

HP Insight Control

Building the world's best run server infrastructure





It's time to simplify the way you manage servers

Let's face it, managing a server environment today can be like chasing a moving target. One minute you think you have things under control, and the next minute you have to make significant – and sometimes costly – adjustments in a very reactive manner.

Wouldn't day-to-day operations be simpler and easier if you could...

- Take total control of your server infrastructure – and meet growing IT demands with confidence?
- Respond flexibly to the changing needs of your business, focusing your staff on strategic, high-value IT projects?
- Make the most of every dollar you spend on server assets, staff and facilities – and be able to show actual proof of tangible savings?

HP can help you move confidently and quickly in this direction, starting with a strategy we call "Unified Infrastructure Management".

What is Unified Infrastructure Management?

Unified Infrastructure Management creates a common foundation for overseeing your entire server environment from a central point of control. Because this foundation is truly unified, you are assured that every level works smoothly and efficiently together – from HP ProLiant and Integrity servers to storage to third-party hardware and software. On the surface, it seems like a simple concept. But a truly unified foundation can only succeed if you combine the right set of advanced management tools. That's where HP Insight Control comes in.

Introducing HP Insight Control

Insight Control represents the way we deliver on the promise of Unified Infrastructure Management. A single, integrated management solution, Insight Control combines three core elements:

- Powerful control capabilities that we embed into our HP ProLiant and BladeSystem servers
- HP Systems Insight Manager (SIM)
- HP ProLiant Essentials management software

With Insight Control, you can transform the way you manage servers, giving you and your IT staff total control and maximum flexibility that leads to tangible savings.

We first introduced Insight Control with the release of HP BladeSystem c-Class servers, the most recent evolution in server technology. Now, we are extending it to the full portfolio of ProLiant servers, including the entire ML and DL lines. And we're making it easier than ever for you to get the management functionality you need through easy-to-purchase Insight Control suites that are specially designed to fit specific business environments.

“We need software and hardware that scales along with the company. As the company grows, we need products that can adapt. If there are tools that we can deploy that will enable us to manage increasing numbers of physical and virtual platforms without increasing our existing IT staff, then that’s what we’re going to use”.

Dean Buker, Manager -
Network and Systems, Polaris

Create a server environment with total control and maximum flexibility – leading to tangible savings

Insight Control helps you:

- Gain total control of your server infrastructure from anywhere at any time
- Achieve maximum flexibility, so that you can respond to the needs of your organisation
- Automate many burdensome manual processes

The business result? Tangible savings that demonstrate IT’s true return on investment.

What does “total control” really mean?

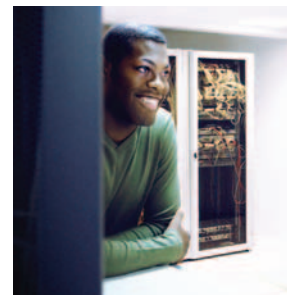
Imagine being able to oversee all your servers and storage hardware via one simple, central management console. HP Systems Insight Manager (HP SIM) sits at the heart of Insight Control and delivers an easy-to-use way to monitor and control your entire server infrastructure across multiple operating systems. With SIM, problems can be pinpointed and communicated before they result in unplanned downtime. Its centralised control provides comprehensive identification and monitoring, proactively distributing alerts via e-mail, page or forwarded message to a help desk or event consolidation system.

Version 5.1 of SIM extends basic monitoring by integrating HP Service Essentials Remote Support Pack. If a problem is identified with a device under warranty or on contract, SIM can automatically initiate a call to HP Support. Additional features include reporting on HP warranty and service contract status, intelligent event diagnosis and resolution, and spare parts identification.

“Total control” also means you gain the ability to remotely manage your systems – from anywhere and at any time – independent of the operating system status and with complete, standards-based security. Through HP’s unique Integrated Lights-Out (iLO) technology, you can remotely control a server as if you are physically at the server – deploying, updating, administering, troubleshooting and restoring from a secure browser or command line.

