

### Overview

#### HP Matrix Operating Environment for ProLiant (Retired)

HP Matrix Operating Environment is cloud management software for infrastructure as a service (IaaS) that enables you to:

- Design and provision infrastructure services in minutes via a self-service portal
- Optimize infrastructure for capacity planning and showback/chargeback
- Protect service continuity with automated cost-effective failover

HP Matrix Operating Environment, which includes HP Insight Control, is at the core of the HP CloudSystem Matrix, an infrastructure as a service (IaaS) solution for private and hybrid cloud deployments, built on proven HP Converged Infrastructure technologies. It is available for both HP ProLiant and HP Integrity servers as well as for provisioning third party x86 virtual machine environments.

#### What's New

New capabilities for version 7.4 include:

- Support for recently released HP ProLiant Gen9 servers (including BL460c blade for CloudSystem solutions)
- Hyper-V enhancements (Generation 2 VMs, logical switches, RDM for HA VMs)
- Ability to add/remove networks from physical servers
- Ability to change disk size and user-defined properties at time of service creation
- GUI customizations and organization enhancements
- Storage support enhancements

#### Models

##### HP Licenses and Media

##### HP Matrix Operating Environment

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

HP Matrix Operating Environment for ProLiant with Insight Control incl 1yr 24x7 Supp Single Svr Lic

TC222B

**NOTE:** This license supports HP ProLiant ML/DL servers and c-Class blade servers. Will receive a printed license entitlement certificate via physical shipment.

HP Matrix Operating Environment for ProLiant with Insight Control incl 1yr 24x7 Support Flex Qty Lic

TC223B

**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

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key. Customer will receive a printed license certificate via physical shipment.

HP Matrix Operating Environment for ProLiant with Insight Control incl 1yr 24x7 Support Tracking Lic

TC224B

**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.

HP Matrix Operating Environment for ProLiant with Insight Control incl 1yr 24x7 Support E-LTU

TC225BAE

**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 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

TC226B

**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

TC227B

**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

TC226BAE

**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

TC227BAE

**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

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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 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.

HP Matrix Operating Env for ProLiant Upgrade from Insight Control incl 1yr 24x7 Supp Single Svr Lic

TC228B

**NOTE:** This license supports HP ProLiant ML/DL and c-Class Blade servers. Customer will receive a printed license entitlement certificate via physical shipment.

HP Matrix Operating Env for ProLiant Upgrade from Insight Control incl 1yr 24x7 Supp Flex Qty Lic

TC229B

**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.

HP Matrix Operating Env for ProLiant Upgrade from Insight Control incl 1yr 24x7 Supp Tracking Lic

TC230B

**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.

HP Matrix Operating Env for ProLiant Upgrade from Insight Control incl 1yr 24x7 Supp Electronic Lic

TC231BAE

**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 Environment for non-HP servers**

**NOTE:** Allows customers to purchase HP Matrix Operating Environment licenses for non-HP x86 servers

**NOTE:** Functionality is limited when compared to HP support. See HP Insight Software support matrix for details: <http://www.hp.com/go/matrixoe>

**NOTE:** Support is limited to x86 servers. See HP Insight Software support matrix for details: [www.hp.com/go/matrixoe](http://www.hp.com/go/matrixoe)

HP Matrix Operating Environment for non-HP Servers including 1yr 24x7 Support Single Server License

TC234B

**NOTE:** This license supports 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

TC235B

**NOTE:** This license supports 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.

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HP Matrix Operating Environment for non-HP Servers incl 1yr 24x7 Support Tracking License <b>NOTE:</b> This license supports x86 servers. <b>NOTE:</b> 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.	TC236B
HP Matrix Operating Environment for non-HP Servers including 1yr 24x7 Support Electronic License <b>NOTE:</b> This license supports x86 servers. Customer will receive via email a receipt and link to a license entitlement certificate via physical shipment. <b>NOTE:</b> Electronic software is available in all countries except China and Japan. For China and Japan, please order the physical equivalent. <b>HP Insight Capacity Advisor Consolidation software for HP ProLiant servers and c-Class blade Servers</b>	TC237BAE
HP Capacity Advisor Consolidation Software for ProLiant Electronic License <b>NOTE:</b> 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). <b>NOTE:</b> Allows customers to purchase HP Insight Capacity Advisor Consolidation software licenses with a 6 months activation period per server. <b>NOTE:</b> Electronic software is available in all countries except China and Japan. For China and Japan should order the physical equivalent. <b>Media</b>	TC296AAE
HP Insight Management Media Kit <b>NOTE:</b> The Insight Software media kit includes the HP Matrix Operating Environment, HP Virtual Connect Enterprise Manager, HP Insight Control and HP Systems Insight Manager. The Insight Software can also be downloaded from the web at: <a href="http://h18013.www1.hp.com/products/servers/management/fpdownload.html">http://h18013.www1.hp.com/products/servers/management/fpdownload.html</a> There is also a trial version for virtual environment only at: <a href="http://www/hp/com/go/trycloudsystem">http://www/hp/com/go/trycloudsystem</a> <b>NOTE:</b> 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.	C6N31A

