

# HP Systems Insight Manager 5.2 Release Notes



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Hewlett-Packard Company  
HP-UX Learning Products  
3404 East Harmony Road  
Fort Collins, Colorado 80528-9599

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## Typographic Conventions

We use the following typographical conventions.

*audit*(5) HP-UX manpage. *audit* is the name and 5 is the section in the *HP-UX Reference*. On the web and on the Instant Information DVD, it may be a hot link to the manpage itself. From the HP-UX command line, you can enter " man audit " or " man 5 audit " to view the manpage. See *man*(1).

*Book Title* Title of a book. On the web and on the Instant Information DVD, it may 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 may 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 may be repeated an arbitrary number of times.
	Separates items in a list of choices.

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# 1 Overview

HP Systems Insight Manager (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, and reporting. The core HP SIM software uses Web Based Enterprise Management (WBEM) to deliver the essential capabilities required to manage all HP server platforms.

HP SIM can be extended to provide systems management with plug-ins for HP clients, storage, power, and printer products. Plug-in applications for workload management, capacity management, virtual machine (VM) management, and partition management using HP Integrity Essentials enable you to choose the value-added software that delivers complete lifecycle management for your hardware assets.

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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 Short Message Service (SMS) gateway, and enables automatic execution of scripts or event forwarding to enterprise platforms, such as [HP OpenView Network Node Manager](#) or [HP OpenView Operations](#).



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**NOTE:** Pager support is only for Windows-based Central Management Server (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 command line interface (CLI) to make it easy to incorporate HP SIM into your existing management processes.
- **Web-Based Enterprise Management (WBEM) indications for HP-UX, Linux, and Storage Management Initiative Specification (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 Secure Shell (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 Secure Sockets Layer (SSL) and Secure Shell (SSH) to encrypt management communications.
- **Configure or Repair Agents** This feature enables you to repair credentials for SNMP settings, 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.** HP SIM can be installed, 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 Central Management Server (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. Access to these integrated tools is governed by role-based security.

## 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. Data that can be collected includes information on enclosures, cabinets, cells, memory, Integrity virtual machines, non-Integrity virtual machines, virtual partitions (vPars), and 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. This functionality assists IT staff in pinpointing configuration issues that can contribute to system instability. Snapshot comparisons can also be used to save a picture of a standard configuration for comparisons to other systems.

## Partner applications

- **HP Version Control** HP SIM automatically 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 Service Essentials Remote Support Pack** HP SIM includes a new HP Service Essentials Remote Support Pack plug-in. This plug-in leverages elements of the HP Service Essentials Remote Support Pack (Remote Support Pack) technology and provides integrated HP SIM and Remote Support Pack capability. This capability deploys with your Windows-based Central Management Server (CMS) and includes the following:
  - 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
  - CMS heartbeat polling, monitored by HP, allowing early notification to your IT team that event submission to HP is not working
- **Web-Based Enterprise Services and Open Service Event Manager** These analysis tools notify you when a significant system event will occur or has already occurred. Web-Based Enterprise Services (WEBES) System Event Analyzer (SEA) and Open Service Event Manager (OSEM) are used as part of the Remote Support Pack service offering and as standalone tools for HP Services customers. WEBES and OSEM generate service notifications to HP SIM through a specific SNMP trap type if analysis determines there are serviceable events. If the Remote Support Pack is installed, the service notification provided by WEBES and OSEM also provides status about the remote support incident.
- **System Management Homepage** The System Management Homepage provides a consolidated interface for single-system management. By aggregating the data from HP web-based agents and management utilities, the System Management Homepage provides a common, easy-to-use interface

for displaying 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 (MSA) shared storage. The HP Performance Management Pack (PMP) tools that are available in HP SIM include Online Analysis, Offline Analysis, CSV File Generator Report, System Summary Report, Static Analysis Report, Configuration, Licensing, and Manual Log Purge. The PMP tools operate in conjunction with HP SIM. No software installation on the monitored servers is required, other than the Insight Management Agents. PMP 4.7 includes the following features:
  - Support for HP SIM 5.x (PMP 4.3 does not support HP SIM 4.x.)
  - Support for Oracle® databases (local or remote)

The following servers are supported on 4.3:

- ProLiant BL465c G1 servers
- ProLiant BL68c G1 servers
- ProLiant BL25p G2 servers
- ProLiant BL45p G2 VR1 servers
- ProLiant DL320 G5 servers
- ProLiant DL360 G5 servers
- ProLiant DL365 servers
- ProLiant DL585 G2 servers
- ProLiant ML310 G4 servers
- Integrity rx7620 servers
- Integrity rx7640 servers
- Integrity rx8620 servers
- Integrity rx8640 servers
- Integrity Superdome servers

