

Overview

HP Insight Control lowers the cost of running your HP ProLiant servers with essential server management that unlocks the potential of ProLiant servers. Increase server provisioning speed 12x (20 minutes vs 4 hours), reduce unplanned downtime by 83%, optimize data center capacity by up to 3x, and reduce system admin expenses and travel costs with complete remote control. HP Insight Control improves operational costs savings by \$73,482 per 100 users over three years that offers a 642% Return on Investment and a payback of 4.2 months.

With Insight Control you can expect to realize the following management benefits:

- Provision Operating Systems and migrate ProLiant servers quickly and consistently
- Manage ProLiant server health and performance proactively
- Control your ProLiant servers from anywhere (iLO Advanced included)
- Optimize power confidently
- Integrate and extend your HP Software, Microsoft® System Center, Red Hat® Enterprise Virtualization, and VMware vCenter™ Server environment

HP Insight Control delivers complete lifecycle management for HP ProLiant and BladeSystem infrastructure. Delivered on DVD media, Insight Control software uses an integrated installer to deploy and configure HP Systems Insight Manager (HP SIM) and essential infrastructure management software rapidly and consistently -- reducing manual installation procedures and speeding time-to-production. A single, consistent management environment is provided for provisioning of the operating system and hardware configuration. HP Insight Control also includes full capabilities to migrate complete servers (both physical and virtual) to new servers (both virtual and physical), with support for converting from physical-to-virtual (and vice-versa) and converting between virtualization platforms from various vendors. In addition, Insight Control provides proactive health and performance monitoring, power management, performance analysis, lights-out remote management, and virtual machine management for HP ProLiant servers and HP BladeSystem infrastructure. Insight Control also provides seamless single-console integration with Microsoft® System Center and VMware vCenter Server™ for users who have standardized on those management consoles.

HP Insight Control is based on HP Systems Insight Manager (HP SIM) as the primary management console and includes an iLO Advanced license. HP Insight Control runs on a Windows-based central management server (CMS) and can manage server nodes running both Windows and Linux operating systems.

HP Insight Control for Microsoft System Center is offered for customers that have chosen Microsoft System Center as their primary console. Based on HP Insight Control, it adds several extensions to make the ProLiant management information available through the System Center consoles, and also adds monitoring, alerting, proactive virtual machine management, and ProLiant OS deployment and update capabilities to the System Center consoles.

HP Insight Control for VMware vCenter Server is offered for customers that have chosen VMware vCenter Server as their primary console. Based on HP Insight Control, it adds several extensions to make the ProLiant management information available through the VMware vCenter Server console, enabling comprehensive monitoring, remote control, and power optimization directly from the vCenter console.

HP Insight Control for Red Hat Enterprise Virtualization is offered for customers that have chosen Red Hat Enterprise Virtualization (RHEV) as their primary console. Based on HP Insight Control, it adds a single extension to make ProLiant and BladeSystem management available through the RHEV management console.

HP Insight Control includes one year of 24 x 7 HP Software Technical Support and Update Service ensuring rapid access to HP support staff and proactive delivery of software updates. For more information about this service, please visit: <http://www.hp.com/services/insight>.

Electronic software license delivery is now available in most countries. HP recommends purchasing electronic products over physical products (when available) for faster delivery and for the convenience of not tracking and managing confidential paper licenses. For

Overview

more information, please contact your reseller or an HP representative.

A license entitlement certificate is delivered via physical shipment or via e-mail. The license entitlement certificate contains information needed to redeem license activation key(s) online or via fax. The electronic redemption process allows for easier license management and better service and support tracking. For more information, please visit: <http://www.hp.com/go/insightlicense>.

What's New

- Insight Control 7.3 enhancements includes:
 - IPv6 support to manage IPv6 environments
 - Localization in simplified Chinese

Models

HP Insight Control standalone licenses

HP Insight Control including 1yr 24x7 Technical Support and Updates Single Server License	C6N27A
HP Insight Control including 1yr 24x7 Technical Support and Updates Electronic License NOTE: The Electronic software license is available in EMEA only.	C6N28ABE
HP Insight Control including 1yr 24x7 Technical Support and Updates Flexible Quantity License	C6N28A
HP Insight Control including 1yr 24x7 Technical Support and Updates Tracking License	C6N29A
HP Insight Control Server Provisioning Media Kit	BD883A
HP Insight Management Media Kit	C6N31A

NOTE: HP Insight Control 7.2 introduced Insight Control server provisioning, a new capability ideal for multi-server OS and firmware provisioning to ProLiant and BladeSystem servers. Insight Control server provisioning is included and licensed as part of HP Insight Control. A media kit, "HP Insight Control server provisioning USB media kit" (# BD883A), including a USB, is available for customers who require a physical copy of the media loaded with Insight Control server provisioning software. Please note that this media kit is separate and in addition to the "HP Insight Management DVD media kit" (#C6N31A).

NOTE: Insight Management DVD media without licenses. Contains HP Systems Insight Manager, HP Insight Control, HP Matrix Operating Environment, and Virtual Connect Enterprise Manager software. An integrated installer to perform quick and accurate software installation and updates.

NOTE: Licenses ship without media. The Insight Management Media Kit can be ordered separately, or can be downloaded at: <http://www.hp.com/go/insightupdates>.

NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single set of activation keys.

NOTE: Tracking licenses may only be purchased by customers that have implemented an activation key agreement (AKA) with HP. For more information on Activation Key Agreements please visit:

<http://h18013.www1.hp.com/products/servers/proliantessentials/license/options.html>

HP Insight Control licenses for bundling

NOTE: The following Insight Control part numbers can only be used when ordered on the same order as a supported ProLiant ML, DL, or BL server.

Overview

with ProLiant ML/DL/BL servers	<p>HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle FIO Electronic License NOTE: The Electronic software license is available in EMEA only.</p> <p>HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO License</p> <p>HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Tracking License NOTE: Licenses ship without media. The Insight Management Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightupdates. NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single set of activation keys. NOTE: Tracking licenses may only be purchased by customers that have implemented an activation key agreement (AKA) with HP. For more information on Activation Key Agreements please visit: http://h18013.www1.hp.com/products/servers/proliantessentials/license/options.html</p>	<p>C6N36ABE</p> <p>C6N36A</p> <p>C6N37A</p>
---------------------------------------	--	---

HP Insight Control bundled with ProLiant servers

HP ProLiant Gen8 Server bundles with Insight Control

<p>HP ProLiant DL360p Gen8 E5-2650 Performance Model server with Insight Control license NOTE: Contains two 2.0GHz Intel® Xeon® E5-2650 processors, 32GB memory, HP P42i SA w/2GB cache, two 460W hot-plug redundant power supplies and a single-server Insight Control license with 1 year of 24x7 Technical Support and Updates. NOTE: Please QuickSpecs and Technical Specifications see: http://h18000.www1.hp.com/products/quickspecs/13598_div/13598_div.html</p> <p>HP ProLiant DL360p Gen8 E5-2690 Performance Model server with Insight Control license NOTE: Contains two 2.9GHz Intel® Xeon® E5-2690 processors, 32GB memory, HP P42i SA w/2GB cache, two 460-W hot-plug redundant power supplies and a single-server Insight Control license with 1 year of 24x7 Technical Support and Updates. NOTE: Please QuickSpecs and Technical Specifications see: http://h18000.www1.hp.com/products/quickspecs/13598_div/13598_div.html</p> <p>HP ProLiant DL380p Gen8 E5-2650 Performance Model server with Insight Control license NOTE: Contains two 2.0GHz Intel® Xeon® E5-2650 processors, 32GB memory, HP P420i SA w/ 2GB cache, two 750W hot-plug redundant power supplies and a single-server Insight Control license with 1 year of 24x7 Technical Support and Updates. NOTE: Please QuickSpecs and Technical Specifications see: http://h18000.www1.hp.com/products/quickspecs/13595_div/13595_div.html</p> <p>HP ProLiant DL380p Gen8 E5-2665 Performance Model server with Insight Control license NOTE: Contains two 2.4GHz Intel® Xeon® E5-2665 processors, 32GB memory, HP P420i SA w/ 2GB cache, two 750W hot-plug redundant power supplies and a single-server Insight Control license with 1 year of 24x7 Technical Support and Updates. NOTE: Please QuickSpecs and Technical Specifications see: http://h18000.www1.hp.com/products/quickspecs/13595_div/13595_div.html</p> <p>HP ProLiant DL380p Gen8 E5-2690 Performance Model server with Insight Control license</p>	<p>646904-xx1</p> <p>646905-xx1</p> <p>642106-xx1</p> <p>642105-xx1</p> <p>662257-xx1</p>
---	---

Overview

NOTE: Contains two 2.9GHz Intel® Xeon® E5-2690 processors, 32GB memory, HP P420i SA w/ 2GB cache, two 750W hot-plug redundant power supplies and a single-server Insight Control license with 1 year of 24x7 Technical Support and Updates.

