integration

   b) Right-click and select All tasks -> Uninstall from.

   c) Select the appropriate node group or nodes. Select OK.
6. Install the HP SIM Integration from the DVD by following the procedure mentioned in the Installing HP SIM Integration section.
7. Ensure that **Auto-deployment** registry variable **Disable** is set to False.
8. Assign all the HP SIM CMS nodes that were de-assigned in step 4 back to the 'HP SIM CMS' node group using the tool 'Assign HP SIM node to node group'.
9. Run **Get HP SIM Credentials** tool and **Start Event Listener** tool.

Verifying installation

To verify whether HP SIM Integration is installed successfully on the HPOM management server, open the HPOM management server console and check whether the following elements are present:

Table 5 lists the HP SIM Integration elements that are created after installation.

Table 5 HP SIM Integration Elements

Elements	Options
Node Groups	HP SIM CMS-Unix HP SIM CMS-Win IM Agents-Win
Tools Group	HP SIM Integration — HP Systems Insight Manager-Unix — HP Systems Insight Manager-Win — HPSIMInt Utils — Insight Management Agents
Message Group	HPSIMInt-IMAgents HPSIMInt-Systems_Insight_Manager
Policy Group	HP SIM Integration — HP SIM CMS-Win — HP SIM CMS-Unix — HP SIM Event Acknowledging — IM Agent-Win
User Roles	HP SIM Integration Admin

If these elements are not present, you need to reinstall HP SIM Integration.

Table 6 lists the assignment of policy groups to node group.

Table 6 Assignment of Policy Groups to Node Groups

Node Groups	Policy Groups
HP SIM CMS-Unix	\HP SIM Integration\HP SIM CMS-Unix\Event Forwarding \HP SIM Integration\HP SIM CMS-Unix\Service Discovery \HP SIM Integration\HP SIM CMS-Unix\Service Monitoring
HP SIM CMS-Win	\HP SIM Integration\HP SIM CMS-Win\Event Forwarding \HP SIM Integration\HP SIM CMS-Win\Service Discovery \HP SIM Integration\HP SIM CMS-Win\Service Monitoring
IM Agents-Win	\HP SIM Integration\IM Agents-Win\Hardware Traps \HP SIM Integration\IM Agents-Win\Service Discovery \HP SIM Integration\IM Agents-Win\HP Remote Insight Lights Out \HP SIM Integration\IM Agents-Win\Service Monitoring

If any of the elements listed in Table 6 are not present, you must reinstall HP SIM Integration.

Installed file locations

The installation process copies the necessary files to the HPOM management server.

Table 7 lists the files and directories that are created during the installation of HP SIM Integration on the HPOM management server.

Table 7 File Locations on the HPOM Management Server

Component	Location
Binaries and Scripts	<OvInstallDir>install\HPSIMInt <OvInstallDir>bin\HPSIMInt <OvOWShareInstallDir>Data\shared\SPI-Share\HPSIMInt
Instrumentation	<OvInstallDir>Data\shared\Instrumentation\Windows 2000\5.0\HP SIM Integration <OvInstallDir>Data\shared\Instrumentation\Windows XP\5.1\HP SIM Integration <OvInstallDir>Data\shared\Instrumentation\Windows Server 2003\5.2\HP SIM Integration <OvOWShareInstallDir>Data\shared\Instrumentation\HPUX\B.11.00\HP SIM Integration <OvInstallDir>Data\shared\Instrumentation\HPUX\B.11.23\HP SIM Integration <OvInstallDir>Data\shared\Instrumentation\HPUX\B.11.23 PI\HP SIM Integration <OvInstallDir>Data\shared\Instrumentation\HPUX\B.11.31 PA\HP SIM Integration <OvInstallDir>Data\shared\Instrumentation\LINUX\Red Hat EL 3.0\HP SIM Integration <OvInstallDir>Data\shared\Instrumentation\LINUX\Red Hat EL 4.0\HP SIM Integration <OvInstallDir>Data\shared\Instrumentation\LINUX\SuSE Server 8\HP SIM Integration <OvInstallDir>Data\shared\Instrumentation\LINUX\SuSE Server 9\HP SIM Integration
Documentation	<OvInstallDir>install\HPSIMInt\doc
Mof Files	<OvInstallDir>install\HPSIMInt\NLS\1033\MofFiles

Table 8 lists the directories for HP SIM Integration components that are used for the deployment of policies to the DCE and HTTPS managed node(s).

Table 8 File Locations on the HPOM Managed Node

Operating System	Installed Location
Microsoft Windows	<OvAgentDir>\bin\instrumentation
HP-UX, Linux	<OvInstallDir>\data\bin\instrumentation

4 Configuring the HP SIM Integration

This chapter addresses the following topics:

Overview

This section provides an overview for configuring the features of HP SIM Integration. This section can also be used as a checklist for HP SIM Integration configuration tasks.

1 Installing HPOM agents on nodes

2 Assigning HP SIM node to node group

3 Obtaining HP Systems Insight Manager credentials

4 Configuring the HPOM Agent for a non-root user

5 Deploying policies on the HPOM management server

6 Deploy policies on the HP SIM Integration node groups

7 Configuring the HP SIM Integration to forward HP SIM events

8 Configure bi-directional event acknowledgement/Clearing

9 Re-configuring HP SIM Integration to forward HP SIM events

HP SIM Integration functions

Configuring the HP SIM Integration enables the following functions:

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

Installing the HPOM agent on nodes

The first step of configuration of the HP SIM Integration is to install the HPOM agent on all the nodes where HP SIM and/or IM Agents are installed. Before starting the HPOM agent installation, ensure that the system on which you want to install the HPOM agent meets the installation requirements mentioned in the Prerequisites section. You can install the HPOM agent on a managed node by various methods. For more information on the various installation methods, see the *HP Operations Manager for Windows Installation Guide* and also the documents listed in Prerequisites section.

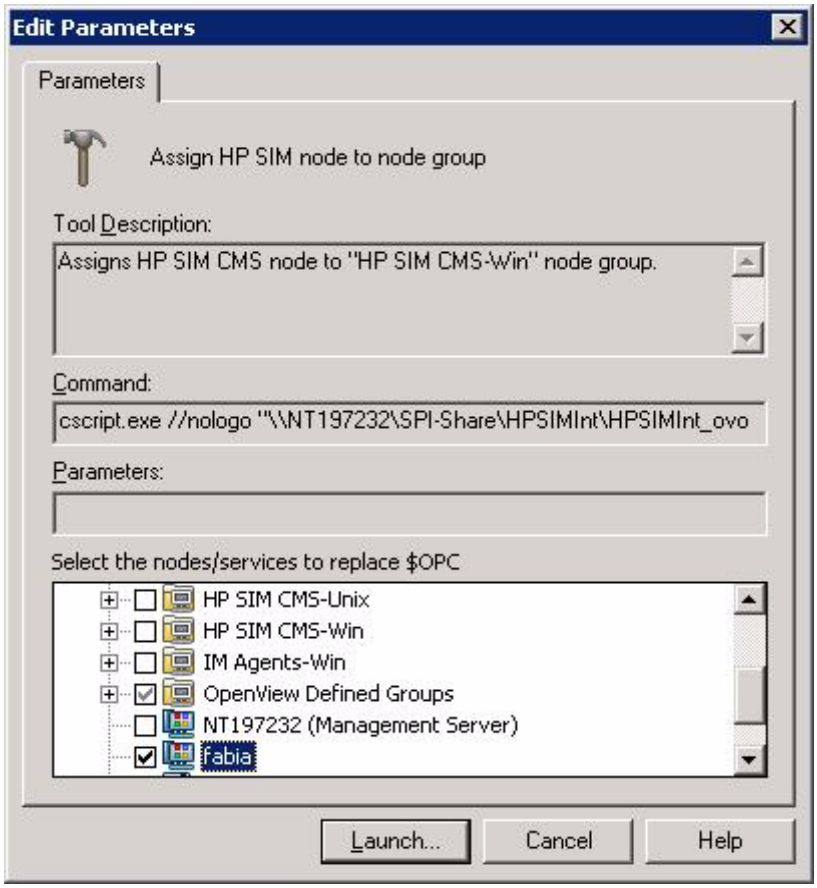
Assigning HP SIM CMS nodes to node group

The **Assign HP SIM node to node group** tool assigns the node to the chosen HP SIM CMS node group and deploys the **HP SIM CMS** policy groups, such as **Service Discovery** and **Service Monitoring** policies. The Service Discovery policy deployment runs the HP SIM service discovery process. If an HP SIM service is not discovered, the corresponding monitor policy will be disabled.

To assign HP SIM CMS nodes to the correct node group, complete the following steps:

1. Log in to the HPOM management server, and start the HPOM Console.
2. Select **Tools**→**HP SIM Integration**→**HP Systems Insight Manager - Win** or **HP Systems Insight Manager - Unix** (depending on the operating system), and right-click **Assign HP SIM node to node group**.
3. Select **All Tasks**→**Launch Tool...**.

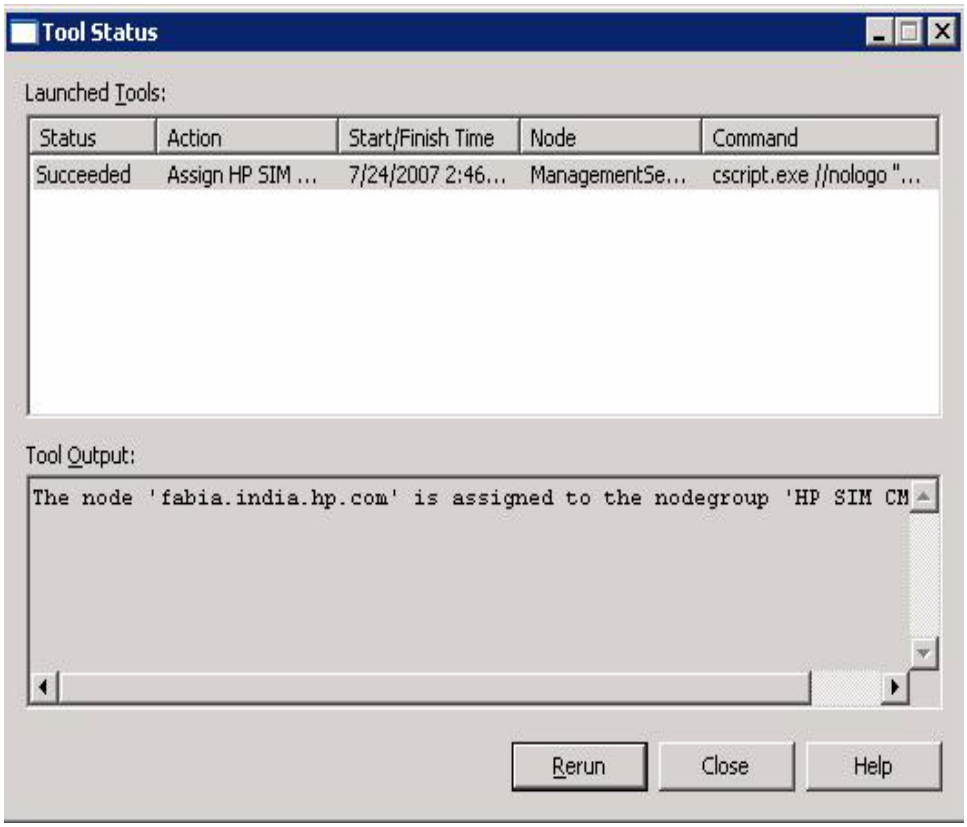
The Edit Parameters window displays.



4 From **Select the nodes/services to replace $OPC** window pane, select the node on which the HP SIM CMS is running.

5 Click **Launch...**.

The Tool Status window displays.



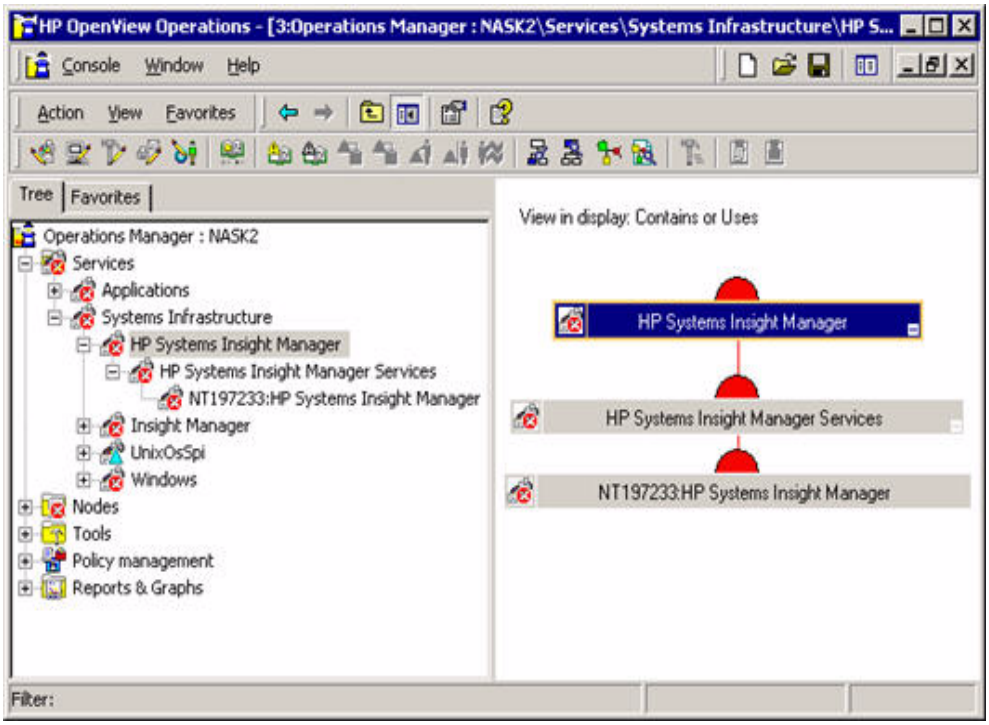
This assigns the HP SIM CMS node to the **HP SIM CMS-Win** or **HP SIM CMS - Unix** node group and deploys service discovery and monitor policies.

The HP SIM Integration category instrumentation gets deployed with the service discovery policy, to HP SIM CMS node(s).

6 To view the status of the deployment job, select **Policy Groups→Deployment jobs** in the **Policy management** folder.

Wait for several minutes for the process execution to complete.

After the processes are executed, the HP SIM service map is created on HPOM Console.



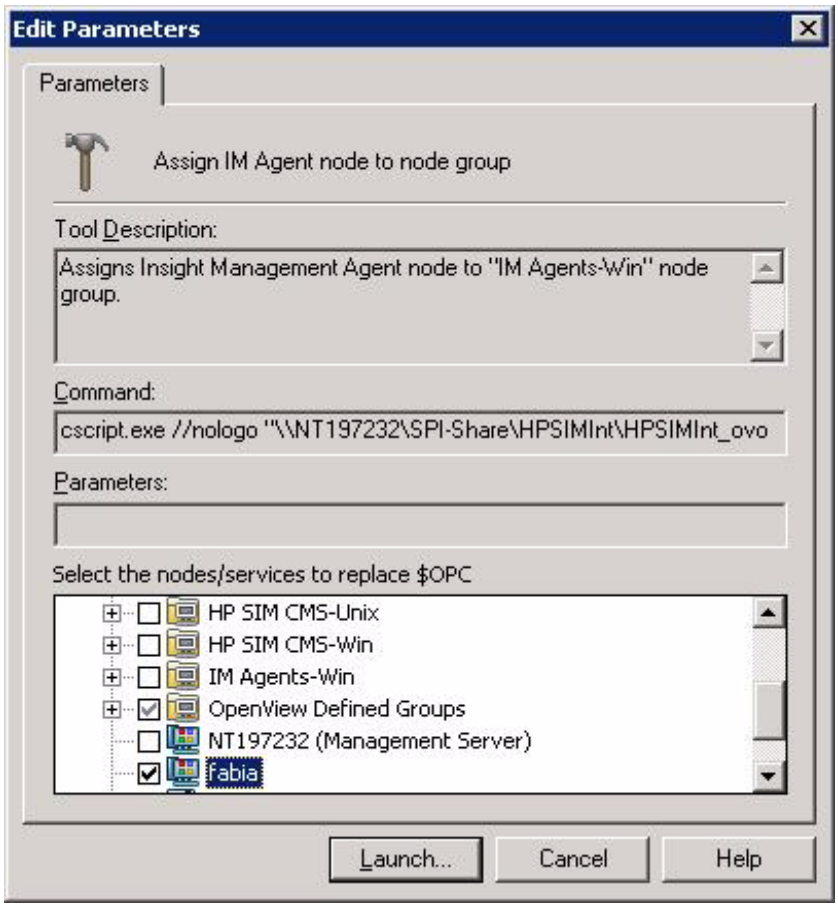
Assigning Insight Management Agent node to node group

The **Assign IM Agent node to node group** tool assigns the selected node(s) to the **IM Agents-Win** node group and deploys the **IM Agents-Win** policy groups Service Discovery policies. The IM Agent Service Discovery policy deployment runs the service discovery process. It discovers only those IM Agent services which are running and deploys the respective service monitoring policies.