**Note:** The Integrity Superdome includes support for the Intel Itanium 2 Montecito, M9M, and MX2 processors.

- Ultra 160 SCSI Adapter
- HP NC370i NIC
- rx8620 Gigabit LoM (5701) NIC
- rx8640 Gigabit LoM (5703) NIC
- LAN/SCSI Combo Card (Castor, AB290A)

The following new operating systems are supported on PMP 4.3:

- VMware ESX 2.5.2
- VMware ESX 2.5.3
- VMware ESX 2.5.4
- VMware ESX 3.0

Go to <http://h18013.www1.hp.com/products/servers/proliantessentials/valuepack/pmp/index.html> for more information about HP Performance Management Pack.

- **HP ProLiant Essentials Vulnerability and Patch Management Pack** HP ProLiant Essentials 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 about installation and setup, see the *HP ProLiant Essentials Vulnerability and Patch Management Pack Quick Setup Poster* and the *HP ProLiant Essentials Vulnerability and Patch Management Pack User Guide*, on the Management CD. For more information

about the HP ProLiant Essentials Vulnerability and Patch Management Pack, go to the *HP ProLiant Essentials Vulnerability and Patch Management Pack* at <http://www.hp.com/servers/proliantessentials/vpm>.

- **HP ProLiant Essentials Virtual Machine Management Pack** Virtual machine management capabilities integrated into HP SIM extend its capabilities to deliver unified management of an IT infrastructure consisting of both physical and virtual server resources, and simplify and consolidate the provisioning, management, and migration of all server resources from one central interface.  
  
The virtual machine management capabilities of HP SIM are enabled by the integration of the HP ProLiant Essentials Virtual Machine Management Pack and the HP Server Migration Pack - Universal Edition.
  - **HP ProLiant Essentials Virtual Machine Management Pack** The Virtual Machine Management Pack provides central management and control for the Microsoft's Virtual Server and the VMware's GSX Server or ESX Server 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 Systems Insight Manager** 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://h18004.www1.hp.com/products/servers/Integrity-bl/p-class/60p/index.html> for more information.
- **HP ProLiant Essentials Rapid Deployment Pack** The HP ProLiant Essentials Rapid Deployment Pack (RDP) is a multiserver deployment tool that enables IT administrators to easily deploy large numbers of servers in an unattended, automated fashion. The RDP is installed separately from HP SIM. It requires a license for each server managed. You must register your RDP product to purchase licenses or obtain a 10-node 30-day license before installing RDP (a 10-node 7-day evaluation license is built into the software). The RDP is installed from its own DVD. See <http://www.hp.com/servers/rdp> for information about RDP including a link to obtain evaluation licenses or register your product. See the RDP 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 datacenter level. It extends the capacity of datacenters by enabling the user to control the amount of power and cooling required for ProLiant servers. Built on ProLiant Power Regulator technology, 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?

## Installation

- Replaced MSDE in HP SIM Windows installation with SQL 2005 Express Edition with Service Pack 2.
- Added Central Management Server (CMS) and managed system support for Windows Server 2008 and Windows Vista.
- Streamlined installation by removing HP ProLiant Essentials Vulnerability and Patch Management Pack and HP Performance Management Pack from the default installation set
- Added support for silent installation for Oracle database
- Added Central Management Server (CMS) and managed system support for Red Hat Enterprise Linux 5 for x86 with Update 1 and SUSE Linux Enterprise Server 10 for x86 with Service Pack 1
- Automatic installation of HP SIM is now supported for x64 bit operating systems
- Replaced Postgres SQL with HPSMDB

## First Time Wizard

- Streamlined the application by enabling you to specify the operating systems that are managed in your environment, resulting in collections, reports, and tools for the selected operating systems only.
- Ability to automatically configure managed systems as discovery runs.
- Ability to test email configurations as e-mail settings are configured.

## Security

Multiple names in SSL web server certificate to alleviate name mismatch errors by the browser when using different names for the system.

## Users and authorizations

HP SIM allows for any user to be configured to have access to features like discovery, view audit logs, automatic event handling and more. In addition, there is a single setting to enable users to add or update security settings on HP SIM.

## Discovery and identification

- Simple or Fully Qualified Domain Names (FQDN) host names can be included in ping inclusion and exclusion ranges for discovery.
- Discovering and identifying the HP Insight Management WBEM Providers for Windows Server 2003/2008 for getting a rich set of hardware information for HP ProLiant hardware.
- Ability to discover all nPars in a complex, including those not currently active, from information gathered in one nPar.
- Ability to discover all vPars in a vparmonitor, including those not currently active, from information gathered in one vPar.

## Setting up managed systems

HP SIM features have been enhanced to make setting up managed systems an easier task.

