

Overview

HP Matrix Operating Environment enables you to instantly adjust to dynamic business demands. This advanced infrastructure management software helps you to provision infrastructure in minutes, optimize infrastructure confidently, and protect continuity of services. It is a single toolkit to accelerate complex IT projects, simplify daily operations, and manage data center capacity and power proactively.

Providing advanced infrastructure management, HP Matrix Operating Environment builds on HP Insight Control, delivering a powerful and single integrated by-design toolkit to accelerate complex IT projects and simplify daily operations. By continuously analyzing and optimizing an adaptive infrastructure, Matrix Operating Environment can reduce the cost of common data center tasks up to 40%.

Matrix Operating environment includes capacity planning, configuration management and HP Insight Control and includes infrastructure orchestration capabilities for automated design and provisioning, and recovery management for disaster recovery capabilities.

HP Matrix Operating Environment provides the core management capabilities of HP CloudSystem Matrix <http://www.hp.com/go/matrix>. HP CloudSystem Matrix is a best-run infrastructure out of the box to deliver better business results and build your ultimate virtual infrastructure. HP Matrix Operating Environment is also available in a software-only package for HP ProLiant servers and server blades.

Electronic software is now available in most countries. HP recommends purchasing electronic products over physical products when available for faster delivery and the convenience of not having to manage-either file away or throw away-confidential paper licenses. For more information, please contact an HP representative.

What's New

New for version 7.0:

Leading cloud functionality:

- Unique bursting capabilities to SAVVIS
- Scale to 10,000 VMs with federated CMS
- VLAN separation for secure multi-tenancy

Increased infrastructure automation:

- On-demand storage provisioning
- Bi-directional failover for more flexible & efficient disaster recovery
- 3PAR FC disaster recovery integration for ProLiant

Expanded cloud eco-system

- CloudSystem Developers Community
 - Expanded Cloud Map portfolio
 - HP Next Generation ProLiant support
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Models

HP Licenses and Media

HP Matrix Operating Environment

NOTE: HP Matrix Operating Environment supports the HP ProLiant ML/DL 300, 500,



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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/ICE-license>.

HP Matrix Operating Environment with Insight Control - HP ProLiant c-Class Blade Servers

NOTE: Allows customers to purchase HP Matrix Operating Environment in one easy to order license package for HP ProLiant c-Class blade servers. Customers who already have Insight Control licenses for their servers should consider the upgrade license packages listed in a separate section below.

HP Matrix Operating Env for ProLiant w/ Insight Control BL incl 1yr 24x7 Support Encl 8 Svr FIO Lic

TC226A

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 a printed license entitlement certificate via physical shipment.

HP Matrix Operating Env for ProLiant w/ Insight Control BL incl 1yr 24x7 Support Encl 16 Svr FIO Lic

TC227A

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 a printed license entitlement certificate via physical shipment.

HP Matrix Operating Environment for ProLiant w/ Insight Control w/1y 24x7 Supp Encl Bndl 8Svr E-LTU

TC226AAE

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.

NOTE: Electronic software is available in all countries except China and Japan. For China and Japan please order the physical equivalent.

HP Matrix Operating Environment for ProLiant w/ Insight Control w/1y 24x7 Supp Encl Bndl 16Svr E-LTU

TC227AAE

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.

NOTE: Electronic software is available in all countries except China and Japan. For China and Japan please order the physical equivalent.

HP Matrix Operating with Insight Control - for HP ProLiant and HP ProLiant c-Class blade servers.

NOTE: Allows customers to purchase HP Matrix Operating Environment in one easy to order license package for HP ProLiant servers. Customers who already have Insight Control licenses for their servers should consider the upgrade license packages listed in a separate section below.