NOTE: Please QuickSpecs and Technical Specifications see:

http://h18000.www1.hp.com/products/quickspecs/13595_div/13595_div.html

HP ProLiant G7 Server bundles with Insight Control

HP ProLiant DL580 G7 E7-4870 Performance Model server with Insight Control license 643063-xx1

NOTE: Contains four 2.4-GHz Intel® Xeon® E7-4870 processors, 128 GB memory, four 1200-W hot-plug redundant power supplies and a single-server Insight Control license with 1 year of 24x7 Technical Support and Updates.

NOTE: For QuickSpecs and Technical Specifications, see

http://h18000.www1.hp.com/products/quickspecs/13669_na/13669_na.html

HP ProLiant DL585 G7 6386SE Performance Model server with Insight Control license 704160-xx1

NOTE: Contains four 2.8-GHz AMD Opteron™ 6386SE processor, 128 GB memory, four 1200-W hot-plug redundant power supplies and a single-server Insight Control license with 1 year 24x7 Technical Support and Updates.

HP ProLiant DL585 G7 6376 Performance Model server with Insight Control license 708687-xx1

NOTE: Contains four 2.3 GHz AMD Opteron™ 6376 processors, 64 GB memory, four 1200-W hot plug redundant power supplies and a single-server Insight Control license with 1 year 24x7 Technical Support and Updates.

HP ProLiant DL585 G7 6380 Performance Model server with Insight Control license 704159-xx1

NOTE: Contains four 2.5 GHz AMD Opteron™ 6380 processors, 128 GB memory, four 1200-W hot-plug redundant power supplies and a single-server Insight Control license with 1 year of 24x7 Technical Support and Updates

HP ProLiant DL585 G7 6238 Performance Model server with Insight Control license 653748-xx1

NOTE: Contains two 2.6-GHz AMD Opteron™ 6238 processors, 32 GB memory, two 1200-W hot-plug redundant power supplies and a single-server Insight Control license with 1 year of 24x7 Technical Support and Updates.

NOTE: For QuickSpecs and Technical Specifications, see

http://h18004.www1.hp.com/products/quickspecs/13642_div/13642_div.html

HP ProLiant DL585 G7 6180SE Performance Model server with Insight Control license 633964-xx1

NOTE: Contains four 2.5-GHz AMD Opteron™ 6180SE processors, 64 GB memory, four 1200-W hot-plug redundant power supplies and a single-server Insight Control license with 1 year of 24x7 Technical Support and Updates.

NOTE: For QuickSpecs and Technical Specifications, see:

http://h18004.www1.hp.com/products/quickspecs/13642_div/13642_div.html

HP ProLiant DL585 G7 6272 Performance Model server with Insight Control license 653747-xx1

NOTE: Contains four 2.1-GHz AMD Opteron™ 6272 processors, 64 GB memory, four 1200-W hot-plug redundant power supplies and a single-server Insight Control license with 1 year of 24x7 Technical Support and Updates.

NOTE: For QuickSpecs and Technical Specifications, see

http://h18004.www1.hp.com/products/quickspecs/13642_div/13642_div.html

HP ProLiant DL585 G7 6276 Performance Model server with Insight Control license 653746-xx1

NOTE: Contains four 2.3-GHz AMD Opteron™ 6276 processors, 128 GB memory, four 1200-W hot-plug redundant power supplies and a single-server Insight Control license with 1 year of 24x7 Technical Support and Updates.

NOTE: For QuickSpecs and Technical Specifications, see

http://h18004.www1.hp.com/products/quickspecs/13642_div/13642_div.html

Overview

<p>HP ProLiant DL585 G7 6282SE Performance Model server with Insight Control license NOTE: Contains four 2.6-GHz AMD Opteron™ 6282SE processors, 128 GB memory, four 1200-W hot-plug redundant power supplies and a single-server Insight Control license with 1 year of 24x7 Technical Support and Updates. NOTE: For QuickSpecs and Technical Specifications, see http://h18004.www1.hp.com/products/quickspecs/13642_div/13642_div.html</p>	653745-xx1
<p>HP ProLiant DL980 G7 E7-2830 2.13GHz 8 Core 4p Server NOTE: Contains four 2.13-GHz Intel® Xeon® E7-2830 processors, 128 GB ECC mirrored memory, four 1200-W hot-plug redundant power supplies and a single-server Insight Control license with 1 year of 24x7 Technical Support and Updates. NOTE: For QuickSpecs and Technical Specifications, see http://h18004.www1.hp.com/products/quickspecs/13708_div/13708_div.html</p>	AM449A
<p>HP ProLiant DL980 G7 E7-2860 2.26GHz 10 Core 4p Server NOTE: Contains four 2.26-GHz Intel® Xeon® E7-2860 processors, 128 GB ECC mirrored memory, four 1200-W hot-plug redundant power supplies and a single-server Insight Control license with 1 year of 24x7 Technical Support and Updates. NOTE: For QuickSpecs and Technical Specifications, see http://h18004.www1.hp.com/products/quickspecs/13708_div/13708_div.html</p>	AM448A
<p>HP ProLiant DL980 G7 E7-4870 2.4GHz 10 Core 4p Server NOTE: Contains four 2.40-GHz Intel® Xeon® E7-4870 processors, 256 GB ECC mirrored memory, eight 1200-W hot-plug redundant power supplies and a single-server Insight Control license with 1 year of 24x7 Technical Support and Updates. NOTE: For QuickSpecs and Technical Specifications, see http://h18004.www1.hp.com/products/quickspecs/13708_div/13708_div.html</p>	AM447A

HP Insight Control bundled with BladeSystem enclosures

<p>BladeSystem c3000 enclosure rack models - Supports up to 8 blades</p> <p>HP BLc3000 Enclosure with 4 AC Power Supplies 6 Fan Full ICE License NOTE: Includes 4 AC Power Supplies, 6 Active Cool 100 Fans, DVD drive, Rail Kit, Onboard Administrator DDR2 module and 8 Insight Control licenses.</p>	508664-B21
<p>BladeSystem c7000 enclosure models - Supports up to 16 blades</p> <p>HP BLc7000 Enclosure with 1 Phase 6 Power Supply 10 Fan FI ROHS ICE License NOTE: Single-Phase with 6 Power Supplies, 10 Fans with 16 Insight Control licenses, including 1 year of 24x7 Technical Support and Updates.</p>	507015-B21
<p>HP BLc7000 Enclosure with 3 Phase 6 Power Supply 10 Fan ENG ROHS ICE License NOTE: Three-Phase North America/Japan with 6 Power Supplies, 10 Fans with 16 Insight Control licenses, including 1 year of 24x7 Technical Support and Updates.</p>	507017-B21
<p>HP BLc7000 Enclosure with 3 Phase 6 Power Supply 10 Fan INTL ROHS ICE License NOTE: Three-Phase International with 6 Power Supplies, 10 Fans with 16 Insight Control licenses, including 1 year of 24x7 Technical Support and Updates.</p>	507016-B21
<p>HP Insight Control licenses for bundling with BladeSystem enclosures NOTE: The following Insight Control part numbers can only be used when ordered on the same order as a BladeSystem c3000 or c7000 enclosure.</p>	
<p>HP Insight Control for BladeSystem including 1yr 24x7 Support Enclosure 8 Svr FIO Electronic License NOTE: The Electronic software license is available in EMEA only.</p>	C6N32ABE
<p>HP Insight Control Encl FIO Bundle 8 Lic</p>	C6N32A

