

HP Systems Insight Manager and systems management software options

The essentials of successful IT



Getting down to essentials

Here's an interesting question to ponder: Why do you buy servers?

Is it to admire the hardware? Probably not, although we think you won't find more reliable, powerful, adaptable or cost-effective servers than HP ProLiant, Integrity and HP 9000 servers.

Presumably, you buy servers to successfully support your business objectives. But business objectives today can never be in a fixed state. And neither can your IT environment.

That's why a company known for excellence in server design and engineering recognizes the need to embrace change—to transform it from an obstacle to an opportunity. This is the essence of the Adaptive Enterprise, HP's strategy for building organizations in which business and IT are synchronized to capitalize on change. And at the heart of synchronizing business and IT is management, which intelligently controls business processes, applications and infrastructure.

Simply put, we recognize that business success depends on computing success. That to become an adaptive enterprise, you need management to continually measure, assess and optimize IT's contribution to the business. And it's why—in addition to computing brawn—HP provides the brains in the form of HP Systems Insight Manager and systems management software options (including ProLiant Essentials) for ProLiant, Integrity and HP 9000 platforms.

Designed to simplify server management, increase productivity and reduce the cost of deploying and managing multi-server environments, HP Systems Insight Manager and HP's systems management software options support four IT essentials:

- Reliable fault monitoring and asset management
- Rapid provisioning and patching
- Secure remote administration
- Flexible analysis and optimization

HP Systems Insight Manager and systems management software options work hand-in-hand with ProLiant 300, 500 and 700 series servers and HP BladeSystem, Integrity and HP 9000 servers to truly transform HP servers from computing systems to business solutions.

IT essential No. 1: reliable fault monitoring and asset management

Nothing is worse than unplanned downtime. It means lost sales, lost productivity and major headaches for systems administrators. What's more, many cases of unplanned downtime can be successfully avoided with the proper tools.

HP Systems Insight Manager (HP SIM) continually monitors HP servers and proactively alerts administrators of potential or actual system faults that could result in unplanned downtime. If a hard drive is about to fail, HP Systems Insight Manager can be configured to page a technician, launch a script or feed the diagnostic information to HP OpenView products, such as HP OpenView

Network Node Manager and HP OpenView Operations. If the operating system has gone offline, HP Systems Insight Manager connects to available onboard Lights-Out management processors to enable remote troubleshooting and corrective action.

HP Systems Insight Manager can also help you easily discover, identify and catalog IT infrastructure elements. Its auto-discovery feature identifies servers, clients, printers, and other devices attached to the network; collects detailed data on each device; and places this information into customized reports. Armed with this information, IT managers can identify hardware that needs to be upgraded, servers that need to be replaced and servers that need to be reconfigured to support strategic IT initiatives.

Finally, less is sometimes better than more, and this is certainly the case with management consoles. HP Systems Insight Manager is the lifecycle management hub for ProLiant, Integrity and HP 9000 servers as well as other HP hardware platforms. Value-added systems management software (including ProLiant Essentials) for servers, clients and printers, integrates with the base HP SIM platform to deliver a rich yet consistent environment for managing your HP hardware infrastructure.

You can even select the operating system platform you want to run Systems Insight Manager on. It runs natively on Windows®, Linux and HP-UX.

IT essential No. 2: rapid provisioning and patching

In today's fast-forward business world, it sometimes seems that the process of deploying new servers and maintaining existing infrastructure is stuck in slow motion. Problem is, you can't adapt to change and get your products and services to market quickly if you can't get your IT resources in place fast enough or you can't protect those resources from Trojans, worms and other vulnerabilities. Configuring servers, installing operating systems and applications, and applying updates that keep hackers at bay are time-consuming tasks that can devour IT resources. They are also tasks fraught with potential for human errors or inconsistency.

HP management software takes the pain out of these operations by improving the speed and consistency with which you can deploy and maintain systems.

Easy setup tools come standard with ProLiant and Integrity servers. Both offer a browser-based, menu-driven interface that leads you step-by-step through the process of installing and optimizing an operating system on your servers. For ProLiant servers, you can also take advantage of the HP SmartStart Scripting Toolkit to create standard server configuration scripts—customized to your unique environment and optimized for high-volume deployments.

