

# HP Systems Insight Manager 5.3 Release Notes



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Printed in the US  
HP Part Number: 431828-005  
Published: January 2009  
Edition: 5.3



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## Typographic conventions

We use the following typographical conventions.

<i>audit</i> (5)	HP-UX manpage. <i>audit</i> is the name and <i>5</i> is the section in the <i>HP-UX Reference</i> . On the web and on the Instant Information DVD, it might be a hot link to the manpage itself. From the HP-UX command line, you can enter "man <i>audit</i> " or "man 5 <i>audit</i> " to view the manpage. See <i>man</i> (1).
<i>Book Title</i>	Title of a book. On the web and on the Instant Information DVD, it might be a hot link to the book itself.
Command	Command name or qualified command phrase.
ComputerOut	Text displayed by the computer.
<i>Emphasis</i>	Text that is emphasized.
<b>Emphasis</b>	Text that is strongly emphasized.
<b>KeyCap</b>	Name of a keyboard key. Note that <b>Return</b> and <b>Enter</b> both refer to the same key.
<b>Term</b>	Defined use of an important word or phrase.

<b>UserInput</b>	Commands and other text that you type.
<i>Variable</i>	Name of a variable that you can replace in a command or function or information in a display that represents several possible values.
[ ]	Contents are optional in formats and command descriptions. If the contents are a list separated by  , you must choose one of the items.
{ }	Contents are required in formats and command descriptions. If the contents are a list separated by  , you must choose one of the items.
...	Preceding element can be repeated an arbitrary number of times.
	Separates items in a list of choices.

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# 1 Overview

HP SIM is the foundation for the HP unified server-storage management strategy. HP SIM is a hardware-level management product that supports multiple operating systems on HP ProLiant, Integrity and HP 9000 servers, HP StorageWorks MSA, EVA, XP arrays, and third-party arrays. Through a single management view of Microsoft® Windows®, HP-UX 11iv1, HP-UX 11iv2, HP-UX 11iv3, and Red Hat, and SuSE Linux, HP SIM provides the basic management features of:

- System discovery and identification
- Single-event view
- Inventory data collection
- Reporting

HP SIM can provide systems management with plug-ins for HP clients, storage, power, and printer products. Using HP Integrity Essentials you can choose plug-in applications that deliver complete lifecycle management for your hardware assets:

- Workload management
- Capacity management
- Virtual machine management
- Partition management

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# 2 Features and What's New

## Features

### HP SIM management

- **Fault management and event handling** HP SIM provides proactive notification of actual or impending component failure alerts. Automatic Event Handling enables you to configure actions to notify appropriate users of failures through e-mail, pager, or SMS gateway, and enables automatic execution of scripts or event forwarding to enterprise platforms, such as [HP OpenView Network Node Manager](#) or [HP OpenVMS Systems](#).



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**NOTE:** Pager support is only for Windows-based CMS.

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- **Consistent multisystem management** HP SIM initiates a task on multiple systems or nodes from a single command on the CMS. This functionality eliminates the need for tedious, one-at-a-time operations performed on each system.
- **Two user interfaces** HP SIM provides the option of a browser-based GUI or a CLI that enables you to incorporate HP SIM into your existing management processes.
- **WBEM indications for HP-UX, Linux, and SMI-S devices** HP SIM enables you to use the GUI or CLI to subscribe and unsubscribe to WBEM indications.

### Security

- **Role-based security** HP SIM enables effective delegation of management responsibilities by giving system administrators granular control over which users can perform specific management operations on specific systems.
- **Manage SSH keys** The SSH keys feature enables you to view and manage, from the CMS, the public SSH keys stored in the `known_hosts` file. The SSH keys enable the CMS to authenticate a secure connection with a managed system.
- **Secure remote management** HP SIM leverages operating system security for user authentication and uses SSL and SSH to encrypt management communications.
- **Configure or Repair Agents** This feature enables you to repair credentials for SNMP settings, HP System Management Homepage, or Management HTTP Server trust relationships on Windows, Linux, and HP-UX systems supported by HP SIM.

### Installation

- **Easy and rapid installation.** You can install HP SIM quickly and easily, on HP-UX 11i v1, HP-UX 11i v2, or HP-UX 11i v3 on PA-RISC/Integrity server platforms, or on ProLiant platforms running Windows or Linux.
- **First Time Wizard** HP SIM provides you with step-by-step, online instructions for performing the initial configuration of HP SIM. The wizard helps you configure HP SIM settings on the CMS.

### Discovery

HP SIM can automatically discover and identify systems attached to the network. Discovery filters enable you to limit discovery to specific network segments or IP address ranges. Use discovery filters to prevent discovery of unwanted system types.

### Custom tools

HP SIM 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 applications, or scripts. Role-based security governs access to these integrated tools.

