Overview

HPE Systems Insight Manager 7.5.1

HPE Systems Insight Manager (HPE SIM) is the foundation for the HPE unified server-storage management strategy. HPE SIM is a hardware-level management product that supports multiple operating systems on HPE ProLiant, Integrity and HPE 9000 servers, HPE MSA, EVA, XP arrays, and third-party arrays. Through a single management view of Microsoft® Windows®, VMWare vSphere (ESX/ESXi), HPE-UX 11iv2, HPE-UX 11iv3, and Red Hat, and SUSE Linux, HPE SIM provides the basic management features of system discovery and identification, single-event view, inventory data collection, and reporting. The core HPE SIM software uses Web Based Enterprise Management (WBEM) to deliver the essential capabilities required to manage all HPE server platforms.

HPE SIM can be extended to provide systems management with plug-ins for HPE client, server, storage, power, and printer products. HPE Insight Control and Matrix Operating Environment build on and complement the HPE 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 HPE 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 HPE Systems Insight Manager and optional Insight software, HPE 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 HPE:

- 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 products for extended management of HPE ProLiant and Integrity 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

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What's New

HPE Systems Insight Manager continues to be the clear choice for managing Hewlett Packard Enterprise servers and storage by being the easiest, simplest and least expensive way for HPE system administrators to maximize system uptime and health. HPE SIM 7.5 continues to be the clear choice for managing Hewlett Packard Enterprise servers and storage and delivers many exciting enhancements.

What is new with HPE SIM 7.5.1

Latest Hardware support

•Latest Gen9 ProLiant servers
•iLO4 2.40

Overview

Latest Software support

- HP SUM 7.5.0
- HP Intelligent Provisioning 2.40
- RHEL 7.2 managed node
- SLES 12.1 managed node

Standard Features

Product Features

HPE SIM management

- **Fault management and event handling**. HPE 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 HPE Network Node Manager or HPE Operations Manager software.
- **Consistent multisystem management**. HPE 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**. HPE SIM provides the option of a browser-based GUI or a command line interface (CLI) to make it easy to incorporate HPE SIM into your existing management processes.

Web-Based Enterprise Management (WBEM) indications for HPE-UX, Linux, and Storage Management Initiative Specification (SMI-S) devices. HPE SIM enables you to use the GUI or CLI to subscribe and unsubscribe to WBEM indications.

Security

- **Role-based security**. HPE 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**. HPE 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 HPE-UX systems supported by HPE SIM.

Installation

- **Easy and rapid installation**. HPE SIM can be installed, quickly and easily, on HPE-UX 11i v2, or HPE-UX 11i v3 on Integrity server platforms, or on ProLiant platforms running Windows or Linux.
- **First Time Wizard**. HPE SIM provides you with step-by-step, online instructions for performing the initial configuration of HPE SIM. The wizard helps you configure HPE SIM settings on the Central Management Server (CMS).

Discovery

- HPE 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

- HPE 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**. HPE 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 HPE

Standard Features

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**. HPE SIM enables you to compare configuration snapshots of up to four different servers, or compare configuration snapshots of a single server over a period of time. This functionality assists IT staff in pinpointing configuration issues that can contribute to system instability. Snapshot comparisons can also be used to save a picture of a standard configuration for comparisons to other systems.

HPE Insight Control Building on HPE Systems Insight Manager, Insight Control delivers comprehensive management for ProLiant ML/DL and BladeSystem servers. For detailed information on HPE Insight Control, 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 HPE 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 HPE 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 HPE ProLiant servers, HPE 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 HPE iLO Advanced, provides 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 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.

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

- **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

Standard Features

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 HPE Operations Orchestration.
- **Recovery management** provides for automated disaster recovery of logical server environments. With a simple mouse click, it transfers application environments, running on HPE BladeSystem or in virtual machines, to a remote recovery site. It utilizes the data replication capabilities of HPE storage environments to ensure that application data is properly transitioned to the recovery location and that the overall transition is measured in minutes, not days. Insight Recovery is not supported on HPE Integrity or on non-Hewlett Packard Enterprise servers.
- **Workload management** for HPE Integrity servers to automatically move resources based on business priorities.