The ProLiant Essentials Performance Management Pack delivers a comprehensive system-performance dashboard with the information you need to understand how your servers are performing, where bottlenecks lie and how to optimise processor, memory, network and storage resources.

Another way you achieve control is by proactively detecting and fixing known and unknown security vulnerabilities at the operating system or application layer, before they expose your organisation to an attack or spread across the entire infrastructure. Insight Control makes this possible with the Vulnerability and Patch Management Pack that scans and protects your ProLiant and BladeSystem infrastructure in concert, eliminating the labor associated with translating lengthy security reports into actionable remediation plans.



What does maximum flexibility deliver?

By helping IT achieve the maximum in flexibility, you gain the freedom to focus on higher value-add initiatives while still responding efficiently to the IT needs of people you support. Flexibility means that you can deploy, inventory and migrate critical IT assets. Insight Control enables all of this, tracking the entire infrastructure through automatic hardware discovery, identification, data collection and simple reporting.

If responding to requests for new compute capacity is your concern, then Insight Control is your answer. Insight Control delivers simple, scalable deployment via the ProLiant Essentials Rapid Deployment Pack, turning resource-intensive manual deployments into unattended, repeatable and highly automated ones. Everything from hardware configuration through OS and application deployment can be completed, in most cases, through a single drag-and-drop task. With the new ProLiant Essentials Server Migration Pack – Physical to ProLiant Edition – you can even migrate existing OS, applications and data to next-generation servers without complicated rebuilds. This means applications that could benefit from a performance boost but were considered, “too dangerous to fool with”, can be safely and easily migrated to new, high-performance ProLiant or BladeSystem servers.

Flexibility also means that you can unify management of physical and virtual IT assets across their entire life-cycle. Insight Control not only allows you to manage

all assets via a single console, but also to optimise utilisation and performance by quickly and transparently moving workloads between and within physical and virtual environments. With access to native management tools from VMware and Microsoft®, you gain the benefit of even more granular control over virtualised assets.

For efficiency and flexibility in managing the growing energy impact of your server infrastructure, Insight Control helps you graphically track power usage and thermal output for groups of servers across days, weeks, months and years, and automatically regulate power consumption based on processor workload. The ability to measure and regulate means that you can now plan server deployments and cooling requirements based on a true understanding of energy consumption, and you can avoid excess energy cost through more efficient use of existing capacity. This is crucial when you consider that the cost of powering and cooling a single x86 server today is roughly equivalent to its original purchase price.¹

Last but not least, our management supports popular standards and integrates with leading enterprise management applications through HP and third-party developed integration modules. This means that you gain the benefit of the deep hardware monitoring and control that only HP can provide through the toolsets that you use to manage broader infrastructure, applications and business processes.

¹ Based on an internal HP analysis performed over a three-year period.



iLO Power Management Pack	Insight Control Environment	Insight Control Data Center Edition	Insight Control Linux Edition for BladeSystem
Functionality: <ul style="list-style-type: none"> • Monitoring • Advanced Remote Control • Power Management 	Functionality: <ul style="list-style-type: none"> • Monitoring • Advanced Remote Control • Performance Monitoring • Power Management • Deployment • Vulnerability Scanning 	Functionality: <ul style="list-style-type: none"> • Monitoring • Remote Control • Performance Monitoring • Deployment • Vulnerability Scanning 	Functionality: <ul style="list-style-type: none"> • Monitoring • Deployment • Remote Control
Platform: <ul style="list-style-type: none"> • ML servers • DL servers 	Platform: <ul style="list-style-type: none"> • ML servers • DL servers 	Platform: <ul style="list-style-type: none"> • BL servers 	Platform: <ul style="list-style-type: none"> • BL servers

Can I really achieve tangible savings?

By creating an IT infrastructure with total management control and maximum flexibility, you can make the most of every dollar you invest in server assets, staff and facilities. The direct result: tangible savings that you can demonstrate. Insight Control helps you increase the stability of your infrastructure, reducing the incidence of unplanned downtime. It also significantly decreases the time and cost of deploying, changing and updating IT assets and optimises utilisation of server and storage resources, facilities and IT talent.

