

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.

Most IT organizations understand that ongoing administration and maintenance of existing infrastructure consumes the lion's share of their IT budgets, while hardware and software acquisition costs only account for about 20% of overall expenditures. How can you reduce your IT expenses? By streamlining your processes and reducing complexity. With HP Systems Insight Manager and optional Essentials software plug-ins, HP delivers a heterogeneous multi-OS server and storage management solution that enables you to holistically monitor and control your environment which improves operational efficiency and reduces costs.

HP Systems Insight Manager is the foundation for HP's Insight Control server management strategy.

Unified infrastructure management from HP:

- Enhances your ability to troubleshoot complex problems that span server and storage infrastructure
- Provides a single source for server and storage asset information
- Provides a comprehensive selection of ProLiant Essentials, Integrity Essentials and Storage Essentials value-added plug-ins for extended management HP ProLiant, Integrity, and StorageWorks platforms.
- Enables effective cross-training across domains of expertise
- Allows your IT organization to focus less on daily maintenance and more on meeting future business needs

What's New

Security

- IPv6 Level A (read IPv6 addresses using IPv4 network) Read IPv6 addresses of a NIC using the IPv4 network (if no IPv4 present, HP SIM will not read IPv6 address). IPv6 Providers are available on the following machines:
 - Windows WMI Provider
 - Windows/Linux (HP ProLiant) - SNMP support from SmartStart8.05
 - HP UX- IPProvide from HP WBEM Services 2.7 release
 - No IPv6 support from npar for now
- Code Signing
 - Enable Privilege Elevation as needed. Allows users to login as unprivileged users and elevate privileges as needed for running specific tools

Discovery and identification

- 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

Overview

- configured in HP SIM
- Ease of Use
- 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

Extended functionality

- Data collection and reporting for embedded hypervisors, HP-UX kernel parameters
- Run distributed tasks on AIX and Solaris
- Additional support for NonStop systems, OpenVMS Systems

New Registration Process

- New registration Process leverages OCS

Data Collection:

- Support for display of IPv6 addresses. HP SIM can display IPv6 addresses on the System page and data collection reports for the systems that are IPv6 enabled.

License Manager

- License usability enhancements. Usability enhancements made to License Manager including:
 - Easier view of available licenses
 - Enhanced licensing information gathering
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Key Benefits

HP Systems Insight Manager 4 was the first Infrastructure Management tool to provide unified management of HP's ProLiant, Integrity and PA-RISC servers across Windows, HP-UX and LINUX. HP SIM 5.0 was again the first to unify the management server and SMI-S compliant storage devices including SAN and NAS. In yet another first, HP SIM 5.2 begins the seamless unification of entitlement, and service and support into a unified infrastructure management tool.

HP SIM also serves as a central access point for ProLiant Essentials, Integrity Essentials, and Storage Essentials software options that deliver targeted functionality for these platforms. Now integrating HP Service Essentials Remote Support Pack (based on HJP Instant Support Enterprise Edition).

For more information regarding HP Systems Insight Manager, visit: <http://www.hp.com/go/hpsim>

Standard Features

Product 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.
- **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.
- **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

Standard Features

Partner applications

- for comparisons to other systems.
- **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.:
 - HP ProLiant BL465c servers
 - HP ProLiant BL68c servers
 - HP ProLiant BL25p G2 servers
 - HP ProLiant BL45p G2 VR1 servers
 - HP ProLiant DL320 G5 servers
 - HP ProLiant DL360 G5 servers
 - HP ProLiant DL365 servers

Standard Features

- HP ProLiant DL585 G2 servers
- HP ProLiant ML310 G4 servers
- HP Integrity rx7620 servers
- HP Integrity rx7640 servers
- HP Integrity rx8620 servers
- HP Integrity rx8640 servers
- HP 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

Standard Features

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/blades/components/c-class-integrity-bladeservers.html> for more information.
- **HP ProLiant Essentials Rapid Deployment Pack - Windows Edition.** 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.

