

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 client, server, storage, power, and printer products. HP Insight Control and Insight Dynamics build on and complement the HP SIM capabilities with deployment, migration, power and performance management, remote monitoring and control, integrated support for virtualization, infrastructure provisioning and optimization, and continuity of services protection. 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 Insight software, 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.

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 Insight Software suites, 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

HP SIM 6.0 introduces a series of exciting enhancements in all functionality areas

- **Scalability**
 - HP 6.0 will support monitoring of up to 5,000 servers
 - This includes OS instances such as physical servers and virtual machines, but other devices such as iLO and OA are in addition to this. For example, SIM 6.0 can manage up to 5,000 server blades plus 5,000 iLO management processors, 500 Onboard Administrator modules A, 500 switches, etc
 - Large environments require installation on x64 Windows x64 and up to 16 GB of memory.
- **Reporting**
 - HP SIM 6.0 introduces standard reporting that includes tables and graphs for easier access and view of the SIM data
 - It also provides a list of predefined reports like a list of servers or components with particular serial or part number (memory, disc, etc)
- **Migration**
 - A new tool will enable you to easily transfer your old settings
 - from an HP SIM 5.3 Central Management Server (CMS) to an HP SIM 6.0 CMS
 - from an HP SIM 6.0 32-bit CMS to a 64-bit HP SIM 6.0 CMS
 - from an HP SIM 6.0 CMS to another HP SIM 6.0 CMS
- **Firmware Updates**
 - HP SIM integrates with HP Systems Update Manager (HP SUM), and will provide agentless firmware update distribution

Overview

for HP Onboard Administrator (OA) and HP Virtual Connect (VC)

- **License Manager**
 - Many updates to License Manager for better scalability, performance and usability like
 - user can retrieve license keys from the supply chain via an XML file that can be imported into License Manager
 - no more cut and paste or manual enter of the key
 - a standalone utility to aggregate multiple XML license key files into one
- **Heterogeneous support**
 - HP SIM 6.0 provides IPMI support for the ProLiant 100 series and non-HP devices
 - Power-cycle, power-on, and power-off commands are supported
 - Data collection support for non-HP systems through Windows Management Instrumentation (WMI).
- **Insight Managed System Setup Wizard**
 - A SIM plug-in will provide a systematic and guided process to setting up managed nodes for Insight Control, ID-VSE, HP IO, HP IR, VSEMgrt, and their dependencies
- **Other changes**
 - The system page has been enhanced to provide easier access to status information

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 Network Node Manager software or HP Operations Manager software.
- **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

HP Insight Control suite 6.0

for comparisons to other systems.

Building on HP Systems Insight Manager, Insight Control suite delivers comprehensive management for ProLiant ML/DL and BladeSystem servers. For detailed information on HP Insight Control suite, go to: <http://www.hp.com/go/insightcontrol>.

- **Server deployment** automates the process of server configuration and software deployment, enabling users to quickly and easily adapt to changing business demands by bringing servers to production quicker.
- **Server migration** provides an automated, accurate and affordable way to migrate existing servers and their content to the latest HP BladeSystem or ProLiant server technologies or the latest virtualization platforms from VMware, Microsoft, and Citrix.
- **Virtual machine management** unifies the management of physical and virtual server resources and provides central management and control of VMware ESX, Microsoft Hyper-V, Citrix XenServer and Xen on Linux virtual machines.
- **Power management** helps IT administrators optimize usage of data center power and cooling resources. It accurately measures maximum and average power consumption and air temperature for select HP ProLiant and BladeSystem servers and allows IT administrators to establish power policies - including the option to establish power consumption limits - across customer defined groups of systems.
- **Performance management** detects, analyzes, and explains hardware configuration issues and performance bottlenecks on HP ProLiant servers, HP Integrity servers and MSA shared storage. It provides the tools you need to receive proactive notification of building bottleneck conditions, and to debug existing performance issues.
- **Remote management**, featuring HP iLO Advanced, provides for a no-install, comprehensive Lights-Out remote management capabilities for ProLiant servers. Everything you can do if you are physically at the server, you can do remotely with iLO Advanced, anytime, regardless of server or operating system condition. Capabilities include: graphical remote access (Virtual KVM), team collaboration, server boot and fault video footage, on-demand video record/playback, virtual media and virtual folders, just to name a few.