### Standard Features

**Licensing and Packaging** **NOTE:** The HP Matrix Operating Environment is licensed per server for private cloud implementations, and per managed instance when used to manage public cloud resources via bursting. One server license is required for every managed server. Each server license also includes rights to manage one public cloud instance. Customers may purchase HP Matrix OE Public Cloud Managed Instance licenses as needed to manage additional public cloud resources. 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](http://www.hp.com/go/matrixoe)

### HP Matrix Operating Environment Benefits

Matrix OE can help you cut operational costs and enable your infrastructure to adapt as your business grows. Specifically, Matrix OE helps:

#### Reduce costs

HP estimates that the software can greatly reduce the cost of common data center tasks, thereby lowering costs associated with capacity planning, virtual provisioning (when used with Virtual Connect and Virtual Connect Enterprise Manager, Matrix OE supports physical server provision as in the CloudSystem Matrix solution), upgrades and changes, and energy.

#### Increase the speed of change

By reducing steps for key tasks, you can accelerate key technology projects. For instance, moving a workload from one server to another with a simple drag and drop takes minutes while traditional approaches can take days and often require extensive coordination between server, storage, networking, and facilities groups.

#### Improve quality

Matrix OE enables you to provide high availability and maintain quality of service levels more cost effectively than traditional clustering. By redeploying logical servers easily in the event of hardware failure, you can enjoy fast protection, which was previously unaffordable.

#### Manage energy

Matrix OE helps you compare the energy consumption of different data center configurations easily. Matrix OE gives you the hard data you need to make the most of your energy consumption.

### Key Product Features

#### Provision infrastructure in minutes

Matrix OE helps you build a complete infrastructure environment ready for your applications in minutes-by automating the provisioning of virtual and, along with Virtual Connect, physical servers with their storage and networking connections. An application infrastructure can be up and running in minutes, rather than weeks or months.

#### Infrastructure orchestration

With the orchestration capability of Matrix OE, you can accelerate the design and delivery of infrastructure resources by creating service templates. These templates can then be started, stopped, and stored offline for reuse. This means, you can now visually design a catalog of

### Standard Features

	<p>infrastructure service templates, including multi-tier, multi-node configurations that can be activated in minutes. Authorized users can provision virtual and physical (when used with Virtual Connect and Virtual Connect Enterprise Manager) infrastructure from pools of shared server and storage resources through a self-service portal, which automates and streamlines the approval process for requested infrastructure.</p>
<b>Improve infrastructure confidently</b>	<p>HP Matrix OE provides deep insight into your infrastructure and lets you quickly adjust your environment over its lifecycle, so that you can predictably make changes without time-consuming analysis. Key data points like power, CPU, memory, and network utilization are captured every five minutes (more than a thousand data points per server per day) and are used to generate best-fit consolidation scenarios that fit right.</p>
<b>Capacity planning</b>	<p>To make the most of your environment, planning is vital to assign the right application workloads to the right servers. With Matrix OE, you can do just that with built-in capacity planning and rebalancing tools. It is an industry leading real-time capacity planning tool, which allows you to continually analyze server capacity and power use. This intuitive capacity planning tool simulates various workload scenarios, so you can choose the one that best meets your business needs.</p>
<b>Protect continuity of services</b>	<p>For the utmost in integrated disaster recovery, Matrix OE recovery management lets you move workloads to other servers or sites with a simple mouse click, improving recovery time up to 80 percent or more. Failed over workloads are dealt with in as few as five minutes across physical (with Virtual Connect) and virtual servers. Core capabilities of Matrix OE recovery management include failover and recovery for both physical and virtual environments; integration with HP EVA and XP storage data replication solutions; a GUI, which is easy to use, for creation and testing of failover and recovery scenarios; and integration with VMware vSphere and Microsoft Hyper-V virtualization environments for ProLiant Servers.</p>

**NOTE:** HP Matrix Operating Environment recovery management is not supported on HP Integrity servers or on non-HP servers. It is only supported on HP ProLiant servers and server blades.