Consider, for example, these areas of potential savings:

- Significantly accelerate troubleshooting and recovery time
- Minimise travel time with remote server monitoring and control
- Reduce deployment costs by eliminating the need for manual hardware and software configuration
- Reduce security risk and speed updates by pinpointing vulnerabilities and patching them in concert
- Increase server utilisation without adding management complexity
- Save on power consumption and cooling by only using the power that you need when you need it
- Increase server deployments per data centre through accurate measures of power consumption and thermal output
- Manage more servers with the people that you have and even find the time to take on new projects

Software suites designed for specific solution requirements

To help you decide how to best implement Insight Control in your environment, we've created software suites that combine the software you require into integrated solutions with simple installation and streamlined licensing. You no longer have to take the time to figure out all the individual software components you need – instead, you can simply choose the suite that is right for you. The Insight Control suites include:

Insight Control Environment

The HP Insight Control Environment covers all of the management bases from server health and performance monitoring, to OS-independent remote control, to unattended deployment and inventory management. It enables security vulnerability scanning and patching in concert, and delivers new power and thermal tracking, as well as power regulation, to ensure optimal usage of existing data centre facilities.

Integrated installation and streamlined licensing make it simple to bring the benefits of Insight Control to your environment, with most installations completing in less than an hour.

What does the Insight Control Environment help you accomplish?

- **Comprehensive health monitoring:** Proactively monitor server health and trigger critical alerts in a timely fashion.
- **Proactive performance management:** Quickly pinpoint and resolve performance bottlenecks to get the most out of your existing server infrastructure.
- **Lights-Out remote control:** Take control of your servers securely from anywhere independent of OS state.
- **Precise power management and regulation:** Gain a true understanding of power consumption and thermal output and set power regulation policies across groups of servers.

“Today, Quixtar IT depends on HP Systems Insight Manager and ProLiant Essentials to deploy, monitor and control our ProLiant and BladeSystem hardware. These tools have saved us considerable time and money to date, and we eagerly await the release of the new Insight Control suites that will enable us to get all of the management capabilities we need in one place while streamlining installation, update and licencing.”
IT Infrastructure Manager Steve Keselring, Quixtar, Inc.

- **Rapid Server Deployment:** Quickly and reliably configure server hardware and deploy your chosen OS and applications.
- **Quick and easy inventory reporting:** Create comprehensive inventory reports for your entire server population in under a minute and export results to CSV files for use in other applications such as Microsoft Excel or Microsoft Access.
- **Consolidated Vulnerability and Patch Management:** Scan for OS and application security vulnerabilities and patch them in concert.
- **Powerful system software version control:** Pinpoint out-of-date BIOS, driver and agent versions and update them en masse from within HP Systems Insight Manager.

Integrated Lights-Out (iLO) Power Management Pack

The Integrated Lights-Out (iLO) Power Management Pack is designed for customers that currently use the iLO Advanced Pack and who are ready to take the next step on their journey toward building best run server infrastructure. It combines the power of lights-out remote control with new power management capabilities delivered through the Insight Power Manager and SIM. Users will also benefit from Systems Insight Manager's ability to discover and associate Integrated Lights-Out management processors with their host servers and functions such as health monitoring, server data collection and inventory reporting, and system software version control.

The iLO Power Management Pack delivers:

- **Total Lights-Out remote control:** Take control of your servers securely from anywhere independent of OS state, using of the Integrated Lights-Out Advanced Pack capabilities you depend on today.

- **Centralised system insight via HP Systems Insight Manager:** Proactively monitor your environment to protect against unplanned downtime.
- **Maximum energy efficiency using the Insight Power Manager:** Efficiently utilise existing power and cooling facilities.

Insight Control Data Center Edition

The HP Insight Control Data Center Edition simplifies the deployment and life-cycle management of BladeSystem infrastructures. This integrated suite delivers core management capabilities including hardware resource deployment, health monitoring, performance monitoring, remote server virtual machine management, server vulnerability scanning and patch management across multiple enclosures and multiple data centres.