NOTE: When upgrading to HP SIM 5.3, it is necessary to also upgrade Server Management Pack(SMP), Virtual Machine Management Pack (VMM), Vulnerability and Patch Management (VPM), Performance Management Pack (PMP), Virtual Connect Enterprise Manager (VCEM), Insight Power Manager (IPM), plug-into their latest versions.

If these plug-ins are not upgraded, SIM will warn users that they will be left in an incompatible state. It is recommended that in order to avoid these incompatibilities, users use the Insight Control installer to install the above products.

Technical Specifications

Software Support

HP Care Pack offering combines comprehensive ProLiant Essentials and Insight Control Environment software suites support with convenient access to ProLiant Essentials and Insight Control Environment management software suite updates.

Expert support for performance, availability, and productivity optimization
ProLiant Essentials and Insight Control Environment management software suites technical support brings timely assistance and trustworthy advice on issues such as product features and use, problem diagnosis and resolution, and software defect identification.

Service highlights include:

- Ready access to technical resources - Connect with experienced HP IT Response Center engineers via telephone, electronic communication, or fax for help with ProLiant Essentials and Insight Control Environment management software suite implementation or operations problems.
- Problem analysis and resolution - HP Services provides corrective support to resolve identifiable and reproducible ProLiant Essentials and Insight Control Environment management software suite product problems, and to help you identify problems that are difficult to reproduce. You can also receive help with trouble-shooting and setting configuration parameters.
- Software features and operational support - HP provides information on the latest ProLiant Essentials and Insight Control Environment management software suite features and known problems and solutions, plus operational advice and assistance.
- Escalation management - Established escalation procedures enlist specialized expertise from HP and selected third-parties.
- Installation advisory - Advisory support is available for help with installing and updating standalone or networked ProLiant Essentials and Insight Control Environment management software suite products.
- Choice of coverage windows - Service is available 13x5 Monday-Friday or 24x7.

Productivity-enhancing software updates

This multifaceted service also brings updated ProLiant Essentials and Insight Control Environment management software suites, patches, and technical manuals as they become available. And it includes licensing to use and copy the new updates. Subscription-based purchasing gives you substantial savings vs. the cost of individual updates.

Service highlights include:

- Software updates - Complete ProLiant Essentials and Insight Control Environment management software suite product and documentation updates are made available to your system manager.
- Software licensing - You receive a license to use and copy updates for all systems covered by your original software license.
- Electronic software information - Access HP's electronic support facility for ProLiant Essentials and Insight Control Environment management software suites software patches, a symptom-solution database, product descriptions, specifications, technical literature, and more.

This service gives the opportunity to obtain software updates faster and more efficiently with http://www.hp.com/software/releases/releases-media2/SUM/How_to_be_a_SUM_customer.htm
Software Update Manager provides online access to view support entitlements, manage release notification profile, and immediately download new updates.

Care Pack services for HP ProLiant Infrastructure Management Software Operating Environment provides support for the following products.

Technical Specifications

NOTE: Supported products may change over time, the list of products:

- HP Insight Control Environment
- HP Insight Control Environment for BladeSystem
- Systems Insight Manager
- iLO Advanced Pack
- iLO Select Pack
- Rapid Deployment Pack
- Intelligent Networking Pack
- Virtual Machine Management Pack
- Insight Power Manager
- Server Migration Pack - Universal Edition
- HP Insight Control Linux Edition
- iLO Power Management Pack
- iLO Power Management Pack for BladeSystem
- SmartStart
- SmartStart Scripting ToolKit

Minimum Hardware and Software Requirements for HP Systems Insight Manager

HP SIM can run in a VM (Virtual Machine). HP SIM is an i/o intensive application at times (when it is doing data collection/inventory, when doing discovery, when doing large scale deployments) and as such isn't recommended above 750-1000 nodes being managed if you want to run it in a VM.