### Customer Usage Scenarios

<b>Move your Test &amp; Development environment to a Cloud</b>	<p>Create a dynamic test and development infrastructure. Rapidly activate and deactivate test and development environments, to quickly repurpose infrastructure without reinstallation. Resources may be pooled and shared, improving utilization and reducing cost. Cloud bursting further allows you to provision services beyond the "private cloud" by "bursting" into a public cloud for a specific template-defined service. The resources in the public cloud are paid for only when used, and released when no longer needed, optimizing cost and flexibility.</p>
<b>Expand the Cloud to include your production infrastructure</b>	<p>Use the HP Matrix infrastructure orchestration capabilities to accelerate delivery of shared infrastructure services, while reducing complexity, cutting costs, and improving reliability. Use of capacity planning can help to contain server sprawl, improve utilization, and achieve space and power efficiencies. Finally, you can freely move workloads, during planned or unplanned downtime, to ensure and increase availability.</p>
<b>Deliver and monitor infrastructure and</b>	<p>HP CloudSystem Matrix provides advanced virtual and physical (when used with Virtual Connect and Virtual Connect Enterprise Manager) provisioning and management of applications and infrastructure</p>

### Standard Features

**applications**

with industry best practice templates, a highly flexible architecture with advanced workload optimization and metering, service assurance, application lifecycle management, security, and compliance.

### 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 recommends installation and startup services.

**NOTE:** Installation and Start-up services are optional for each HP SIM Central Management Server (CMS) where HP Matrix Operating Environment will be deployed to manage virtual workloads only. (see: <http://www.hp.com/go/trycloudsystem> for additional information)

**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).

#### **HP CloudSystem Matrix Conversion Services**

**NOTE:** HP CloudSystem Matrix Conversion Services is required for customers seeking management of physical workloads. This service will convert your existing HP BladeSystem equipment into a fully operational CloudSystem Matrix solution. Converting your existing equipment allows you to build on the investment in your BladeSystem Infrastructure and benefit from the advantages that a CloudSystem Matrix solution provides. These services apply to both BladeSystem and BladeSystem based HP VirtualSystem Infrastructures.

#### **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.



### Service and Support, HP Care Pack, and Warranty Information

#### **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.

#### **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

<b>HP Insight Capacity Advisor Consolidation Software</b>	<p>HP Capacity Advisor Consolidation Software for ProLiant incl 1yr 24x7 Support Flex Qty Lic</p> <p><b>NOTE:</b> 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><b>NOTE:</b> For additional information please see the QuickSpecs at: <a href="http://www.hp.com/go/capad">http://www.hp.com/go/capad</a></p>	492632-B21
<b>HP Matrix OE Public Cloud Managed Instance License</b>	<p>HP Matrix Operating Environment Public Cloud Managed Instance 1 year 24x7 Support License</p> <p>HP Matrix Operating Environment Public Cloud Managed Instance 1 year 24x7 Support E-LTU</p> <p>HP Matrix Operating Environment Public Cloud Managed Instance 1 year 24x7 Support Flexible License</p> <p><b>NOTE:</b> Each traditional (node-based) Matrix OE license includes rights to also manage one public cloud instance. For example, a purchase of 16 Matrix OE server licenses entitles the buyer to also manage up to 16 instances concurrently across all public clouds. This built-in public cloud licensing may be sufficient to cover all bursting needs of some CloudSystem users. If more extensive bursting is required, a Matrix OE public cloud managed instance license (BD580A, BD580AAE, and BD581A) is required for each additional VM that will be managed concurrently on public cloud infrastructure.</p> <p><b>NOTE:</b> Customers purchasing "t" quantity of the traditional (node-based) Matrix OE license and "p" quantity of Matrix OE Public Cloud Managed Instance License will be able to burst up to "t+p" virtual machine(s) concurrently. The total number of VMs in use simultaneously across all cloud service providers may not exceed "t+p".</p> <p><b>NOTE:</b> Matrix OE Public Cloud Managed Instance License (BD580A, BD580AAE, and BD581A) will be valid for a period of one year from the date of purchase. To extend rights to manage a public cloud instance beyond the license term, customers must purchase another license when their current license expires.</p> <p><b>NOTE:</b> For each purchased fixed or flexible license, a printed license entitlement certificate will be delivered. For each purchased electronic license, a license entitlement certificate will be delivered electronically.</p>	<p>BD580A</p> <p>BD580AAE</p> <p>BD581A</p>
<b>HP Service and Support</b>	<p><b>NOTE:</b> HP Matrix Operating Environment comes bundled with 1 Year, 24x7 Support &amp; Updates. The following Service Uplifts and additions are also available.</p> <p>HP 3 year 24x7 Matrix Operating Environment with Insight Control Software Support</p> <p>HP 4 year 24x7 Matrix Operating Environment with Insight Control Software Support</p> <p>HP 5 year 24x7 Matrix Operating Environment with Insight Control Software Support</p> <p>HP 3 year 24x7 Matrix Operating Environment with Insight Control 16 Server Software Support</p> <p>HP 4 year 24x7 Matrix Operating Environment with Insight Control 16 Server Software Support</p> <p>HP 5 year 24x7 Matrix Operating Environment with Insight Control 16 Server Software Support</p> <p>HP 3 year 24x7 Matrix Operating Environment with Insight Control 8 Server Software Support</p>	<p>UR365E</p> <p>UR366E</p> <p>UR367E</p> <p>UR371E</p> <p>UR372E</p> <p>UR373E</p> <p>UR368E</p>