Technical Specifications

Software Support

HPE Care Pack offering combines comprehensive HPE Systems Insight Manager and Insight Control software support with convenient access to updates and expert support for performance, availability, and productivity optimization. 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 HPE IT Response Center engineers via telephone, electronic communication, or fax
- Problem analysis and resolution - HPE Services provides corrective support to resolve identifiable and reproducible 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 - Hewlett Packard Enterprise provides information on the latest HPE Systems Insight Manager and Insight Control features and known problems and solutions, plus operational advice and assistance.
- Escalation management - Established escalation procedures enlist specialized expertise from HPE and selected third-parties.
- Installation advisory - Advisory support is available for help with installing and updating Insight Control software.
- Choice of coverage windows - Service is available 13x5 Monday-Friday or 24x7.

Productivity-enhancing software updates

This multifaceted service also brings updates, 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 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 HPE's electronic support facility 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 Software Update Manager provides online access to view support entitlements, manage release notification profile, and immediately download new updates.

Minimum Hardware and Software Requirements for HPE Systems Insight Manager

HPE SIM can run in a VM (Virtual Machine). HPE 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.

Technical Specifications

Windows Central Management Server

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

Operating systems:

- Windows Server 2012 R2 Standard
- Windows Server 2012 R2 Datacenter
- Windows Small Business Server 2011 Standard, Essentials
- Windows Server 2012 Standard
- Window Server 2012 DataCenter Edition
- Windows Server 2008 R2, Enterprise, SP1
- Windows Server 2008 R2 Standard, SP1
- Windows Server 2008 Standard (x64) SP2
- Windows Server 2008 Enterprise (x64) SP2
- Supported Windows and Linux operating system running as guest on the following VMware systems:
  - VMWare ESXi 5.1Update 1
  - VMWare ESXi 5.0 Update 2
  - VMware ESXi 4.0 Update4
  - VMware ESX 4.0 Update4
  - VMWare ESXi 4.1 Update 3
  - VMware vSphere (ESXi) 5.5
  - VMware ESXi 5.1 Update2
  - VMware ESXi 5.0 Update3
  - VMware vSphere (ESXi) 5.5 Update1
  - VMware vSphere (ESXi) 5.5 Update2
  - VMware vSphere (ESXi) 5.5 Update3
  - VMware vSphere (ESXi) 6.0
  - VMware vSphere (ESXi) 5.1 Update3
- Microsoft Windows Server 2008 SP2 with Hyper-V
- Microsoft Windows Server 2008 R2 SP1 with Hyper-V
- Microsoft Windows Server 2012 with Hyper-V
- Microsoft Windows Server 2012 R2 with Hyper-V
- Microsoft Hyper-V Server 2008 SP2
- Microsoft Hyper-V Server 2008 R2 SP1
- Microsoft Hyper-V Server 2012
- Microsoft Hyper-V Server 2012 R2
- The Central Management Server supports - French, German, Italian, Spanish, Korean, Chinese, and Japanese (latest service pack available for each language).

Hardware:

Any HPE ProLiant with the following configuration:

- Minimum: 1.5-GHz processor with 4GB RAM (for x86) / 6GBRAM (for x64)
- 1 GB free disk space recommended
- Recommended: 2.4-GHz processor with 6GB RAM (for x86) / 8GB RAM(for x64)

Database software:

- Oracle 11g R2(11.2.x.x)
- Microsoft SQL Server 2012 Standard SP2

Technical Specifications

- Microsoft SQL Server 2012 Enterprise SP2
- Microsoft SQL Server 2012 Business Intelligence SP2
- Microsoft SQL Server 2012 Web SP2
- Microsoft SQL Server 2012 Express SP2
- Microsoft SQL Server 2014 Standard
- Microsoft SQL Server 2014 Enterprise
- Microsoft SQL Server 2014 Business Intelligence Microsoft SQL Server 2014 Web
- Microsoft SQL Server 2014 Express (32 bit – bundled DB in SIM)

Browser software:

- Microsoft Explorer 9
- Microsoft Internet Explorer 8.x
- Microsoft Internet Explorer 11.0
- Microsoft Internet Explorer 10.0
- Mozilla Firefox 38 ESR
- Google Chrome 43 with IE tab extension

Networking:

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

HPE-UX Central Management Server

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

Operating system:

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

Hardware:

- Any HPE system with Oracle11 g R2 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:
  - 4 GB minimum total swap space for Intel® Itanium®-based systems

Software:

- SSH installed
- HPE WBEM Services for HPE-UX, installed and active

Technical Specifications

- Oracle11g R2 (11.2.x.x)
- HPE SIM private version of PostgresSQL 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).