Insight Control Data Center Edition uses a wizard-based integrated installer that deploys and configures HP management software quickly and consistently, allowing customers to reduce server deployment times and use valuable IT resources more efficiently.

Insight Control Linux Edition

The HP Insight Control Linux Edition provides the essential tools for deploying and managing Linux scale-out environments. The suite is built on the HP Control Tower management platform that enables customers to rapidly deploy HP BladeSystem and ProLiant BL blade servers, as well as manage these servers from a single console.

Adapt and win

By relying on HP server-management software, you gain the capabilities to strategically link business processes with IT, automate and simplify key tasks and cost-effectively match IT assets with business demands. This ability to transform your IT environment into a business-focused entity is the essence of what HP calls the Adaptive Enterprise – where business and IT are synchronised to capitalise on change.

If you decide you need only one or more of the capabilities in the Insight Control family, you can purchase individual components separately. The ProLiant Essentials family of management tools includes the following products, available individually or as part of an Insight Control suite.

Product	This is for you if you want to . . .	What does it enable you to do?	Business Benefits
Accelerated iSCSI for embedded multifunction gigabit server adapters	<ul style="list-style-type: none"> • Enable access to storage boxes and servers over a single connection • Upgrade from direct-attach storage (DAS) to storage area network (SAN) 	<ul style="list-style-type: none"> • Integrate the management of servers and storage by leveraging iSCSI technology 	<ul style="list-style-type: none"> • Tangible savings via a low-cost, high-performance protocol • Increased flexibility
HP Systems Insight Manager	<ul style="list-style-type: none"> • Consolidate management of servers and maximise productivity • Centralise and simplify management of a large and/or geographically dispersed server deployment • Manage clients, printers and networking devices 	<ul style="list-style-type: none"> • One-click access to data on HP ProLiant server health, configuration, performance, remote management and server inventory • Direct access to select ProLiant Essentials value packs 	<ul style="list-style-type: none"> • Consistent, centralised management • Greater control and flexibility • Alignment of IT around processes – not platforms • Reduced power and cooling costs
Insight Power Manager	<ul style="list-style-type: none"> • Manage the power and thermal impact of ProLiant and BladeSystem servers 	<ul style="list-style-type: none"> • Meter and report on power consumption and thermal output • Set power management policy across any grouping of servers 	<ul style="list-style-type: none"> • Increased data centre density
Integrated Lights-Out Standard Select Pack or Advanced Pack on ProLiant 300 and 500 series and BladeSystem servers – Integrated Lights-Out 100i Standard Select Pack or Advanced Pack on ProLiant DL100 series servers Integrated Lights-Out 100c on ProLiant ML100 series servers	<ul style="list-style-type: none"> • Manage distributed remote servers from a central location 	<ul style="list-style-type: none"> • Do virtually anything you would do if you were sitting in front of the server, but from a web browser over the network, with complete security 	<ul style="list-style-type: none"> • Increase server uptime • Reduced travel and operational costs • Improved productivity • Reliable security
Performance Management Pack	<ul style="list-style-type: none"> • Identify and fix bottlenecks before they slow performance 	<ul style="list-style-type: none"> • Continuous performance monitoring, logging, and alerting • Analysis and resolution of problems 	<ul style="list-style-type: none"> • Improved response time and adherence to service-level agreements • Higher productivity
Intelligent Networking Pack	<ul style="list-style-type: none"> • Reduce threats before they spread to the entire network • Detect bottlenecks and broken links • Enhance redundancy and load balancing 	<ul style="list-style-type: none"> • Virus Throttle feature reduces threats and goes beyond typical virus-protection software • Deliver optimum load balancing and failover 	<ul style="list-style-type: none"> • Low-cost solution • Easy-to-use, requiring no special training • Supplement virus software installations
Rapid Deployment Pack	<ul style="list-style-type: none"> • Deploy or update multiple servers in a high-volume environment • Decrease the time and money you spend managing servers 	<ul style="list-style-type: none"> • Fully automate deployment • Imaging and scripting deployment • Use pretested scripts • Use power control and console interface through HP Integrated Lights-Out 	<ul style="list-style-type: none"> • Faster, easier deployment • Increased productivity and flexibility • Consistent builds with fewer problems
RDMA Pack for multifunction gigabit server adapters	<ul style="list-style-type: none"> • Enables the Remote Direct Memory Access (RDMA) functionality on the embedded Multifunction adapters on newer ProLiant servers and Multifunction networking options 	<ul style="list-style-type: none"> • Optimises performance and lowers latency • Enables a unified fabric infrastructure 	<ul style="list-style-type: none"> • Increased performance for clustering and database applications such as SAP and SQL. • Simplified infrastructure with highest available Ethernet speeds • Increased flexibility in business solutions
Server Migration Pack-Physical to ProLiant Edition	<ul style="list-style-type: none"> • Migrate HP and non-HP x86 servers to new servers 	<ul style="list-style-type: none"> • Enables physical to ProLiant server migrations of Windows, applications and data from a source x86 server to another server. 	<ul style="list-style-type: none"> • No need to manually deploy elements on the new server • Easy migration to a new form factor such as blades
Virtual Management Software (Virtual Machine Management and Server Migration Pack)	<ul style="list-style-type: none"> • Use Microsoft Virtual Server • Use VMWare and have a unified view of ProLiant servers and Virtual Machine. • Consolidate servers 	<ul style="list-style-type: none"> • Manage, control, and get a unified view of virtual machines and associated host server resources • Simplify management processes • Single console for physical server and virtual machine resources 	<ul style="list-style-type: none"> • Simplified management of virtual and physical resources • Improved application performance • Reduced hardware management costs
Vulnerability and Patch Management Pack	<ul style="list-style-type: none"> • Keep pace with constant release of new vulnerabilities and patches. • Leverage existing tools, including HP SIM • Effectively fix vulnerabilities 	<ul style="list-style-type: none"> • Get the latest vulnerability data and patches automatically • Automatically identify new vulnerabilities and schedule and deploy patches and fixes • Continually check to see that patches stay installed 	<ul style="list-style-type: none"> • Reduced risk of problems • Faster implementation and higher return on investment by leveraging existing tools
Workload Management Pack	<ul style="list-style-type: none"> • Consolidate multiple applications on fewer Windows-based servers 	<ul style="list-style-type: none"> • Remote management virtualisation • Allocate, protect and automate application resources to achieve higher availability for applications and enable server consolidation 	<ul style="list-style-type: none"> • Improved application performance • Reduced hardware management costs