To assign Insight Management Agent nodes to node group, complete the following steps:

1. Select **Tools→HP SIM Integration→Insight Management Agents**, and right-click **Assign IM Agent node to node group**.
2. Select **All Tasks→Launch Tool...**.

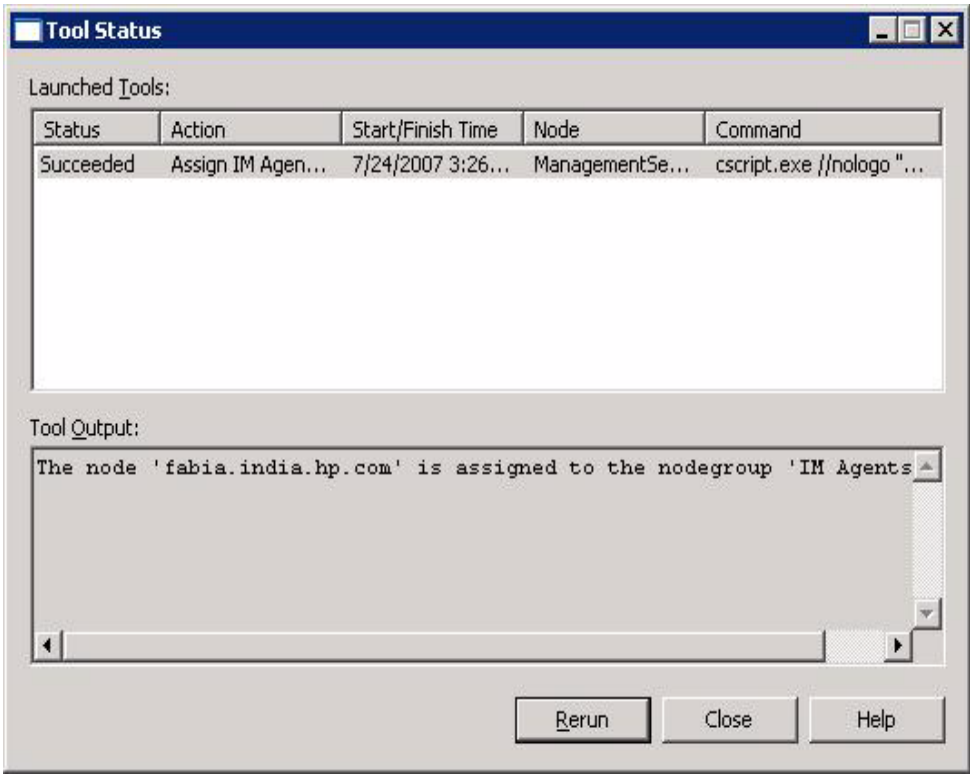
The Edit Parameter window displays.



3 From the **Select the nodes/services to replace $OPC** window pane, select the node on which IM Agents are running.

4 Click **Launch...**.

The Tool Status window displays

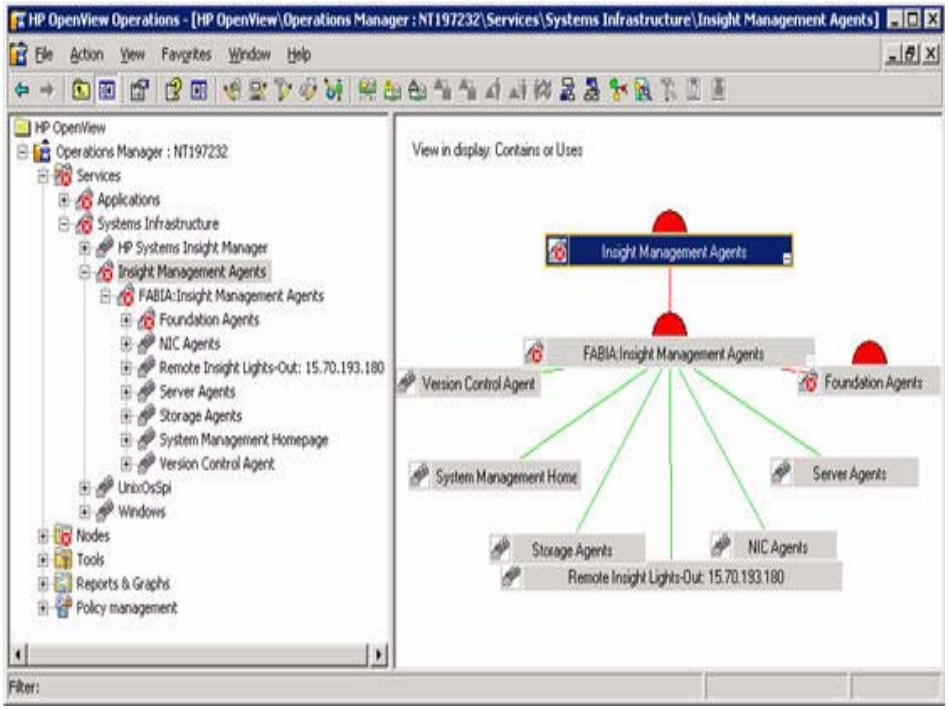


This assigns the IM Agent node to the **IM Agents-Win** node group.

5 To view the status of the deployment job, select **Policy Groups→Deployment jobs** in the **Policy management** folder.

Wait for several minutes for the process execution to complete.

After the processes are executed, the IM Agent service map is created on HPOM Console.



- The HP SIM Integration category instrumentation gets auto-deployed with the service discovery policy to IM Agent node(s).

Obtaining HP Systems Insight Manager credentials

Many HP SIM Integration tools require HP SIM credentials for execution. To use these features, 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 who has 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.

The Get HP SIM Credentials tool cannot be executed from the HPOM Remote Console.

Following are the HP SIM Integration tools requiring HP SIM credentials:

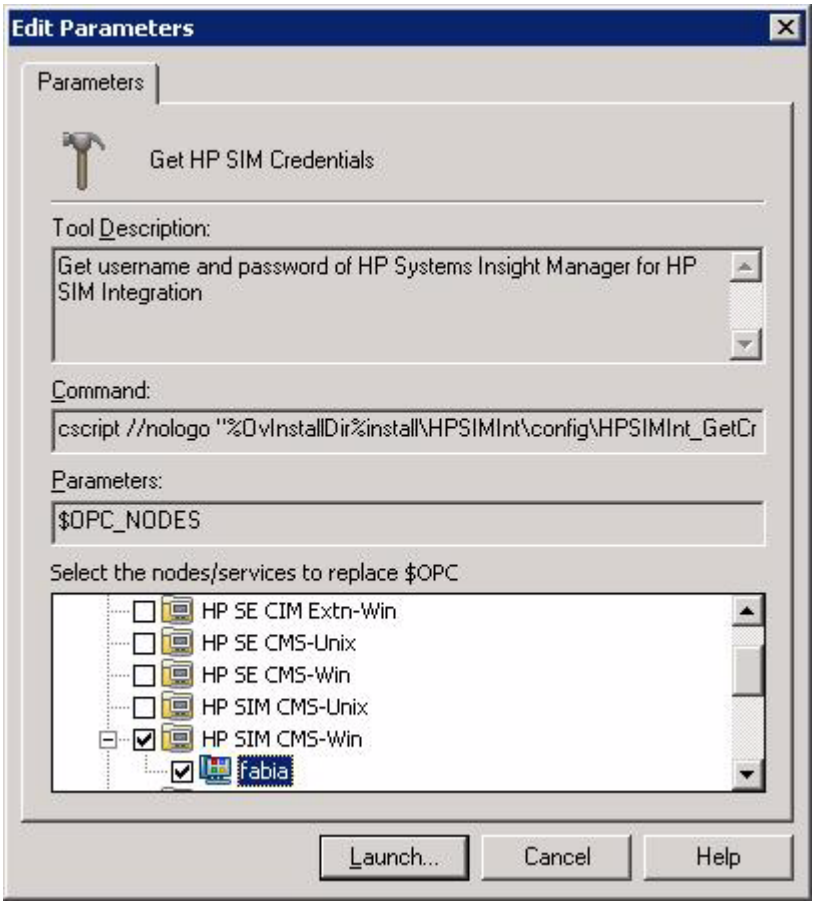
- Fwd Cleared Imp Events
- Fwd Imp Events
- Stop Fwding Imp Events
- Stop Fwding Cleared Imp Events
- Remove Query
- Create Events Task
- Remove Events Task
- Execute HP SIM Tool
- Get HP SIM Tool Status
- Add nodes to HP SIM
- Get HP SIM Nodes

For more information on functions of HP SIM Integration components, see Using HP SIM Integration tools group.

To enter the HP SIM credentials, complete the following steps:

1. Select **Tools→HP SIM Integration→HPSIMInt Utils**, and right-click **Get HP SIM Credentials**.
2. Select **All Tasks→Launch Tool...**.

The Edit Parameters window displays.



3 From the **Select the nodes/services to replace $OPC parameters with:** pane, select the node on which HP SIM CMS is running.

4 Click **Launch...**.

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, if the selected node is HP SIM CMS on UNIX:

```
Enter the HP Systems Insight Manager username:
```

5 At the prompt, enter the HP SIM user name and press **Enter**.

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

The following message displays at the prompt:

```
"Enter the HP Systems Insight Manager password:"
```

6 Enter the corresponding HP Systems Insight Manager password and press **Enter**. The following message displays at the prompt:

```
Done creating hpsimcms.conf file.

Press any key to continue . . .
```

The tool attempts to verify the user name and password. On success, you are prompted to press **Enter** to exit. If the credentials entered are not authenticated by HP SIM, the following message displays:

```
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 any key to continue . . .
```

7 Press **Enter**. The command prompt window closes.

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

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

Configuring the HPOM Agent for a non-root user on UNIX systems

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

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

1. Log in 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 `HPSIMInt.su` file:
   `./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 Tools

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

1. Log in 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`

   The following enables a non-root user to start or stop HP SIM services.

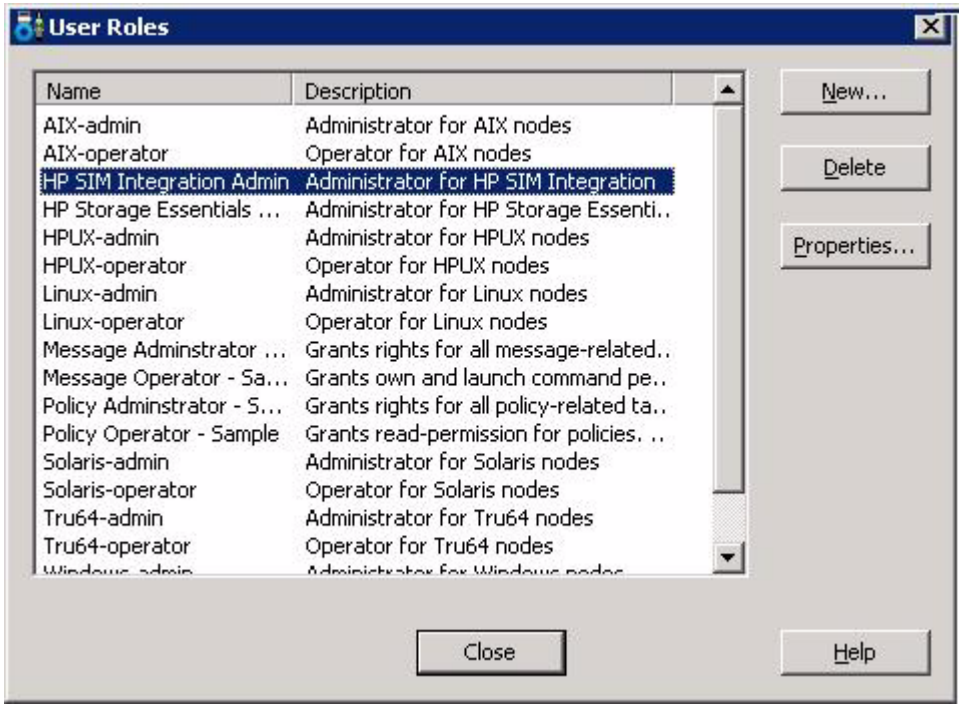
   `root:*`

   The following 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** tools.

HP SIM Integration user roles

The installation of HP SIM Integration adds an **HP SIM Integration Admin** user role as shown in the Figure 1.

Figure 1 User Roles



The HPOM administrator can assign roles or responsibilities to HPOM users from **Actions→Configure→User Roles** window. The users associated with the **HP SIM Integration Admin** user roles would have authorization for all the HP SIM Integration tools, policies and **HPSIMInt-Systems_Insight_Manager** and **HPSIMInt-IMAgents** message groups automatically assigned to the user. The user can also monitor and manage the HP SIM CMS and IM Agent nodes.

The **HP SIM Integration Admin** performs the following functions:

- Accesses all messages with Message Group attribute HPSIMInt-Systems_Insight_Manager and HPSIMInt-IMAgents from any node where HP SIM or IM Agent services are discovered.

- Executes any tool in the HP SIM Integration tools groups.
- Updates the HPOM service map, displaying the HP Systems Insight Manager and Insight Management Agents services successfully discovered.

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 collection and task for event forwarding.

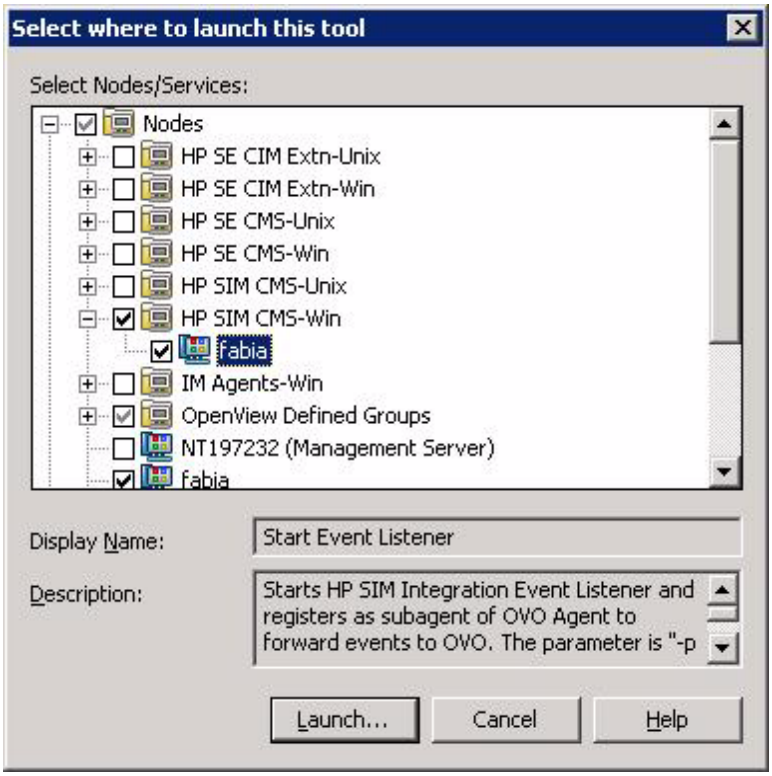
You can alternatively configure a custom collection and task for event forwarding.

Starting Event Listener on HP SIM CMS node

To start the HP SIM Integration Event Listener on each HP SIM CMS node running on Windows or UNIX, complete the following steps:

1. Launch **Start Event Listener** tool available in the **HP SIM Integration** > **HP Systems Insight Manager - Unix** or **HP Systems Insight Manager - Win** tool group, depending on the operating system of HP SIM CMS node. The

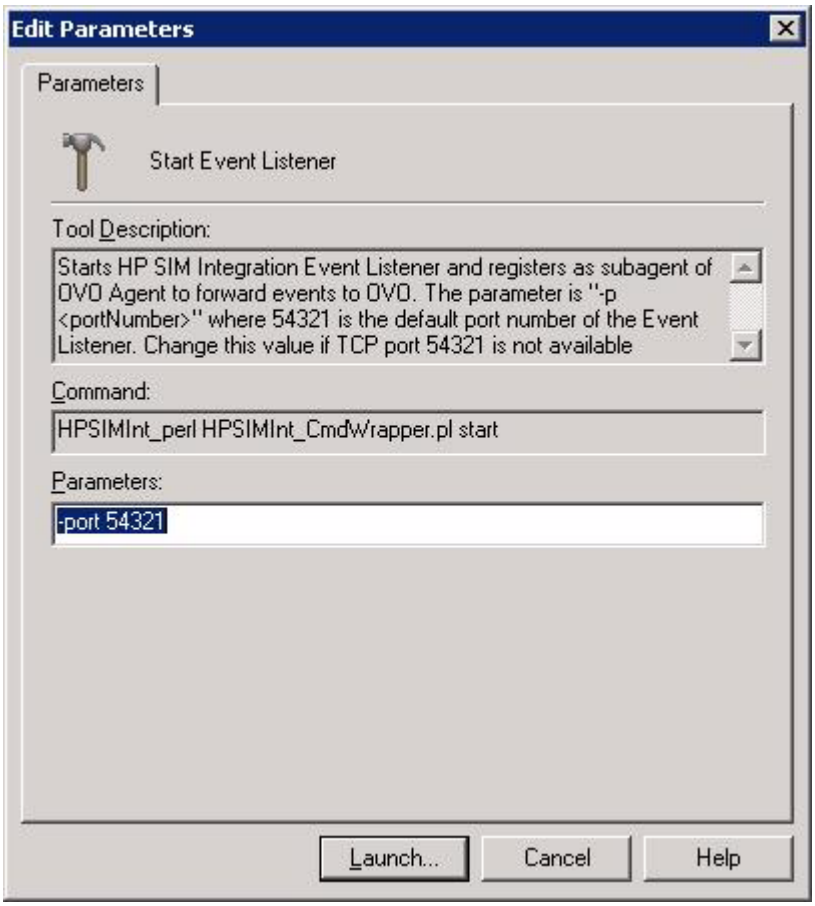
Select where to Launch this tool window displays.