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 6.6 x86
- Red Hat Enterprise Linux 6.6 AMD64/EM64T
- Red Hat Enterprise Linux 5.11 x86
- Red Hat Enterprise Linux 5.11 AMD64/EM64T
- Red Hat Enterprise Linux 7 AMD64/EM64T
- Red Hat Enterprise Linux 7.1 AMD64/EM64T
- SUSE Linux Enterprise Server 11 32-bit SP4
- SUSE Linux Enterprise Server 11 64-bit SP4
- SUSE Linux Enterprise Server 12
- Red Hat Enterprise Linux 6.5 x86
- Red Hat Enterprise Linux 6.5 AMD64/EM64T
- Red Hat Enterprise Linux 6 x86 Update 4
- Red Hat Enterprise Linux 6.4 AMD64/EM64T
- Red Hat Enterprise Linux 6 x86 Update 3
- Red Hat Enterprise Linux 6.3 AMD64/EM64T
- Red Hat Enterprise Linux 5.10 x86
- Red Hat Enterprise Linux 5.10 AMD64/EM64T
- Red Hat Enterprise Linux 5.9 x86
- Red Hat Enterprise Linux 5.9 AMD64/EM64T
- SUSE Linux Enterprise Server 11 32-bit SP2
- SUSE Linux Enterprise Server 11 64-bit, SP2

Hardware:

- Any HPE 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 HPE 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)

Technical Specifications

- Swap space: 3 GB minimum total swap space for Itanium-based systems

Software:

- General:
  - OpenSSH version 1.0 or later
- Service Pack for Proliant 2015.06.0 Gen9 Snap 3
  - Oracle 11g R2 (11.2.x.x)
  - HPE SIM private version of PostgresSQL 8.2.1 (hpsmdb)
- Browser software: Mozilla Firefox 3.0.10 or later, Mozilla Firefox 6.0

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

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

- For devices that are using Simple Network Management Protocol (SNMP),
- HPE 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 HPE SIM provides some data collection.
- For HTTP/HTTPS devices it provides Web server identification and link population.

Windows managed systems

- Windows Server 2012, Standard Edition
- Windows Server 2012 R2 Standard Edition
- Windows Server 2012 Data Center
- Windows Server 2012 R2 Datacentre Edition
- Windows Small Business Server 2011 Standard
- Windows Small Business Server 2011 Essentials
- Windows Server 2008 R2 Enterprise, SP1
- Windows Server 2008 R2 Data Center, SP1
- Windows Server 2008 R2 Web server, SP1
- Windows Server 2008 R2, Standard Server Core, SP1
- Windows Server 2008 R2 Enterprise, SP1
- Windows Server 2008, Standard Edition
- Windows Server 2008, Standard Edition SP2
- 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 x64 Edition
- Windows Server 2008, Enterprise x64 Edition SP2
- Windows Server 2008, Datacenter Edition

Technical Specifications

- Windows Server 2008, Datacenter Edition SP2
- Windows Server 2008 Small Business Sever SP2
- Windows Server 2008, Web Edition
- Windows Server 2008 for Itanium-based systems
- Windows Server 2008 for Itanium-based system SP2
- Windows storage server 2012 Standard
- Windows storage server 2012 R2 Standard
- Windows Storage Server 2008 Standard (x64)
- Windows Storage Server 2008 Enterprise (x64)
- Windows Storage Server R2 2008 Standard, SP1
- Windows Storage Server R2 2008 Enterprise ,SP1
- Windows Storage Server 2008 R2 Standard
- Windows 7 SP1 (Professional/Enterprise)
- Windows 7 SP1 (Professional/Enterprise) x64
- Windows Server 2003, Standard Edition SP1
- Windows Server 2003, Standard Edition SP2
- Windows Server 2003, Standard x64 Edition SP1
- Windows Server 2003, Standard x64 Edition SP2
- Windows Server 2003, Enterprise Edition SP1
- Windows Server 2003, Enterprise Edition SP2
- Windows Server 2003, Enterprise x64 Edition SP1
- Windows Server 2003, Enterprise x64 Edition SP2
- Windows Server 2003, Web Edition SP1
- Windows Server 2003, Web Edition SP2
- Windows Server 2003, Datacenter Edition SP1
- Windows Server 2003, Datacenter Edition SP2
- Windows Server 2003, Datacenter x64 Edition SP1
- Windows Server 2003, Datacenter x64 Edition SP2
- 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 Vista Business, SP2
- Windows Visa Enterprise, SP2
- Windows Vista Business , x64 SP2
- Windows Vista Enterprise, x64 SP2