HP Insight Dynamics

HP Insight Dynamics analyzes and optimizes your adaptive infrastructure to accelerate complex IT projects and simplify daily operations. HP Insight Dynamics supports select HP ProLiant servers, HP Integrity servers, and non-HP servers (x86), and uses an integrated installer to deploy, configure and integrate HP management components as a single process. For detailed information on Insight Dynamics suites visit: <http://www.hp.com/go/insightdynamics>.

- **Capacity planning** for planning server capacity and power. Through the new Smart Solver technology, it collects and analyzes historical data across thousands of variables on virtual and physical resources and generates plans for consolidation and rebalancing of existing workloads.
- **Configuration management** visualizes physical and virtual infrastructure for ProLiant, BladeSystem, and Integrity servers and allows you -- through logical server management -- to manage physical and virtual servers in the same way. Logical servers are server profiles, which are easily created and freely moved across physical and virtual machines.
- **Infrastructure orchestration** enables rapid and consistent infrastructure provisioning. It uses a drag-and-drop visual design tool to easily design simple or complex infrastructure templates, comprised of physical and virtual servers, storage, and network resources. It automatically provisions from a library of templates through a web-based self-service portal. It integrates with existing tools and processes using the included workflow automation engine powered by HP Operations Orchestration.
- **Recovery management** provides for automated disaster recovery of logical server environments. With a simple mouse click, it transfers application environments, running on HP BladeSystem or in virtual machines, to a remote recovery site. It utilizes the data replication capabilities of HP storage environments to ensure that application data is properly transitioned to the recovery location and

Standard Features

that the overall transition is measured in minutes, not days. Insight Recovery is not supported on HP Integrity or on non-HP servers.

- **Workload management** for HP Integrity servers to automatically move resources based on business priorities.

Technical Specifications

Software Support

HP Care Pack offering combines comprehensive ProLiant Essentials and Insight Control software suites support with convenient access to ProLiant Essentials and Insight Control 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 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 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 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 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 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 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 Systems Insight Manager
- HP Insight Control suite
- HP Insight Control suite for Linux
- HP iLO Advanced Pack
- HP Insight Rapid Deployment software
- 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

Windows Central Management Server

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Operating systems:

- Windows Server 2008 Standard
- Windows Server 2008 Standard SP2
- Windows Server 2008 Standard x64 Edition
- Windows Server 2008 Standard x64 Edition SP2
- Windows Server 2008 R2 Standard
- Windows Server 2008 R2 Standard x64
- Windows Server 2008 Enterprise
- Windows Server 2008 Enterprise SP2
- Windows Server 2008 Enterprise x64 Edition
- Windows Server 2008 Enterprise x64 Edition SP2
- Windows Server 2008 R2 Enterprise
- Windows Server 2008 R2 Enterprise x64
- Windows Small Business Server 2008
- Windows Small Business Server 2008 SP2
- Windows Web Server 2008
- Windows Web Server 2008 SP2
- Windows Small Business Server 2003 SP2
- Windows Vista Business and Enterprise
- Windows Vista Business and Enterprise with SP2
- Windows Server 2003 R2 Standard SP2
- Windows Server 2003 R2 Standard SP2 64-bit
- Windows Server 2003 R2 Enterprise
- Windows Server 2003 R2 Enterprise SP2 64-bit
- Windows Server 2003 Standard SP2 32-bit
- Windows Server 2003 Standard 64-bit
- Windows Server 2003 Standard SP2 64-bit
- Windows Server 2003 Enterprise SP2
- Windows Server 2003 Enterprise SP2 64-bit
- Supported 32-bit Windows operating system running as guest on the following VMware systems:

Technical Specifications

- VMware ESX v3.0.2
- VMware ESX v3.0.3
- VMware ESX v3.5 Update 3
- VMware ESX v3.5 Update 4
- VMware ESX v3.5 Update 5
- VMware ESX v3i Update 3
- VMware ESX v3i Update 4
- VMware ESX v3i Update 5
- VMware ESX v4.0
- VMware ESX v4.0 Update 1
- VMware ESX v4i
- VMware ESX v4i Update 1
- Microsoft Hyper-V running guest Windows 2003 Standard and Enterprise
- Microsoft Hyper-V running guest Windows 2008 Standard and Enterprise
- The Central Management Server supports Microsoft Windows 2003 International Server - French, German, Italian, Spanish, Korean, Chinese, and Japanese (latest service pack available for each language).

Hardware:

Any HP ProLiant with the following configuration:

- Minimum: 1.5-GHz processor with 1 GB RAM
- 1 GB free disk space recommended
- Recommended: 2.4-GHz processor with 2 GB RAM

NOTE: The ProLiant ML/DL 100 series servers do not support HP Insight Remote Support Advanced. If you are using HP Insight Remote Support Advanced, you must use a ProLiant 300, 500, 700, or Blade Server. If Microsoft SQL Server is installed on the CMS, an additional 512 MB of RAM should be installed. HP Netserver platforms can be used for the Central Management Server as long as the Instant Tools software is not installed and all other requirements are met.

Software:

Database software:

- Microsoft SQL Server 2005 with Service Pack 3 (remote or local)
- Microsoft SQL Server 2008 Express
- Microsoft SQL Server 2008 Express with Service Pack 1
- Microsoft SQL Server 2008 Standard or Enterprise
- Microsoft SQL Server 2008 Standard or Enterprise with Service Pack 1 (remote or local)
- Oracle 9i
- Oracle 10g version 10.2.0.3 or later
- Postgres 8.2.1

Browser software:

- Microsoft Internet Explorer 8.0
- Microsoft Internet Explorer 7.0
- Mozilla Firefox 3.0.10
- Mozilla Firefox 3.1
- Mozilla Firefox 3.5

Networking:



Technical Specifications

- Static or dynamic host name resolution
 - TCP/IP
 - SNMP
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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:

- HP-UX 11i v2 Update 2 (11.23 IA/PA)
- HP-UX 11i v3
- Integrity Virtual Machine running guest with HP-UX 11i v2
- Integrity Virtual Machine running guest with HP-UX 11i v3

Hardware:

- Any HP system (PA-RISC 2.0 or Integrity) server with a minimum of 2 GB RAM (3 GB for HP-UX 11i v3)
- Any HP system with Oracle installed with a minimum of 4 GB RAM
- Free disk space:
 - 20 MB for CMS (/)
 - 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

NOTE: The ProLiant ML/DL 100 series servers do not support Insight Remote Support Advanced. If you are using Insight Remote Support Advanced, you must use a HP ProLiant 300, 500, 700, or Blade Server.

Software:

- OpenSSH installed
- HP WBEM Services for HP-UX, installed and active
- (Optional) Oracle 9i release 2
- (Optional) Oracle 10g R2 (10.2.0.3) or later
- HP SIM private version of PostgreSQL 8.2.1 (hpsmdb)
- Java Out-of-Box installed (shipped as optional selectable software as part of the operating system)

Browser software:

- Mozilla Firefox 3.0.10 or later

Networking:

- Properly configured and working Domain Name System (DNS).
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Technical Specifications

Linux Central Management Server

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

Operating systems:

- Red Hat Enterprise Linux 5, Update 4
- Red Hat Enterprise Linux 5 AMD64/EM64T, Update 4
- Red Hat Enterprise Linux 5, Update 3
- Red Hat Enterprise Linux 5 AMD64/EM64T, Update 3
- Red Hat Enterprise Linux 4, Update 8
- Red Hat Enterprise Linux 4 AMD64/EM64T, Update 8
- Red Hat Enterprise Linux 4 Update 7
- Red Hat Enterprise Linux 4 AMD64/EM64T, Update 7
- SUSE Linux Enterprise Server 11 32-bit
- SUSE Linux Enterprise Server 11 AMD64/EM64T
- SUSE Linux Enterprise Server 10 x86 AMD64/EM64T SP3
- SUSE Linux Enterprise Server 10 x86 SP3
- SUSE Linux Enterprise Server 10 SP2
- SUSE Linux Enterprise Server 10 SP2 AMD64/EM64T

Hardware:

- Any HP IA-32 AMD64 or EM64T system with the following configuration:
 - Minimum: 1.5-GHz processor and 1 GB RAM
 - Recommended: 2.4-GHz processor and 2 GB RAM
- Any HP system with Oracle 9i installed minimum 4 GB RAM
- 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

Software:

- General:
 - OpenSSH version 1.0 or later
 - ProLiant Support Pack for Linux 7.00 or later
 - (Optional) Oracle 9i release 2
 - Oracle 10g R2 (10.2.0.3) or later
 - HP SIM private version of PostgreSQL 8.2.1 (hpsmdb)
- Browser software: Mozilla Firefox 3.0.10 or later

Networking:

- Static or dynamic host name resolution
NOTE: On Linux, look for the entry 127.0.0.1 localhost, the local system IP address, and the system name in the /etc/hosts file. If they are not present, add the entries manually.
- SNMP

Operating Systems

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



Technical Specifications

- 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

- Windows Server 2008, Standard Edition
- Windows Server 2008 R2, Standard Edition
- Windows Server 2008, Standard Edition SP2
- Windows Server 2008, Standard Core
- Windows Server 2008, Standard x64 Edition
- Windows Server 2008, Standard x64 Edition SP2
- Windows Server 2008 R2, Enterprise Edition
- Windows Server 2008, Enterprise Edition
- Windows Server 2008, Enterprise Edition SP2
- Windows Server 2008, Enterprise Core
- Windows Server 2008, Enterprise x64 Edition
- Windows Server 2008, Enterprise x64 Edition SP2
- Windows Server 2008 R2 x64 Edition
- Windows Server 2008, Datacenter Edition
- Windows Server 2008, Datacenter Edition SP2
- Windows Server 2008, Datacenter Core
- Windows Server 2008 Small Business Sever
- Windows Server 2008 Small Business Sever SP2
- Windows Server 2008, Web Edition
- Windows Server 2008, Web Edition SP2
- Windows Server 2008 for Itanium-based systems
- Windows Server 2008 for Itanium-based system SP2
- Windows Server 2003, Standard Edition
- Windows Server 2003, Standard Edition SP1
- Windows Server 2003, Standard Edition SP2
- Windows Server 2003, Standard x64 Edition
- Windows Server 2003, Standard x64 Edition SP1
- Windows Server 2003, Standard x64 Edition SP2
- Windows Server 2003, Enterprise Edition
- Windows Server 2003, Enterprise Edition SP1
- Windows Server 2003, Enterprise Edition SP2
- Windows Server 2003, Enterprise x64 Edition
- Windows Server 2003, Enterprise x64 Edition SP1
- Windows Server 2003, Enterprise x64 Edition SP2
- Windows Server 2003, Enterprise Edition for Itanium based systems
- Windows Server 2003, Enterprise Edition SP1 for Itanium-based systems
- Windows Server 2003, Enterprise Edition SP2 for Itanium-based systems
- Windows Server 2003, Web Edition
- Windows Server 2003, Web Edition SP1
- Windows Server 2003, Web Edition SP2
- Windows Server 2003, Datacenter Edition
- Windows Server 2003, Datacenter Edition SP1
- Windows Server 2003, Datacenter Edition SP2
- Windows Server 2003, Datacenter x64 Edition
- Windows Server 2003, Datacenter x64 Edition SP1
- Windows Server 2003, Datacenter x64 Edition SP2