Overview

HP Insight Control for BladeSystem including 1yr 24x7 Support Enclosure 16Svr FIO Electronic License	C6N33ABE
NOTE: The Electronic software license is available in EMEA only.	
HP Insight Control Enc FIO Bundle 16 Lic	C6N33A
HP Insight Control for BladeSystem including 1yr 24x7 Support Enclosure 8 Server Tracking License	C6N34A
HP Insight Control for BladeSystem including 1yr 24x7 Support Enclosure 16 Server Tracking License	C6N35A
NOTE: Licenses bought with part numbers in this section can only be used for BladeSystem servers.	
NOTE: Licenses ship without media. The Insight Management Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightupdates .	
NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single set of activation keys.	
NOTE: Tracking licenses may only be purchased by customers that have implemented an activation key agreement (AKA) with HP. For more information on Activation Key Agreements please visit: http://h18013.www1.hp.com/products/servers/proliantessentials/license/options.html	

HP Insight Control remote management / Integrated Lights-Out (iLO) Advanced standalone

HP Integrated Lights-Out (iLO) Advanced for ProLiant

HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server License	512485-B21
HP iLO Advanced including 1yr 24x7 Technical Support and Updates Flexible Quantity License	512486-B21
HP iLO Advanced including 1yr 24x7 Technical Support and Updates Tracking License	512487-B21
HP iLO Advanced 1 Server License with 3yr 24x7 Tech Support and Updates	BD505A
HP iLO Advanced Flexible Qty License with 3yr 24x7 Tech Support and Updates	BD506A
HP iLO Advanced Tracking License with 3yr 24x7 Tech Support and Updates	BD507A

HP Integrated Lights-Out (iLO) Advanced for ProLiant BladeSystem Remote Management

HP iLO Advanced for BladeSystem including 1yr 24x7 Support Single Server License	512488-B21
HP iLO Advanced for BladeSystem including 1yr 24x7 Support Flexible Quantity License	512490-B21
HP iLO Advanced for BladeSystem including 1yr 24x7 Support Tracking License	512491-B21
HP iLO Advanced Blade 1 Server License with 3yr 24x7 Tech Support and Updates	BD502A
HP iLO Advanced Blade Flex Qty License with 3yr 24x7 Tech Support and Updates	BD503A
HP iLO Advanced Blade Tracking License with 3yr 24x7 Tech Support and Updates	BD504A

NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.

NOTE: Tracking licenses may only be purchased by customers that have implemented an activation key agreement (AKA) with HP. For more information on Activation Key Agreements please visit:

<http://h18013.www1.hp.com/products/servers/proliantessentials/license/options.html>

Overview

HP Insight Control remote management / Integrated Lights-Out (iLO) Advanced Upgrade to Insight Control	HP Insight Control Upgrade from iLO Advanced including 1yr 24x7 Support Flexible Quantity License HP Insight Control Upgrade from iLO Advanced including 1yr 24x7 Support Electronic License NOTE: The Electronic software license is available in EMEA only. NOTE: For use in environments where iLO Advanced is already licensed. NOTE: Licenses ship without media. The Insight Management Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightupdates . NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single set of activation keys.	C6N38A C6N38ABE
HP Insight Control server deployment standalone	HP Insight Control Server Deployment including 1yr 24x7 Support Electronic License HP Insight Control Server Deployment including 1yr 24x7 Support Single Server License HP Insight Control Server Deployment including 1yr 24x7 Support Flexible Quantity License HP Insight Control Server Deployment including 1yr 24x7 Support Tracking License NOTE: Licenses ship without media. The Insight Management Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightupdates . NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key. NOTE: Tracking licenses may only be purchased by customers that have implemented an activation key agreement (AKA) with HP. For more information on Activation Key Agreements please visit: http://h18013.www1.hp.com/products/servers/proliantessentials/license/options.html	T9082AAE 452151-B21 452152-B21 452165-B21
HP Insight Control server deployment Upgrade to Insight Control	HP Insight Control Server Deployment Upgr to Insight Control including 1yr 24x7 Supp Electronic Lic HP Insight Control Upgrade from Rapid Deployment including 1yr 24x7 Support Flexible Quantity Lic NOTE: For use in environments where Insight Control server deployment is already installed and licensed. NOTE: Licenses ship without media. The Insight Management Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightupdates . NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single set of activation keys.	T9101ABE 436753-B23

Standard Features

Product Features

Insight Control includes several important functionalities, including:

- HP Systems Insight Manager
- Performance management
- Power management
- Remote management (iLO Advanced)
- Server provisioning
- Server migration
- Virtual machine management
- Integration extensions for Microsoft® System Center
- Integration extensions for VMware vCenter Server™
- Installer

HP Insight Control runs on a Windows-based central management server (CMS) and can manage server nodes running both Windows and Linux operating systems. (The server operating systems are not included and must be purchased separately.)

The purchase of Insight Control (or upgrades from Integrated Lights-Out (iLO) Advanced or Insight Control server deployment to Insight Control) includes 1 year of 24x7 Technical Support and Updates (TS&U). Upgrades to 3 or more years of TS&U are available.

When ordering Insight Control, customers will receive a license entitlement certificate via physical shipment or via email. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s).

Obtaining Insight Control software

Insight Control software can be obtained in two ways. (1) as a software download from the HP Software depot web site or (2) on the Insight Management DVD media kit.

Integrated installer

The Insight Management DVD integrated installer provides a streamlined, automated process to deploy and configure HP SIM and essential management software more consistently and rapidly, with less manual intervention.

The integrated installer includes a wizard-based interface that presents a series of configuration questions. The HP Insight Management Advisor also checks to ensure that the host central management server meets all installation pre-requisites prior to initiating the installation process. Once the installation has completed, use the Insight Management Update Utility to check for available software updates.

Standard Features

Unified infrastructure management

HP Insight Control, based on HP Systems Insight Manager (HP SIM), provides a unified, secure and extensible platform to centrally manage servers, storage, and other infrastructure devices across heterogeneous operating system environments. (For example, HP Insight Control can manage server nodes running both Windows and Linux operating systems.)

HP Systems Insight Manager (HP SIM) is the clear choice for managing HP servers and storage by being the easiest, simplest, and least expensive way for HP system administrators to maximize system uptime and health.

- HP SIM provides hardware-level management for HP ProLiant servers, HP Integrity servers, HP BladeSystems; HP MSA, HP EVA, and HP XP storage arrays; and HP Networking A-series devices
- It includes device discovery, identification, and asset management. All asset information is stored in a database for systematic inventory management.
- Users can generate various reports based on formats using the latest industry standards
- Integrated with HP Insight Remote Support Advanced, HP SIM also provides contracts and warranty management, and automates remote support
- ProLiant and Integrity servers running Windows and Linux can automatically download the latest BIOS, driver, and agent updates. HP SIM will also identify systems running out-of-date systems software and enable system software updates across groups of servers

For more information, see www.hp.com/go/hpsim

Insight Control remote management (iLO Advanced)

HP Insight Control remote management provides a license for iLO Advanced, HP's premier solution for comprehensive lights-out remote management capabilities for ProLiant servers. This environment-management solution includes remote access to server power control and event logs, virtual media for simple deployment and update of remote servers, high-performance virtual keyboard-virtual-mouse (KVM) for routine and emergency remote administration, and single-server power measurement and regulation.

HP Insight Control helps distributed IT teams effectively collaborate to solve complex IT problems. The shared console capability allows up to six team members to view and share control of a single virtual KVM session. In addition "console replay" captures and saves screen video to enable review of failure sequences and easily document complex configuration administrative tasks.