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HP Matrix Operating Environment for ProLiant with Insight Control incl 1yr 24x7 Supp Single Svr Lic NOTE: This license supports HP ProLiant ML/DL servers and c-Class blade servers. Customer will receive a printed license entitlement certificate via physical shipment.	TC222A
HP Matrix Operating Environment for ProLiant with Insight Control incl 1yr 24x7 Support Flex Qty Lic NOTE: This license supports HP ProLiant ML/DL servers and c-Class blade servers. NOTE: This license can be used to purchase multiple licenses with a single activation key. Customer will receive a printed license certificate via physical shipment.	TC223A
HP Matrix Operating Environment for ProLiant with Insight Control incl 1yr 24x7 Support Tracking Lic NOTE: This license supports HP ProLiant ML/DL servers and c-Class blade servers. NOTE: For use with signed and implemented Activation Key Agreements (AKA) only. Purchase of this part number entitles the customer to deploy additional licenses under the terms of the existing AKA. No physical components or license keys are delivered in conjunction with the purchase of this part number.	TC224A
HP Matrix Operating Environment for ProLiant with Insight Control incl 1yr 24x7 Support E-LTU NOTE: This license supports HP ProLiant ML/DL servers and c-Class blade servers. Customer will receive via email a receipt and link to a license entitlement certificate. NOTE: Electronic software is available in all countries except China and Japan. For China and Japan please order the physical equivalent. HP Matrix Operating without Insight Control (upgrade for existing Insight Control customers) NOTE: Allows existing Insight Control license owners customers to purchase HP Matrix Operating Environment licenses as an upgrade for HP ProLiant servers. Not applicable to HP Insight Control for Linux.	TC225AAE
HP Matrix Operating Env for ProLiant Upgrade from Insight Control incl 1yr 24x7 Supp Single Svr Lic NOTE: This license supports HP ProLiant ML/DL and c-Class Blade servers. Customer will receive a printed license entitlement certificate via physical shipment.	TC228A
HP Matrix Operating Env for ProLiant Upgrade from Insight Control incl 1yr 24x7 Supp Flex Qty Lic NOTE: This license supports HP ProLiant ML/DL and c-Class Blade servers. NOTE: This license can be used to purchase multiple licenses with a single activation key. Customer will receive a printed license entitlement certificate via physical shipment.	TC229A
HP Matrix Operating Env for ProLiant Upgrade from Insight Control incl 1yr 24x7 Supp Tracking Lic NOTE: This license supports HP ProLiant ML/DL and c-Class Blade servers. NOTE: For use with signed and implemented Activation Key Agreements (AKA) only. Purchase of this part number entitles the customer to deploy additional licenses under the terms of the existing AKA. No physical components or license keys are delivered in conjunction with the purchase of this part number.	TC230A



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HP Matrix Operating Env for ProLiant Upgrade from Insight Control incl 1yr 24x7 Supp Electronic Lic	TC231AAE
NOTE: This license supports HP ProLiant ML/DL and c-Class Blade servers. Customer will receive via email a receipt and link to a license entitlement certificate.	
NOTE: Electronic software is available in all countries except China and Japan. For China and Japan, please order the physical equivalent.	
HP Matrix Operating for non-HP servers	
NOTE: Allows customers to purchase HP Matrix Operating Environment licenses for select, non-HP servers from Dell and IBM	
NOTE: Functionality is limited when compared to HP support. See HP Insight Software support matrix for details: www.hp.com/go/matrixoe	
NOTE: Support is limited to select x86 server models from Dell and IBM. See HP Insight Software support matrix for details: www.hp.com/go/matrixoe	
HP Matrix Operating Environment for non-HP Servers including 1yr 24x7 Support Single Server License	TC234A
NOTE: This license supports selected Dell and IBM x86 servers. Customer will receive a printed license entitlement certificate via physical shipment.	
HP Matrix Operating Environment for non-HP Servers incl 1yr 24x7 Support Flexible Quantity License	TC235A
NOTE: This license supports selected Dell and IBM x86 servers.	
NOTE: This license can be used to purchase multiple licenses with a single activation key. Customer will receive a printed license entitlement certificate via physical shipment.	
HP Matrix Operating Environment for non-HP Servers incl 1yr 24x7 Support Tracking License	TC236A
NOTE: This license supports selected Dell and IBM x86 servers.	
NOTE: For use with signed and implemented Activation Key Agreements (AKA) only. Purchase of this part number entitles the customer to deploy additional licenses under the terms of the existing AKA. No physical components or license keys are delivered in conjunction with the purchase of this part number.	
HP Matrix Operating Environment for non-HP Servers including 1yr 24x7 Support Electronic License	TC237AAE
NOTE: This license supports selected Dell and IBM x86 servers. Customer will receive via email a receipt and link to a license entitlement certificate via physical shipment.	
NOTE: Electronic software is available in all countries except China and Japan. For China and Japan, please order the physical equivalent.	
HP Insight Capacity Advisor Consolidation software for HP ProLiant servers and c-Class blade Servers	
HP Capacity Advisor Consolidation Software for ProLiant Electronic License	TC296AAE
NOTE: For ProLiant server licenses, the HP Insight Capacity Advisor Consolidation software includes a 24x7 Technical Support and Update Service (Support and Updates last for one year after first activation of a flex license group).	
NOTE: Allows customers to purchase HP Insight Capacity Advisor Consolidation software licenses with a 6 months activation period per server.	
NOTE: Electronic software is available in all countries except China and Japan. For China and Japan should order the physical equivalent.	
Media	
HP Insight Management Media Kit	436222-B21
NOTE: The Insight Software media kit includes the HP Matrix Operating Environment,	