Technical Specifications

- Windows Server 2003, Datacenter Edition for Itanium-based systems
- Windows Server 2003, Datacenter Edition SP1 for Itanium-based systems
- Windows Server 2003, Datacenter Edition SP2 for Itanium-based systems
- Windows 2003 R2, DataCenter
- Windows 2003 R2, DataCenter SP2
- Windows Server 2003 R2, Standard Edition
- Windows Server 2003 R2, Standard Edition SP2
- Windows Server 2003 R2, Standard x64 Edition
- Windows Server 2003 R2, Standard x64 Edition SP2
- Windows Server 2003 R2, Enterprise Edition
- Windows Server 2003 R2, Enterprise Edition SP2
- Windows Server 2003 R2, Enterprise x64 Edition
- Windows Server 2003 R2, Enterprise x64 Edition SP2
- Windows Server 2003 R2, Datacenter x64 Edition
- Windows Server 2003 R2, Datacenter x64 Edition SP2
- Windows 2000 (Server and Advanced Server) SP1-SP4
- Windows 2000 Datacenter Server
- Windows NT4 Service Pack 6
- Windows Small Business Server 2003
- Windows Small Business Server 2003, SP1
- Windows Small Business Server 2003, SP2
- Windows Vista Business
- Windows Vista Business, SP1
- Windows Vista Business, SP2
- Windows Vista Enterprise
- Windows Vista Enterprise, SP1
- Windows Vista Enterprise, SP2
- Windows XP Professional, SP1
- Windows XP Professional, SP2
- Windows XP Professional, SP3

HP-UX and HP NonStop Kernel managed systems

- HP-UX 11i v1 (11.11)
- HP-UX 11i v2 (11.23 IA only)
- HP-UX 11i v2 Update 2 (11.23 PI-PA)
- HP-UX 11i v3 (11.31 IA/PA)
- HP Tru64 UNIX
- HP NonStop Kernel
- OpenVMS

Linux managed systems

- Oracle Enterprise Linux 5.3 x86
- Oracle Enterprise Linux 5.3 AMD64/EM64T
- Oracle Enterprise Linux 5.2 x86
- Oracle Enterprise Linux 5.2 AMD64/EM64T
- Red Hat Enterprise Linux 5 IPF, Update 4
- Red Hat Enterprise Linux 5 x86, Update 4
- Red Hat Enterprise Linux 5 AMD64/EM64T, Update 4
- Red Hat Enterprise Linux 5 IPF, Update 3
- Red Hat Enterprise Linux 5 x86, Update 3
- Red Hat Enterprise Linux 5 AMD64/EM64T, Update 3
- Red Hat Enterprise Linux 5 IPF, Update 2
- Red Hat Enterprise Linux 5 x86, Update 2