Key remote management features include:

- **Embedded hardware Graphical Remote Console** capabilities that can turn a supported browser into a virtual desktop, giving the user full control over the display, keyboard, and mouse of the host server. The operating-system-independent console supports graphic modes that display remote host server activities (i.e. shutdown and startup operations) and works with a standard browser (without additional software) on the remote server or client system.
- **USB-based Virtual Media** feature allows an IT administrator to boot the remote server using a standard 1.44-MB diskette on the client machine, a DVD/CD drive or USB flash drive on the client machine, or the image of a floppy diskette or DVD/CD from anywhere on the client's network. After the remote server has booted a USB-capable operating system, the virtual device or ISO 9660 image is available as if it were a local USB device. Administrators can execute functions remotely from an applet user interface, command line, or script.
- **Integration with enterprise-class directory services** to provide secure, scalable, and cost effective user management. Directory services, such as Microsoft Active Directory and Novell eDirectory, can be used to authorize directory users with assigned user roles to Integrated Lights-

Standard Features

Out (iLO) processors. With Active Directory, customers have the flexibility to integrate with or without a schema extension. An easy and reliable installation program is available to install a management console snap-in and extend customer's existing directory schema to enable directory support for the HP lights-out management products. A directory migration tool is available to automate setup for both methods of integration. Also supports the Active Directory nested groups feature.

- **Advanced user authentication** with two-factor authentication via Kerberos using digital certificates embedded on smartcards or USB. Using this form of strong authentication, iLO access can be restricted to IT individuals possessing a certificate-bearing smartcard or USB and a PIN.
- **Integration with Microsoft Terminal Services** to provide a high-performance graphical remote console by automatically or manually switching to Microsoft Terminal Services when the operating system is fully loaded and available on the host system. When the operating system is not operational, continues to provide its secure, hardware-based Lights-Out console for end-to-end remote access to the host server. In addition, the Microsoft Terminal Services session is routed through the management network interface to improve production network security.
- **Embedded wizard** to guide users through initial HP BladeSystem configuration and setup using the familiar Lights-Out interface. Configuration and installation of Lights-Out, blade server, and operating system also includes integrated activation of Virtual Media using the appropriate media. An HP BladeSystem rack image is automatically rendered for easy point-and-click navigation between blades and enclosures within a single rack.
- **Secure Shell Text Console (Textcons)** provides scripting tools and an alternate remote management functionality, used mostly in Linux environments, instead of the Integrated Graphic Remote Console, for set up and deployment of servers. Textcons, takes text data from the video chip, redirecting it out over a secured network, where the user can configure their BIOS, the OS loader and the OS itself.
- **Serial record and play back** is taking the output data from the Remote Serial Console (Textcons) and saving it to iLO memory for the customer to access later. Very similar to "console replay", but is text based data only from the serial port. This would be used to store logs of data and/or history of activity so a customer can retrieve it later to see exactly what activity was done - or actions occurred (Play back) but all text based. Linux customers normally use this functionality don't have monitors at remote locations so this allows them the usability to send and retrieve data remotely all don't via Remote Serial Console or virtual serial ports.
- **Remote System logs** iLO keeps a log of everything being done, so it can later be used for troubleshooting or simply have a record. Syslog can be configured to receive logging from a remote client, or to send logging to a remote syslog server. Remote logging is sending a duplicate record of those events not only to the local machine but to a remote machine as well for enhanced security.

For more information, and a complete listing of ProLiant servers supporting iLO, please visit:
<http://www.hp.com/go/iLO>

Insight Control power management

HP Insight Control power management is an integrated power monitoring and energy management application that provides centralized monitoring and control of datacenter power consumption and thermal output. Energy instrumentation connected into HP Systems Insight Manager enables greater Unified Infrastructure Management, and is compatible with any operating system residing on the managed server. Insight Control power management provides tools to increase the capacity of your datacenter by reducing power and cooling requirements of ProLiant servers to a level which accurately reflects the workloads of your servers. Built upon ProLiant Power Regulator technology it provides performance when you need it, and cost savings when you don't.

Key power management features:

Standard Features

- Provides a central location where power and thermal data for tens, hundreds, or thousands of servers may be viewed and managed. Physical and power topology configurations can be easily modified through the user interface or from spreadsheets and configuration management repositories using import tools
- Limiting the server(s) power consumption to an average level, power capping can be set to minimize overall power consumption and heat output.
- **Data Center Power Control** allows customers to reduce their energy costs and take control of their power and cooling during catastrophic events. Customers set pre-defined rules to handle power and cooling rules. These rules act selectively on systems based on attributes and relationships to gracefully shutdown the OS or change iLO power regulator state. In addition customers can take control over their energy usage and power down non-essential servers during peak hours. Power consumption goals can be defined and rule execution conditionally stopped if the goals are achieved.
- **Integration with facilities management software** allows customers to do their rack and power planning using precise, actual power data instead of estimates. Information from facilities management software will be imported into Insight Control power management allowing us to provide an electrical inventory along with load data.
- **Discovery of metered PDU's** allowing Insight Control power management the ability to measure power consumption for a heterogeneous environment. Includes the capability to monitor leading non-HP power distribution units (PDUs).
- **Dynamic Power Capping** safely limits power usage with no performance degradation and without risk to electrical infrastructure. Insight Control power management allows the setting of power caps for one or many systems at a time. For single rack servers, power caps are applied via the iLO management processor and will limit power usage to a specific Watt or BTU/hr level. For enclosures of blades, users can set an enclosure level power cap, and the Onboard Administrator will dynamically adjust individual server power caps based on their specific power requirements. Capping power usage at historical peak power usage -- instead of significantly higher face-plate, ROM burn, or power calculator default values -- allows IT organizations to fit up to 36% more servers in their existing rack infrastructure
- **Power Discovery Services** enables visualization of datacenter power topology via the intelligent power distribution units (iPDUs) Enables the automatic detection of wiring errors, and with automatic updates for electrical inventory when new servers are installed. Discovery capabilities have been enhanced with 'outlet control', which enables the (iPDUs) to manage each outlet where a device is plugged in -- for enhanced power monitoring with remote control from Insight Control.
- Location Discovery Services enable Insight Control power management to automatically know and display the exact location of Gen8 servers within the Intelligent series rack. This provides reduced labor time, operational costs and human errors associated with inventory and asset management.
- Each power/thermal graph has an Analysis dashboard that summarizes key information for the selected server(s), rack or data centers. The data displayed includes total power consumed in kWh, the estimated costs of powering and cooling the selected server(s), and the estimated costs saved through the use of policy-management based on HP's Power Regulator technology.
- Insight Control power management takes action to change the HP Power Regulator settings on a single server or on multiple servers all at once. These actions may be executed immediately or scheduled to occur at a future time or on a recurring basis. Action scheduling can be used to set time-based power policies on single servers as well as collections of servers.
- **Enhanced Reports** communicate power and thermal information -- from individual server utilization to data-center-level summaries and analysis. Reports on under-utilized servers identify those that are power hogs, are idle but still running, or are decommissioned but not powered off.

For more information on Location Discovery Services, please refer the Location Discovery QuickSpecs at:

Standard Features

http://h18004.www1.hp.com/products/quickspecs/14429_div/14429_div.html

For a listing of servers that support Insight Control power management please see the Insight Management Support Matrix at: <http://www.hp.com/go/insightsoftware/docs>.

Insight Control performance management

HP Insight Control detects, analyzes, and explains hardware bottlenecks on HP ProLiant servers. HP Insight Control provides the tools you need to receive proactive notification of building bottleneck conditions, and debug existing performance issues. The performance information is analyzed to determine if there is a building or existing performance bottleneck issue. You can interactively display this information, log the information to a database for later analysis and reporting, and set up proactive notification using the HP Systems Insight Manager notification mechanism.