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HP Virtual Connect Enterprise Manager, HP Insight Control and HP Systems Insight Manager.

The Insight Software can also be downloaded from the web at:

<http://h18013.www1.hp.com/products/servers/management/fpdownload.html>

NOTE: The Insight Software DVD Media Kit comes without licenses. It contains HP Insight software products licensed by Insight software and/or individual products. It uses an integrated installer to perform quick and accurate software installation and updates.



Standard Features

Licensing and Packaging **NOTE:** The HP Matrix Operating Environment is licensed per server. One server license is required for every managed server. Licenses are non-transferable. Full details are contained in the End User License Agreement.

For each purchased license, a license entitlement certificate will be delivered. The license entitlement certificate contains information needed to redeem license activation key(s) online or via fax. For more information, please visit: <http://www.hp.com/go/ICE-license>.

The HP Matrix Operating Environment is provide on DVD media included in the HP Insight Software Media Kit, and can also be downloaded from:

<http://h18013.www1.hp.com/products/servers/management/fpdownload.html>

NOTE: For more information regarding HP Matrix Operating Environment visit: www.hp.com/go/matrixoe

HP Matrix Operating Environment Benefits

HP Matrix Operating Environment lets you cut operational costs and adapt your infrastructure as your business grows. For example, it helps you accelerate your top IT project schedules by weeks or months, easily repurpose resources to match your business priorities, extend the life of your datacenters with energy-aware capacity planning and free untapped resources for use where they are needed most. Specifically, HP Matrix Operating Environment helps you:

Provision infrastructure in minutes

- Reduces costs of common data center tasks up to 40% (costs associated with capacity planning, provisioning, upgrades and changes, and energy)
- Provision infrastructure consistently and automatically from pools of shared resources using standardized templates & a self-service portal (infrastructure orchestration)
- Reduced application deployment time by ½

Optimize with confidence

- Reduces complexity by managing physical & virtual resources in the same way from the same console for ProLiant, Integrity, non-HP, and multi-OS
- Real time energy-aware capacity planning for continuous analysis and optimal workload placement
- Most advanced real-time capacity planning tool - it can collect and analyze more than a thousand data points per server per day (physical and virtual resources)
- Smart Solver technology finds best fit placement for workloads
- 5-star rating system shows head-room capacity for optimal fit
- On-demand movement of server profiles from one physical blade to another, bringing the flexibility of virtualization to physical servers
- Integrated with leading virtualization technology vendor tools (VMware and Microsoft)
- Integration HP Insight Control capabilities

Protect continuity of services

- On-demand movement of server profiles from one physical blade to another, bringing the flexibility of virtualization to physical servers
- Extend HA to more servers and applications with servers and VMs for fast and affordable recovery and maintenance
- Tight integration between management, partitioning and HA
- Provide recovery management of both physical and virtual machines environments in the case of



Standard Features

- planned or unplanned downtimes at a primary site to a remote location.
- Automatically coordinate the integrated recovery of server and replicated storage environments at a remote site with the push of a button.
- Utilize storage-provided replication technologies for the recovery of storage at the remote location after the server activation.