The optional ProLiant Essentials Rapid Deployment Pack (RDP) and ProLiant Essentials Vulnerability and Patch Management Pack (VPM) can help turbo charge deployment and streamline server maintenance in data center environments, where automation and consistency are key to achieving high levels of server uptime. With RDP, you can deploy and redeploy hundreds of ProLiant servers from a single console in minutes instead of days



by simply dragging and dropping predefined images or scripts onto server icons. With VPM, you can stop running in circles to acquire, analyze and deploy the latest updates from Microsoft® and Red Hat. Simply scan for vulnerabilities, patch them and keep them patched. Let RDP and VPM help get your business off to a fast start and keep it running without interruption.

When it comes to deploying your HP-UX environment, HP has you covered. You can use Ignite-UX to simplify deployment of HP-UX images to your Integrity and HP 9000 systems. Software Distributor UX makes it easy to deploy applications as well as acquire and distribute updates for your HP-UX environment.

IT essential No. 3: secure remote administration

If you are like most companies, all of your servers are not located in a single data center. You probably have systems in remote offices, manufacturing facilities or store outlets. You may even have entire remote data centers with limited or no IT staff.

Hardware-based Lights-Out technology for ProLiant and Integrity servers allows you use HP Systems Insight Manager to manage your infrastructure from any location independent of the state of the operating system. Select ProLiant and Integrity servers incorporate an Integrated Lights-Out microprocessor to give administrators a means of controlling system power, viewing system configuration and health, and communicating with remote systems via a text-based console. In addition, strong authentication and secure SSL or SSH protect the management processor against unauthorized access.

The ProLiant Essentials Integrated Lights-Out Advanced Pack for ProLiant 300, 500 and 700 series servers delivers advanced features, such as graphical remote console and virtual media, that enable complete remote control through a web browser. Integrated Lights-Out Advanced Pack comes standard with every p-Class blade server. Use the graphical remote console to control your servers through the operating system's native graphical or command line interface or to watch the boot process from power on, through post, through loading of the OS. Leverage Virtual Media to load firmware, OS or applications updates on a single remote system by sharing local CD-ROM or floppy devices as well as network-based ISO images with target host servers.

For systems ProLiant 300, 500 and 700 series servers without the Integrated Lights-Out processor, the optional Remote Insight Lights-Out Edition II provides similar remote administration capabilities through a standard PCI card. For ProLiant 100 series servers get the remote management you need with the new Lights-Out 100 Remote Management Card and Lights-Out 100i Integrated Remote Management.

With HP Systems Insight Manager, the Integrated Lights-Out processors for ProLiant and Integrity systems, and the Remote Insight Lights-Out Edition II, expensive flights to remote locations and midnight runs to the data center move from common occurrence to rare event. And who can argue with better productivity, lower cost and fewer headaches?

IT essential No. 4: flexible analysis and optimization

Several forces currently converging in the data center highlight the need for improved performance, workload and virtual machine management. More and more business-critical applications once reserved for expensive, proprietary systems are migrating to industry-standard platforms. Hardware refresh cycles are lengthening, but applications are becoming increasingly resource hungry. A growing number of companies seek to improve server utilization and simplify server management by consolidating applications on smaller numbers of high performance systems.

The result? Servers have to perform like never before and systems administrators are expected to do more with the hardware they already have.

HP helps you respond to these challenges with software plug-ins to HP Systems Insight Manager that help optimize server performance and utilization. For starters, ProLiant Essentials Performance Management Pack (PMP), which installs with HP Systems Insight Manager, analyzes CPU, memory and disk (including MSA storage) performance as well as drive, networking and PCI configuration to help quickly identify and recommend solutions to potential hardware performance bottlenecks. Armed with this information, IT managers can take steps to add necessary CPU, memory or disk resources or reconfigure options to deliver peak server performance.