Key performance management features:

- **Monitors** the hardware performance continuously, compares it with known performances capabilities of each component and determines, in real time, what components are experiencing performance issues.
- **Creates events** when the performance state of a server changes. Insight Control detects these changes early, displaying a warning before an actual bottleneck happens.
- **Provides an interactive, online debugging** tool that can be used in real time to understand and correct performance issues. The tool provides precise indications of what the issue is, why it is of concern, and what can be done about it. Features such as real-time performance graphing allow system administrators to decide whether an issue needs to be addressed immediately or corrective actions can wait.
- **Can be configured to log server performance data.** This data can later be extracted and replayed in offline analysis just as if the user was sitting in front of the server when the performance issue happened. When used in conjunction with the dynamic performance graphing and altering features, administrators can determine if an off-hours performance issue needs to be addressed immediately or corrective steps can be put off until normal business hours.
- **Analyzes the configuration of server components** and determines if the server configuration contains potentially problematic configurations. Potential issues such as PCI bus imbalance, SCSI drives operating at reduced speed, and inactive network ports are detected and reported.
- **Supplies a summary report** that shows the percentage of time the server was in a bottleneck state or near-bottleneck state and overall performance utilization for a system broken down by its subsystems combined with a complete inventory report of that server.
- Supports performance monitoring and analyses of select MSA shared storage devices. This functionality provides full drill-down capabilities from a server to attached shared storage devices, and from there "drill-up" to the attached servers.

Standard Features

Insight Control server provisioning

HP Insight Control offers a complete provisioning solution for HP servers. Insight Control server provisioning automates the process of deploying and provisioning server software, enabling companies to quickly and easily adapt to changing business demands. Provisioning servers can be accomplished either through imaging or through scripting. Insight Control supports deploying Windows, Linux, VMware ESX and Microsoft Hyper-V systems.

Key server provisioning features:

- **Rapid server provisioning** from hours and days to minutes
- **Provides a fast, easy, drag-and-drop solution** for provisioning standard server configurations and software builds in an automated fashion from a remote console
- **Simplifies automated server provisioning** allowing companies to rapidly respond to changing workloads
- **Improves overall consistency** of configurations across multiple servers
- **Fast and Easy to setup** installing as a virtual machine appliance in about an hour within the data center or at remote locations, eliminating the need for IT personnel to be physically present
- **Reduces IT resource requirements** during large-scale provisioning
- **Provides scripts** developed, tested, and supported by HP to enable rapid deployment of HP servers
- **Simple to operate** leveraging HP Intelligent Provisioning for PXE-free deployments
- Supports SAN Boot or SAN Attach provisioning on ProLiant BL servers and select ProLiant DL servers.
- Operating System provisioning for the latest Windows, Red Hat, ESXi, and SUSE versions, as well as server firmware, BIOS, HP Smart Array and iLO.
- Support for ProLiant G7 and G6 servers as well as optimized for ProLiant Gen8 / PXE-free intelligent provisioning

Insight Control server migration

HP Insight Control makes it easy to upgrade or replace your existing server, or to implement virtualization. HP Insight Control enables you to replicate your well-functioning, but under-performing or over-provisioned server to a new physical or virtual server in an automated, accurate and affordable way.

Key server migration features:

- Perform Physical-to-ProLiant (P2P), Virtual-to-ProLiant (V2P), Physical-to-Virtual (P2V), or Virtual-to-Virtual (V2V) migrations from a single integrated user interface
- An unlimited number of server migrations is allowed.
- Supports Migrations from any x86/x64 server regardless of vendor to the latest HP ProLiant or BladeSystem server technologies
- Source can be any x86/x64 server with a supported OS or a supported VM-type
- Destination can be a supported HP ProLiant or BladeSystem server or a supported virtual machine
- Heterogeneous virtualization platform support enables Ability to migrate between virtualization platform, such as VMware ESX and Microsoft Hyper-V.
- Supports server migrations across FibreChannel over Ethernet (FCoE) and iSCSI environments, and across Linux SAN environments.
- Automates the migration of the OS, application, and data from an existing physical server or virtual machine to a new ProLiant server or virtual machine. Manual steps required to do the migration are eliminated. Automatically install the latest PSP when migrating to a ProLiant server (P2ProLiant or V2ProLiant).
- The extremely intuitive user interface enables consistent migrations without prior training.
- The source server is always available just the way it was running before the migration since no additional drivers are installed on the source server. No modification to the source server ensures a

Standard Features

- consistent image between source and destination.
- Having no source device driver dependency enables the migration of any x86/x64 source server running a supported operating system.
- Match availability of drive space on the destination server by excluding drives and partitions and/or resizing NTFS partitions during the migration. The size of the NTFS partitions may be increased or decreased.
- Tried and tested with the correct destination device drivers for all supported destination servers.
NOTE: Before migrating, check and make sure all licenses may be legally transferred to the destination server.
- Support for migrations in a SAN environment when migrating to HP BladeSystem c-Class, including migrating servers from direct attach storage to boot from SAN.

Insight Control virtual machine management

The HP Insight Control significantly extends HP Systems Insight Manager (HP SIM) capabilities to manage virtual machines. HP Insight Control seamlessly merges hardware and heterogeneous virtualization management of VMware ESX, Microsoft Hyper-V, and Xen (on RHEL & SLES environments) virtual machines.

Insight Control enables you to get the most out of a unified physical and virtual server infrastructure. Insight Control offers an out-of-the-box solution that can receive a predictive failure alert and automatically evacuate all VMs from a VMware ESX host server by initiating VMware DRS. VMware ESXi 5 environments also support lockdown/non-lockdown modes, autoboot, and stateless/stateful modes. Lockdown mode provides for increased security of ESXi hosts.

Key virtual machine management features:

- **Provides associations** between virtual machines and physical host and integration into a single console and enables all tasks to be run from the Insight Control console, leveraging existing discovery, identification and notification processes.
- **Provides control functions for virtual machines** in VMware ESX, Microsoft Hyper-V, and Xen on RHEL & SLES from a central console that allows users to manage virtual machines in a consistent manner irrespective of virtualization layer.
- Provides start, stop, pause, reset, move, copy, backup, create template and restore functions for VMs remotely from the Insight Control console.
- **Flexible move capabilities** allow multiple usage scenarios. In high-availability situations that do not allow service interruptions, Live Move (initiate VMware vMotion technology from Insight Control - requires VMware vCenter) can be used (for VMware ESX hosts only). Where flexibility is required to execute fast moves between dissimilar host hardware, SAN-based fast move can be enabled (VMware ESX hosts only).
In high-availability situations, quick move capabilities can be used for Microsoft Hyper-V (MSCS clusters only).
Where the VM Host is not connected to a SAN, a file-copy move can be used.
- Make informed decisions on workload optimization with "at a glance" single view of virtual machine and associated host server performance. Set usage thresholds for CPU, memory, and disk usage and proactively receive alerts in SIM when thresholds are exceeded and take corrective action.
- Automatically respond to predictive hardware failures on VMware ESX host servers by relocating VMs before a server fails, reducing downtime.
- Launch VMware vCenter or Microsoft System Centre Virtual Machine Manager from Insight Control to perform tasks as needed. View VMware ESX host cluster and resource pool properties from VMware vCenter in the Insight Control console.

Standard Features

- **Collect events** from VMware ESX and VMware vCenter to use HP Insight Control as your central event consolidation and alerting tool.
- **Enables the safe and orderly shutdown** of VMware ESX hosts when the VMware's DPM has freed up a VMware ESX host to shut down for power saving purposes. Insight Control communicates with VMware vCenter (and DPM) and will prevent HP SIM from setting the host status to "critical".

Extensions for Microsoft System Center

Insight Control for Microsoft System Center delivers comprehensive system health, configuration management and remote control, as well as flexible deployment in one easy to install package. Insight Control for Microsoft System Center provides seamless integration of the unique ProLiant and BladeSystem manageability features into the System Center consoles.