2 From **Select Nodes/Services** pane, select the HP SIM CMS node in **HP SIM CMS-Win** or **HP SIM CMS-Unix** node group.

3 Click **Launch...**.

The Edit Parameters window displays.

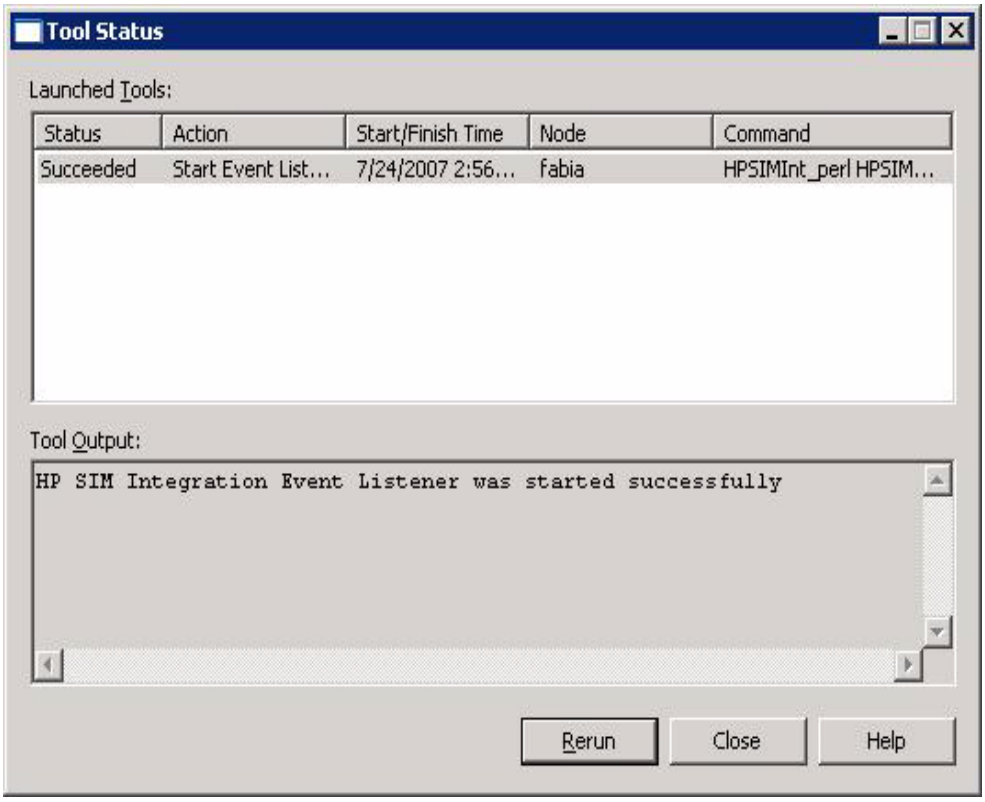


4 Enter the port number in the **Parameters** field.

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.

5 Click **Launch...**.

The Tools Status window displays.



Configuring event forwarding from HP SIM to HPOM - default

To forward events from HP SIM to HPOM, you must create an event collection and corresponding task on the HP SIM CMS. The default event forwarding task forwards events with severity levels Critical and Major.

To configure the default event forwarding, run the **Fwd Imp Events** tool from the **HP Systems Insight Manager - Win** or **HP Systems Insight Manager - Unix** tools group, depending on the operating system running on the HP SIM CMS node.

The tool **Fwd Imp Events** adds the default HP SIM Integration cleared events collection `HPSIMInt_ImportantEvents`. It also creates a task `HPSIMInt_ImportantEvents` on the HP SIM CMS node.

Ensure that the Event Listener is running already before you run the **Fwd Imp Events** tool. To check the status of the Event Listener, use the **Status Event Listener** tool.

Configuring event forwarding from HP SIM to HPOM - custom

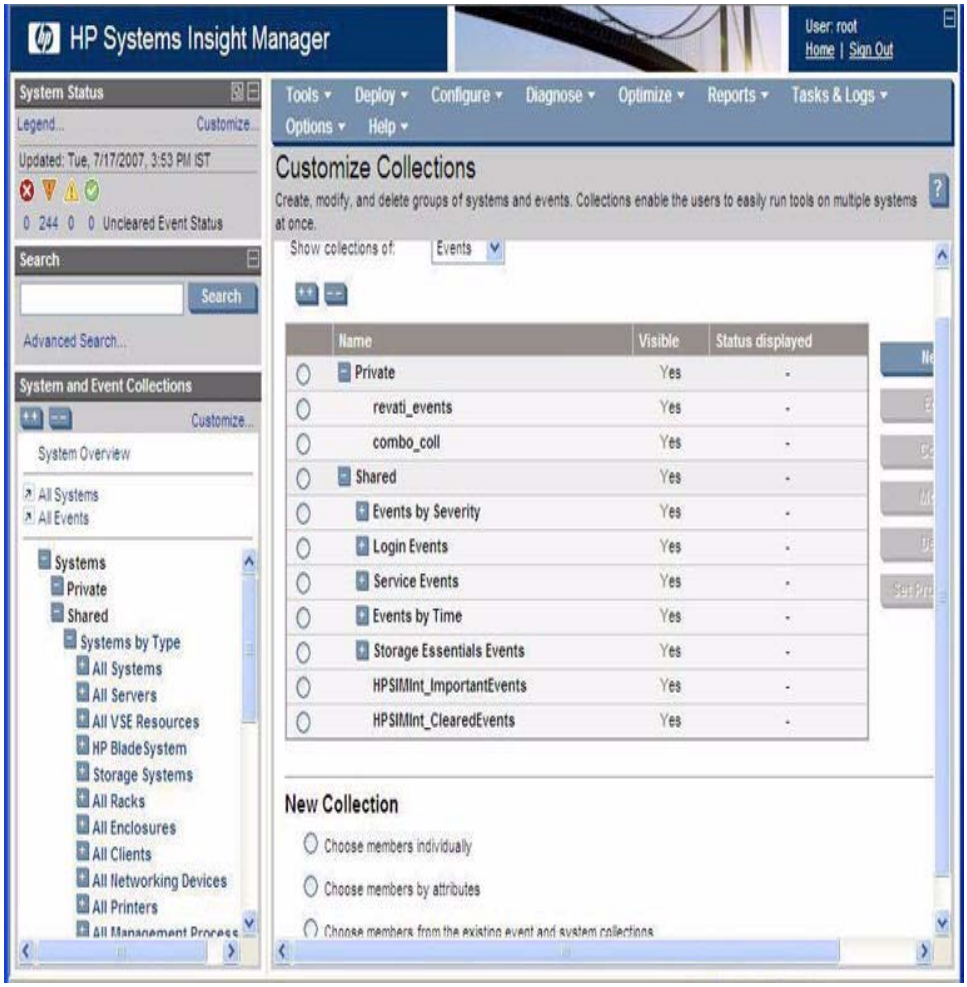
You can create a custom event collection and task in addition to, or instead of the default event forwarding collection and task.

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

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

1. Create an event collection on HP SIM to select the events to be forwarded to HPOM.
   a. Log in to the HP SIM management server console.
   b. Click **Customize** in the **Systems and Events** panel.

The Customize Collections page displays.



c Select **Events** from the **Show collections of** list.

All available event collections are displayed.

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 HPOM.

g Click **Save As** to save the collection.

The **Save Collection As** section displays.

h Enter a name for the collection in the **Name** field.

i Select **Private** or **Shared** folder to select the location for saving the collection.

j Click **OK** to save the collection.

For more information, see the *HP SIM User Guide*.

2 Create a task on HP Systems Insight Manager to forward events to HPOM by completing the following steps:

a Launch the **Create Events Task** tool from the **HP Systems Insight Manager - Win** or **HP Systems Insight Manager - Unix** tool group, depending on the operating system running on the HP SIM CMS node.

The Select where to launch this tool page displays.

b If a custom collection is created in the previous step in the **Parameters**, replace the `-q` parameter with the user-defined collection 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 myEventCollection -t myTask`

d Click **Launch...**.

An HP SIM event forwarding task is created on the HP SIM CMS node with the same name as the collection 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 tasks:

- Configuring event acknowledgement from HP SIM to HPOM - default
- Configuring event acknowledgement from HP SIM to HPOM - custom
- Configuring event clearing from HPOM to HP SIM

Configuring event acknowledgement from HP SIM to HPOM - default

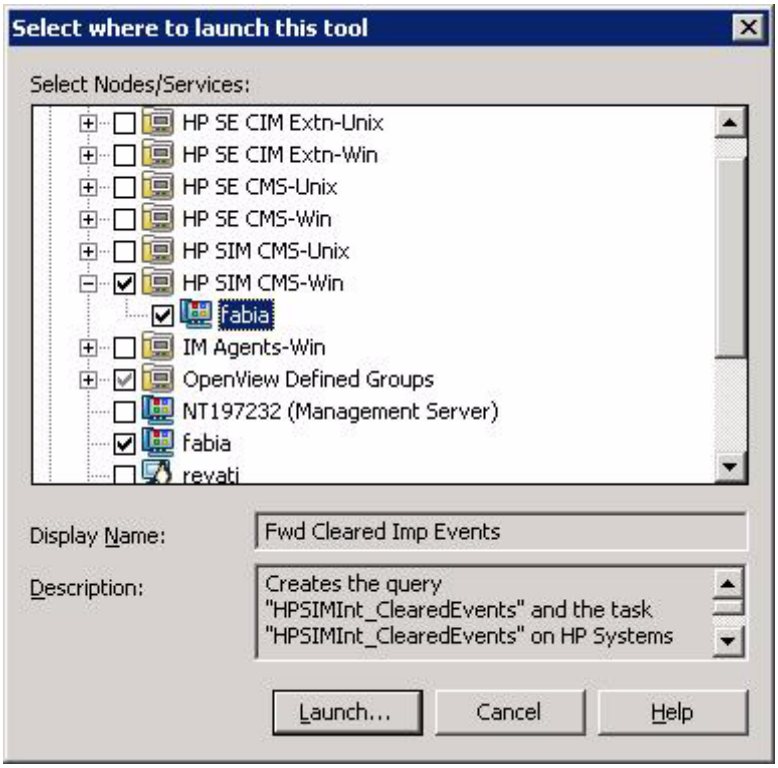
HP SIM Integration can be optionally configured to automatically acknowledge the forwarded HP Systems Insight Manager event on HPOM when the corresponding event is cleared through the HP SIM web interface.

This step creates an event collection and task to select the cleared events on HP SIM that correspond to the events displayed through **HPSIMInt_ImportantEvents** collection and forward the cleared events to the HP SIM Integration **Event Listener**.

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

1. Launch **Fwd Cleared Imp Events** from **HP Systems Insight Manager-Win** or **HP Systems Insight Manager-Unix** tool group, depending on the operating system running on the HP SIM CMS node.

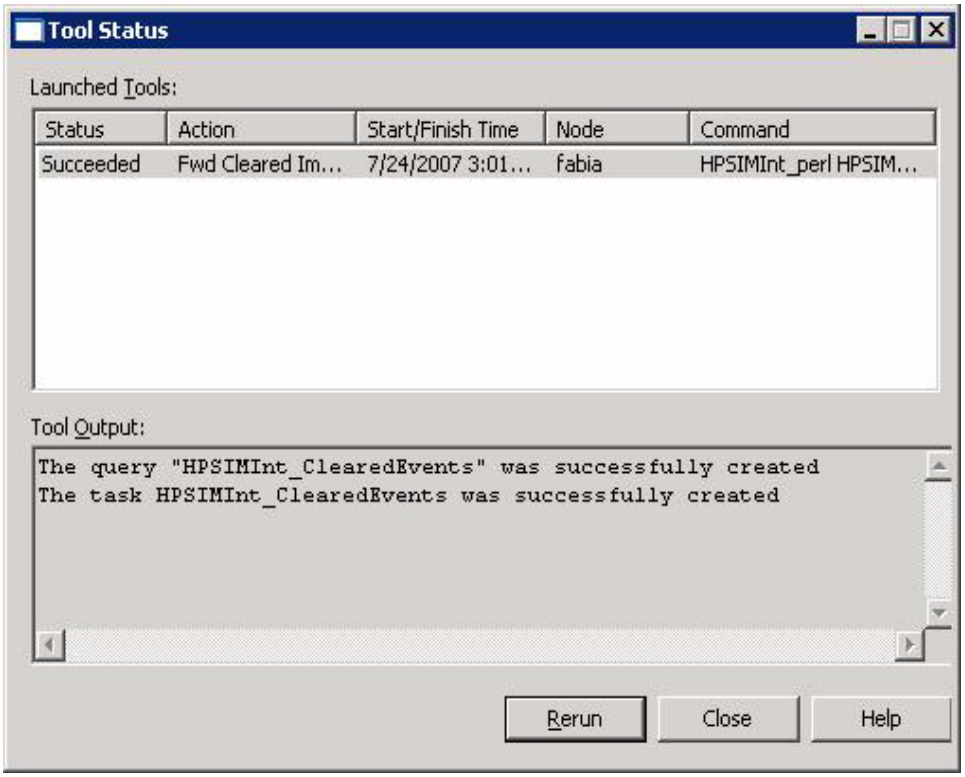
The Select where to launch this tool window displays.



2 Select the HP SIM CMS node from the HP SIM CMS node group.

3 Click **Launch...**

The Tool Status window displays.



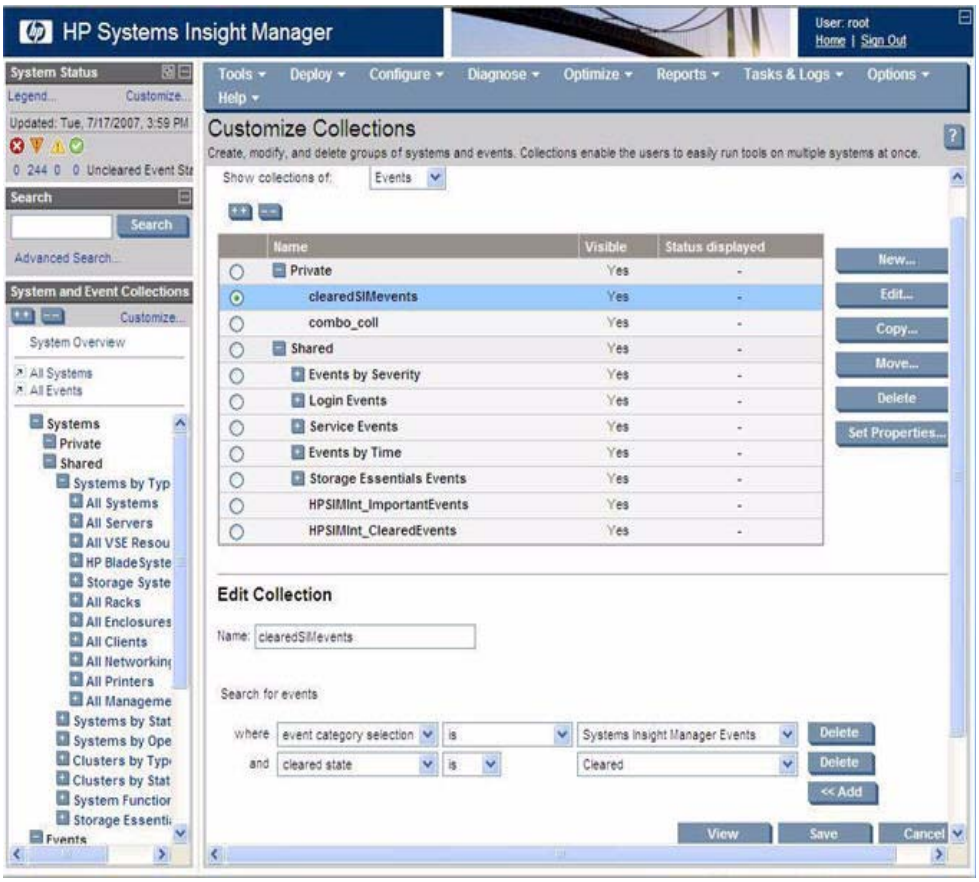
This tool adds the collection `HPSIMInt_ClearedEvents` to the event collections on the HP SIM CMS. It also creates a task, `HPSIMInt_ClearedEvents` on the HP SIM server. This task forwards events cleared on HP SIM to the Event Listener for acknowledging these events on HPOM message browser.

Configuring event acknowledgement from HP SIM to HPOM - custom

If you have configured a user-defined collection and task to forward HP SIM events to HPOM, you must create a second collection with the same selection criteria as the original user-defined collection to acknowledge these events. Additionally, select the criteria **cleared state is cleared**, as shown in Figure 2.