Key Product Features

Capacity planning

- Capacity Advisor component enables detailed server capacity and power planning
- Smart Solver technology collects and analyzes historical data across thousands of variables on virtual and physical resources
- 5-Star ratings makes it easy to identify best fit candidates for workloads
- Automatically generated plans for consolidation and load balancing
- Estimation of the power consumption of different configurations
- Support for HP ProLiant, BladeSystem and Integrity servers

Configuration management

- Virtualization management visualizes physical and virtual infrastructure for HP ProLiant, BladeSystem and Integrity servers
- Allows you to manage physical and virtual servers in the same way

Infrastructure orchestration

Visually design infrastructure services

- Visual drag-and-drop design tool makes it easy for an infrastructure or application architect to configure required infrastructure components
- Captures requirements for servers, storage, and networking into a template. Templates can include multiple servers, which can be a mix of physical and virtual.
- Templates can be saved as "best practices" and published to a library
- Templates are automatically validated by the design tool to assure the template is viable

Automated provisioning through self-service portal

- Using the web-based self-service portal, users such as application teams can request infrastructure services from a template library based on their user role.
- After approval, the requested infrastructure service will be automatically provisioned from an available pool of resources. Users can view status and progress of their requests.
- Lease periods allow requestors to specify a time at which resources can be returned back to the resource pools.
- Support HP ProLiant and Integrity server blades for physical server provisioning and VMware ESX and Microsoft Hyper-V hosts for virtual server provisioning.

Integrate and automate with workflow automation

- Powered by HP Operations Orchestration software, a proven workflow automation tool.
- Enables integration with existing management processes and tools such as trouble ticket systems through a library of available connectors.
- Create custom workflows with visual designer to automate pre- and post-provisioning tasks.

Extend HP Matrix Operating Environment with HP Software solutions



Standard Features

- Integrates with HP Server Automation software for more comprehensive server lifecycle management, including patch and compliance management, application provisioning, and HP and 3rd-party server OS provisioning.
- Upgrade to the complete HP Operations Orchestration products for comprehensive automation of incident resolution, change orchestration and routine maintenance tasks in your data center

Recovery management

Provides disaster recovery with the push of a button

- Automates disaster recovery
- Simple GUI-based configuration tools allows easy creation of recovery profile based on primary profile information
- Coordination of system resources along with storage resources insures coordinated recovery actions
- Recovery initiated at remote location with a single action, resulting in remote location becoming fully active
- Site "role-reversal" allows for remote site to now become the primary site, and allows the ability to set up failover scenarios back to original site, when availability exists again

Protects both physical and virtual server environments

- Can recover both physical server environments as well as virtual environments enabled by key virtualization technologies
- Support VMware vSphere and Microsoft Hyper-V environments
- Supports HP ProLiant server blades for physical and VM failover, and HP ProLiant BL, ML and DL servers for VM failover.
- Dynamically supports recovery from physical servers to either a physical or virtual server, and then the ability to fail back to either a physical or virtual server, enabling flexible and more cost-effective disaster recovery.
- Supports recovery of up to 250 recovery groups (physical/virtual server and required storage) within a 5-hour Recovery Time Objective (RTO)

Utilizes established data replication technologies for long-distance recovery

- Integrates with and utilizes established data replication technologies to ensure remote failover of application and system data while helping to eliminate or minimize any data loss
- Supports HP EVA and HP XP Continuous Access across the full spectrum of EVA and XP storage array solutions for both metropolitan and continental distance recovery.
- Supports the recovery, and the manual connection of replicated storage environments to the recovered server, in cases where the coordinated synchronization of storage and server environments is not possible.

NOTE: HP Matrix Operating Environment recovery management is not supported on HP Integrity servers nor on non-HP servers. It is only supported on HP ProLiant servers and server blades.



Standard Features

Customer Usage Scenarios

Continuous Consolidation Many customers are still using spreadsheets to do capacity planning. Many resources, even after virtual machines are deployed are still at less than 40% utilization on average. Most tools do not give administrators real data that they can use to make decisions and act with confidence. Performance, consolidation, cost and power are usually rough estimates, validated only by trial and error.