## Reporting

- **Data collection and inventory reports** HP SIM performs comprehensive system data collection and enables you to quickly produce detailed inventory reports for managed systems. Reports can be generated in HTML, XML, or CSV format. Data collection and reporting has been added for HP Superdome systems and other cellular complexes. You can collect information about:
  - Enclosures
  - Cabinets
  - Cells
  - Memory
  - Integrity virtual machines
  - Non-Integrity virtual machines
  - Virtual partitions (vPars)
  - Hard partitions (nPars)The type of data collected depends on what filters are selected, or what Wbem providers are installed.
- **Snapshot comparisons** HP SIM enables you to compare configuration snapshots of up to four different servers, or compare configuration snapshots of a single server over a period of time. You can use snapshot comparisons to save a picture of a standard configuration for comparisons to other systems.

## Partner applications

- **HP Version Control** HP SIM downloads the latest BIOS, driver, and agent updates for HP ProLiant and HP Integrity servers running Windows and Linux, identifies systems running outdated system software, and enables system software updates across groups of servers. For HP-UX systems, Software Distributor is integrated into HP SIM.
- **HP Insight Remote Support Pack** HP SIM includes a new version of the HP Insight Remote Support Pack (RSP) plug-in. This capability deploys with your Windows-based CMS and includes the following functionality for a wide range of servers, storage, network, and selected multivendor devices:
  - Remote event monitoring to supplement the local monitoring of HP SIM
  - Real-time hardware event monitoring and secure event submission to HP Support to help identify and prevent potentially critical hardware problems
  - Faster restoration of your supported systems and devices to operational status
  - Less disruption to your company's revenue-generating activities and business productivity
  - The HP SIM single view of your data center is enhanced, with the addition of the following serviceability attributes:
    - Contract and warranty details for your systems
    - Service event view, including remote support details such as HP case ID and service case status
    - Detailed problem resolution information including access to self-repair videos
  - Full support of delivery requirements for HP Mission Critical and Proactive Services contracts
  - Optional integration with HP Operations Manager
- **Web-Based Enterprise Services and Open Service Event Manager** For those customers, who do not allow outbound Internet communication as part of their security policy, some of the event analysis functionality of the HP Insight Remote Support Pack can be used as standalone components. WEBES SEA and OSEM generate service notifications to HP SIM through a specific SNMP trap type if analysis determines there are serviceable events. However, if the Remote Support Pack is installed, the service notification provided by WEBES and OSEM automatically submit an incident to HP and returns an HP case ID and status.

- **HP System Management Homepage** The HP System Management Homepage provides a consolidated interface for single-system management. By aggregating the data from HP web-based agents and management utilities, the HP System Management Homepage provides a common, easy-to-use interface that displays hardware fault and status monitoring, performance data, system thresholds, diagnostics, and software version control for an individual server.
- **HP Performance Management Pack** HP SIM provides a software solution that detects, analyzes, and explains hardware bottlenecks on HP ProLiant servers and HP StorageWorks Modular Smart Array shared storage. HP Performance Management Pack (PMP) provides the tools needed to receive proactive notification of impending bottleneck conditions and debug existing performance issues. With PMP, users can monitor on one or more servers. The performance information is analyzed to determine if there is an impending or existing performance bottleneck issue. This information can be interactively displayed or logged to a database for later analysis or reporting, and set up proactive notification using the HP SIM notification mechanism. The PMP tools that are available in HP SIM include:
  - Report
  - Configuration
  - Licensing
  - Manual Log Purge

The PMP tools operate in conjunction with HP SIM and installs with Insight Management Agents. For more information, see <http://www.hp.com/go/ice>.
- **HP Vulnerability and Patch Management Pack** HP Vulnerability and Patch Management Pack identifies and provides advice to resolve security vulnerabilities. It delivers advanced patch management through automated acquisition, optimized deployment, and continuous enforcement of security patches. For more information, see HP Vulnerability and Patch Management Pack at <http://www.hp.com/go/ice>.
- **HP Virtual Machine Management Pack** The Virtual Machine Management Pack provides central management and control of VMware, Microsoft, and Citrix virtual machines. Using the Virtual Machine Management Pack, all virtual machines and virtual machine (VM) hosts can be managed from the HP SIM console. The Virtual Machine Management Pack displays a tree view of the virtual machine hosts and virtual machine guests in the left pane of the HP SIM console. After selecting a system in the left pane tree, information for the system selected appears in the right pane. You can deploy, register, unregister, and upgrade the Virtual Machine Management Pack Agent. The Virtual Machine Management Pack is now integrated into HP SIM. See <http://www.hp.com/go/vmmanage> for documentation and more information about the Virtual Machine Management Pack.
- **HP Server Migration Pack - Universal Edition** The HP Server Migration Pack - Universal Edition (SMP Universal) extends the functionality of the Virtual Machine Management Pack to provide integrated physical-to-virtual (P2V), virtual-to-virtual (V2V), virtual-to-ProLiant (V2P), and physical-to-ProLiant (P2P) migrations. SMP Universal enables you to simplify the server consolidation process. To purchase additional licenses, see <http://www.hp.com/go/migrate>.
- **HP BladeSystem Integrated Manager in HP SIM** HP SIM delivers a blade environment designed to consolidate access to blade deployment, configuration, and monitoring tools. Picture views are available of racks and enclosures. The HP BladeSystem Integrated Manager is automatically installed with HP SIM. No license key is required. To access HP BladeSystem Integrated Manager, select **Tools**→**Integrated Consoles**→**HP BladeSystem**. See <http://h18013.www1.hp.com/products/servers/management/bsme> for more information.
- **HP Rapid Deployment Pack** The HP Rapid Deployment Pack is a multiserver deployment tool that enables IT administrators to easily deploy large numbers of servers in an unattended, automated fashion. The Rapid Deployment Pack is installed separately from HP SIM. It requires a license for each server managed. You must register your Rapid Deployment Pack product to purchase licenses or obtain a 10-node 30-day license before installing Rapid Deployment Pack (a 10-node 7-day evaluation license is built into the software). The Rapid Deployment Pack is installed from its own DVD. See <http://www.hp.com/servers/rdp> for information about Rapid Deployment Pack including a link to obtain evaluation licenses or register your product. See the Rapid Deployment Pack documentation for network environment setup, prerequisites for the deployment server, and installation instructions.