### Related Options

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
HP Startup Insight Dynamics Recovery Management Service <b>NOTE:</b> Customers who would like HP Services to configure the Recovery Management functionality between two HP Matrix Operating Environment environments can purchase this HP Service.	UK830E
HP Matrix Operating Environment for ProLiant Installation and Startup Service <b>NOTE:</b> Installation and Start-up services are recommended for each HP SIM Central Management Server (CMS) where HP Matrix Operating Environment will be deployed. This service is to be utilized to deploy Matrix OE for virtual workloads only. <b>NOTE:</b> 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.	UF819E
HP CloudSystem Matrix Conversion Services <b>NOTE:</b> This service is required for customers seeking support for physical work loads.	HA115A1-5P9
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
<b>HP Education Services</b> HP BladeSystem Virtualization Tools using HP Matrix Operating Environment 4-day customer training course, see the course datasheet: <a href="http://h10076.www1.hp.com/education/datasheets/hg812s.pdf">http://h10076.www1.hp.com/education/datasheets/hg812s.pdf</a> <a href="http://www.hp.com/education/courses/hg812s.html">http://www.hp.com/education/courses/hg812s.html</a>	HG812S
Virtual Connect for BladeSystem (includes Virtual Connect Enterprise Manager segment) 2-day customer training course <a href="http://www.hp.com/education/courses/hf837s.html">http://www.hp.com/education/courses/hf837s.html</a>	HF837S
HP Insight Software Curriculum <a href="http://www.hp.com/education/currpath/hp-proliant-essentials.html">http://www.hp.com/education/currpath/hp-proliant-essentials.html</a>	

### Related Options

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

<b>Other product information</b>	Additional information is available on HP Matrix Operating Environment web page at: <a href="http://www.hp.com/go/matrixoe">http://www.hp.com/go/matrixoe</a>
<b>HP CloudSystem Matrix</b>	For more information on CloudSystem Matrix <a href="http://www.hp.com/go/matrix">http://www.hp.com/go/matrix</a>
<b>HP Insight Capacity Advisor Consolidation Software</b>	For more information on HP Insight Capacity Advisor Consolidation Software <a href="http://www.hp.com/go/capad">http://www.hp.com/go/capad</a>
<b>Virtual Connect Enterprise Manager</b>	For more information on HP Virtual Connect Enterprise Manager visit: <a href="http://www.hp.com/go/vcem">http://www.hp.com/go/vcem</a>
<b>Virtual Connect</b>	For more information on HP Virtual Connect visit: <a href="http://www.hp.com/go/ bladesystem/virtualconnect">http://www.hp.com/go/ bladesystem/virtualconnect</a>
<b>HP Systems Insight Manager</b>	For more information on HP Systems Insight Manager visit: <a href="http://www.hp.com/go/hpsim">http://www.hp.com/go/hpsim</a>
<b>HP Insight Control</b>	For more information on HP Insight Control visit: <a href="http://www.hp.com/go/insightcontrol">http://www.hp.com/go/insightcontrol</a>
<b>HP Matrix Operating Environment for HP-UX</b>	For more information on the HP Matrix Operating Environment for HP-UX visit: <a href="http://www.hp.com/go/vse">http://www.hp.com/go/vse</a>
<b>HP Virtualization with VMware</b>	For more information on HP Virtualization with VMware visit: <a href="http://www.hp.com/go/vmware">http://www.hp.com/go/vmware</a>

<b>Environment-friendly Products and Approach</b>	<b>End-of-life Management and Recycling</b>	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 <a href="http://www.hp.com/go/green">http://www.hp.com/go/green</a> . To recycle your product, please go to: <a href="http://www.hp.com/go/green">http://www.hp.com/go/green</a> 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.