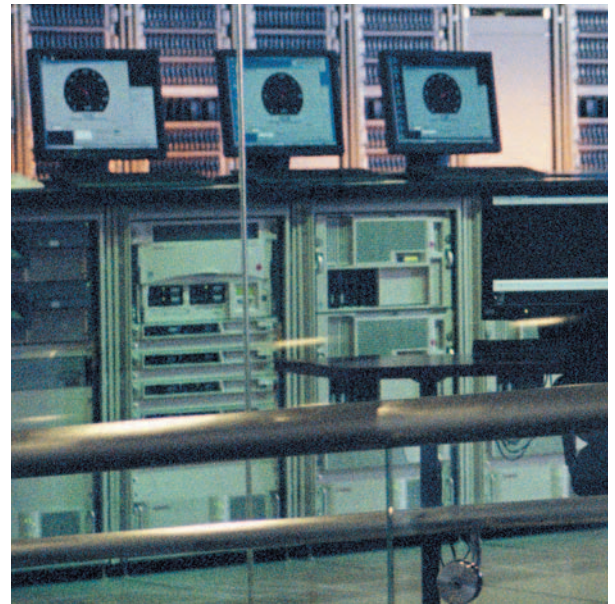
ProLiant Essentials Virtual Machine Management Pack (VMM) helps systems administrators take advantage of virtual machine technology from Microsoft and VMWare to help boost server utilization and balance workloads across hardware infrastructure. By integrating with HP

Systems Insight Manager, VMM helps ensure consistent management of physical and virtual assets. And because Virtual Machine Management Pack enables association, monitoring, copying and moving of Microsoft Virtual Server, VMWare ESX and VMWare GSX virtual machines, you have the freedom to choose the VM technology best suited to your particular OS or application needs.

With ProLiant Essentials Workload Management Pack, you can safely run multiple applications on a single Windows OS instance, whether the OS is running on a physical server or in a virtual machine. Workload Management Pack controls memory and CPU consumption at the application level through resource partitions and leverages a powerful policy engine to dynamically allocate processor and memory support based on actual loads or calendar schedules.

In your HP-UX environment, HP delivers time-tested solutions for performance and workload management, including Glance Plus, Process Resource Manager and Workload Manager. Use Glance Plus to monitor the performance of your servers and network and alert administrators of process or transaction level performance bottlenecks for Integrity and HP 9000 systems running HP-UX. Process Resource Manager helps ensure that HP-UX applications receive minimum required CPU, memory and disk bandwidth and can also place caps on resource utilization as needed. With Workload Manager UX, you can allocate CPU resources based on service level objectives and application priority to help ensure that your most critical applications have access to the resources they require.

HP ProLiant servers already have the power. HP software lets you unleash it.



Make the most of ProLiant Essentials with HP implementation and support expertise

HP ProLiant Essentials Services are designed to give you time-saving, work-saving service options targeting the solution lifecycle stages at which you need them most. They include easy-to-buy, easy-to-use HP Care Pack services to support solution design and deployment with a set of pre-defined deliverables available at affordable package pricing. They also offer more comprehensive implementation support services that can be tailored to your unique IT and business requirements.

ProLiant Essentials Services can help you:

- Contain server-related acquisition and operating costs
- Reduce the risks associated with change
- Improve overall IT manageability
- Decrease application downtime by speeding problem detection and resolution
- Increase service efficiency and productivity

Services that let you demand more from your server environment

HP ProLiant Essentials Services include:

- **HP Care Pack Installation and Startup Service for HP Systems Insight Manager**—Convenient HP Care Pack Services deployment and configuration support suitable for smaller-scale, single-site HP Systems Insight Manager initiatives, that includes deployment of central management server and five managed devices, as well as knowledge transfer
- **Implementation Upgrade Service for HP Systems Insight Manager**—Custom support for larger or more complex projects, either new deployments or migrations from previous Insight Manager versions

- **Incidents Pack**—ongoing software support for all the key modules of the ProLiant Essentials portfolio, giving your IT staff direct access to HP Response Centers for expert usage advice, rapid problem diagnosis and resolution, up-to-date product and support information, and software patches

- **Education and training**—providing expert skills development for your technical staff, including courses to help build both core and advanced skills specific to HP Systems Insight Manager and Rapid Deployment Pack

The smartest way to invest in IT

HP Financial Services provides innovative financing and financial asset management programs to help you cost-effectively acquire, manage and ultimately retire your HP solutions. For more information on these services, contact your HP sales representative or visit:

www.hp.com/go/hpfinancialservices

Adapt and succeed

HP Systems Insight Manager and HP systems management software options (including ProLiant Essentials) provide the management capabilities you need to dynamically link business processes with IT, increase automation, and match IT supply to business demand. It is the key to transforming computer systems into business solutions. And it is the essence of the HP Adaptive Enterprise strategy—to synchronize business and IT to capitalize on change.