- **HP Storage Essentials** HP is changing the economics of managing the data center. HP Storage Essentials is the first open, standards-based suite of storage products designed to integrate into HP SIM. See <http://h18006.www1.hp.com/products/storage/software/esuite/index.html> for more information about HP Storage Essentials.
- **HP Insight Power Manager** HP Insight Power Manager (IPM) is an integrated power-monitoring and management application that provides centralized control of server power consumption and thermal output at the data center level. It extends the capacity of data centers by enabling the user to control the amount of power and cooling required for ProLiant servers. Built on ProLiant Power Regulator technology, IPM extends new server energy instrumentation levers into HP SIM for greater Unified Infrastructure Management.
- **Support for HP-UX Serviceguard clusters** HP SIM recognizes HP-UX Serviceguard clusters and displays them in the GUI. HP Serviceguard Manager opens when you click a Serviceguard cluster in a search list and provides information on the clusters.

## What's new?

- **Support for display of IPv6 addresses** HP SIM can display IPv6 address on the System page and data collection reports for the systems that are IPv6 enabled.
- **Improved Linux identification** HP SIM uses SSH to gather basic system hardware information. Therefore, Linux is better identified because SSH gathers the serial number, product name, and UUID information
- **Improved discovery and identification of ESX hosts** HP SIM identifies ESX hosts, as a system type or subtype, through SSH identification if every other protocol fails. You must include a working user name and password pair for all ESX hosts configured in HP SIM.
- **Credentials management improvement** A new sign-in credential is introduced. This credential can be used to sign into managed systems and is protocol independent. Each discovery task can have its own set of credentials, resulting in shorter completion time for the discovery process.  
A discovery task can have it's own set of credentials, allowing for different discoveries to use different sets of credentials without including all possible credentials under global credentials.
- **Additional hypervisor support** Xen host and guest identification and association.
- **DTF enhancements** HP SIM uses privilege elevation tools such as `su` and `sudo` to run tools on remote HP-UX, Linux, and ESX systems.  
HP SIM provides login to a remote system with one unprivileged user and then elevates the privilege to run the tools.  
Can launch tools on AIX and Solaris.
- **Manual discovery** Manual discovery is available on the **New Discovery** section by selecting **Discover a single system**. Task results are available for single system discovery.
- **License usability enhancements** Usability enhancements made to License Manager including:
  - Easier view of available licenses
  - Enhanced licensing information gathering

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## 3 Documentation

All HP Systems Insight Manager documentation is available on the Web and bundled with the software.

- **HP Systems Insight Manager Installation and Configuration Guide for Windows** This document provides information about installing and getting started using HP Systems Insight Manager on Windows and includes an introduction to basic concepts, definitions, and functionality associated with HP Systems Insight Manager. See the *HP SIM 5.3 Installation and Configuration Guide for Windows* at <http://h18013.www1.hp.com/products/servers/management/hpsim/infolibrary.html>.
- **HP Systems Insight Manager Installation and Configuration Guide for HP-UX** This document provides information about installing and getting started using HP Systems Insight Manager on HP-UX and includes an introduction to basic concepts, definitions, and functionality associated with HP Systems Insight Manager. See the *HP SIM 5.3 Installation and Configuration Guide for HP-UX* at <http://h18013.www1.hp.com/products/servers/management/hpsim/infolibrary.html>.
- **HP Systems Insight Manager Installation and Configuration Guide for Linux** This document provides information about installing and getting started using HP Systems Insight Manager on Linux and includes an introduction to basic concepts, definitions, and functionality associated with HP Systems Insight Manager. See the *HP SIM 5.3 Installation and Configuration Guide for Linux* at <http://h18013.www1.hp.com/products/servers/management/hpsim/infolibrary.html>.
- **HP Systems Insight Manager Help System** The help system provides a complete set of documentation for using, maintaining, and troubleshooting HP Systems Insight Manager. To view a PDF of the help system, see the *HP Systems Insight Manager 5.3 Technical Reference Guide* at <http://h18013.www1.hp.com/products/servers/management/hpsim/infolibrary.html>.

For additional information including general product information, white papers, and support information, see <http://www.hp.com/go/hpsim/>.