

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.

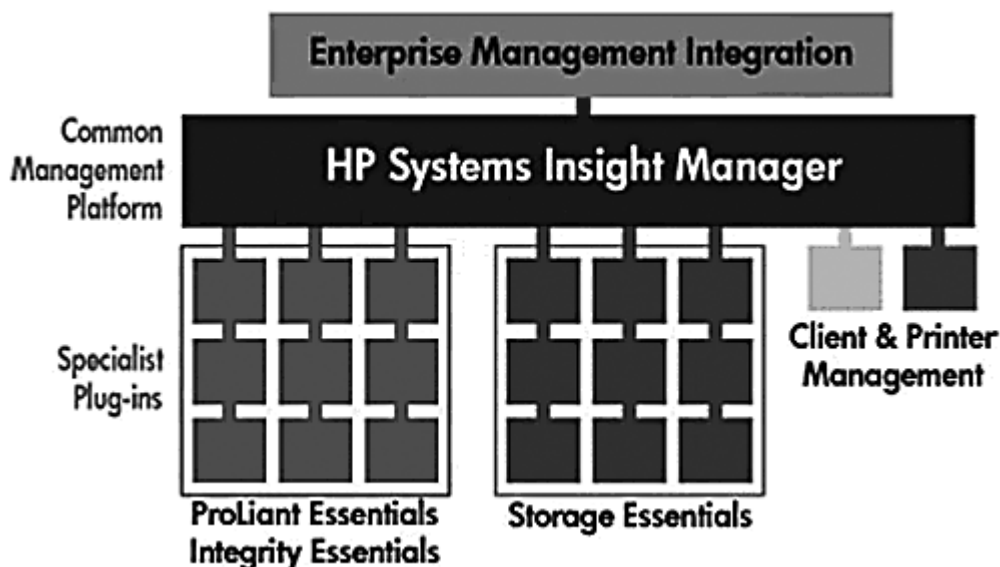
HP SIM can be extended to provide systems management with plug-ins for HP clients, storage, power, and printer products. Plug-in applications for workload management, capacity management, virtual machine (VM) management, and partition management using HP Integrity Essentials enable you to choose the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



Overview

What's New

Installation

- SIM can now discover VMware ESX and Citrix XenServer virtual machines within the network and associate VMware virtual machines to the servers on which they run
- 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 Virtual Machine Management Pack and HP Performance Management Pack from the default installation set
- Added support for silent installation for Oracle database

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 having 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



Overview

- 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.

Overview

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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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 (SML-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 4.3:
 - 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/servers/Integrity-bl/p-class/60p/index.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.

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 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 resolution 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			
Microsoft Windows Server 2003 R2 Enterprise for x86 and x64 (32-bit mode) with Service Pack 2	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) NOTE: Microsoft SQL Server 2005 supports 5,000 systems and 50,000 events.	
Microsoft Windows 2003 SMB for x86 with Service Pack 2 Microsoft Windows XP Professional with Service Pack 2	NOTE: HP Netserver platforms can be used for the CMS as long as the Instant Toptools software is not installed and all other requirements are met.	Microsoft SQL Server 2000, Standard or Enterprise Edition with Service Pack 4 (remote or local)	
VMware ESX v3.0.01 or later running guest on x86			
The Central Management Server supports Microsoft Windows 2000 and 2003 International Server - French, German, Italian,		Oracle 9i Standard or Enterprise Oracle 10g Browser software:	

Technical Specifications

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 1.5.0.12
 Firefox 2.0.0.4

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	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)	
HP-UX 11i		NOTE: hpsmdb supports 500 systems and 5,000 events. Java Out-of-Box installed (shipped as optional selectable software as part of the operating system) Firefox 1.5.0.12 Firefox 2.0.0.4	
Integrity Virtual Machine running guest with HP-UX 11i v2			
NOTE: The HP SIM CMS cannot run on an HPVM host.	Free disk space 20 MB for CMS (/)		
NOTE: The required patches must be installed for each of these operating systems	600 MB for the CMS and DTF agent (/opt) 500 MB minimum recommended for data (/var/opt)		
	Swap space 3 GB minimum total swap space for PA-RISC systems 4 GB minimum total swap space for Intel® Itanium®-based systems		

Technical Specifications

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 1	Any HP IA-32 system with the following configuration:	OpenSSH version 1.0 or later	Static or dynamic host name resolution
Red Hat Enterprise Linux 4 x86 with Update 6, AMD64 and EM64T with Update 6	Minimum: 1.5-GHz processor and 1 GB RAM Recommended: 2.4-GHz processor and 1.5 GB RAM	ProLiant Support Pack for Linux 7.00 or later (Optional) Oracle 9i release 2 Oracle 10g	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.
SUSE Linux Enterprise Server 10 for x86 with Service Pack 1, AMD64 and EM64T with Service Pack 1	Any HP system with Oracle 9i installed minimum 4 GB RAM	NOTE: Oracle supports 5,000 systems and 50,000 events.	SNMP
SUSE Linux Server 9 for x86 with Service Pack 4, AMD64 and Intel EM64T with Service Pack 4	Free disk space 2 MB for CMS (/) 400 MB for the CMS and DTF agent (/opt) 500 MB minimum recommended for data (/var/opt) Swap space 3 GB minimum total swap space for Itanium-based systems	Oracle 10g running on Microsoft Windows Vista HP SIM private version of PostgreSQL (hpsmdb) NOTE: hpsmdb supports 500 systems and 5,000 events.	
		For SUSE Linux Enterprise Server 9: MIT Kerberos krb5-1.4-16 Firefox 1.5.0.12 Firefox 2.0.0.4	

Operating Systems

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
- 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

Technical Specifications

- VMware ESX v3.0.01 or later running guest on 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

- 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 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

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

- Solaris 9 Intel® Platform
- Solaris 8 Intel® Platform

IBM managed systems

- OS/2

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

Technical Specifications

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: <http://www.hp.com/go/HPwbem>](http://www.hp.com/go/HPwbem)
WBEM/WMI

SNMP (recommended as an alternative to WBEM)

WBEM (for Integrity systems only)

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:

SSH Client

X Window Server

Linux

SSH

ProLiant Support Pack for Linux 7.0 or later

SNMP (recommended as an alternative to WBEM)

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

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 1 or later

Firefox 1.5.0.12

Firefox 2.0.0.4

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 1.5.0.12

Firefox 2.0.0.4

Linux

Firefox 1.5.0.12

Firefox 2.0.0.4

Technical Specifications

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