Benefits:

- Lower cost of IT operations: fewer systems, smaller footprint, fewer software licenses and lower power requirements.
- Maintain higher service levels throughout the life of the applications.
- Up to 40% savings in capacity planning efforts (based on HP estimates)
- **Key Take-Away:** By optimizing utilization continuously, you can save valuable real estate, avoid costly expansion projects and extend the life of your data center

Energy Aware Planning

Power, cooling and space are top expenses and limitations in today's data centers. Energy not only costs more, but data centers are using more of it. It's no surprise then that energy expenditures are taking an ever larger bite out of operating expenditure (OPEX) budgets. And, regardless of the cost issues, some data centers are having trouble acquiring sufficient power to meet their energy needs. In this new era, power and cooling becomes a key consideration when planning an IT environment or adding hardware to an existing data center.

Benefits:

- Reduced energy consumption and cost
- Analyze power needs more efficiently
- By quickly identifying and consolidating inefficient servers onto fewer, more power efficient ones, you can reduce energy consumption, cut costs and extend the life of your data center.
- **Key Take-Away:** Power consumption analysis and planning saves on operating expenses.

High Availability & Disaster Recovery

High system availability and disaster recovery are now imperatives for an increasing number of application environments. If your business depends on certain applications, it can't tolerate downtime for those applications. Yet in many cases the use of high availability (HA) failover is restricted to a limited number of business-critical applications in complex, clustered configurations. Additionally, HP Matrix Operating Environment also provides recovery management capability for cost-effective disaster recovery across metropolitan distances, and beyond.

Benefits:

- Higher quality of service with lower risk
- Fast and affordable HA for non-mission-critical applications
- Shorter maintenance windows resulting in higher application up-time
- Cost-effective disaster recovery to quickly failover to a remote location, synchronized with required replicated storage, with the push of a button
- **Key Take-Away:** You can now protect more of your systems and shrink maintenance windows using spare capacity that is fast and affordable to set up, using existing virtual machines or physical servers and also take advantage of disaster recovery capabilities with HP Matrix Operating Environment recovery management.



Standard Features

Dynamic Infrastructure Provisioning

Keeping up with requests for new infrastructure is a challenge for most IT organizations. It can take weeks or even months to get new servers set up along with storage and networks, and by then the needs have changed again. One good example is the inefficiencies that test and development teams wrestle with on an ongoing basis. Average server utilization in test environments is often in the single digits, and equipment can stand idle for long periods of time. Moving, testing or troubleshooting applications on standalone servers can be a cumbersome process that stretches across multiple organizations. Given these operating circumstances, test and development environments need more than static, stand-alone servers. They are best placed in an agile computing environment, in which individual servers or even multi-tier, multi node configurations can be easily and quickly provisioned and reallocated, via a self-service portal, delivered through the now included infrastructure orchestration capability. This significantly speeds up the test and development lifecycle, and accelerates time to production.

Benefits:

- Accelerate time to production by quickly repurposing test and development infrastructure, taking advantage of the flexibility and efficiency of pooled resources
- Up to 30% increase in productivity for provisioning and change tasks.(based on HP estimates)
- **Key Take-Away:** By quickly creating servers for development or test environments and retiring or repurposing them as needed, you can significantly reduce the number of idle resources, and accelerate the time the time it takes to develop software and set up and conduct testing. With infrastructure orchestration you can visually design and automatically provision resources via a self-service portal.



Service and Support, HP Care Pack, and Warranty Information

Warranty HP will replace defective delivery media replacement for a period of 90 days following the date of purchase.

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

Software Technical Support and Update Service

The HP Matrix Operating Environment includes 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 either in electronic form or on physical media as they are made available from HP. (Customers who purchase an electronic license to use are eligible for electronic updates only.) With this service, HP Matrix Operating Environment 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>.

Installation & Startup Service

HP Matrix Operating Environment for HP ProLiant requires installation and startup services.