See the *HP SIM User Guide* for more information.

Figure 2 Edit Collection

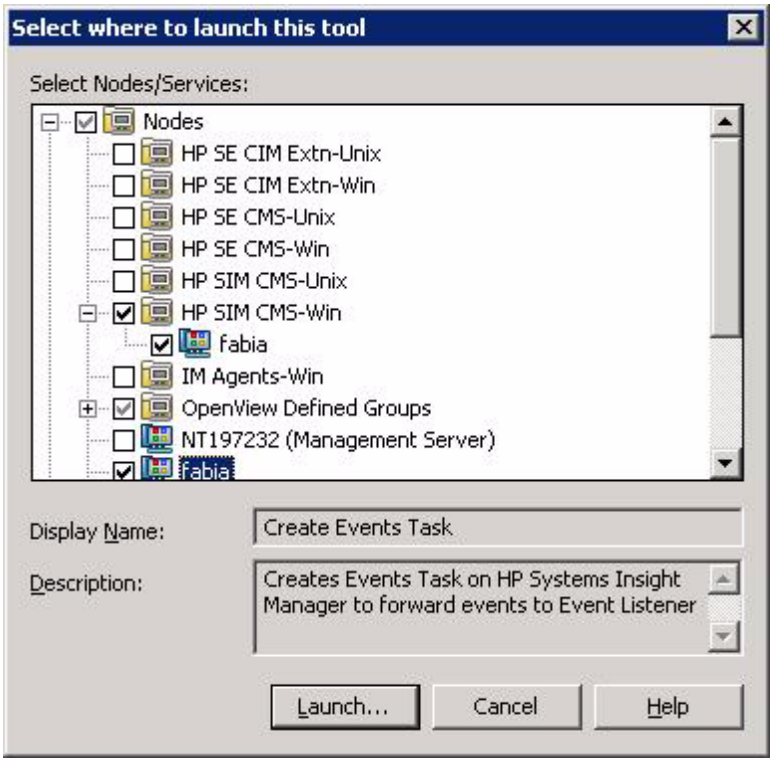


To create an events task on HP SIM to forward cleared events to HPOM, complete the following steps:

1 Launch **Create Events Task** from **HP Systems Insight Manager-Unix** or **HP Systems Insight Manager-Win,** depending on the operating system running on the HP SIM CMS node.

2 Select **All Tasks** > **Launch Tool...**.

The Select where to launch this tool window displays.



3 Select the HP SIM CMS node from the HP SIM CMS node group.

4 Click **Launch...**.

The Tools Status window displays.

5 In the **Additional Parameters** field, replace the `-q` parameter with the user-defined cleared events custom collection name you created on the HP SIM web interface.

If the `-t` parameter is not supplied, an event forwarding task is created with the same name as the event collection supplied in the `-q` parameter. The task forwards events cleared on HP SIM to the Event Listener for acknowledging these events on the HPOM message browser.

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

The task name in the **Create Events Task** tool must start with an alphabet character. The other characters supported for the task name are space, hyphen, and underscore.

Example: `-q myClearedEventCollection -t myClearedEventTask`

Configuring event clearing from HPOM to HP SIM

HP SIM Integration can be configured to automatically clear an event on the HP SIM CMS if the corresponding event is acknowledged in the HPOM message browser. For this functionality, the policies in the policy group **HP SIM Integration→HP SIM Event Acknowledging** are deployed to the HPOM management server while installing the HP SIM Integration. The policies are:

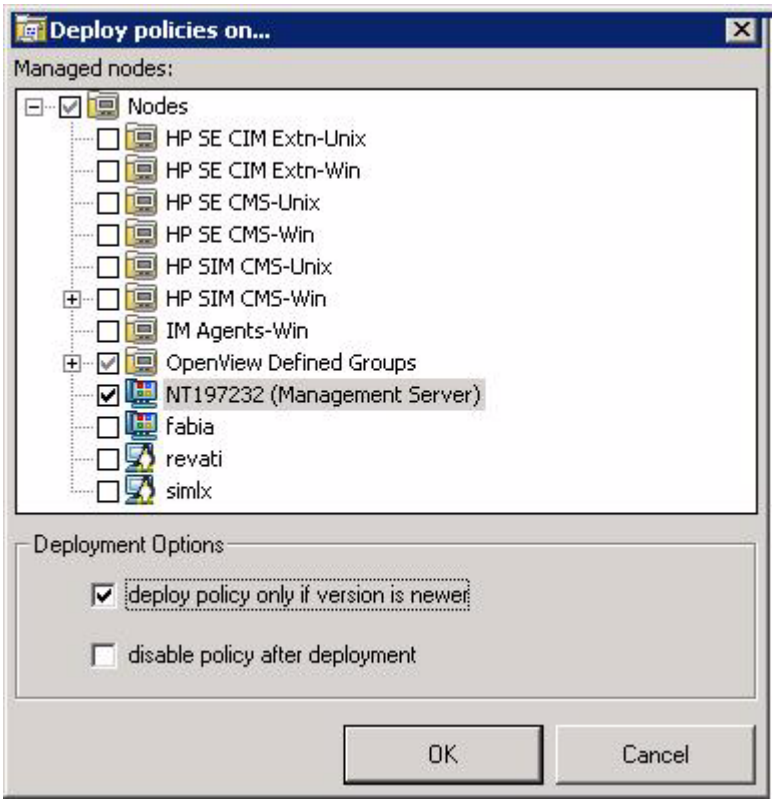
- HPSIMInt-HPSIM_ClearEvents
- HPSIMInt-HPSIM_Auto_Acknowledge

To verify whether the polices are deployed, on the HPOM Console, complete the following tasks:

1. Right-click the HPOM node.
2. Select **View→Policy Inventory**. Look for the presence of the above listed policies.

   If the policies are not deployed to HPOM, complete the following steps:
3. Select **Policy Groups→HP SIM Integration** and right-click **HP SIM Event Acknowledging**.
4. Select **All Tasks→Deploy on...**

The Deploy policies on... window displays.



5 Select the HPOM server node.

6 Clear **deploy policy only if version is newer** option.

7 Click **OK**.

Re-configuring the HP SIM Integration to forward HP SIM events

You can re-configure HP SIM event forwarding to change the Event Listener port. If you have configured event forwarding previously, check for the default HP SIM Integration tasks and collections in HP SIM. If they exist, they must be deleted before proceeding with re-configuration.

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

1. Stop the HP SIM Integration Event Listener using the **Stop Event Listener** tool from the **HP Systems Insight Manager - Win** or **HP Systems Insight Manager - Unix** tool group, depending on the operating system running on the HP SIM CMS node.
2. Delete all the tasks for forwarding events including those for cleared events. For more information, see Deleting the HP SIM Integration event forwarding tasks and collections.

   Alternatively you can delete tasks and collections using HP SIM CLI. For more information on HP SIM CLI commands, see the *HP SIM User Guide*.

3. To start the HP SIM Integration Event Listener on a different port and add the event forwarding collection and task, see Configuring the HP SIM Integration to forward HP SIM events.

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

Reconfiguring HP SIM CMS credentials for HP SIM Integration

To reconfigure the HP SIM CMS credentials for the HP SIM Integration, complete the following steps:

When it is necessary to reconfigure the HP SIM credentials on a node, all event forwarding tasks must be subsequently removed and re-created on the node for the HP SIM tasks to contain the correct credentials. For more information, see Re-configuring the HP SIM Integration to forward HP SIM events.

1. Stop **HP SIM Integration Event Listener**.

   For more information, see Stopping the HP SIM Integration event listener.

2. Enter the new HP SIM CMS Credentials.

   For more information, see Obtaining HP Systems Insight Manager credentials.

3. Start **HP SIM Integration Event Listener** and add the event forwarding collection and task, see Configuring the HP SIM Integration to forward HP SIM events

The credentials are used by HP SIM Integration under the following circumstances:

1. Event Listener clears the event on HP SIM when acknowledged on HPOM.
2. The following tools require HP SIM credentials:
   - Fwd Cleared Imp Events
   - Fwd Imp Events
   - Stop Fwding Imp Events
   - Stop Fwding Cleared Imp Events
   - Remove Query
   - Create Events Task
   - Remove Events Task

- Execute HP SIM Tool
- Get HP SIM Tool Status
- Add nodes to HP SIM
- Get HP SIM Nodes

5 Using HP SIM Integration

This chapter addresses the following topics:

Overview

HP SIM Integration provides policies that enable you to configure event forwarding from HP SIM to HPOM. HP SIM events are received by the HP SIM Integration Event Listener process on the HP SIM CMS node, and forwarded to HP OM through the HPOM agent. The events that are received by the HP SIM Integration event listener are determined by the event collections and tasks that are configured, and are prioritized and assigned an HPOM severity level.

By default, the messages generated by the HP SIM Integration policies belong to the **HPSIMInt-Systems_Insight_Manager** message group. Additionally, the monitor policies monitor the status of the HP SIM service running on the HP SIM CMS server and the IM Agent services running on the managed nodes and generate messages to indicate any change in status. Message policies handle messages forwarded from HP SIM. Trap policies define the interpretation of SNMP traps from the IM Agent nodes.

The HPSIMInt Service Discovery policies discover the following services:

- HP Systems Insight Manager
- Insight Management Agents

  The **HP SIM Event Acknowledging** policy group contains policies that, when deployed on the HPOM, handles event clearing or acknowledging between HP SIM and HPOM.

Using HP SIM Integration policies

All policies provided with HP SIM Integration are grouped under the **HP SIM Integration** policy group. HP SIM Integration provides a set of pre-configured policies for HP SIM and IM Agent nodes. These policies enable you to monitor the status of the services running on these nodes.

When HP SIM Integration is installed, following are the high-level HP SIM Integration policy groups:

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

For more information on the pre-configured policies provided by HP SIM Integration, see HP SIM Integration Policy Groups on page 179.

Releated Topics

- HP SIM Integration Policy Groups
- SNMP Trap Interceptor Policies

Using HP SIM Integration message groups

HPOM 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 HP SIM Integration are grouped into any of the message groups listed in Table 9.

Table 9 lists the HP SIM Integration message groups.

Table 9 HP SIM Integration message groups

Message Group	Description
HPSIMInt-IMAgents	HP SIM Integration messages for IM Agents
HPSIMInt-Systems_Insight_ Manager	HP SIM Integration messages for HP SIM

Using HP SIM Integration messages

All events generated by HP SIM Integration are grouped into the message group, **HPSIMInt-IMAgents** or **HPSIMInt-Systems_Insight_Manager**. The messages generated by HP SIM Integration policies appear in the message browser window and contain information that is vital for troubleshooting any problems being reported.

Table 10 lists the mapping that is performed by HP SIM Integration of HP SIM event severities to HPOM event severities.

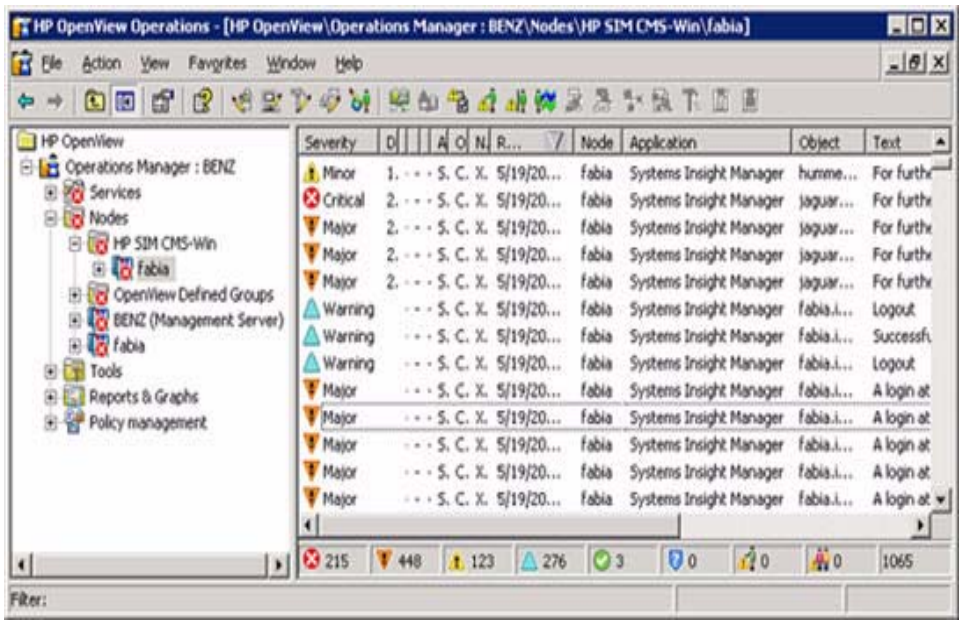
Table 10 Mapping of HP Systems Insight Manager and HPOM Event Severity Levels

HP SIM Severity Level	HPOM 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.
Warning	Warning	A problem has been detected that must be corrected. This condition may 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	This event communicates information regarding normal operation.
Unknown	Normal	

Events with a severity of Normal from HP SIM are redirected to the HPOM acknowledged message browser in the **HPSIMInt-HPSIM_Events** policy.

Figure 3 shows the message browser with the HP SIM Integration messages received from the HP SIM CMS.

Figure 3 HP SIM Integration messages on the message browser



The message content indicates the scope of the problem. In the context of 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 CMS, then it is the HP SIM server node name. If the message is generated by an IM Agent trap, then it is the IM Agent node name.
- **Application**–Systems Insight Manager.
- **Message Group**–Values for messages generated by 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.
- **Severity** - Specifies the severity of the message. The severities supported are supported: normal, warning, minor, major and critical. By default severity `normal` messages are re-directed to acknowledged message browser.

- **$OPTION (variable)** - The event listener uses the **`-option`** switch in the **`opcmsg`** call to pass additional HP SIM event fields to HPOM. **`$OPTION(EventType)`** contains the HP SIM event type string. **`$OPTION(probableCause)`** contains the HP SIM event `probable cause` string. These fields are used in the **`HPSIMInt-HPSIM_Events`** policies.

Launching the HP SIM web portal from the message browser

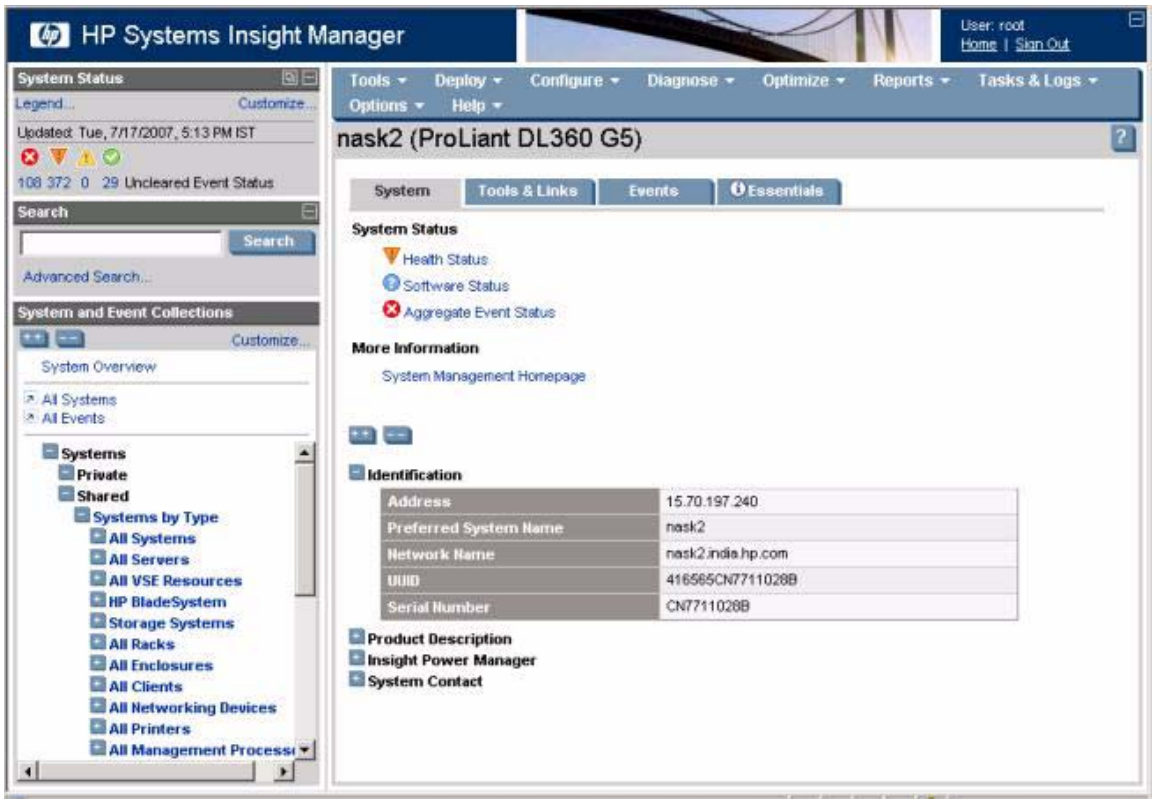
Each message forwarded to the HPOM message browser from HP SIM contains an Operator Action to launch into the HPSIM web interface. It launches in the context of the device the HP SIM event references. This allows the HPOM operator to further determine the cause of the problem and possibly perform corrective tasks.