HPE-UX , HPE NonStop Kernel and OpenVMS managed systems

- HPE-UX 11i v2 (11.23 IA only)
- HPE-UX 11i v2 Update 2 (11.23 PI-PA)
- HPE-UX 11i v3 (11.31 IA/PA)
- HPE NonStop Kernel
- Any version - OpenVMS 8.4 (Hewlett Packard Enterprise recommends)

Linux managed systems

- Red Hat Enterprise Linux 7.1 for AMD64/EM64T
- Kernel Based Virtual Machine on RHEL7.1

Technical Specifications

- Red Hat Enterprise Linux 6.6 x86
- Red Hat Enterprise Linux 6.6 AMD64/EM64T
- Red Hat Enterprise Linux 7 for AMD64/EM64T
- Kernel Based Virtual Machine on RHEL7
- Red Hat Enterprise Linux 6 x86, Update 4
- Red Hat Enterprise Linux 6.4 for AMD64/EM64T
- Kernel-Based Virtual Machine on Red Hat Enterprise Linux 6.4
- Red Hat Enterprise Linux 6.3 x86
- Red Hat Enterprise Linux 6.3 AMD64/EM64T
- Red Hat Enterprise Linux 6.2 x86
- Red Hat Enterprise Linux 6.2 AMD64/EM64T
- Red Hat Enterprise Linux 6 x86, Update 1
- Red Hat Enterprise Linux 6 AMD64/EM64T, Update 1
- Red Hat Enterprise Linux 6 x86
- Red Hat Enterprise Linux 6 AMD64/EM64T
- Red Hat Enterprise Linux 5.8
- Red Hat Enterprise Linux 6.2
- Red Hat Enterprise Linux 5 IPF, Update 7
- Red Hat Enterprise Linux 5 x86, Update 7
- Red Hat Enterprise Linux 5 AMD64/EM64T, Update 7
- Red Hat Enterprise Linux 5 AMD64/EM64T, Update 8
- Red Hat Enterprise Linux 5 IPF, Update 8
- Red Hat Enterprise Linux 5 x86, Update 8
- Red Hat Enterprise Linux 5.9 x86
- Red Hat Enterprise Linux 5.9 AMD64/EM64T
- Kernel-Based Virtual Machine on Red Hat Enterprise Linux 5.9
- RHEL 5.10 x86
- RHEL 5.10 AMD64/EM64T
- KVM on RHEL 5.10
- RHEL 6.5 x86
- RHEL 6.5 AMD64/EM64T
- KVM on RHEL 6.5
- 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 11
- Red Hat Enterprise Linux 5 AMD64/EM64T, Update 11 Red Hat Enterprise Linux 5 x86, Update 3
- Red Hat Enterprise Linux 5 AMD64/EM64T, Update 3
- SUSE Linux Enterprise Server 11 32-bit SP3
- SUSE Linux Enterprise Server 11 64-bit, SP3
- SUSE Enterprise Linux 11 IPF
- SUSE Enterprise Linux 11 x86
- SUSE Enterprise Linux 11 AMD64/EM64T
- SUSE Enterprise Linux 11 IPF, SP2
- SUSE Enterprise Linux 11 x86, SP2
- SUSE Enterprise Linux 11 AMD64/EM64T, SP2
- SUSE Enterprise Linux 10 IPF, SP4
- SUSE Enterprise Linux 10 x86, SP4
- SUSE Enterprise Linux 10 AMD64/EM64T, SP4
- SUSE Enterprise Linux 10 IPF, SP3

Technical Specifications

- SUSE Enterprise Linux 10 x86, SP3
- SUSE Enterprise Linux 10 AMD64/EM64T, SP3
- SUSE Enterprise Linux 11 x86, SP4
- SUSE Enterprise Linux 11 AMD64/EM64T, SP4
- SUSE Enterprise Linux 12 AMD64/EM64T

Other variants of linux:

- Oracle Enterprise Linux 6.2 x86
- Oracle Enterprise Linux 6.2 AMD64/EM64T
- Oracle Enterprise Linux 5.8 x86
- Oracle Enterprise Linux 5.8 AMD64/EM64T
- Oracle Enterprise Linux 5.7 x86
- Oracle Enterprise LInux 5.7 AMD64/EM64T
- Oracle Enterprise Linux 5.6 x86
- Oracle Enterprise Linux 5.6 AMD64/EM64T
- Ubuntu 14.4
- Ubuntu 10.04 LTS
- Ubuntu 12.04 LTS
- Ubuntu 12.04.3
- Ubuntu 13.10
- Debian 7.2

Novell managed systems

- Netware 6.5

VMware managed systems

- VMware vSphere ESXi 5.5 Update1
- VMware vSphere ESXi 5.5 Update2
- VMWare ESXi 5.0 U3 managed node support
- vSphere 5.1 U2 managed node support
- HPE ESXi 4.1 U2 managed node support
- VMware vSphere (ESXi) 5.5
- VMWare ESXi 5.1 Update 1
- VMWare ESXi 5.0 Update 2
- VMware ESX 4.0 Update 4
- VMware ESXi 4.0 Update 4
- VMware ESX 4.0 Update 3
- VMware ESXi 4.0, Update 3
- VMware ESXi 4.0 Update3 running guest Windows and Linux
- VMware ESX 4.0 Update 2
- VMware ESXi 4.0, Update 2
- VMware ESXi 4.0 Update2 running guest Windows and Linux
- VMware ESX 4.1 (Initial Release)
- VMware ESXi 4.1 Update 1
- VMware ESX 4.1 Update1 running guest Windows and Linux
- VMware ESXi 4.1 Update 2
- VMware ESXi 4.1 Update 3
- VMware ESXi 5.0 Update 1VMware M/N (ESXi 5) Lockdown mode (Initial Release)

Xen on RHEL/SLES & Integrity VM

- Xen on RHEL 5.4/5.5/5.6/5.7/5.8
- Xen on SLES10 SP3/SP4

Technical Specifications

Managed Systems

- Xen on SLES 11 SP1/SP2
- Integrity VM Windows (running guest OS Windows)
- Integrity VM Linux (running guest OS Linux)
- Integrity VM HPE-UX (running guest OS HPE-UX 11i v2)
- Integrity VM HPE-UX (running guest OS HPE-UX 11i v3)

Microsoft Hyper-V Managed systems

- Microsoft Windows Server 2008 SP2 with Hyper-V running guest Windows
- Microsoft Windows Server 2008 R2 SP1 with Hyper-V running guest Windows
- Microsoft Windows Server 2012 with Hyper-V running guest Windows
- Microsoft Windows Server 2012 R2 with Hyper-V running guest Windows
- Microsoft Hyper-V Server 2008 SP2 running guest Windows
- Microsoft Hyper-V Server 2008 R2 SP1 running guest Windows
- Microsoft Hyper-V Server 2012 running guest Windows
- Microsoft Hyper-V Server 2012 R2 running guest Windows

SUN managed systems

- Solaris 9 Sparc
- Solaris 10 Sparc
- Solaris 10 Intel Platform
- Solaris 9 Intel Platform
- Solaris 8 Intel Platform
- Oracle Solaris 11 Intel Platform

IBM managed systems

- AIX 6.1
- AIX 5.3

Managed System Hardware Support

Windows

- Any HPE ProLiant system

HPE-UX

- Any HPE PA-RISC system
- Any HPE Itanium®-based system

Linux

- Any HPE ProLiant system
- Any HPE Itanium-based system

Supported Managed Systems Web Browsers

Windows

- IE 11
- Microsoft Internet Explorer 10.0
- Microsoft Internet Explorer 8.0
- Microsoft Internet Explorer 9.0
- Mozilla Firefox 38 ESR
- Google Chrome 43 with IE tab extension

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

Linux

NOTE: User is suggested to disable SSL 3.0 in browser settings

Technical Specifications

Additional Recommended Software

Windows

This software is not required, but if you want improved management capabilities, Hewlett Packard Enterprise recommends that you install these components

- OpenSSH 5.9p1-1
- Service Pack for Proliant 2015.06.0 Gen9 Snap 3
- HPE Insight Management WBEM Providers (for HPE DL, ML and BL servers only)
  NOTE: For additional information please refer to the HPE Insight Management WBEM Providers web page at: 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 HPE SIM capabilities, Hewlett Packard Enterprise recommends that you install these components, which can be purchased or downloaded from many software suppliers:

- SSH Client
- X Window Server

Linux

- SSH
- Service Pack for Proliant 2015.06.0 Gen9 Snap 3
- SNMP (recommended as an alternative to WBEM)
- SSH Client
- X Window Server

Summary of Changes

Date	Version History	Action	Description of Change
31-Mar-2016	From Version 50 to 51	Changed	TBD
17-Aug-2015	From Version 49 to 50	Changed	Overview, Technical Specifications sections were updated.
08-May-2015	From Version 48 to 49	Removed	Minimum Hardware and Software Requirements for HPE Systems Insight Manager information removed from Technical Specifications section.
30-Mar-2015	From Version 47 to 48	Changed	Overview and Technical Specifications sections were updated
15-Oct-2014	From Version 46 to 47	Changed	Changes were made throughout the QuickSpecs
09-Sep-2014	From Version 45 to 46	Changed	QuickSpecs was updated to HPE Systems Insight Manager version 7.4 What's New Section was updated
10-Jun-2014	From Version 44 to 45	Changed	Changes were made in What's New section
14-Feb-2014	From Version 43 to 44	Changed	QuickSpecs was updated to HPE Systems Insight Manager version 7.3.1.
09-Dec-2013	From Version 42 to 43	Changed	QuickSpecs was updated to HPE Systems Insight Manager version 7.3.
10-Sep-2013	From Version 41 to 42	Changed	Linux managed systems was revised.
10-Jun-2013	From Version 40 to 41	Changed	Overview: Updated What's New with Latest ProLiant Gen8 servers support Latest software support RHEL 6.4 ESXi 5.1 U1 ESXi 5.0 U2 IE 10 in compatibility moded Technical Specifications: Updated Windows Central Management Server,Linux Central Management Server, Linux managed systems, VMwaremanaged systems and Supported Managed Systems Web Browers sections.
15-Mar-2013	From Version 39 to 40	Changed	Technical Specifications: Updated WIndows Central Management Server section.
19-Feb-2013	From Version 38 to 39	Changed	Changes were made to remove v1 from throughout the QuickSpecs.
04-Dec-2012	From Version 37 to 38	Changed	Changes were made in What's New and Technical Specifications sections.
07-Sep-2012	From Version 36 to 37	Changed	Changes were made in What's New section.
13-Aug-2012	From Version 35 to 36	Changed	Changes were made throughout for 7.1.1 update.
04-Jun-2012	From Version 34 to 35	Changed	Changes were made throughout for 7.1 update.
06-Mar-2012	From Version 33 to 34	Changed	Changes were made throughout for 7.0 update.
20-Dec-2011	From Version 32 to 33	Changed	Technical Specifications was revised.
20-Jun-2011	From Version 31 to 32	Changed	Microsoft SQL Server 2008 R2 was added to Minimum Hardware and Software Requirements for HPE Systems Insight Manager Mentions of StorageWorks were removed
05-Apr-2011	From Version 30 to 31	Added	Oracle 11G was added to Database Software in Minimum Hardware and Software Requirements for HPE Systems Insight