NOTE: Installation and Start-up services are required for each HP SIM Central Management Server (CMS) where HP Matrix Operating Environment will be deployed. Installation and start-up services are offered by HP Services and Authorized Business Partners.

NOTE: The HP Matrix Operating Environment for ProLiant Installation and Startup service does not include configuring of the HP Matrix Operating Environment recovery management. Customers who wish HP Services to configure HP Matrix Operating Environment recovery management will need to purchase separately the HP Matrix Operating Environment recovery management Installation and Startup service (HP part # UK830E).

Online Support Resources

HP Insight Remote Support incorporates industry-leading service tools that notify you when a significant system event has occurred or may potentially occur. You can configure and customize alert notification status for key hardware components including HP ProLiant servers. Integration of the HP Insight Remote Support with HP SIM brings you a comprehensive "phone home to HP" capability. For more information, please visit: <http://www.hp.com/services/remotesupportpack>.

Registration for Software Technical Support and Update Service

If the license information you received for your product instructs you to register for Software Technical Support and Update Service, please follow the instructions so that you will be eligible for telephone support and product updates.

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 Smart-Update Manager (HP SUM) web page to view your contract online and elect electronic delivery for your updates.

Software and Drivers Download Pages

For selection of your country or region for localized technical support information please visit: <http://www.hp.com/support> Selecting "Servers" provides latest software and drivers for your HP ProLiant products.



Service and Support, HP Care Pack, and Warranty Information

Join the Discussion (<http://www.itrc.hp.com>)

The HP Support Forum 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 HP ProLiant Essentials software, see the "Management Software and System Tools" area.

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 the website often for the latest down-loadable security updates.

Obtain the Latest SmartStart Release (<http://www.hp.com/servers/smartstart>)

The SmartStart, Management, and Firmware CD/DVD's are now freely available for download following a simple registration from the SmartStart web site. If you wish to receive physical kits with each release you can order single release kits from the SmartStart web site. To receive proactive notification when SmartStart releases are available, subscribe to Subscriber's Choice at:

<http://www.hp.com/go/subscriberschoice>.

HP Worldwide Customer Service contact numbers are available at:

<http://www.hp.com/country/us/en/wwcontact.html>.



Related Options

	<p>HP Capacity Advisor Consolidation Software for ProLiant incl 1yr 24x7 Support Flex Qty Lic</p> <p>NOTE: Allows customers to purchase HP Insight Capacity Advisor Consolidation software licenses with a 6 months activation period. Customer will receive a printed license entitlement certificate via physical shipment.</p> <p>NOTE: For additional information please see the QuickSpecs at: www.hp.com/go/capad</p>	492632-B21
HP Insight Control server deployment	<p>HP Insight Control Server Deployment including 1yr 24x7 Support Single Server License</p> <p>NOTE: This license allows 1 server to be deployed. Customer will receive a printed license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service.</p>	452151-B21
	<p>HP Insight Control Server Deployment including 1yr 24x7 Support Electronic License</p> <p>NOTE: Electronic software is available in all countries except China and Japan. Customers in China and Japan should order the physical equivalent.</p>	T9082AAE
HP BladeSystem Matrix	<p>HP CloudSystem Matrix Flex-10 Starter Kit with 3 year 24x7 Support</p> <p>NOTE: For complete ordering information guidance refer to the HP BladeSystem Matrix QuickSpecs: www.hp.com/go/matrix</p>	535888-B21
HP Service and Support	<p>NOTE: HP Matrix Operating Environment comes bundled with 1 Year, 24x7 Support & Updates. The following Service Uplifts and additions are also available.</p>	
	HP 3 year 24x7 Matrix Operating Environment with Insight Control Software Support	UR365E
	HP 4 year 24x7 Matrix Operating Environment with Insight Control Software Support	UR366E
	HP 5 year 24x7 Matrix Operating Environment with Insight Control Software Support	UR367E
	HP 3 year 24x7 Matrix Operating Environment with Insight Control 16 Server Software Support	UR371E
	HP 4 year 24x7 Matrix Operating Environment with Insight Control 16 Server Software Support	UR372E
	HP 5 year 24x7 Matrix Operating Environment with Insight Control 16 Server Software Support	UR373E
	HP 3 year 24x7 Matrix Operating Environment with Insight Control 8 Server Software Support	UR368E
	HP 4 year 24x7 Matrix Operating Environment with Insight Control 8 Server Software Support	UR369E
	HP 5 year 24x7 Matrix Operating Environment with Insight Control 8 Server Software Support	UR370E
	HP 3 year 24x7 Matrix Operating Environment without Insight Control Software Support	UR374E
	HP 4 year 24x7 Matrix Operating Environment without Insight Control Software Support	UR375E
	HP 5 year 24x7 Matrix Operating Environment without Insight Control Software Support	UR376E
	<p>HP Startup Matrix Operating Environment Recovery Management Service</p> <p>NOTE: Customers who would like HP Services to configure the Recovery Management functionality between two HP Matrix Operating Environment environments can purchase this HP Service.</p>	UK830E