### Summary of Changes

Date	Version History	Action	Description of Change:
24-Jun-2016	From Version 24 to 25	Retire	Document Retired
10-Oct-2014	From Version 23 to 24	Changed	Changed the What's New Section
20-Dec-2013	From Version 22 to 23	Changed	Changes were made in the Overview, Standard Features and in the Related Options Sections.
30-Aug-2013	From Version 21 to 22	Changed	Changes were made in the Overview Section
25-Feb-2013	From Version 20 to 21	Changed	Changes were made in the Models and Related Options section.
19-Feb-2013	From Version 19 to 20	Changed	Changes were made in Related Options section.
21-Sep-2012	From Version 18 to 19	Changed	Changes were made in Related Options section.
13-Aug-2012	From Version 17 to 18	Changed	Changes were made within Standard Features and Related Options sections.
12-Jun-2012	From Version 16 to 17	Changed	Changes were made within the Models, Standard Features and Technical Specifications sections.
08-Jun-2012	From Version 15 to 16	Changed	Changes were made throughout the QuickSpec.
04-Jun-2012	From Version 14 to 15	Changed	Changes were made throughout for version 7.1 update.
06-Mar-2012	From Version 13 to 14	Changed	Changes were made throughout for version 7.0 update, including changing the title.
05-Apr-2011	From Version 12 to 13	Changed	Insight Dynamics was replaced with moe in the urls for Supported hypervisors, Managed servers, Central Management Server (CMS) with HP Systems Insight Manager and Other Hardware and Software Requirements and Options.
08-Oct-2010	From Version 11 to 12	Changed	HP Insight Dynamics Benefit and Key Product Features were revised in Standard Features.
09-Jul-2010	From Version 10 to 11	Changed	Notes for part numbers TC231AAE and TC237AAE were revised in Models.
21-Jun-2010	From Version 9 to 10	Changed	<p>HP Insight Dynamics with Insight Control, 8-server and 16-server Electronic license including 1 year of 24x7 Technical Support and Updates, Factory Integrated Only (FIO) were added to Models</p> <p>HP Insight Control server deployment, Electronic License including 1 year of 24x7 Technical Support and Updates was added to HP Insight Control server deployment</p> <p>Additional edits were made throughout the QuickSpec, including removing "suite" from the entire QuickSpec</p> <p>Note the title has changed</p>
19-Mar-2010	From Version 8 to 9	Changed	Changes were made within the Overview and Standard Features sections only.
16-Feb-2010	From Version 7 to 8	Changed	Changes were made throughout the QuickSpec. Note the title has changed.
15-May-2009	From Version 6 to 7	Changed	Modified Hypervisors, Managed Servers and Central Management Server (CMS) with HP Systems Insight Manager in the Technical Specifications section.

### Summary of Changes

27-Apr-2009	From Version 5 to 6	Changed	Changes made throughout the entire QuickSpec, except in the Standard Features section.
26-Jan-2009	From Version 4 to 5	Changed	Changes made throughout the entire QuickSpec. Note that the title has changed.
14-Nov-2008	From Version 3 to 4	Changed	Corrected a broken link.
14-Jul-2008	From Version 2 to 3	Changed	<p>Changes made in the Overview section are:</p> <p>The addition of What's New in the Overview section</p> <p>Models</p> <p>Changes in the Technical Specifications section are:</p> <p>Mentions of Generation 5 (G5) being removed</p> <p>Mentions of 2.5 U1 and 3.5 U1 being added</p> <p>HP ProLiant DL/ML rack-mount and tower server series 300, 500 and 700, G3 were added</p> <p>Virtualization Platforms section was added</p> <p>Mentions of MSA 2000 was added</p>
06-Jun-2008	From Version 1 to 2	Changed	<p>Changes made within the QuickSpec include:</p> <p>"Printed License entitlement certificate" was added to NOTES in the Models section</p> <p>Software and Support was updated in the Service and Support, HP Care Pack and Warranty Information section</p> <p>VMware ESX Server was revised</p> <p>Mentions of HP ProLiant DL/ML Rack Mount Tower Server models were added</p> <p>Part numbers UK612E, UK613E and UK614E were removed from Service and Support in the Related Options section</p>

### Summary of Changes

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