Key Insight Control for Microsoft System Center features:

System Center Operations Manager (SCOM) support:

- The HP ProLiant and BladeSystem Management Packs expose the native capabilities of ProLiant and BladeSystem servers and enclosures to help prevent problems from occurring by proactively monitoring and managing hardware health and intelligently responding to hardware events on servers running Windows.
- The HP Virtual Connect Management Pack provides health status and alerting for the logical and physical components of HP Virtual Connect.
- The HP ProLiant Agentless Management Pack manages the health of ProLiant Gen8 servers without the need for loading OS-based SNMP agents or WBEM providers. It can also be used to monitor the health of servers that do not have an OS yet loaded, as well as ProLiant Gen8 servers running any operating system that has a supported Agentless Monitoring Service (such as VMware ESXi).
- The HP ProLiant Linux and VMware Management Packs provide the ability to monitor hardware health and configuration, as well as to receive HP hardware alerts, on ProLiant servers running Linux and VMware ESX.
- Support for SCOM 2007 and SCOM 2012 for all HP SCOM management packs, including SCOM 2012 R2 and Windows Server 2012 R2.

System Center Virtual Machine Manager (SCVMM) support:

- The HP Fabric Management Add-in provides a consolidated configuration view in SCVMM 2012 SP1/R2 for VMs, Windows networks, and HP Virtual Connect from the VM to the network edge.
- The HP SCVMM 2012 Integration Kit provides HP WinPE and production drivers for ProLiant servers to assist with OS deployment via SCVMM 2012 SP1.
- The HP ProLiant Updates Catalog provides simplified Windows driver and firmware updates via a rotating, automated workflow for Hyper-V clusters via SCVMM 2012 (including SCVMM 2012 SP1 and Windows Server 2012)

System Center Configuration Manager (SCCM) support:

- The HP ProLiant Server Operating System Deployment (OSD) feature provides quick and reliable Windows deployment to bare metal HP servers, including pre-deployment hardware and BIOS configuration, and post-OS HP driver and agent installation.
- The HP ProLiant Updates Catalog ensures consistency and maximizes uptime with simplified Windows driver and firmware updates using the HP Service Pack for ProLiant.
- The HP ProLiant Hardware Inventory Tool provides detailed component level inventory of every managed HP Windows server.
- Support for SCCM 2007 and SCCM 2012 SP1 and Windows Server 2012.

Standard Features

Insight Control for Microsoft System Center is a free download once you have purchased an HP Insight Control license. This integration enables you to manage your infrastructure -- both virtual and physical together - from your preferred management console.

NOTE: Microsoft System Center is not included with Insight Control for Microsoft System Center and must be purchased separately.

Extensions for VMware vCenter Server

HP Insight Control for VMware vCenter Server delivers powerful HP hardware management capabilities directly from the vCenter console to virtualization administrators, enabling comprehensive monitoring, remote control and power optimization. In addition, Insight Control delivers robust deployment capabilities and is a key integration point for the broader portfolio of infrastructure management, service automation and IT operations solutions available from HP.

From the VMware vCenter console, HP Insight Control enables you to:

- **Combined physical and virtual view:** From a single pane of glass, monitor status and performance of virtual machines and the underlying host systems that support them.
- **Integrated troubleshooting:** Receive pre-failure and failure alerts on HP server components and invoke HP management tools, such as Systems Insight Manager, iLO, Virtual Connect Manager and Onboard Administrator, in-context, directly from the vCenter console.
- **Visually trace and monitor** your network end-to-end, from the host, all the way to the individual network modules connected within your domain, delivering comprehensive management of the network making it easy for you to review and change any HP-specific information.
- **Powerful Remote Control:** Remotely manage and troubleshoot HP ProLiant and BladeSystem servers using HP Integrated Lights Out Advanced capabilities directly from the vCenter console.
- **Proactive power management:** Get the most out of your existing power envelope by comprehending and proactively managing power for hosts and pools of virtual machines across hosts.
- **Role-based security:** Assign permission to Insight Control for VCenter Single-sign on using the three role levels part of VMware vCenter server to segment the level of access and control.
- **Maintain stability** by monitoring and deploying firmware on HP ProLiant ESXi hosts
- **Deploy ESX/ESXi hosts on bare-metal ProLiant servers directly from VMware vCenter** using the HP Insight Control Deployment Wizard available in the Home section of the vSphere client.

HP Insight Control Storage Module for vCenter included with this download and integrated together with the server plug-in, manage HP storage with the following capabilities:

- **View and Monitor HP Storage:** Monitor portfolio of HP Arrays (XP, EVA and P4000 SAN and P2000 MSA. View volume and LUN connections to your virtual machines or ESX server hosts
- **Provision HP storage:** Add new datastore, deleting or expanding an existing datastore, creating new VMs, or cloning existing VMs. This is currently available for the P2000 G3, P4000, 3PAR and P6000/EVA series arrays.

One installer now delivers both vCenter .Net Client Graphical User Interface and the New Web Client Graphical User Interface.

Over time, all capabilities of the existing .NET version will be migrated to the new web based console client.

Standard Features

Insight Control for VMware vCenter Server is a free download once you have purchased an HP Insight Control license. This integration enables you to provision, modify and recover complex infrastructure -- both virtual and physical together -- from your preferred management console.

NOTE: VMware vCenter Server is not included with Insight Control for VMware vCenter Server and must be purchased separately.

Extension for Red Hat Enterprise Virtualization

Insight Control for Red Hat Enterprise Virtualization delivers comprehensive HP hardware management capabilities directly from within the RHEV-M console. Administrators have a single screen to manage their physical and virtualization infrastructures.

Key features of HP Insight Control for Red Hat Enterprise Virtualization:

- **Combined physical and virtual view** - From the RHEV-M console; monitor status and performance of virtual machines and the underlying host and network systems that support them.
- **Newsfeed** - Real time monitoring capability via HP hardware event logging and notification. Easily and quickly identify devices needing attention.
- **Host and Infrastructure** - An inventory and health status of the host and infrastructure devices including: DIMMs, CPUs, fans, power supplies, & interconnect modules.
- **Single sign** - Access trusted HP management tools including: iLO; Onboard Administrator; and Virtual Connect.
- **Visually trace and monitor your network** - End-to-end perspective from the RHEV defined logical network to the physical switches. Easily view detailed information for each device.

Included in the download for HP Insight Control for Red Hat Enterprise Virtualization:

- HP Insight Control for Red Hat Enterprise Virtualization: UI plug-in for the RHEV-M console
- Linux executable CLI utility: Design your own view of the HW infrastructure with this utility.
- User Guide

Insight Control for Red Hat Enterprise Virtualization is a free download after you have purchased an HP Insight Control license. This integration enables you to manage your virtual and physical infrastructures from your preferred management console.

NOTE: Red Hat Enterprise Virtualization is not included with Insight Control for Red Hat Enterprise Virtualization and must be purchased separately.

Supported Product

Hardware Support

HP server hardware platforms

HP Insight Control supports management of most HP ProLiant servers and BladeSystem infrastructure. There may be minor discrepancies in hardware support between different software functions, so customers are encouraged to consult the detailed Insight Management Support Matrix for specifics on platform support at: <http://www.hp.com/go/insightmanagement/docs>.

To enable the power management capabilities of HP Insight Control, target servers must have an embedded power meter. For a list of systems that support power management, please consult the Insight Management Support Matrix at: <http://www.hp.com/go/insightmanagement/docs>.

Central Management Server support and requirements

NOTE: See the Insight Management Support Matrix for the most current CMS requirements at:

<http://www.hp.com/go/insightmanagement/docs>.