At HP, we know why you buy servers: To solve business problems. By helping you deploy ProLiant servers faster, and manage them more efficiently and cost effectively, ProLiant Essentials software provides the essentials for successful IT. And successful business.

HP Systems Insight Manager and value-added software

Product name	This is for you if...	What does it do?	What does it enable you to do?	What are the business benefits?	Standard or optional?
HP Systems Insight Manager	<ul style="list-style-type: none"> You want to consolidate the management of your ProLiant HP servers and maximize the productivity of your IT staff. You require a central point of management for large server deployments or geographically dispersed servers. You need basic management of clients, printers, and networking devices in addition to servers 	<ul style="list-style-type: none"> Web-based management across groups of ProLiant HP servers Provides visual representation of ProLiant BL servers and server enclosures Creates comprehensive inventory reports for all devices in your managed environment in seconds identifies and updates servers running out-of-date system software 	<ul style="list-style-type: none"> Get one-click access to comprehensive ProLiant HP server health, configuration, performance, remote management and server inventory data Access select HP ProLiant Essentials value packs through one management portal 	<ul style="list-style-type: none"> Consistent management across hardware and OS platforms for greater stability and efficiency Greater control and flexibility via a standards-based, extensible management platform Alignment of IT around process, not just hardware platforms 	<ul style="list-style-type: none"> Standard
SmartStart, and Smart Setup	<ul style="list-style-type: none"> You are deploying a single server, or creating a replicable server profile. You need to update server support software 	<ul style="list-style-type: none"> Step-by-step server set-up Easy installation of system software – drivers, firmware, management agents and utilities 	<ul style="list-style-type: none"> Fast, consistent installations Streamlined server and array configuration and installation. 	<ul style="list-style-type: none"> Faster server availability Reduced cost of server ownership Consistent and reliable server deployment and configuration 	<ul style="list-style-type: none"> Standard
SmartStart Scripting Toolkit	<ul style="list-style-type: none"> You need flexibility in developing your own scriptable deployment process. 	<ul style="list-style-type: none"> Automatable Server set-up 	<ul style="list-style-type: none"> Swift, highly customized installations 	<ul style="list-style-type: none"> Speedy deployment (after initial setup) Consistent and reliable server deployment and configuration 	<ul style="list-style-type: none"> Optional. Download for free from HP.com
Rapid Deployment Pack	<ul style="list-style-type: none"> You are deploying or updating multiple servers in a high-volume environment or data center. You spend too much time, effort and money managing your deployment environment. 	<ul style="list-style-type: none"> Fully automates server deployment (hardware, OS and applications) Enables imaging or scripting deployment Provides pre-tested deployment scripts Provides power control and console interface through HP Integrated Lights-Out 	<ul style="list-style-type: none"> Rapidly deploy or redeploy multiple servers...as easy as drag-and-drop! 	<ul style="list-style-type: none"> Faster deployment or redeployment Adaptability to change Increased staff productivity Consistent builds for fewer problems to troubleshoot 	<ul style="list-style-type: none"> Optional (and bundled with selected blade enclosures and blade multi-packs at a discount)
Performance Management Pack	<ul style="list-style-type: none"> You want to identify and remedy bottle necks before they slow system performance and impact end-user productivity. 	<ul style="list-style-type: none"> Provides continuous performance monitoring, logging and alerting Enables bottleneck analysis and resolution 	<ul style="list-style-type: none"> Proactively prevent performance problems from affecting business applications and end-user productivity 	<ul style="list-style-type: none"> Improved response time and adherence to service-level agreements for critical applications 	<ul style="list-style-type: none"> Optional
Vulnerability and Patch Management Pack	<ul style="list-style-type: none"> You are finding it difficult to keep pace with constant release of new vulnerabilities and patches. You want to leverage existing tools. You want to bridge the gap between security and operations to effectively fix vulnerabilities. 	<ul style="list-style-type: none"> Automates the acquisition of vulnerability data and patches, identifies new vulnerabilities, schedules and deploys patches and fixes, and continuously monitors enforcement of patches Leverages existing HP SIM functionality such as discovery, identification, scheduling, role-based access, notification, event listing and group-based actions 	<ul style="list-style-type: none"> Make security patching operational between security and operations team Get the latest vulnerability data and patches automatically Prioritize, deploy and enforce security patches Fix vulnerabilities due to OS configurations and missing patches Maximize investment in HP SIM by using its functions to drive vulnerability assessment and patch management 	<ul style="list-style-type: none"> Accelerate remediation of vulnerabilities and reduce the risk of exploits Enable faster implementation and higher return on investment by leveraging existing tools 	<ul style="list-style-type: none"> Optional