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

1. Select an HP SIM message from the **HPSIMInt-Systems_Insight_Manager** message group.
2. Right-click the **event**, and select **Commands→Start→Operator Initiated**.

   The HP Systems Insight Manager log in page displays.
3. Sign in to HP SIM with proper credential.

   The HP SIM System page displays the device reporting an event.


HP Systems Insight Manager
User: root
Home | Sign Out
System Status
Legend...
Customize...
Updated: Tue, 7/17/2007, 5:13 PM IST
108 372 0 29 Uncleared Event Status
Search
Search
Advanced Search...
System and Event Collections
Customize...
System Overview
All Systems
All Events
Systems
Private
Shared
Systems by Type
All Systems
All Servers
All VSE Resources
HP BladeSystem
Storage Systems
All Racks
All Enclosures
All Clients
All Networking Devices
All Printers
Tools
Deploy
Configure
Diagnose
Optimize
Reports
Tasks & Logs
Options
Help
nask2 (ProLiant DL360 G5)
System
Tools & Links
Events
Essentials
System Status
Health Status
Software Status
Aggregate Event Status
More Information
System Management Homepage
Identification
Address 15.70.197.240
Preferred System Name nask2
Network Name nask2.india.hp.com
UUID 416565CN7711028B
Serial Number CN7711028B
Product Description
Insight Power Manager
System Contact

Using HP SIM Integration service map

HP SIM Integration provides the administrator with the additional perspective of service maps. HP SIM Integration provides the following service maps:

- HP Systems Insight Manager
- Insight Management Agents

HP Systems Insight Manager service map

HP SIM Integration includes tools to discover the HP SIM service on a node and uses the discovered data to generate service maps that can be viewed by the administrator from the HPOM Console. Assigning Insight Management Agent node to node group on page 37 shows the HP Systems Insight Manager services view discovered by HP SIM Integration tools and policies.

The services discovered by HP SIM Integration facilitate root-cause analysis of HP SIM service problems. The HP SIM Integration monitor policy enables the HP SIM service maps to allow monitoring of the availability of the HP SIM management server service. The HP SIM Integration service discovery policies discover the following HPSIM service:

- HP Systems Insight Manager

Insight Management Agents service map

HP SIM Integration includes tools to discover the Insight Management Agent services on a node. It also includes policies for deployment on the HPOM management server that automatically discover the IM Agent services on nodes in the IM Agent Node Groups on a scheduled basis. Assigning Insight Management Agent node to node group on page 37 shows the Insight Management Agent service on the **Service Map** GUI view discovered by HP SIM Integration. The HP SIM Integration service discovery policies discover the following IM Agents services:

- Foundation agents
- NIC agents
- Server agents

- Storage agents
- System Management Home page Agent
- Version control agent
- Insight Lights-Out (iLO)

iLO is an optional feature. It is discovered only if it is present on the system. The server node must have an optional iLo board in order for this service to be present.

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

Viewing services

The **Service Maps** are created a few minutes after Service Discovery is configured. To view the discovered services, click **Services** on the HPOM Management Console and select the appropriate service.

By default, the services are discovered by HPOM once every day at `02:00 am`. You can change the service discovery period by modifying the service discovery policy. The changed discovery period comes into effect only after the policies are redeployed on the HP SIM node.

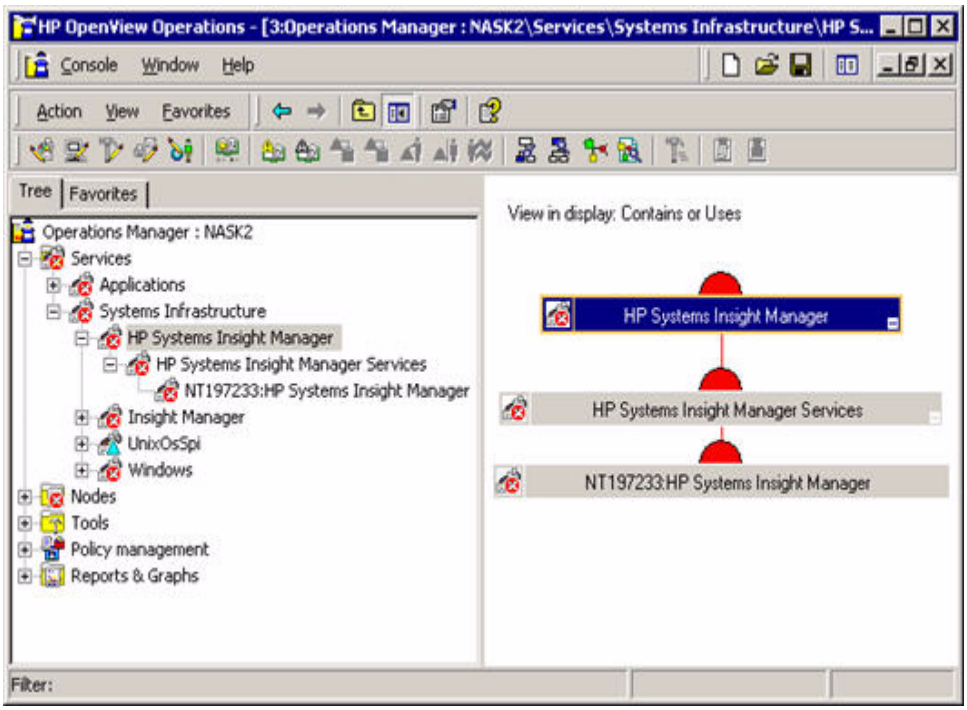
Viewing HP SIM CMS services on the service map

When the service discovery policy is executed, you can view the discovered services graphically represented within the HPOM service map.

To view the service map of HP Systems Insight Manager services:

- Select **Services→System Infrastructure** on the left pane of the HPOM Console.

The HP Systems Insight Manager service map displays in the right pane.



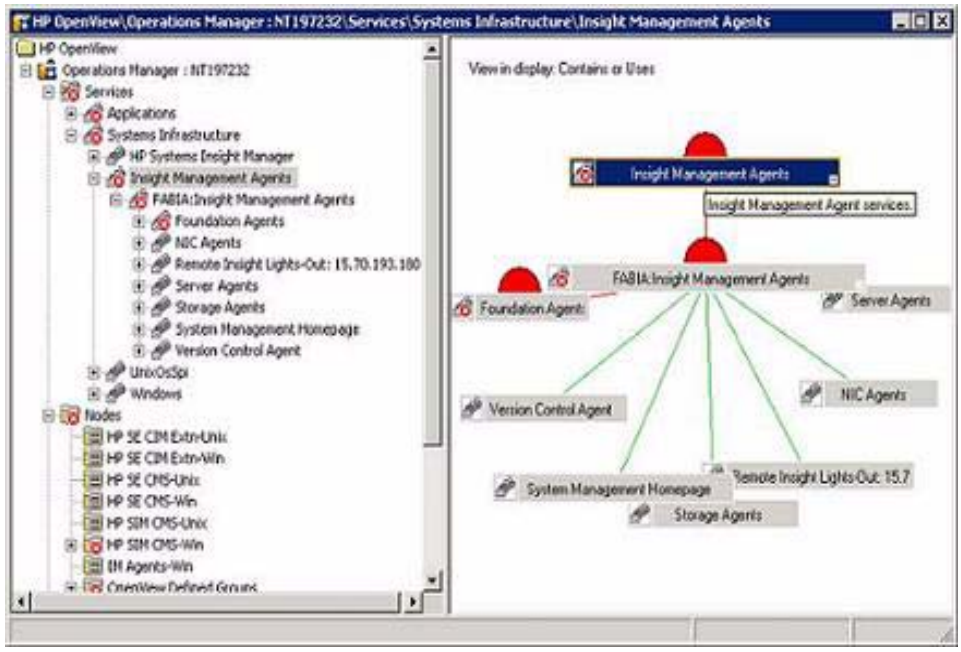
Viewing IM Agent services on the service map

When the service discovery policy is executed, you can view the discovered services graphically represented within the HPOM service map.

To view the service map of IM Agent services, complete the following steps:

- Select **Services→System Infrastructure** on the left pane of the HPOM Console.

The Insight Manager service map displays on the right pane.



Using HP SIM Integration tools group

HP SIM Integration adds the top-level tools group **HP SIM Integration** on the HPOM management server. The **HP SIM Integration** tools group consists of the following tools groups:

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

The **HP Systems Insight Manager-Unix** or **HP Systems Insight Manager-Win** (depending on your node's operating system) tools group include tools that are executed on HP SIM CMS nodes (UNIX or Windows).

Using HP Systems Insight Manager-Unix tools group

This group contains tools for monitoring and configuring the HP SIM CMS on a UNIX node. Figure 4 shows the **HP Systems Insight Manager-Unix** tools group.

Figure 4 HP Systems Insight Manager-Unix tools group

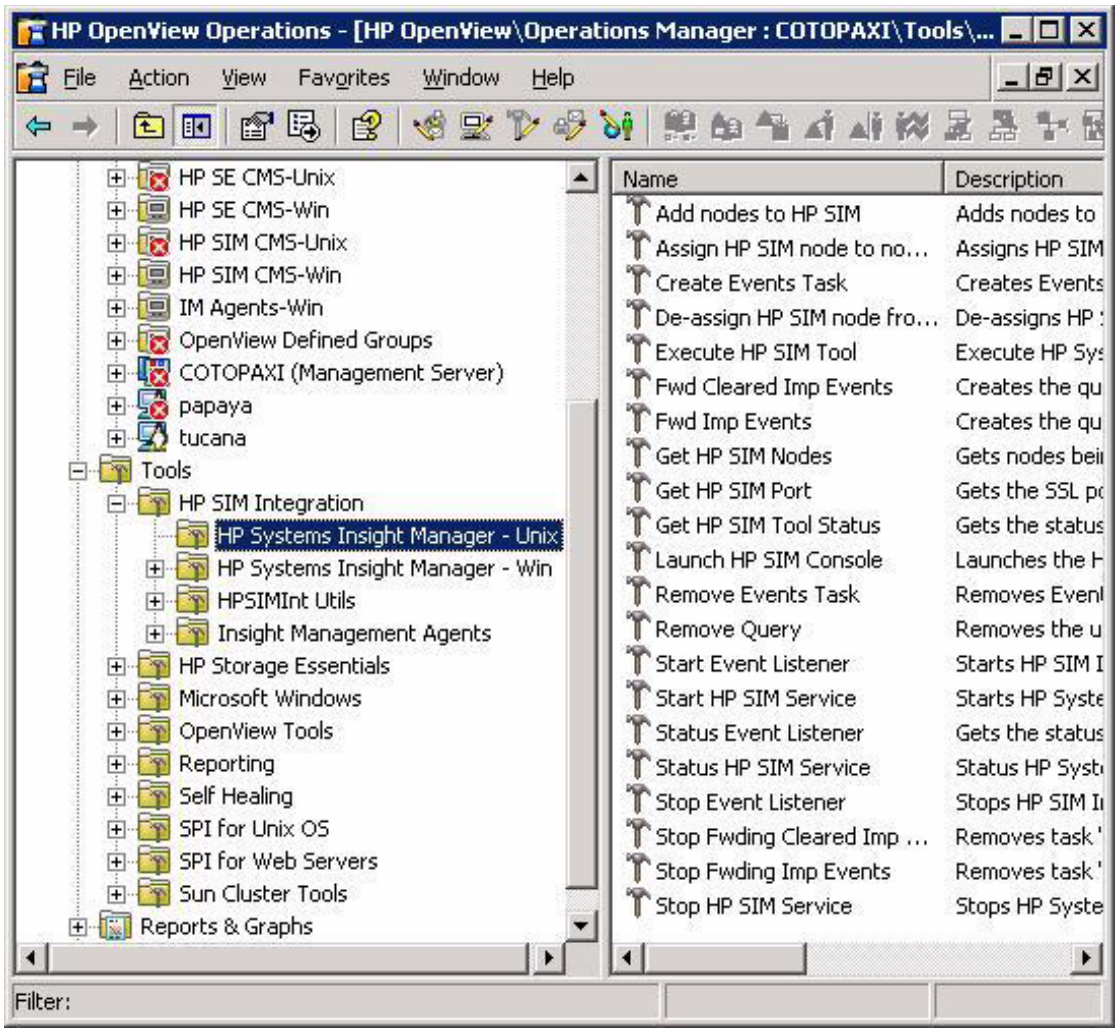


Table 11 lists the tools in the HP Systems Insight Manager-Unix tools group.

Table 11 HP Systems Insight Manager-Unix Tools

Tool Name	Description	Parameters
Add nodes to HP SIM	Adds nodes to HP Systems Insight Manager server	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.
Assign HP SIM node to node group	Assigns HP SIM CMS node to the **HP SIM CMS-Unix** node group.	
De-assign HP SIM node from node group	De-assigns HP SIM CMS node from the **HP SIM CMS-Unix** node group.	

Table 11 HP Systems Insight Manager-Unix Tools

Tool Name	Description	Parameters
Create Events Task	Creates Events Task on HP Systems Insight Manager to forward events to Event Listener	To forward events to Event Listener: **`–q <queryname>`**, replace <queryname> with the name of the HP SIM collection that the task must use to select the HP SIM events. The collection name must be the name of an existing collection that was manually created, as described in the Configuring event forwarding from HP SIM to HPOM - custom on page 51. The collection name itself is used as the task name if only this parameter is specified. To specify other task names, use the optional parameter provided after this parameter. **`-t <taskname>`** This is an optional parameter. Replace **`<taskname>`** with the task name you want to use.

Table 11 HP Systems Insight Manager-Unix Tools

Tool Name	Description	Parameters
Execute HP SIM Tool	Execute HP Systems Insight Manager tool on its 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.	**First parameter**: The first parameter can be **WAIT** or **NOWAIT**. By default, the parameter is **WAIT** in the **Execute HP SIM Tool** tool. **WAIT**: When you specify the WAIT parameter, the **Execute HP SIM Tool** tool 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 **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** tool, to retrieve the status of the HP SIM tool execution.

Table 11 HP Systems Insight Manager-Unix Tools

Tool Name	Description	Parameters
		Second parameter: List of HP SIM managed host names where the tool is executed. The names must be separated by a blank space or a semicolon (`;`), and the list must be enclosed within double quotation marks (`" "`). **Third parameter:** The HP SIM tool to be executed. **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 (`" "`).
Fwd Cleared Imp Events	Creates the collection `HPSIMInt_ClearedEvents` and the task `HPSIMInt_ClearedEvents` on HP Systems Insight Manager for forwarding cleared important events from HPSIM to HPOM	
Fwd Imp Events	Creates the collection `HPSIMInt_ImportantEvents` and the task `HPSIMInt_ImportantEvents` on HP Systems Insight Manager to forward important events from HP SIM to HPOM.	

Table 11 HP Systems Insight Manager-Unix Tools

Tool Name	Description	Parameters
Get HP SIM Nodes	Gets nodes being managed by the HP Systems Insight Manager server	
Get HP SIM Port	Gets the SSL port to be used by other HPSIM tools to communicate to the HPSIM server.	
Get HP SIM Tool Status	Gets the status of tool execution on HP Systems Insight Manager managed nodes.	The JOB ID of the task whose status is being queried. The JOB ID is returned by the **Execute HP SIM Tool**.

Table 11 HP Systems Insight Manager-Unix Tools

Tool Name	Description	Parameters
Launch HP SIM Console	Launches the HP Systems Insight Manager Console. If the **`system name`** parameter is supplied, the **HP SIM** web interface is launched on the specified node's **System Page**. If both **`system name`** and **`tool name`** are supplied, the HP SIM web interface is launched on the specified tool's **Verify** page. For more information on HP SIM, see the *HP SIM User Guide*.	Select the HP SIM CMS node whose web interface you want to launch and run this tool. You can optionally specify additional parameters to open the **System page** or **Tool** page for the required HP SIM managed node(s). The **Launch HP SIM Console** tool must be run on one node at a time. **Additional Parameters (optional):** **First parameter (optional):** System name of HP SIM managed node(s) whose system page you want to launch. You can only launch one system page. **Second Parameter:** (optional) **`<tool name>`** Tool name to launch the 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`**
Remove Events Task	Removes Events Task from HP Systems Insight Manager 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.

Table 11 HP Systems Insight Manager-Unix Tools

Tool Name	Description	Parameters
Remove Query	Removes the user defined event collection from HP Systems Insight Manager.	Replace **Additional Parameter** **`<UserDefinedQuery>`** with the name of the event collection that you want to delete, that displays on the **Systems and Events** pane of HP SIM. Before running this tool, ensure that any HP SIM task which references this event collection is deleted. See Remove Events Task tool.
Start Event Listener	Starts HP SIM Integration Event Listener and registers as subagent of HPOM Agent to forward events to HPOM.	The parameter is **`-p <portNumber>`**, where `54321` is the default port number of the Event Listener. Change this value if TCP port `54321` is not available.
Start HP SIM Service	Starts HP Systems Insight Manager Service.	
Status Event Listener	Gets the status of HP SIM Integration Event Listener that forwards events to HPOM.	
Status HP SIM Service	Status HP Systems Insight Manager Service.	