Windows Central Management Server

NOTE: This section contains the minimum requirements for the Windows operating system that is used for the CMS

Operating system	Hardware	Software	Networking
Microsoft Windows Server 2008 Standard and Enterprise for x86 and x64 (32-bit mode)	Any HP ProLiant x86 system with the following configuration: Minimum: 1.5-GHz processor with 1 GB RAM	Database software: SQL Server 2005 Express Edition with Service Pack 2	Static or dynamic host name TCP/IP
Microsoft Windows Server(TM) 2003 Standard and Enterprise for x86 and x64 (32-bit mode) with Service Pack 2	500 MB free disk space recommended Recommended: 2.4-GHz processor with 1.5 GB RAM	NOTE: SQL Server 2005 Express Edition requires .NET 2.0 Framework installed. NOTE: SQL Server 2005 Express Edition supports 500 systems and 5,000 events.	SNMP
Microsoft Windows Vista with Service Pack 1	NOTE: If Microsoft SQL Server is installed on the CMS, an additional 500 MB of RAM should be installed.	Microsoft SQL Server 2005 with Service Pack 2 (remote or local)	
Microsoft Windows Server 2003 R2 Enterprise for x86 and x64 (32-bit mode) with Service Pack 2	NOTE: HP Netserver platforms can be used for the CMS as long as the Instant Tootools software is not installed and all other requirements are met.	NOTE: Microsoft SQL Server 2005 supports 5,000 systems and 50,000 events.	
Microsoft Windows 2003 SMB for x86 with Service Pack 2		Microsoft SQL Server 2008 with Service Pack 2 (remote or local)	
Microsoft Windows XP Professional with Service Pack 2		Oracle 9i Standard or Enterprise Oracle 10g 10.2.0.1 or later	
Microsoft Windows XP Professional with Service Pack 3		Browser software:	

Technical Specifications

VMware ESX v3.0.01 or later running guest on x86

VMWare ESX v3.5 - Hypervisor running guest Windows 32

VMWare ESX v3i - Hypervisor running guest Windows 32

Microsoft Hyper-V running guest Windows 2003 Standard and Enterprise (x86)

Microsoft Hyper-V running guest Windows 2008 Standard and Enterprise (x86)

The Central Management Server supports Microsoft Windows 2000 and 2003 International Server - French, German, Italian, Spanish, and Japanese (latest service pack available for each language).

Microsoft Internet Explorer 7.0

Microsoft Internet Explorer 6.0 with Service Pack 2

Firefox 2.0.0.16

Firefox 3.0.1

HP-UX Central Management Server

NOTE: This section contains the requirements for the operating system that is used for the HP-UX CMS.

Operating system	Hardware	Software	Networking
HP-UX 11i v3 (IA/PA)	Any HP system (PA-RISC 2.0 or Integrity) server with a minimum of 2 GB RAM (3 GB for HP-UX 11i v3)	OpenSSH installed HP WBEM Services for HP-UX, installed and active (Optional) Oracle 9i release 2 Oracle 10g version 10.2.0.1 or later	Properly configured and working Domain Name System
HP-UX 11i v2 Update 2 (IA/PA)	Any HP system with Oracle installed with a minimum of 4 GB RAM	NOTE: Oracle supports 5,000 systems and 50,000 events. Oracle 10g running on Microsoft Windows Vista HP SIM private version of PostgreSQL (hpsmdb) NOTE: hpsmdb supports 500 systems and 5,000 events.	
HP-UX 11i		Java Out-of-Box installed (shipped as optional selectable software as part of the operating system) Firefox 2.0.0.12	
Integrity Virtual Machine running guest with HP-UX 11i v2	Free disk space 20 MB for CMS (/)		
Integrity Virtual Machine running guest with HP-UX 11i v3	600 MB for the CMS and DTF agent (/opt)		
NOTE: The HP SIM CMS cannot run on an HPVM host.	500 MB minimum recommended for data (/var/opt)		
NOTE: The required patches must be installed for each of these operating systems	Swap space 3 GB minimum total swap space for PA-RISC systems 4 GB minimum total swap space		

Technical Specifications

for Intel® Itanium®-based systems

Linux Central Management Server

NOTE: This section contains the requirements for the Linux operating system that is used for the CMS.