Hardware

Server	HP ProLiant ML110 G7, DL120 G7, ML/DL300-series, DL500-series, or DL700 (G3 or higher) series server; or a HP ProLiant c-Class blade server
Memory	At least 6 GB RAM (Minimum), 16GB recommended
Processor	At least 1.6 GHz (2 GHz or higher recommended)
Disk space	At least 20 GB for the Insight Management software. More disk space is required for operating system files, and logs.
File structure	Technology File System (NTFS)
DVD drive	Local or mapped DVD drive

Software

Supported operating systems	Microsoft Windows Server® 2012, Standard and DataCenter Edition Microsoft Windows Server® 2008, Standard or Enterprise Edition SP2 x64 Microsoft Windows Server® 2008 R2, Standard or Enterprise Edition (initial or SP1) Microsoft Windows Server 2003 R2, Standard Edition SP2 x86 NOTE: 64-bit version of the CMS operating system is recommended for maximum scalability.
Supported virtualization installation platform for CMS	MS Windows Server 2012 Hyper-V MS Windows Server 2008 Hyper-V (SP2) MS Windows Server 2008 R2 Hyper-V (initial release or SP1) MS Hyper-V Server 2008 (SP2) MS Hyper-V Server 2008 R2 (initial release or SP1) VMware ESX 4.0 Update 2 (or higher) VMware ESX 4.1 Update 1 (or higher), VMware ESXi 4.0 Update 2 (or higher), VMware ESXi 4.1 Update 1 (or higher), VMware ESXi 5.0, VMware ESXi 5.0 Update 1 VMware ESXi 5.0 Update 2 NOTE: Running the CMS in a virtual machine is not recommended for larger installations.
Required services	MS .Net Framework 2.0 SP1 (Requirement of Insight Management Installer. Installed if no version is detected) MS .Net Framework 3.0 (Requirement for HP Matrix infrastructure orchestration) MS .Net Framework 3.5 SP1 (Requirement for HP Matrix OE, MS SQL Server 2008 R2 Express) MS .NET Framework 4.0 (Requirement for HP Insight Control server deployment, HP Storage Provisioning Manager)

Supported Product

ASP.Net (Required by HP Insight Control server deployment)
MS Silverlight 5.0 (Requirement for HP Storage Provisioning Manager)
TCP/IP with DNS installed (System names must resolve to an IP address)
Microsoft iSCSI Software Initiator (Requirement for HP Insight Control server migration)
MS Windows Automated Installation Kit (WAIK) 1.1
Windows Installer 4.5 (or later) (Required for MS SQL Server 2008 R2 Express)

Supported database platforms

Microsoft SQL Server 2012 RTM or SP1 (Standard, Enterprise and Business intelligence)
Microsoft SQL Server 2008 R2 SP2 (Express, Standard or Enterprise Editions)
Microsoft SQL Server 2008 SP3 (Standard or Enterprise Edition)
Microsoft SQL Server 2008 R2 SP1 Express (32bit)
Microsoft SQL Server 2008 R2 SP1 (Standard or Enterprise X64 Editions)

Client-side software requirements

Supported Internet browsers

Microsoft Internet Explorer 8.0, 9.0, 10.0 (compatibility mode)
Mozilla Firefox 9.x, 10.x ESR, or 17.x ESR (Not supported by HP Insight Control server deployment or HP Insight Control server migration)

Other required client software

Adobe Acrobat Reader (Required to read PDF documents on HP Insight Management DVD #1)
Adobe Flash Player 11.x or higher (Required by HP Insight Management)

IMPORTANT: Insight Management requires the Microsoft SQL Server database to be configured in non-binary collation mode; binary collation mode is not supported. See HP Insight Management Installation and Configuration Guide on how to change the collation mode at: <http://www.hp.com/go/insightmanagement/docs>

NOTE: Microsoft SQL Server 2008 Standard and Enterprise supports up to 5,000 systems and 50,000 events.

NOTE: Microsoft SQL Server 2008 Express supports up to 500 systems and 5,000 events.

NOTE: For Insight Control for VMware vCenter Server there are additional hardware and software requirements to run the VMware management applications. Please refer to the appropriate VMware product document for these requirements.

Service and Support, HP Care Pack, and Warranty Information

Warranty

HP will replace defective delivery media for a period of 90 days from the date of purchase. This warranty applies to all HP Insight Management products found on the delivery media.

HP Software Support

HP offers a number of additional software support services, many of which are provided to our customers at no additional charge.

Software Technical Support and Update Service

Insight Control and select Insight Management software products include one year of 24 x 7 HP Software Technical Support and Update Service. This service provides access to HP technical resources for assistance in resolving software implementation or operations problems. The service also provides access to software updates and reference manuals in electronic form. With this service, Insight Control and Insight Management customers will benefit from expedited problem resolution as well as proactive notification and delivery of software updates. For more information about this service, see <http://www.hp.com/services/insight>

Registration for Software and Technical Support and Update Services -

If you received a license entitlement certificate, registration for this service will take place following online redemption of the license certificate/key.

How to Use Your Software Technical Support and Update Service

Once registered, you will receive a service contract in the mail containing the Customer Service phone number and your Service Agreement Identifier (SAID). You will need your SAID when calling for technical support. Using your SAID, you can also go to the HP Support Center web page to view your contract online.

Join the Conversation (www.hp.com/go/hpsc)

The HP Support Center is a community-based, user-supported tool for HP customers to participate in discussions amongst the customer community about HP products. For discussions related to Insight Control and Insight Management software, see the "Management Software and System Tools" area.

Software and Drivers download pages (<http://welcome.hp.com/country/us/en/support.htm>) provide the latest software and drivers for your ProLiant products.

Management Security (<http://www.hp.com/servers/manage/security>)

HP is proactive in its approach to the quality and security of all its management software. Be sure to check this website often for the latest downloadable security updates.

HP Service Pack for ProLiant (SPP) (www.hp.com/go/spp)

HP Service Pack for ProLiant (SPP) is a re-packaging of HP ProLiant systems software and firmware for ProLiant servers, their options, BladeSystem enclosures, and limited HP external storage. It contains a comprehensive collection of firmware and system software components including drivers, agents, non-agents, utilities, and firmware which are tested, managed, and deployed together as a single solution stack.

- HP Service Pack for ProLiant (SPP) and HP Smart Update Manager (HP SUM) version 5 provide a new, comprehensive approach to firmware and system software maintenance. The SPP, including HP SUM, can be downloaded from www.hp.com/go/spp/download. For more information see: www.hp.com/go/spp and <http://www.hp.com/go/hpsum>
- HP Insight Foundation Suite for ProLiant is being baselined at version v8.70. HP ProLiant Support Pack (PSP) and Firmware DVD downloads will be updated through the second release of the ProLiant Gen8 servers at: <http://www.hp.com/go/foundation>

Service and Support, HP Care Pack, and Warranty Information

- Customers are urged to use the replacement product, HP Service Pack for ProLiant (SPP), instead of the Insight Foundation Suite.
- Proactive delivery of Product Change Notifications (PCNs), Customer Advisories (CAs), and software driver alerts are delivered through Subscriber's Choice. Take advantage of the feature-rich notifications delivered from HP Subscriber's Choice at: <http://www.hp.com/go/myadvisory>.
- Additional email choices (other than just drivers and advisories) can be signed up -- for example, to get Smart Update Firmware DVD advisories for notification of BladeSystem Release Sets availability. Please see <http://www.hp.com/united-states/subscribe/gateway/>
- **Contact Support**
HP Worldwide Customer Service contact numbers are available at <http://www.hp.com/country/us/en/wwcontact.html>. For U.S. customers, say "Insight Manager" when prompted for the product name.

HP Education and Training Services

Today's business climate is changing rapidly, with requirements for responsiveness, adaptability, and flexibility that are more important than ever before. The ability of individuals and enterprises to learn and utilize technology, as well as the new business models and processes it supports, is key. After all, these knowledgeable people will prove to be your ultimate competitive advantage. In the end, people are the business, and the business with the best people wins the competitive battle.