Table 11 HP Systems Insight Manager-Unix Tools

Tool Name	Description	Parameters
Stop Event Listener	Stops HP SIM Integration Event Listener and unregisters as subagent of HPOM Agent, to stop forwarding events to HPOM.	If the event listener is stopped, the HPSIM event forwarding task should be removed.
Stop Fwding Imp Events	Removes task `HPSIMInt_ClearedEvents` and collection `HPSIMInt_ClearedEvents` on HP Systems Insight Manager, to stop forwarding the cleared important events from HP SIM to HPOM.	
Stop Fwding Cleared Imp Events	Stops forwarding the HP SIM cleared important events to HPOM, by removing the task `HPSIMInt_ClearedEvents` and the collection `HPSIMInt_ClearedEvents` on HP SIM.	
Stop HP SIM Service	Stops HP SIM Service.	

Using HP Systems Insight Manager-Win tools group

This group contains tools for monitoring and configuring the HP SIM CMS on a Windows node. Figure 5 shows the HP Systems Insight Manager-Unix tools group.

Figure 5 HP Systems Insight Manager-Win tools group

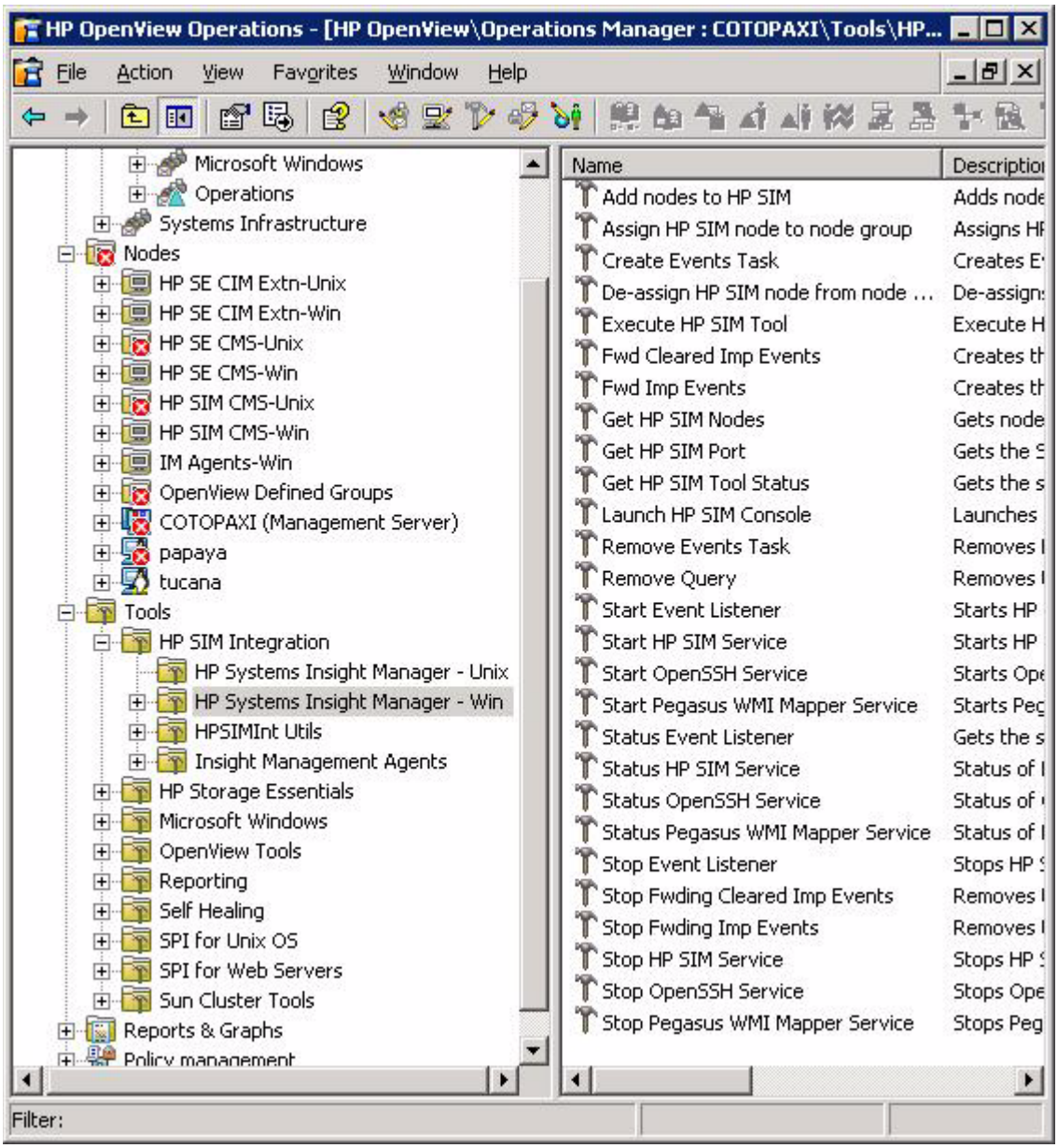


Table 12 lists tools present in the HP Systems Insight Manager-Win tools group.

Table 12 HP Systems Insight Manager-Win Tools

Tool Name	Description
Add nodes to HP SIM	Adds nodes to the HP Systems Insight Manager server
Assign HP SIM node to node group	Assigns the HP SIM CMS node to **HP SIM CMS-Win** node group.
Create Events Task	Creates Events Task on HP Systems Insight Manager to forward events to Event Listener.
De-assign HP SIM node from node group	De-assigns the HP SIM CMS node from **HP SIM CMS-Win** node group.
Execute HP SIM Tool	Executes HP Systems Insight Manager tool on its managed nodes.
Fwd Cleared Imp Events	Creates the collection `HPSIMInt_ClearedEvents` and the task `HPSIMInt_ClearedEvents` on HP Systems Insight Manager for forwarding cleared important events from HPSIM to HPOM
Fwd Imp Events	Creates the collection `HPSIMInt_ImportantEvents` and the task `HPSIMInt_ImportantEvents` on HP Systems Insight Manager to forward important events from HP SIM to HPOM.
Get HP SIM Nodes	Gets nodes that are managed by the HP Systems Insight Manager server.
Get HP SIM Port	Gets the SSL port to be used by other HPSIM tools to communicate to the HPSIM server.
Get HP SIM Tool Status	Gets the status of tool execution on the HP Systems Insight Manager managed nodes.

Table 12 HP Systems Insight Manager-Win Tools

Tool Name	Description
Launch HP SIM Console	Launches the HP Systems Insight Manager Console.
Remove Events Task	Removes Events Task from HP Systems Insight Manager that forwards events to Event Listener.
Remove Query	Removes the user-defined event collection from HP Systems Insight Manager.
Start Event Listener	Starts HP SIM Integration Event Listener and registers as subagent of HPOM Agent, to forward events to HPOM. The parameter is **`-p <portNumber>`**, where **`54321`** is the default port number of the Event Listener. Change this value if TCP port **`54321`** is not available.
Start HP SIM Service	Starts the HP SIM service.
Start OpenSSH Service	Starts the OpenSSH service.
Start Pegasus WMI Mapper Service	Starts the Pegasus WMI mapper service.
Status Event Listener	Gets the status of HP SIM Integration Event Listener that forwards events to HPOM.
Status HP SIM Service	Gets the status of the HP SIM service.
Status OpenSSH Service	Gets the status of OpenSSH service.
Status Pegasus WMI Mapper Service	Get the status of Pegasus WMI Mapper service.
Stop Event Listener	Stops HP SIM Integration Event Listener and unregisters as subagent of HPOM Agent, to stop forwarding events to HPOM.

Table 12 HP Systems Insight Manager-Win Tools

Tool Name	Description
Stop Fwding Cleared Imp Events	Removes the task `HPSIMInt_ClearedEvents` and the collection `HPSIMInt_ClearedEvents` on HP Systems Insight Manager, to stop forwarding the cleared important events from HP SIM to HPOM.
Stop Fwding Imp Events	Removes the task `HPSIMInt_ImportantEvents` and the collection `HPSIMInt_ImportantEvents` on HP Systems Insight Manager, to stop forwarding the important events from HP SIM to HPOM.
Stop HP SIM Service	Stops the HP Systems Insight Manager service.
Stop OpenSSH Service	Stops the OpenSSH service
Stop Pegasus WMI Mapper Service	Stops the Pegasus WMI Mapper service

Using the HPSIMInt Utils tools group

The HPSIMInt Utils tools group includes tools that enable you to perform administrative tasks for HP SIM Integration. Figure 6 shows the tools in the HPSIMInt Utils tools group.

Figure 6 HPSIMInt Utils tools group

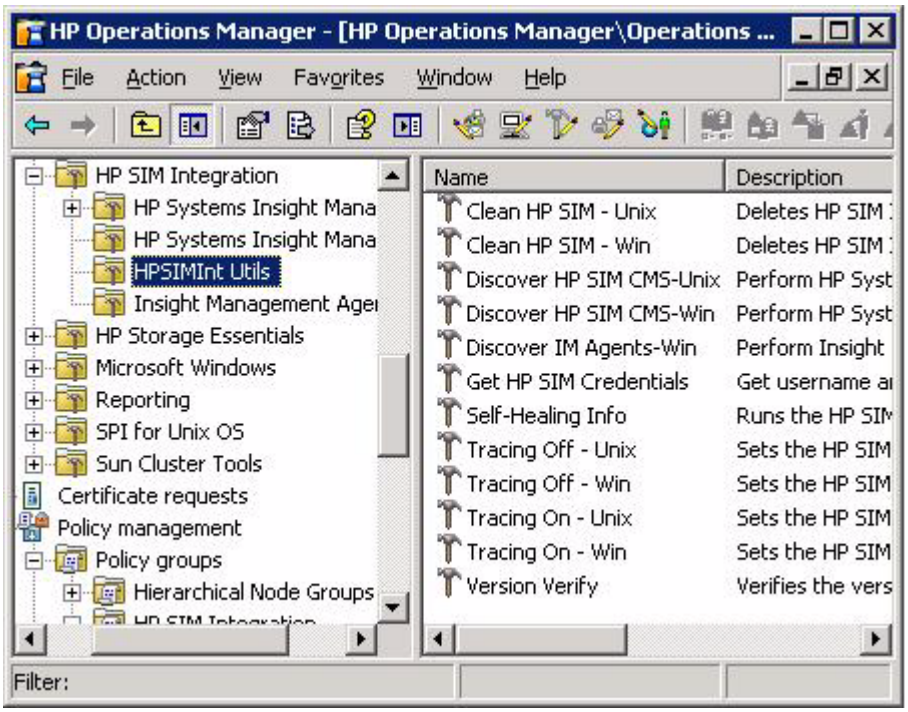


Table 13 lists tools present in the HPSIMInt Utils tools group.

Table 13 HPSIMInt Utils Tools

Tools Name	Description
Clean HP SIM - Unix	Deletes the HP SIM Integration files on the HP SIM UNIX managed node. This tool also disables the HP SIM Integration policies on the DCE managed nodes and deletes policies on HTTPS managed nodes. When the agent is running as a non-root user, the file `/etc/HPSIMInt.su` will not be removed.
Clean HP SIM - Win	Deletes the HP SIM Integration files on the HP SIM Windows managed node. This tool also disables the HP SIM Integration policies on the DCE managed nodes and deletes policies on HTTPS managed nodes. After the successful execution of the tool, the `HPSIMInt_perl.cmd` file remains in the managed node.
Discover HP SIM CMS-Win	Performs HP Systems Insight Manager CMS Service Discovery on Windows managed nodes.
Discover HP SIM CMS-Unix	Performs HP Systems Insight Manager CMS Service Discovery on UNIX managed nodes.
Discover IM Agents-Win	Performs Insight Management Agents Service Discovery on Windows managed nodes.
Get HP SIM Credentials	Gets user name and password of HP Systems Insight Manager for HP SIM Integration.
Self-Healing Info	Runs the HP SIM Integration Data collector on managed nodes and collects the required HP SIM Integration data. If the HPOM server is treated as a managed node, both HP SIM Integration managed node and server data are collected.

Table 13 HPSIMInt Utils Tools

Tools Name	Description
Tracing On - Unix	Sets the HP SIM Integration tracing to ON state on the UNIX managed nodes. This tool enables tracing only for the service discovery module of HP SIM Integration. It does not support other modules.
Tracing Off - Unix	Sets the HP SIM Integration tracing to OFF state on UNIX managed nodes.
Tracing On - Win	Sets the HP SIM Integration tracing to ON state on Windows managed nodes This tool enables tracing only for the service discovery module of HP SIM Integration. It does not support other modules.
Tracing Off - Win	Sets the HP SIM Integration tracing to OFF state on Windows managed nodes.
Version Verify	Verifies the version of the HP SIM Integration files. It lists all the files and specifies whether their version number is same as that of HP SIM Integration installed version. This tool enables you to check if any HP SIM Integration file is updated upon the installation of a patch.

Using Insight Management Agents tools group

The IM Agent tools group contains the tools that you can execute on IM Agent Windows nodes. Tools 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.
- Starts or stops or gets status of IM Agent services of the IM Agent services.

Figure 7 shows the tools in the Insight Management Agents tools group.

Figure 7 Insight Management Agents tools group

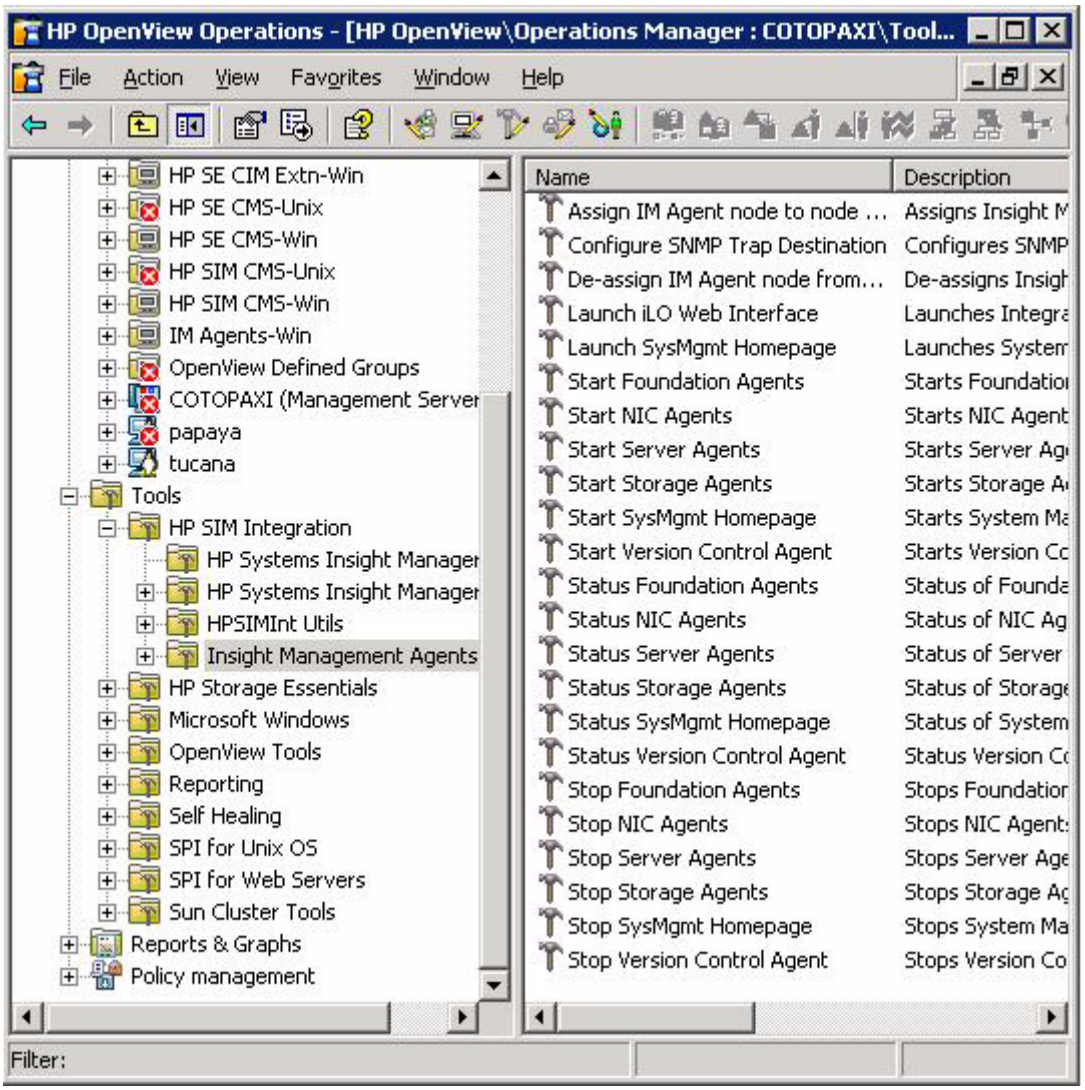


Table 14 describes the tools in the IM Agent Tools Group.