Operating system	Hardware	Software	Networking
Red Hat Enterprise Linux 5 for x86 with Update 1, AMD64 and EM64T with Update 2	Any HP IA-32 system with the following configuration: Minimum: 1.5-GHz processor and 1 GB RAM Recommended: 2.4-GHz processor and 1.5 GB RAM	OpenSSH version 1.0 or later ProLiant Support Pack for Linux 7.00 or later (Optional) Oracle 9i release 2	Static or dynamic host name resolution NOTE: On Linux, look for the entry 127.0.0.1 local host, the local system IP address, and the system name in the /etc/hosts file. If they are not present, add the entries manually.
Red Hat Enterprise Linux 5 for x86 with Update 1, AMD64 and EM64T with Update 1		Oracle 10g version 10.2.0.1 or later	SNMP
Red Hat Enterprise Linux 4 x86 with Update 6, AMD64 and EM64T with Update 7	Any HP system with Oracle 9i installed minimum 4 GB RAM	NOTE: Oracle supports 5,000 systems and 50,000 events.	
Red Hat Enterprise Linux 4 x86 with Update 6, AMD64 and EM64T with Update 6	Free disk space 2 MB for CMS (/) 400 MB for the CMS and DTF agent (/opt) 500 MB minimum recommended for data (/var/opt)	Oracle 10g running on Microsoft Windows Vista	
SUSE Linux Enterprise Server 10 for x86 with Service Pack 1, AMD64 and EM64T with Service Pack 2	Swap space 3 GB minimum total swap space for Itanium-based systems	HP SIM private version of PostgreSQL (hpsmdb) NOTE: hpsmdb supports 500 systems and 5,000 events.	
SUSE Linux Enterprise Server 10 for x86 with Service Pack 1, AMD64 and EM64T with Service Pack 1		For SUSE Linux Enterprise Server 9: MIT Kerberos krb5-1.4-16 Firefox 2.0.0.12	
SUSE Linux Server 9 for x86 with Service Pack 4, AMD64 and Intel EM64T with Service Pack 4			

Operating Systems

HP SIM can provide some level of manageability for non HP systems (including servers, storage, printers, routers, etc) as follows:

- For devices that are using Simple Network Management Protocol (SNMP),
- HP SIM can provide Status polling (up/down), Device identification and events collection (SNMP traps). In order to use SNMP traps for event collection, users must compile and register the related MIBs
- For devices that are using WBEM/WMI HP SIM provides some Data collection.
- For HTTP/HTTPS devices it provides Web server identification and link population.

Windows managed systems

- Microsoft Windows Server 2008 Standard or Enterprise for x86 and x64 (32-bit mode)
- Microsoft Windows Server 2008 Standard or Enterprise Core for x86 and x64 (32-bit mode)
- Microsoft Windows Server 2008 Datacenter, Datacenter Core, Web Edition, and for Itanium-based systems
- Microsoft Windows Server(TM) 2003 R2 Standard or Enterprise for x86 with Service Pack 2 and x64

Technical Specifications

- Microsoft Windows Server 2003 R2 DataCenter with Service Pack 1 or later
- Microsoft Windows 2003 Standard with Service Pack 1 or later
- Microsoft Windows 2003 Standard for x64 with Service Pack 2
- Microsoft Windows 2003 Standard and Enterprise for x86 and x64 with Service Pack 2
- Microsoft Windows 2003 Web Edition for x86 with Service Pack 1 or later
- Microsoft Windows 2003 Small-Medium Business for x86 with Service Pack 1 or later
- Microsoft Windows 2003 SMB Business for x86
- Microsoft Windows 2000 Datacenter for x86
- Microsoft Windows 2000 Server with Service Pack 1 or later for x86
- Microsoft Windows 2000 Server and Advanced Server with Service Pack 4 for x86
- Microsoft Windows NT4 with Service Pack 6
- Microsoft Windows Vista Client
- Microsoft Windows XP with Service Pack 1 or later
- Microsoft Windows Virtual Server
- Microsoft Windows Virtual Server 2005 Release 2 with SP1
- VMware ESX v3.0.01 or later running guest on x86
- Microsoft Hyper-V running guest Windows 2003 Standard and Enterprise (x86)
- Microsoft Hyper-V running guest Windows 2008 Standard and Enterprise (x86)
- Integrity Virtual Machine for Windows running guest on Windows
- VMware GSX