Summary of Changes

			Manager Red Hat Enterprise Linux and Linux 6 were added to Operating Systems in Linux Central Management Server
27-Dec-2010	From Version 29 to 30	Removed	Reference to SL2x390s G7 was removed from What's New.
05-Nov-2010	From Version 28 to 29	Changed	AMD64/EM64T was changed to 64-bit in Linux Central Management Server Operating Systems.
08-Oct-2010	From Version 27 to 28	Changed	P4000 iSCSI SAN discovery, events, status was added and HPE ProLiant BL2x220x G7 was removed from Hardware support and Software support was completely revised in What's New Revisions were made throughout the Technical Specifications
05-Oct-2010	From Version 26 to 27	Changed	Hardware and Software Support were revised in What's New Red Hat Enterprise Linux 6 was added to Linux Central Management Server
22-Jun-2010	From Version 25 to 26	Added	VMware ESX v4.0 update 1 and VMware ESX 4.1 were added to Minimum Hardware and Software Requirements for HPE Systems Insight Manager Red Hat Enterprise Linux 5.4 and 5.5 and SUSE Linux Enterprise Server 10 SP3 and 11 SP1 were added to Linux Central Management Server Citrix XenServer 5.5 was added to VMware managed systems
23-Apr-2010	From Version 24 to 25	Added	OpenVMS 8.4 was added to HPE-UX, HPE NonStop Kernel and OpenVMS managed systems.
05-Mar-2010	From Version 23 to 24	Changed	ProLiant Essentials was changed to HPE Systems Insight Manager throughout Amount of Memory was upgraded and SQL was added to Postgre 8.2.1 in Minimum Hardware and Software Requirements for HPE Systems Insight Manager
		Removed	HPE Virtual Connect (VC) and D-VSE, HPE IO, HPE IR and VSEMgmt were removed from What's New Software was removed from HPE Network Node Manager description in HPE SIM management Suite was removed from HPE Insight Control 6.0
16-Nov-2009	From Version 22 to 23	Changed	Changes were made throughout the entire QuickSpecs.
26-Jan-2009	From Version 21 to 22	Changed	Changes were made throughout the entire QuickSpecs.
14-Nov-2008	From Version 20 to 21	Changed	A broken URL was replaced in the Product Features section of the Standard Features.
25-Jul-2008	From Version 19 to 20	Added	Solaris 10 Intel® Platform to SUN managed systems in the Operating Systems section of the Technical Specifications and "With HPE SIM release 5.2 Update 2 (HPE SIM 5.2.2) Hewlett Packard Enterprise will deliver enhancements in support of the Remote Service Pack. It will also deliver enhanced UUID support" to the Miscellaneous Features section of the Overview.
02-May-2008	From Version 18 to 19	Changed	Changes were made within the QuickSpecs including, What's New in the Overview section and Product Features in the Standard Features section.
11-Feb-2008	From Version 17 to 18	Changed	Changes were made to the Overview, Standard Features and Technical Specifications sections.
17-Aug-2007	From Version 16 to 17	Changed	Changes were made throughout the entire QuickSpecs.
06-Apr-2007	From Version 15 to 16	Added/Remove	Added VMware ESX Server to the Windows managed systems

Summary of Changes

		d	object in the Operating Systems section of the Technical Specifications. Removed VMware ESX and VMware GSX from the Linux managed systems object in the Operating Systems section of the Technical Specifications.
09-Feb-2007	From Version 14 to 15	Changed	Changes made within the What's New section of Overview and in the Standard Features section.
02-Feb-2007	From Version 13 to 14	Changed	Changes include an edit at the end of the What's New section of Overview, changes to the specifications for the Windows Central Management Server and Linux Central Management Server, and one addition to the list of Windows supported Operating Systems.
16-Jan-2007	From Version 12 to 13	Changed	Changes were made throughout the entire QuickSpecs.
12-May-2006	From Version 10 to 12	Changed	Minor updates made throughout the QuickSpecs.
21-Nov-2005	From Version 9 to 10	Changed	The entire QuickSpecs has been rewritten.
16-Aug-2005	From Version 8 to 9	Changed	Minor changes made in the OVERVIEW section.
15-Aug-2005	From Version 7 to 8	Changed	Changes were made throughout the entire QuickSpecs.
28-Jan-2005	From Version 6 to 7	Changed	Minor grammatical edits were made.
01-Dec-2004	From Version 5 to 6	Changed	The entire QuickSpecs has been rewritten.
12-Jul-2004	From Version 4 to 5	Changed	Technical Specifications
			ProcessorMinimum single CPU 733MHz (1.5 GHz or greater recommended)
			ProcessorMinimum single CPU 733MHz (1.5 GHz or greater recommended)
13-Apr-2004	From Version 3 to 4	Changed	Introduction
			This section was completely revised
			Technical Specifications
			The Technical Specifications section was completely revised, including the addition of updated operating systems.
02-Mar-2004	From Version 2 to 3	Changed	Technical Specifications
			The Technical Specifications section was completely revised.
06-Jan-2004	From Version 1 to 2	Added	Technical Specifications Minimum Hardware and Software Requirements for HPE Systems Insight Manager Management Server Operating SystemHPE-UX version 11i v2 (1H, 2004)
			Technical Specifications
			Minimum Hardware and Software Requirements for HPE Systems Insight Manager
			Management Server Operating SystemHPE-UX version 11i v2 (1H, 2004)

Summary of Changes

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