Table 14 Insight Management Agent Tools

Tools	Description
Assign IM Agent node to node group	Assigns the Insight Management Agent node to the **IM Agents-Win** node group.
De-assign IM agent node from node group	De-assigns the Insight Management Agent node from **IM Agents-Win** node group.
Configure SNMP Trap Destination	Configures SNMP trap destination on the Insight Management agent nodes
Launch SysMgmt Homepage	Launches the System Management Home page.
Launch iLO Web Interface	Launches the Integrated Lights-Out Web Interface.
Start Foundation Agents	Starts Foundation Agents Service.
Start NIC Agents	Starts the NIC Agents service.
Start Server Agents	Starts the Server Agents service.
Start Storage Agents	Starts the Storage Agents service.
Start Version Control Agent	Starts the Version Control Agent service.
Start SysMgmt Homepage	Starts the System Management Home page service.
Status Foundation Agents	Provides 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.

Table 14 Insight Management Agent Tools

Tools	Description
Status Version Control Agent	Gets the status of Version Control Agent service.
Status SysMgmt Homepage	Gets the status of System Management Home page Service.
Stop Foundation Agents	Stops Foundation Agents service.
Stop NIC Agents	Stops NIC Agents service.
Stop Server Agents	Stops Server Agents service.
Stop Storage Agents	Stops the Storage Agents service
Start Version Control Agent	Starts the Version Control Agent service
Stop Version Control Agent	Stops the Version Control Agent service.
Stop SysMgmt Homepage	Stops theSystem Management Home page service

6 Uninstalling the HP SIM Integration

This chapter addresses the following topics:

Uninstalling HP SIM Integration

Uninstalling the HP SIM Integration software, involves the following tasks:

- Uninstalling HP SIM Integration components
- Removing the HP SIM Integration components from HP SIM GUI.
- Removing the HP SIM Integration components from the managed nodes.
- Removing the HP SIM Integration components from the management server.

Uninstalling HP SIM Integration components from HP SIM CMS nodes

To uninstall the HP SIM Integration components from the HP SIM CMS node, complete the following steps:

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

Stopping the HP SIM Integration event listener

To stop HP SIM Integration Event Listener:

1. Launch **Stop Event Listener** from the **HP SIM Integration→HP Systems Insight Manager -Win** tools group on the **HP SIM CMS-Win** node group.

   Repeat the above steps to stop Event Listener on the nodes running on **HP SIM CMS-Unix** node groups, using the **Stop Event Listener** tool in the appropriate tools group.

Deleting the HP SIM Integration event forwarding tasks and collections

To stop event forwarding from HP SIM to HPOM, you must delete the event forwarding collection and its corresponding task from the HP SIM management server.

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

1. Run the **Stop Fwding Imp Events** tool on the HP SIM CMS nodes to delete **HPSIMInt_ImportantEvents**, the default collection and task for forwarding HP SIM events.

2 If you have configured default event acknowledgement from HP SIM to HPOM, run the **Stop Fwding Cleared Imp Events** tool to delete **HPSIMInt_ClearedEvents**. It is the default collection and task acknowledging HP SIM events.

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

1 Run the **Remove Events Task** tool for each custom task added to forward HP SIM events to HPOM, by providing the name of the custom task.

2 Run the **Remove Query** tool for each collection to remove it from HP SIM, by providing the name of the custom collection.

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

1 Log in 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 Check for any custom event collections that you have added.

You can also delete collections from the HP SIM web interface or by using HP SIM CLI. You can also 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*.

Deleting HP SIM Integration instrumentation from nodes

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

1 Open the **HPSIMInt Utils** tool group in the HP SIM Integration tools group.

2 Run **Clean HP SIM-Win** tool on the HP SIM CMS-Win nodes.

3 Run **Clean HP SIM-Unix** tool on the HP SIM CMS-Unix nodes.

Removing HP SIM CMS nodes from HP SIM Integration node groups

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

- Launch **De-assign HP SIM node from node group** from **HP SIM Integration→HP Systems Insight Manager -Win** tools group on the HP SIM CMS-Win node group.

Repeat the above step to remove nodes from HP SIM CMS-Unix and IM Agents-Win node groups by using the appropriate tools in their respective tools group.

Uninstalling HP SIM Integration components from IM Agent nodes

To uninstall the HP SIM Integration components from, IM Agent nodes, complete the following steps:

1. Delete HP SIM Integration components from nodes by running **Clean HP SIM-Unix** or **Clean HP SIM-Win** tool on all IM Agent node groups.
2. Remove nodes from IM Agent node groups.

Deleting HP SIM Integration instrumentation from IM Agent nodes

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

1. Open the **HPSIMInt Utils** tool group in HP SIM Integration tool group.
2. Run **Clean HP SIM-Win** tool on the **IM Agent-Win** nodes.

Removing IM Agent nodes from HP SIM Integration node groups

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

- Launch **De-assign IM Agent node from node group** from **HP SIM Integration** > **Insight Management Agents** tools group on **IM Agents-Win** node group.

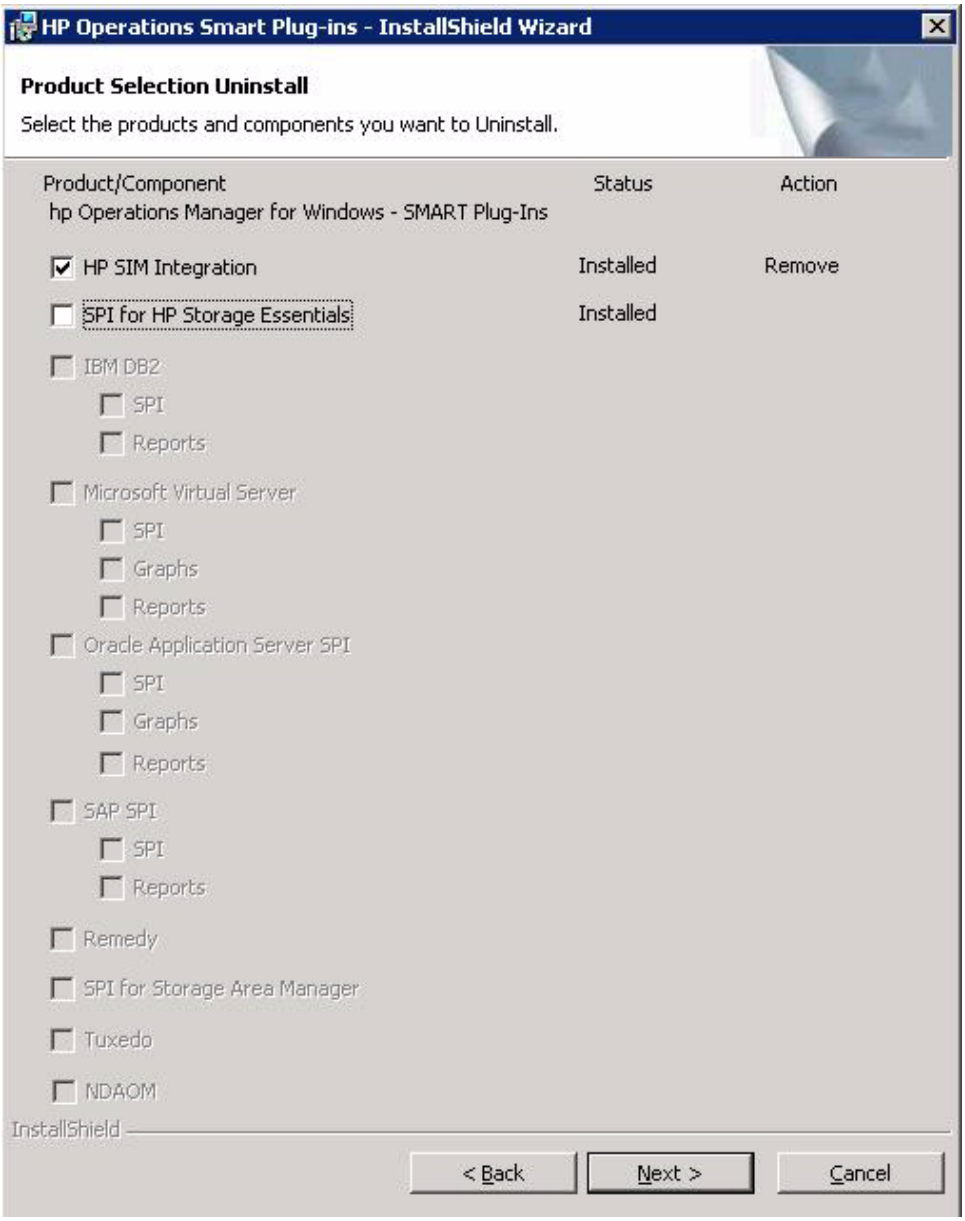
Uninstalling HP SIM Integration from the HPOM management server

To uninstall HP SIM Integration components from the HPOM management server, complete the following steps:

If Storage Essentials SPI is installed, ensure you must uninstall Storage Essentials SPI before proceeding with this procedure. Selecting **HP SIM Integration** in the Product Selection Uninstall window also uninstalls **SPI for HP Storage Essentials**.

1. Insert the *Smart Plug-ins, New and Upgraded* DVD in the DVD-ROM drive.
2. Select **Remove products** to proceed to the product selection dialog.

3 Select **HP SIM Integration** from the Product Selection Uninstall window.



4 Click **Next**.

5 Select **Remove**.

6 Click **Finish** to complete the uninstallation procedure and exit the wizard.

This deletes all the configuration files and executables of HP SIM Integration from the HPOM server. The HP SIM Integration policies and tools are also deleted from the HPOM GUI.

For more information on uninstalling HP Operations Smart Plug-ins, see the *New and Upgraded Smart Plug-ins DVD for HP Operations Installation / Upgrade Guide*.

Uninstalling HP SIM Integration from the HPOM User Roles GUI

The HP SIM Integration node groups, tools group, tools, and policies are removed from the HPOM GUI during the uninstallation of the product. However, the **HP SIM Integration Admin** user role must be removed manually.

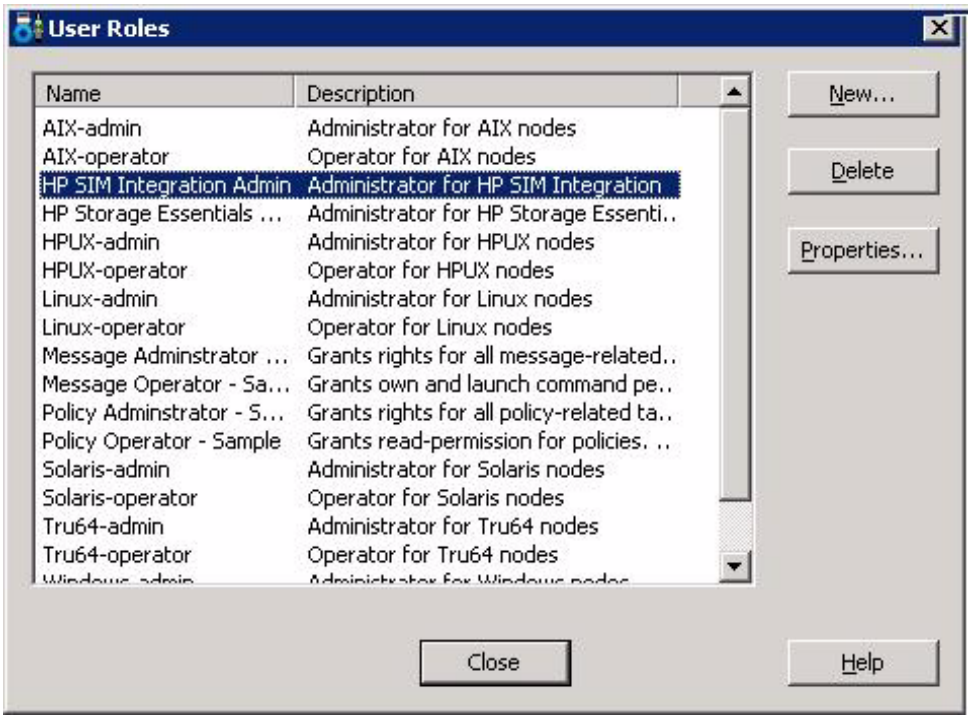
The policies are removed from the deployed node and deleted from HPOM GUI only if the policies are not customized or updated.

To remove the **HP SIM Integration Admin**, user roles, complete the following steps:

1 Select **Actions→Configure→User Roles**.

You can also click **User Roles Configuration Editor** located on the menu bar of the main HPOM management console.

The User Roles window displays.



2 Select **HP SIM Integration Admin** and click **Delete** to remove the HP SIM Integration Admin user roles from the HPOM User Roles.

7 Troubleshooting HP SIM Integration

This chapter addresses the following topics:

- Before you start
- Troubleshooting

Before you start

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

Ensure that the procedures described in Installing HP SIM Integration chapter are completed successfully. This ensures that you have installed and configured HP SIM Integration in the recommended manner and that the messages seen in the HPOM Events Browser are:

- Generated by HP SIM
- Intercepted by the HP SIM Integration policies
- Appear in the HPOM 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 in the Troubleshooting section.

Troubleshooting

Following are the issues in the HP SIM Integration:

- HP SIM events not arriving on the HPOM message browser
- HP SIM services not visible in the HPOM Console
- IM Agent services not visible in the HPOM Console
- Automatic acknowledgement from HPOM to HP SIM is not working
- HP SIM event details in HPOM do not describe the problem adequately
- Auto-deployment of policies failing on HPOM 8.10
- Auto-deployment of policies failing on OVOW 7.50
- Version Verify and Self-Healing Info tool fail on an agent running as non-root user.

HP SIM events not arriving on the HPOM message browser

Symptom: No HP SIM events arriving in the HPOM message browser.

Action: To resolve the issue, complete the following steps:

1. Ensure that the connection between HPOM and the HP SIM CMS is up and running.
2. Send a test message from the HPOM Console and ensure that it can be received in the HPOM Message Browser. You can send a test message using the command **`opcmsg`** on the managed node.
3. Ensure that the HP SIM services are running on the HP SIM CMS node.
4. Verify that the HPOM agent is correctly installed and configured on the HP SIM CMS server and that HPOM 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 Configuring the HP SIM Integration to forward HP SIM events.
6. Ensure that the correct HP SIM Credentials are entered when configuring the HP SIM CMS node, as described in Obtaining HP Systems Insight Manager credentials, before adding the node to the HP SIM node group.

7 The **Get HP SIM Credentials** tool must be run on only 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 is a possibility of having error messages in the logs indication authentication failures.

9 Ensure that the HP SIM Integration policies are correctly deployed to the HP SIM CMS or IM Agent nodes.

10 Ensure that HP SIM CMS or IM Agent nodes are added to the appropriate node groups. For more information, see Assigning HP SIM CMS nodes to node group and Assigning Insight Management Agent node to node group.

11 Ensure that the HP SIM Integration Event Listener is running. For more information, see Starting Event Listener on HP SIM CMS node chapter.

12 Verify whether HP SIM Integration default events collection **HPSIMInt_ImportantEvents** is present on the HP SIM CMS GUI in the **Events** > **Public tree** on the **Systems and Events** panel. Check the existence of the event forwarding task using HP SIM CLI command `mxtask` on HP SIM CMS node.

13 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 the HP SIM Integration to forward HP SIM events to modify the port. To check the task definition, use the HP SIM CLI command `mxtask -if` **`<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 tool **Status Event Listener**. The tool output contains the Event Listener port.

14 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 Reconfiguring HP SIM CMS credentials for HP SIM Integration.

HP SIM services not visible in the HPOM Console

Symptom: HP SIM services are not visible in the HPOM Console.

Action: Ensure that the Service Discovery policies in the policy groups from **Policy Management** > **Policy Groups** > **HP SIM Integration** > **HP SIM CMS-Win** or **HP SIM CMS-Unix** > **Service Discovery** are deployed on the HP SIM CMS node. To check that the policies are correctly deployed, right-click on the node and Select **View** > **Policy Inventory** and ensure that the Service Discovery policies are present. You can also check the service discovery log at `<OvAgentDir>\log\javaagent.log` on the HP SIM CMS node for error messages.

IM Agent services not visible in the HPOM Console

Symptom: Insight Management Agent services are not visible in the HPOM Console.

Action: Ensure that the Service Discovery policies present at **Policy Management** > **Policy Groups** > **HP SIM Integration** > **IM Agents-Win** > **Service Discovery** have been deployed on the IM Agent node. To check that the policies are correctly deployed, right-click on the node and select **View** > **Policy Inventory** and ensure that the Service Discovery policies are present. You can also check the service discovery log at `<OvAgentDir>\log\javaagent.log` on the IM Agent node for error messages.

Automatic acknowledgement from HPOM to HP SIM is not working

Symptom: Acknowledging an event on HPOM Console is not clearing the event in HP SIM CMS.

Action: To resolve the issue, complete the following steps:

1. Ensure that you have carried out the configuration steps described in Configuring bi-directional event acknowledgement/clearing chapter.
2. Ensure that the correct HP SIM Credentials are entered when configuring the HP SIM CMS node. See Obtaining HP Systems Insight Manager credentials for more information.
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 credentials for instructions on entering the HP SIM credentials.

4 Ensure that the HP SIM Event Acknowledging policy **HPSIMInt-HPSIM_ClearEvents** and **HPSIMInt-HPSIM_Auto_Acknowledge** present in **Policy Management** > **Policy Groups** > **HP SIM Integration** > **HP SIM Event Acknowledging** are deployed on the HPOM Management Server node. For more information, see Configuring event clearing from HPOM to HP SIM.