Our HP Insight Management and HP BladeSystem curricula build both core and advanced skills. Multi-level courses cover HP ProLiant systems deployment and systems management for servers and blades. HP provides training in the three critical areas of ProLiant knowledge:

- ProLiant hardware and HP BladeSystem management infrastructure solutions, including HP CloudSystem Matrix solutions
- BladeSystem management solutions such as HP Insight Management (including Matrix OE) and Virtual Connect
- Hypervisor and operating system training in VMware, Microsoft, and Linux technologies

Unlock the full potential of your HP ProLiant and HP BladeSystem investment with training from HP! Book your training today at <http://www.hp.com/learn/proliant>.
Better business outcomes through training

Related Options

HP Matrix Operating Environment for ProLiant	HP Matrix Operating Environment with Insight Control for HP BladeSystem	
	HP Matrix Operating Env for ProLiant w/ Insight Control BL incl 1yr 24x7 Support Encl 8 Svr FIO Lic	TC226B
	HP Matrix Operating Env for ProLiant w/ Insight Control BL incl 1yr 24x7 Support Encl 16 Svr FIO Lic	TC227B
	HP Matrix Operating Environment for ProLiant w/ Insight Control w/ 1y 24x7 Supp Encl Bndl 8Svr E-LTU	TC226BAE
	HP Matrix Operating Env for ProLiant w/ Insight Control w/ 1y 24x7 Supp Encl Bndl 16Svr E-LTU	TC227BAE
	NOTE: This license supports HP ProLiant c-Class blade servers.	
	NOTE: This license supports HP ProLiant c-Class blade servers.	
	NOTE: Must be purchased as an option to an HP BladeSystem enclosure. FIO can only be ordered as part of a factory-configured platform. Customer will receive via email a receipt and link to a license entitlement certificate for the software portion of the order.	
	HP Matrix Operating Environment with Insight Control - for HP ProLiant servers	
	HP Matrix Operating Environment for ProLiant with Insight Control incl 1yr 24x7 Supp Single Svr Lic	TC222B
	HP Matrix Operating Environment for ProLiant with Insight Control incl 1yr 24x7 Support Flex Qty Lic	TC223B
	HP Matrix Operating Environment for ProLiant with Insight Control incl 1yr 24x7 Support Tracking Lic	TC224B
	HP Matrix Operating Environment for ProLiant with Insight Control incl 1yr 24x7 Support E-LTU	TC225BAE
	HP Matrix Operating Environment without Insight Control (upgrade for existing Insight Control customers)	
	HP Matrix Operating Env for ProLiant Upgrade from Insight Control incl 1yr 24x7 Supp Single Svr Lic	TC228A
	HP Matrix Operating Env for ProLiant Upgrade from Insight Control incl 1yr 24x7 Supp Flex Qty Lic	TC229A
	HP Matrix Operating Env for ProLiant Upgrade from Insight Control incl 1yr 24x7 Supp Tracking Lic	TC230A
	HP Matrix Operating Env for ProLiant Upgrade from Insight Control incl 1yr 24x7 Supp Electronic Lic	TC231AAE
	NOTE: HP Matrix Operating Environment supports the HP ProLiant ML, DL 300, 500 and 700 series servers and HP ProLiant c-Class blade servers, see the Technical Specifications section for more detail.	
	NOTE: For each purchased license, a license entitlement certificate will be delivered. The license entitlement certificate contains information needed to register and redeem license activation key(s) online or via fax. For more information, please visit: http://www.hp.com/go/insightlicense .	

Related Options

VMware vSphere bundles with Insight Control	VMware vSphere 2xEnterprise 1 Processor with Insight Control 1yr E-LTU	BD914AAE
	VMware vSphere 2xEnterprise 1 Processor with Insight Control 3yr E-LTU	BD915AAE
	VMware vSphere 2xEnterprise 1 Processor with Insight Control 5yr E-LTU	BD916AAE
	VMware vSphere 2xEnterprise Plus 1 Processor with Insight Control 1yr E-LTU	BD917AAE
	VMware vSphere 2xEnterprise Plus 1 Processor with Insight Control 3yr E-LTU	BD918AAE
	VMware vSphere 2xEnterprise Plus 1 Processor with Insight Control 5yr E-LTU	BD919AAE

NOTE: All VMware vSphere products from HP include a 1yr, 9x5 unlimited technical software support and updates, unless otherwise noted.

NOTE: Insight Control is licensed per server.

NOTE: For additional service and support upgrades and options, please see the HP Care Pack Services in the Related Options section of this QuickSpecs.

NOTE: For more information on VMware Sphere products sold by HP see the VMware Virtualization QuickSpecs at:

http://h18004.www1.hp.com/products/quickspecs/12307_div/12307_div.html.

Technical Specifications

HP Care Pack Services

NOTE: Software reactive support including 24x7 phone-in assistance available holidays & weekends, software updates (if applicable) and patches with priority support response.

HP 3 year 24x7 Insight Control ML-DL-BL Software Support UF526E

HP 3 year 24x7 Insight Control Blade 16 Server Software Support UF536E

HP 3 year 24x7 Insight Control Blade 8 Server Software Support UF532E

NOTE: The 3-year 24x7 Unlimited Software Support products upgrade the included 1 year 24x7 Unlimited Software Support and Updates to three year.

Service and Support Offerings (HP Per Event Services)

HP Installation and Startup for Insight Control Software UF369E

HP Installation and Startup Insight Control for System Center UT857E

HP Installation and Startup Insight Control for Vmware vCenter UT858E

HP Insight Software Operations and Performance Review Services UJ718E

HP Installation and Startup for Insight Control Server Deployment - previously Rapid Deployment Pack U5683E

HP Installation and Startup for Server Migration and Migrate 1 Server UF815E

HP Insight Control power management Service UU962E

Proactive Care - Collaborative Support plus Proactive services delivered by the on shore/near shore Advanced Solution Center (ASC) and backed by the global delivery organization, end-to-end case ownership from a Technical Solution Specialists and Technical Account Manager who remotely delivers firmware/software revision management, proactive scans and incident trend reports. Recommended for customers running a virtualized infrastructure and/or customers who desire an enhanced call support experience.

HP 3 year 24x7 Insight Control ML-DL-BL-SL Proactive Care Service U3N08E

HP 3 year 24x7 Insight Control Blade 16 Server Proactive Care Service U3N14E

HP 3 year 24x7 Insight Control Blade 8 Server Proactive Care Service U3N11E

HP 3 year 4 hour 24x7 c3000 Enclosure with Insight Control Proactive Care Service U3P19E

HP 3 year 6 hour Call To Repair 24x7 c3000 Enclosure with Insight Control Proactive Care Service U3P22E

HP 3 year 4 hour 24x7 c7000 Enclosure with Insight Control Proactive Care Service U3P10E

HP 3 year 6 hour Call To Repair 24x7 c7000 Enclosure with Insight Control Proactive Care Service U3P13E

HP 3 year 4 hour 24x7 ProLiant DL360e with Insight Control Proactive Care Service U6G82E

HP 3 year 6 hour Call to Repair 24x7 ProLiant DL360e with Insight Control Proactive Care Service U6G84E

HP 3 year 4 hour 24x7 ProLiant DL36x(p) with Insight Control Proactive Care Service U3N59E

HP 3 year 6 hour Call To Repair 24x7 ProLiant DL36x(p) with Insight Control Proactive Care Service U3N65E

HP 3 year 4 hour 24x7 ProLiant DL380e with Insight Control Proactive Care Service U6G61E

HP 3 year 6 hour Call to Repair 24x7 ProLiant DL380e with Insight Control Proactive Care Service U6G63E

HP 3 year 4 hour 24x7 ProLiant DL38x(p) with Insight Control Proactive Care Service U3N23E

HP 3 year 4 hour 24x7 ProLiant DL560 with Insight Control Proactive Care Service U6H90E

HP 3 year 6 hour Call To Repair 24x7 ProLiant DL560 with Insight Control Proactive Care Service U6H92E

Technical Specifications

HP 3 year 4 hour 24x7 ProLiant DL58x with Insight Control Proactive Care Service	U3N41E
HP 3 year 6 hour Call To Repair 24x7 ProLiant DL58x with Insight Control Proactive Care Service	U3N47E
HP 3 year 4 hour 24x7 ProLiant ML350(p) with Insight Control Proactive Care Service	U3N77E
HP 3 year 6 hour Call To Repair 24x7 ProLiant ML350(p) with Insight Control Proactive Care Service	U3N83E

Environment-friendly Products and Approach

End-of-life Management and Recycling

Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to <http://www.hp.com/go/green>. To recycle your product, please go to: <http://www.hp.com/go/green> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: <http://www.hp.com/go/green>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

© Copyright 2013 Hewlett-Packard Development Company, L.P.
The information contained herein is subject to change without notice.

Microsoft and Windows NT are US registered trademarks of Microsoft Corporation.

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.