Find out more

For more information on how to select the management software that is right for your business, please contact your local HP representative or visit:

www.hp.com/go/proliantessentials

HP Storage Essentials:

www.hp.com/go/storageessentials

HP Integrity Essentials:

www.hp.com/go/integrityessentials

HP Services

HP Services offers comprehensive services to help design, deploy, manage and support your Insight Control solution. Our 69,000 skilled professionals and network of partners deliver global capabilities across the IT life-cycle, including consulting, integration, outsourcing and support. Easy-to-buy, easy-to-use HP Care Pack services provide for successful deployment and support at affordable packaged pricing.

HP ProLiant Essentials portfolio of Installation and Startup services include options for Insight Control Environment and Integrated Lights-Out (iLO) Power Management Pack. Also available are more comprehensive implementation services that can be tailored to meet your specific requirements.

HP Software Technical Support Service covers all the key modules of the ProLiant Essentials portfolio, including Insight Control Environment and Integrated Lights-Out (iLO) Power Management Pack, helping you improve performance and availability. You receive expert assistance through telephone and online access to experienced HP Response Center engineers, rapid problem diagnosis and resolution, up-to-date product and support information and software patches.

To fully capitalise on the capabilities of your server and storage management solution, you need a service partner who thoroughly understands your IT environment and how it behaves in a multi-vendor environment. HP Services has those unique insights and provide a wide range of support services designed to help you get the most from your technology.

For a complete listing of services and support, please visit:
www.hp.com/services/proliantessentialservices

To learn more, visit www.hp.com/go/proliantessentials

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