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

Symptom: HP SIM event displayed in the HPOM 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 **Commands→Start→Operator Initiated**. The HP Systems Insight Manager log in page displays.

3 Provide the HP SIM credentials. This displays the HP SIM GUI in the **System Page** for the device of the reported event.

4 Click the **Events** tab to view the full event text.

Auto-deployment of policies failing on HPOM 8.10

Symptom: Auto-deployment of policies failing on HPOM 8.00.

Action: Select **OVO Console→Operations Manager→Nodes→Server Configuration Utility→Name Space→Policy Management and Deployment→Disable autodeployment for all nodes and services** and set the value to **False**.

Auto-deployment of policies failing on OVOW 7.50

Symptom: Auto-deployment of policies failing on OVOW 7.5

Action: Please verify whether the following registery key value is set to **0**: `SOFTWARE\Hewlett-Packard\OVEnterprise\Management Server\AutoDeployment\Disable`

Version Verify and Self-Healing Info tool fail on an agent running as non-root user.

Symptom: When the OM Agent is migrated from root user to non-root user, the **Version Verify** and **Self-Healing Info** tools fail with the following error.

```
Cannot open collector output file /tmp/SIM_INT/SIM_INT.xml for writing
```

Action: If the OM Agent is migrated from root user to non-root user, delete or rename the HP SIM Integration files/directories from `/tmp` on the node which were created by root user.

8 SNMP Trap Interceptor Policies

The policy group IM Agents Hardware Traps contains SNMP Trap Interceptor policies with rules or conditions to match SNMP traps from the IM Agents.

Following are the rules to match a trap generated for different status of the monitored object:

HPSIMInt_IMAgents_FwdPowerDevicesTraps (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)

HPSIMInt_IMAgents_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)

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)

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-IMAgents_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 Triggered, 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 Triggered, 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)

HPSIMInt-IMAgents_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)

HPSIMInt-IMAgents_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)

HPSIMInt-IMAgents_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)

HPSIMInt-IMAgents_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)

HPSIMInt-IMAgents_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)

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)

HPSIMInt-IMAgents_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)

HPSIMInt-IMAgents_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)

HPSIMInt-IMAgents_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)

HPSIMInt-IMAgents_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)

HPSIMInt-IMAgents_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)

HPSIMInt-IMAgents_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 OFFLNE (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 OFFLNE (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 OFFLNE (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 OFFLNE (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 OFFLNE (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)

HPSIMInt-IMAgents_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)

HPSIMInt-IMAgents_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)

HPSIMInt-IMAgents_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)

HPSIMInt-IMAgents_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, states 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)

HPSIMInt-IMAgents_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)

HPSIMInt-IMAgents_FwdThresholdMgmtTraps (uses CPQTHRSH.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)

HPSIMInt-IMAgents_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)

HPSIMInt-IMAgents_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)

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)

HPSIMInt-IMAgents_FwdCIMTraps (CPQCIM.MIB)

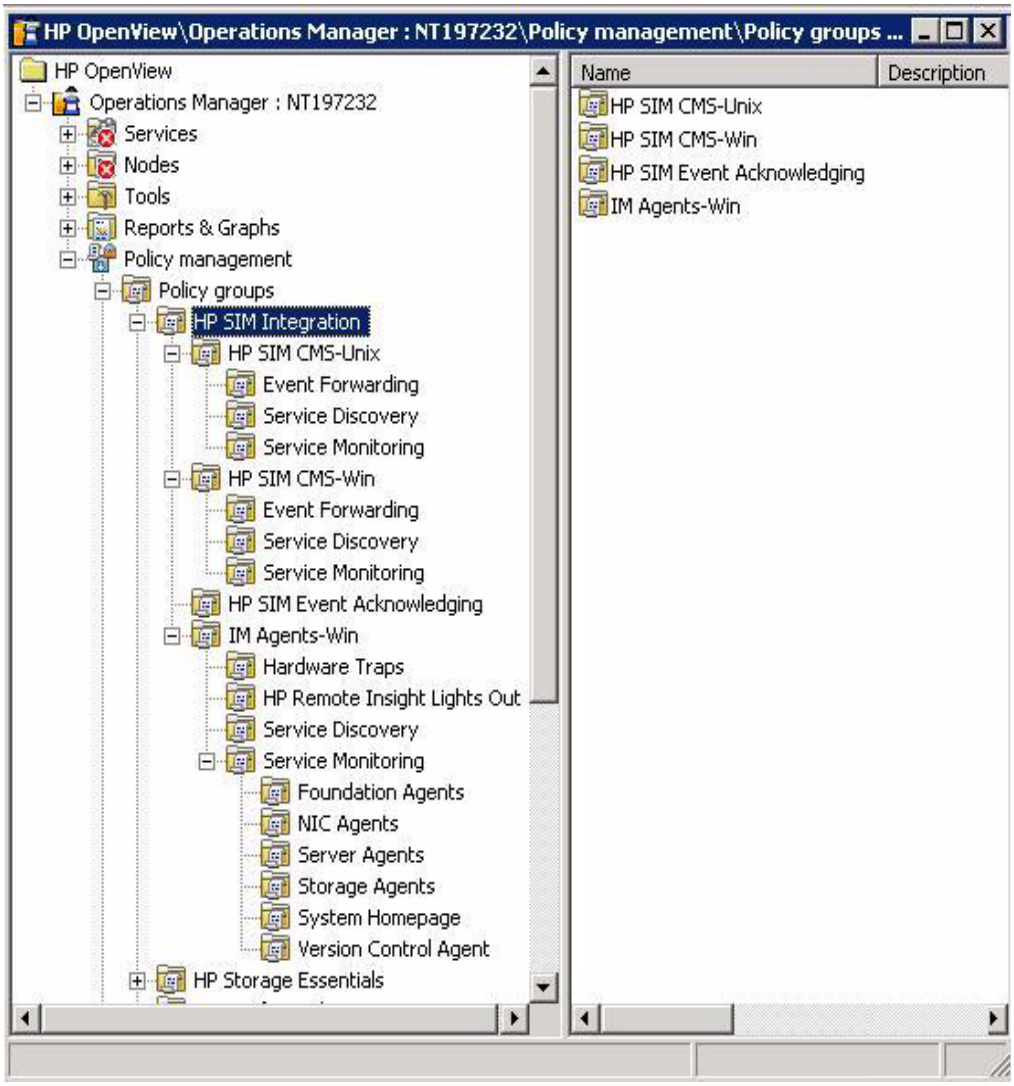
1. Insight Management Agent: The GbE switch has successfully transferred a firmware image (1.3.6.1.4.1.232.0.161001)
2. Insight Management Agent: The GbE switch has successfully transferred a configuration file (1.3.6.1.4.1.232.0.161002)
3. Insight Management Agent: The GbE switch has successfully completed 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)

A HP SIM Integration Policy Groups

The following high-level HP SIM Integration policy groups are available in HP SIM Integration, as shown in Figure 8:

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

Figure 8 HP SIM Integration policy groups



HP SIM CMS-Unix policy groups

The HP SIM CMS-Unix policy group consist of the following policies, which forward and acknowledges events on HPOM:

- Event Forwarding
- Service Discovery
- Service Monitoring

Table 15 lists the policy under the Event Forwarding policy groups.

Table 15 Event Forwarding Policy Group

Policy	Description	Policy Type
HPSIMInt-HPSIM_Events_Unix	Forwards and acknowledges the HP Systems Insight Manager events to HPOM	Open Message Interface

Table 16 lists the policy under the Service Discovery policy groups.

Table 16 Service Discovery Policy Group

Policy	Description	Policy Type
HPSIMInt-HPSIM_Auto Discovery	Discovers HP Systems Insight Manager CMS services.	Service Auto-Discovery

Table 17 lists the policies under the Service Monitoring policy groups.

Table 17 Service Monitoring Policy Group

Policy	Description	Policy Type
HPSIMInt-HPSIM_HPSIMServiceMonitoring_Unix	Checks the HP Systems Insight Manager service on Unix nodes.	Measurement Threshold
HPSIMInt-HPSIM_EventListenerMonitoring_Unix	Monitors the HP SIM Integration Event Listener on Unix nodes.	Measurement Threshold

HP SIM CMS-Win Policy Groups

HP SIM CMS-Win policy group consist of the following policies, which forward and acknowledge events on HPOM.

- Event Forwarding
- Service Discovery
- Service Monitoring

Table 18 lists the policy under the Event Forwarding policy group.

Table 18 Event Forwarding Policy Group

Policy	Description	Policy Type
HPSIMInt-HPSIM_ Events_Win	Forwards and acknowledges the HP Systems Insight Manager Events to HPOM.	Open Message Interface

Table 19 lists the policy under the Service Discovery policy group.

Table 19 Service Discovery Policy Group

Policy	Description	Policy Type
HPSIMInt-HPSIM_ AutoDiscovery	Discovers HP Systems Insight Manager CMS Services.	Service Auto-Discovery

Table 20 lists the policy under the Service Monitoring policy groups.

Table 20 Service Monitoring Policy Group

Policy	Description	Policy Type
HPSIMInt-HPSIM_OpenSSHdServiceMonitoring-Win	Checks the OpenSSHd service on the Windows nodes.	Measurement Threshold
HPSIMInt-HPSIM_WMIMapperServiceMonitoring-Win	Checks the Pegasus WMI Mapper service on the Windows nodes.	Measurement Threshold
HPSIMInt-HPSIM_EventListenerMonitoring-Win	Monitors the HP SIM Integration Event Listener on the Windows nodes.	Measurement Threshold
HPSIMInt-HPSIM_HPSIMServiceMonitoring-Win	Checks the HP Systems Insight Manager service on the Windows nodes.	Measurement Threshold

HP SIM Event Acknowledging Policy Groups

The HP SIM Event Acknowledging policy groups consist of policies for clearing events on HP SIM when these events are acknowledged on HPOM.

Table 21 lists the policies under the HP SIM Event Acknowledging policy groups.

Table 21 HP SIM Event Acknowledging Policy Group

Policy	Description	Policy Type
HPSIMInt_ClearEvents	Clears the events on HP Systems Insight Manager when the events are acknowledged on OVO Windows.	Scheduled Task
HPSIMInt-HPSIM_Auto_Acknowledge	Intercepts the acknowledged HP Systems Insight Manager events of message group `HPSIMInt-Systems_Insight_Manager`.	Windows Management Interface

These policies should be deployed to the HPOM management server.

IM Agents-Win Policy Groups

IM Agents-Win policy group consist of the following policies:

- Hardware Traps
- HP Remote Insight Lights Out
- Service Monitoring
- Service Discovery

Hardware Traps Policy Group

Table 22 lists the policy under IM Agents Hardware Traps policy group.

Table 22 Hardware Traps Policy Group

Policy	Description	Policy Type
HPSIMInt-IMAgents_FwdCIMTraps	Forwards the IM Agents ProLiant GbE Switches SNMP Traps.	SNMP Interceptor
HPSIMInt-IMAgents_FwdCMCTraps	Forwards the IM Agents 'Console Management Controller' SNMP Traps.	SNMP Interceptor
HPSIMInt-IMAgents_FwdChannelArrayTraps	Forwards the IM Agents 'Fibre Channel Array' SNMP Traps.	SNMP Interceptor
HPSIMInt-IMAgents_FwdClusterTraps	Forwards the IM Agents 'Cluster' SNMP Traps.	SNMP Interceptor
HPSIMInt-IMAgents_FwdDMITraps	Forwards the IM Agents 'DMI' SNMP Traps.	SNMP Interceptor
HPSIMInt-IMAgents_FwdDriveArrayTraps	Forwards the IM Agents 'Intelligent Drive Array' SNMP Traps.	SNMP Interceptor

Table 22 Hardware Traps Policy Group

Policy	Description	Policy Type
HPSIMInt-IMAgents_FwdHostOSTraps	Forwards the IM Agents 'Host Operating System' SNMP Traps.	SNMP Interceptor
HPSIMInt-IMAgents_FwdICATraps	Forwards the IM Agents 'Intelligent Cluster Administrator' SNMP Traps.	SNMP Interceptor
HPSIMInt-IMAgents_FwdIDEDriveTraps	Forwards the IM Agents 'Manageable IDE Drive' SNMP Traps.	SNMP Interceptor
HPSIMInt-IMAgents_FwdNICTraps	Forwards the IM Agents 'Network Interface Card' SNMP Traps.	SNMP Interceptor
HPSIMInt-IMAgents_FwdPCConfigTraps	Forwards the IM Agents 'PC Equipment Configuration' SNMP Traps.	SNMP Interceptor
HPSIMInt-IMAgents_FwdPowerDevicesTraps	Forwards the IM Agents Power Devices SNMP Traps.	SNMP Interceptor
HPSIMInt-IMAgents_FwdRPMTraps	Forwards the IM Agents Rack Power Manager SNMP Traps	SNMP Interceptor
HPSIMInt-IMAgents_FwdRackTraps	Forwards the IM Agents Rack Information' SNMP traps.	SNMP Interceptor
HPSIMInt-IMAgents_FwdRaidControllerTraps	Forwards the IM Agents Raid Controller SNMP Traps.	SNMP Interceptor
HPSIMInt-IMAgents_FwdRecoverySvrTraps	Forwards the IM Agents Recovery Server SNMP Traps.	SNMP Interceptor
HPSIMInt-IMAgents_FwdSANTraps	Forwards the IM Agents Storage Area Networks SNMP Traps.	SNMP Interceptor

Table 22 Hardware Traps Policy Group

Policy	Description	Policy Type
HPSIMInt-IMAgents_FwdSCSIDevicesTraps	Forwards the IM Agents SCSI Devices SNMP Traps.	SNMP Interceptor
HPSIMInt-IMAgents_FwdSTEAMTraps	Forwards the IM Agents StorageWorks Enterprise Array Manager SNMP traps.	SNMP Interceptor
HPSIMInt-IMAgents_FwdSWCCTraps	Forwards the IM Agents StorageWorks Command Console SNMP traps.	SNMP Interceptor
HPSIMInt-IMAgents_FwdServerMgrTraps	Forwards the IM Agents Server Manager SNMP Traps.	SNMP Interceptor
HPSIMInt-IMAgents_FwdServiceIncidentTraps	Forwards the IM Agents Service Incident Information SNMP Traps.	SNMP Interceptor
HPSIMInt-IMAgents_FwdStorageSysTraps	Forwards the IM Agents Storage Systems SNMP Traps.	SNMP Interceptor
HPSIMInt-IMAgents_FwdSvrHealthTraps	Forwards the IM Agents Server Health SNMP Traps.	SNMP Interceptor
HPSIMInt-IMAgents_FwdSysInfoTraps	Forwards the IM Agents System Information SNMP Traps.	SNMP Interceptor
HPSIMInt-IMAgents_FwdThresholdMgmtTraps	Forwards the IM Agents Threshold Management SNMP Traps.	SNMP Interceptor
HPSIMInt-IMAgents_FwdUPSTraps	Forwards the IM Agents Uninterrupted Power Supply SNMP Traps.	SNMP Interceptor
HPSIMInt-IMAgents_FwdOneMsgPerTrap	Policy suppresses multiple messages for a single Trap Event ID.	Node Info

HP Remote Insight Lights Out Policy Group

Table 23 lists the policy under HP Remote Insight Lights Out policy group.

Table 23 HP Remote Insight Lights Out Policy Group

Policy	Description	Type
HPSIMInt-IMAgents_FwdRIBTraps	Forwards the IM Agents 'Remote Insight Board' SNMP Traps	SNMP Interceptor

Service Discovery Policy Group

Table 24 lists the policy under Service Discovery policy group.

Table 24 Service Discovery Policy Group

Policy	Description	Type
HPSIMInt-IMAgents_FwdRIBTraps	Forwards the IM Agents 'Remote Insight Board' SNMP Traps	Service Auto-Discovery

Service Monitoring Policy Group

The **Service Monitoring** policy group contains the following policies:

- Foundation Agents
- NIC Agents
- ServerAgents
- StorageAgents
- System Homepage
- Version Control Agent

Table 25 lists the policies under Service Monitoring policy group.

Table 25 Service Monitoring Policy Group

Policy Group	Policy	Description	Type
Foundation Agents	HPSIMInt-IMAgents_ FoundationAgents	Monitors the Foundation Agents service.	Measurement Threshold
NIC Agents	HPSIMInt-IMAgents_ NICAgents	Monitors the NIC Agents service.	Measurement Threshold
Server Agents	HPSIMInt-IMAgents_ ServerAgents	Monitors the Server Agents service.	Measurement Threshold
Storage Agents	HPSIMInt-IMAgents_ StorageAgents	Monitors the Storage Agents service.	Measurement Threshold
System Homepage	HPSIMInt-IMAgents_ SysMgmtHomepage	Monitors the System Management Home page service.	Measurement Threshold
Version Control Agent	HPSIMInt-IMAgents_ VCAgent	Monitors the Version Control Agent service.	Measurement Threshold

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 network of 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 when the system is on. RAM is an integrated circuit memory chip that enables information to be stored or accessed in any order; all storage locations are equally accessible.