HP Systems Insight Manager and value-added software *(continued)*

Product name	This is for you if...	What does it do?	What does it enable you to do?	What are the business benefits?	Standard or optional?
Integrated Lights-Out Standard for ProLiant and Integrity servers; Integrated Lights-Out Advanced Pack for ProLiant servers; Remote Insight Lights-Out Edition II: PCI option card	<ul style="list-style-type: none"> You want to manage distributed, remote servers from a central location. 	<ul style="list-style-type: none"> Remote management virtualization Virtual text console, power button, indicators and serial port Virtual graphic console and media (floppy, CD) Windows Server 2003 Terminal Services console integration Directory services user administration 	<ul style="list-style-type: none"> Do virtually anything you could do if you were sitting in front of the server, but from a web browser over the network 	<ul style="list-style-type: none"> Increased server uptime Reduced travel and operational costs Improved administrator productivity Reliable security 	<ul style="list-style-type: none"> Standard on selected servers
Virtual Machine Management Pack	<ul style="list-style-type: none"> You are a ProLiant customer adopting Microsoft Virtual Server. You are a VMware customer who wants a unified view of ProLiant server and Virtual Machine resources. You are planning server consolidation projects. 	<ul style="list-style-type: none"> Provides management, control and a unified view of virtual machines and associated host server resources, including virtual machine products from Microsoft and VMware Simplifies typical management tasks including remote start, stop, pause and reset capabilities for VMs in addition to providing integrated provisioning and backup of VMs 	<ul style="list-style-type: none"> Easily identify potential host issues and avoid potential for service interruption Monitor host server and associated virtual machine resource consumption 	<ul style="list-style-type: none"> Single console for physical server and virtual machine resources Simplified virtual machine management and operation Automated server migrations during server consolidation projects 	<ul style="list-style-type: none"> Optional
Workload Management Pack	<ul style="list-style-type: none"> You want to consolidate multiple applications on fewer Microsoft® Windows® based servers. 	<ul style="list-style-type: none"> Remote management virtualization Virtual text console, power button, indicators, and media Directory services user administration Allocates, protects and automates application resources to processes providing higher availability for applications and enabling server consolidation 	<ul style="list-style-type: none"> Determine the resources allocated to any given application to confidently run multiple applications on the same server so that the performance and availability of each application isn't affected by any of the others 	<ul style="list-style-type: none"> Reduced hardware and management costs Improved business application performance and determinate user service levels More efficient use of computing resources 	<ul style="list-style-type: none"> Optional on selected servers
Insight Integration Modules for Enterprise Management	<ul style="list-style-type: none"> You want to manage ProLiant servers from within a chosen enterprise management console You want to consolidate the number of applications you use to manage your enterprise resources. 	<ul style="list-style-type: none"> Integrates ProLiant discovery, hardware status monitoring and event notification into the following enterprise management platforms: <ul style="list-style-type: none"> HP OpenView Network Node Manager HP OpenView Operations for Windows Microsoft Operations Manager Microsoft Systems Management Server Tivoli Enterprise CA Unicenter 	<ul style="list-style-type: none"> Simplify server hardware management in an enterprise environment Employ a condensed set of applications for daily management of hardware infrastructure and business service-level operations Identify and manage ProLiant servers from the same enterprise platform used to manage operating system and business application availability Improve response times to system events and maintain higher availability 	<ul style="list-style-type: none"> Enables more effective use of valuable operations staff Streamlines enterprise management procedures Increases uptime and reduces downtime 	<ul style="list-style-type: none"> Optional. Download for free from www.hp.com

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