Related Options

HP Installation and Startup for Matrix Operating Environment on ProLiant UF819E

NOTE: Installation and Start-up services are required for each HP SIM Central Management Server (CMS) where HP Matrix Operating Environment will be deployed.

NOTE: The HP Matrix Operating Environment for ProLiant Installation and Startup service does not include configuring of the HP Matrix Operating Environment recovery management. Customers who wish HP Services to configure HP Matrix Operating Environment recovery management will need to purchase separately the HP Matrix Operating Environment recovery management Installation and Startup service.

HP Installation and Startup for Insight Control Software UF369E

HP Installation & Startup for Virtual Connect Enterprise Manager UF816E

HP Implementation Server Boot from SAN Service UF820E

HP Education Services HP BladeSystem Virtualization Tools using HP Matrix Operating Environment 4-day customer training course, see the course datasheet: HG812S

<http://h10076.www1.hp.com/education/datasheets/hg812s.pdf>

<http://www.hp.com/education/courses/hg812s.html>

Virtual Connect for BladeSystem (includes Virtual Connect Enterprise Manager segment) 2-day customer training course HF837S

<http://www.hp.com/education/courses/hf837s.html>

HP Insight Software Curriculum

<http://www.hp.com/education/currpath/hp-proliant-essentials.html>



Technical Specifications

Supported hypervisors	Please see HP Insight Software support Matrix at: www.hp.com/go/moe
Managed servers	Please see HP Insight Software support Matrix at: www.hp.com/go/moe
Central Management Server (CMS) with HP Systems Insight Manager	Please see HP Insight Software support Matrix at: www.hp.com/go/moe
Other Hardware and Software Requirements and Options	Please see HP Insight Software support Matrix at: www.hp.com/go/moe

Other product information

The following product materials are available on HP Matrix Operating Environment web page at: www.hp.com/go/matrixoe

Product Datasheet

User Guide

General FAQ

Quick Start Installation Poster

White Papers

HP BladeSystem Matrix For more information on BladeSystem Matrix <http://www.hp.com/go/matrix>

HP Insight Capacity Advisor Consolidation Software For more information on HP Insight Capacity Advisor Consolidation Software <http://www.hp.com/go/capad>

Infrastructure orchestration For more information on the infrastructure orchestration capabilities: <http://www.hp.com/go/insightorchestration>

Recovery Management For more information on the recovery management capabilities: <http://www.hp.com/go/insightrecovery>

Virtual Connect Enterprise Manager For more information on HP Virtual Connect Enterprise Manager visit: <http://www.hp.com/go/vcem>

Virtual Connect For more information on HP Virtual Connect visit: <http://www.hp.com/go/ bladesystem/virtualconnect>

HP Systems Insight Manager For more information on HP Systems Insight Manager visit: <http://www.hp.com/go/hpsim>

HP Insight Control For more information on HP Insight Control visit: <http://www.hp.com/go/insightcontrol>

HP Matrix Operating Environment - VSE for Integrity For more information on the HP Matrix Operating Environment - VSE for Integrity server visit: <http://www.hp.com/go/vse>

HP Virtualization with VMware For more information on HP Virtualization with VMware visit: <http://www.hp.com/go/vmware>



Technical Specifications

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.
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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.

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