- The Configure or Repair Agents feature now includes the following enhancements:
  - HP Insight Management Agents can be installed on ProLiant servers running Windows using the Initial HP ProLiant Support Pack task from a Windows Central Management Server (CMS).
  - SNMP traps can be sent from the managed systems to check the trap reception in HP SIM CMS.
  - WBEM indications can be sent from the managed systems that support WBEM providers and verifies reception in the HP SIM CMS running HP-UX.
  - Configure Single Sign on to managed systems.

- Can install and configure HP Version Control Agent and Secure Shell (SSH) from Configure or Repair Agents.
- Can install and configure WBEM providers from Configure or Repair Agents.
- The new Manage Communications feature enables you to troubleshoot communication problems between the CMS and the managed systems.

## Data Collection

- You can now collect and display instant capacity (iCAP) properties for Cells and Processors, for an iCAP enabled Complex, using Web based enterprise management (WBEM) protocol.
- On ISS HP Insight Management WBEM Providers for Windows Server 2003/2008 enabled managed nodes, data collection will give preference to HP Insight Management WBEM Providers for Windows Server 2003/2008 over WMI/SNMP for certain attributes.



**NOTE:** Currently, there is limited SNMP support in HP Insight Management WBEM Providers for Windows Server 2003/2008. When data collection prefers over to HP Insight Management WBEM Providers for Windows Server 2003/2008, a few of the items in the report that were collected from SNMP earlier would be blank.

**NOTE:** The iCAP provider is available on HP-UX 11i v3 (11.31), HP-UX 11i v2 (11.23) and HP-UX 11i v1 (11.11) which can only be installed on HP 9000 and Integrity servers.

- Added Horizontal discovery of node partitions (nPars) for cell-based Integrity servers or HP 9000 servers.
- Added Horizontal discovery of virtual partitions (vPars) for cell-based HP-UX 9000 servers or procedure-based HP-UX 9000 servers.
- Added Data collection of software/firmware (sw/fw) baseline name and version for systems that have a Version Control Agent (VCA) installed.

## Automatic event handling

- Support for new ProLiant WBEM indications Therefore, any event collection containing event type criteria having an SNMP trap that correlates to a WBEM indication will be upgraded and the WBEM indications will be selected.
- User pager information can be specified when creating or managing automatic event handling tasks.

## License Manager

- Extended support for SSH and CLP to include iLO 2 specific extensions.
- Added license transfer with iLO 2 using the License Manager menu functions in the Graphical User Interface (GUI).
- Added a Graphical User Interface (GUI) for input of SSH credentials.

## Reporting

- New HP Version Control Agent report that displays baseline information.
- Added data collection of software/firmware (sw/fw) baseline name and version for systems that have a Version Control Agent (VCA) installed.

## Navigation

- The tool search feature provides a quick way to find a tool by entering text (often less than a single word) that is used to search and filter, textually, based on tool names, tool locations in the HP SIM cascading menu structure, and tool descriptions.
- The **Quick Launch** menu provides single click access to frequently used tools and can be customized to select which tools are displayed in the menu.

- **Go back to** link that returns you to the last viewed collection or tool, including the **System Page**.
- You can maximize the workspace so that the **System Status overview, Search, System and Event Collections** panels, and the HP SIM menus are collapsed, and the banner is minimized. You can also restore the workspace to the default size with a single click.

## Task Wizard

- Improved performance.
- Added ability to select target systems using a search tool.

## Miscellaneous features

- You can search software and firmware installed on HP-UX systems.
- Property pages are implemented for HP Insight Management WBEM Providers for Windows Server 2003/2008 and for OpenVMS providers. HP-UX Property pages have been updated to reflect new HP-UX providers.
- Support on **Property** pages for HP-UX 11i.x, Linux Itanium Processor Family (IPF), Windows Server 2003 and 2008, Windows XP, Windows Vista, Windows Longhorn, and OpenVMS.

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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. This guide includes an introduction to basic concepts, definitions, and functionality associated with HP Systems Insight Manager. Refer to the *HP SIM 5.2 Installation Guide* 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. This guide includes an introduction to basic concepts, definitions, and functionality associated with HP Systems Insight Manager. Refer to the *HP SIM 5.2 Installation Guide* 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. This guide includes an introduction to basic concepts, definitions, and functionality associated with HP Systems Insight Manager. Refer to the *HP SIM 5.2 Installation Guide* 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, refer to the *HP Systems Insight Manager 5.2 User Guide* at <http://h18013.www1.hp.com/products/servers/management/hpsim/infolibrary.html>.

Additional information including general product information, white papers, and support information is available at <http://www.hp.com/go/hpsim/>.