Technical Specifications

- Red Hat Enterprise Linux 5 AMD64/EM64T, Update 2
- Red Hat Enterprise Linux 5 IPF, Update 1
- Red Hat Enterprise Linux 5 x86, Update 1
- Red Hat Enterprise Linux 5 AMD64/EM64T, Update 1
- Red Hat Enterprise Linux 4 IPF, Update 8
- Red Hat Enterprise Linux 4 x86, Update 8
- Red Hat Enterprise Linux 4 AMD64/EM64T, Update 8
- Red Hat Enterprise Linux 4 IPF, Update 7
- Red Hat Enterprise Linux 4 x86, Update 7
- Red Hat Enterprise Linux 4 AMD64/EM64T, Update 7
- Red Hat Enterprise Linux 4 IPF, Update 6
- Red Hat Enterprise Linux 4 x86, Update 6
- Red Hat Enterprise Linux 4 AMD64/EM64T, Update 6
- Red Hat Enterprise Linux 3 IPF, Update 9
- Red Hat Enterprise Linux 3 x86, Update 9
- Red Hat Enterprise Linux 3 AMD64/EM64T, Update 9
- Red Hat Linux 9 Workstation
- Red Hat Linux 8 Workstation
- Red Hat Linux 7.3 Workstation
- SUSE Enterprise Linux 11 IPF
- SUSE Enterprise Linux 11 x86
- SUSE Enterprise Linux 11 AMD64/EM64T
- SUSE Enterprise Linux 10 IPF, SP3
- SUSE Enterprise Linux 10 x86, SP3
- SUSE Enterprise Linux 10 AMD64/EM64T, SP3
- SUSE Enterprise Linux 10 IPF, SP2
- SUSE Enterprise Linux 10 x86, SP2
- SUSE Enterprise Linux 10 AMD64/EM64T, SP2
- SUSE Enterprise Linux 10 IPF, SP1
- SUSE Enterprise Linux 10 x86, SP1
- SUSE Enterprise Linux 10 AMD64/EM64T, SP1
- SUSE Enterprise Linux 9 IPF, SP4
- SUSE Enterprise Linux 9 x86, SP4
- SUSE Enterprise Linux 9 AMD64/EM64T, SP4
- SUSE Enterprise Linux 9 IPF, SP3
- SUSE Enterprise Linux 9 x86, SP3
- SUSE Enterprise Linux 9 AMD64/EM64T, SP3
- SUSE Enterprise Linux 8 IPF
- SUSE Enterprise Linux 8/UnitedLinux 1.0
- Debian 5.0

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

VMware managed systems

- VMWare ESX v3.0.3
- VMWare ESX v3.0.2
- VMWare ESX v3.0.1
- VMWare ESX 3.5 Update 5

Technical Specifications

- VMWare ESX 3.5 Update 4
- VMWare ESX 3.5 Update 3
- VMWare ESX 3.5 Update 2
- VMWare ESX 3.5 Update 1
- VMWare ESX 3i Update 5
- VMWare ESX 3i Update 4
- VMWare ESX 3i Update 3
- VMWare ESX 3i Update 2
- VMWare ESX 3i Update 1
- VMWare ESX 4.0 Update 1
- VMWare ESX 4.0
- VMWare ESX 4i Update 1
- VMWare ESX 4i
- Xen on RH 5
- Xen on SLES 11
- Xen on SLES 10
- Citrix XenServer Enterprise
- VMWare GSX 3.2.1
- VMWare GSX 3.2
- Integrity VM Windows (running guest OS Windows)
- Integrity VM Linux (running guest OS Linux)
- Integrity VM HP-UX (running guest OS HP-UX 11i v2)
- Integrity VM HP-UX (running guest OS HP-UX 11i v3)
- Microsoft Virtual Server 2005 R2 SP1
- Microsoft Virtual Server 2005 R2
- Microsoft Hyper-V running guest Windows x86

SUN managed systems

- Solaris 9 Sparc
- Solaris 10 Sparc
- Solaris 10 Intel Platform
- Solaris 9 Intel Platform
- Solaris 8 Intel Platform

IBM managed systems

- AIX 6.1
- AIX 5.3

Technical Specifications

Managed System Hardware Support

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

Supported Managed Systems Web Browsers

- Windows
 - Microsoft Internet Explorer 7.0 or later
 - Mozilla Firefox 3.0.10 or later

NOTE: For optimum performance, the minimum resolution for the browser must be 1024 x 768.

- HP-UX
 - Mozilla Firefox 3.0.10 or later
- Linux
 - Mozilla Firefox 3.0.10 or later

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.

Additional Recommended Software

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

- OpenSSH Services 5.1p1
- 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)

NOTE: 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)

NOTE: 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

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