HP-UX managed systems

- HP-UX 11i v3 (IA/PA)
- HP-UX 11i v2 Update 2 (IA/PA)
- HP-UX 11i v2 (IA only)
- HP-UX 11i
- Integrity Virtual Machine HP-UX running guest on HP-UX 11i v2 and v3

Linux managed systems

- Oracle Enterprise Linux x86
- Oracle Enterprise Linux, AMD64 and EM64T
- Red Hat Linux 9
- Red Hat Linux 8
- Red Hat Linux 7.3 Workstation
- Red Hat Enterprise Linux 5 for x86 with Update 1, AMD64 and EM64T with Update 1, and Itanium-based systems
- Red Hat Enterprise Linux 4 x86 with Update 6, AMD64 and EM64T with Update 6, and Itanium-based systems
- Red Hat Enterprise Linux 3 x86 with Update 9, AMD64 and EM64T with Update 9, and Itanium-based systems
- SUSE Linux Enterprise Server 10 for x86, AMD64 and EM64T with Service Pack 2, and Itanium-based systems
- SUSE Linux Enterprise Server 10 for x86, AMD64 and EM64T with Service Pack 1, and Itanium-based systems
- SUSE Linux Enterprise Server 9 for x86 with Service Pack 4, AMD64 and EM64T with Service Pack 4, and Itanium-based systems
- SUSE Linux Enterprise Server 8 for United Linux 1.0 and Itanium-based systems
- Integrity Virtual Machine Linux running guest on Linux
- VMware GSX
- VMware ESX 3.5
- XEN on Redhat Enterprise Linux
- XEN on SLES

NOTE: Operating systems with only IPX enabled are not identified by an HP-UX or Linux Central Management Server.

Novell managed systems

- Netware 6.5
- Netware 6.0

SUN managed systems



Technical Specifications

- Solaris 10 Intel® Platform
- Solaris 9 Intel® Platform
- Solaris 9 Sparc
- Solaris 10 Sparc

IBM managed systems

- AIX

HP managed systems

- Tru64
- NSK
- OpenVMS

Hardware Support

Windows	Any HP x86 system Any HP x64 system
HP-UX	Any HP PA-RISC system Any HP Itanium®-based system
Linux	Any HP x86 system Any HP x64 system Any HP Itanium-based system

Software Support

This software is not required, but if you want improved management capabilities, HP recommends that you install these components.

Windows	OpenSSH Services 4.3p2 ProLiant Support Pack 6.30 or later HP Insight Management WBEM Providers (for HP DL, ML and BL servers only) NOTE: For additional information please refer to the HP Insight Management WBEM Providers web page at: <u>http://www.hp.com/go/HPwbem</u> WBEM/WMI SNMP (recommended as an alternative to WBEM) WBEM (for Integrity systems only)
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This software is not required, but if you want improved HP SIM capabilities, HP recommends that you install these components, which can be purchased or downloaded from many software suppliers:

Linux	SSH Client X Window Server SSH ProLiant Support Pack for Linux 7.0 or later SNMP (recommended as an alternative to WBEM)
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This software is not required, but for improved HP SIM capabilities, HP recommends that you install these components, which can be purchased or downloaded from many software suppliers:

SSH Client
X Window Server

Technical Specifications

Minimum Requirements for Version Control Repository Manager

Hardware	HP ProLiant Servers, Evo or Deskpro Desktops or Professional Workstations with 400 MHz Pentium® II Processor or greater
System Memory	Base operating system recommended memory configuration
Disk Space	15 MB for the Version Control Repository Manager
Server Operating System	Windows 2000 Service Pack 4 - Professional, Server, Advanced Server Windows Server 2003 Service Pack 1 - Standard Edition, Enterprise Edition Windows XP Professional SP2 or greater
Server Software	TCP/IP installed

Required Web Browsers

Windows	Microsoft Internet Explorer 6 with Service Pack 2 or later Firefox 2.0.0.16 Firefox 3.0.1 NOTE: For all Internet Explorer browsers, you must have the SSL 3.0 or TLS 1.0 browser security options enabled for HP SIM to work properly.
HP-UX	Firefox 2.0.0.12
Linux	Firefox 2.0.0.12 Firefox 3.0.1

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