Overview

HPE Helion CloudSystem Enterprise software

HPE Helion CloudSystem Enterprise software is cloud management software designed to deliver advanced infrastructure services, as well as platform and application services. With it, you can:

- Provision advanced infrastructure and application services for multi-tier architectures in minutes
- Manage multiple OpenStack®-based resource pools across geographies and data centers
- Manage complex heterogeneous and ever changing datacenter environments through support for Microsoft Hyper-V, VMware ESXi, and Red Hat KVM hypervisors
- Implement capacity planning, disaster recovery and bursting to public clouds
- Provide enterprise-class lifecycle management for hybrid cloud services

Helion CloudSystem Enterprise software includes HPE Helion CloudSystem Foundation software and HPE Matrix Operating Environment (OE) well as HPE Cloud Service Automation (CSA) and HPE Operations Orchestration (OO) for advanced infrastructure and application services.

Helion CloudSystem Enterprise software supports a variety of different hypervisors, such as VMware, Microsoft Hyper-V, Red Hat KVM, and HPE Integrity VM, as well as both Hewlett Packard Enterprise and non- Hewlett Packard Enterprise infrastructure..

Helion CloudSystem Enterprise software is also delivered as a pre-configured turnkey solution, HPE Helion CloudSystem built on the HPE ConvergedSystem 700, which includes blade servers, VMware virtualization & 3PAR storage.

What's New

Helion CloudSystem Enterprise is HPE Helion's flagship cloud software offering. Helion CloudSystem Enterprise enables the broadest range of cloud use cases and supports IaaS, PaaS, and SaaS cloud service models. These service models are enabled through the inclusion of software such as HPE Cloud Service Automation (CSA) and Hewlett Packard Enterprise Operations Orchestration (OO) . In addition, Helion CloudSystem Enterprise includes Helion CloudSystem Foundation and the HPE Matrix Operating Environment (OE) as infrastructure providers. And just like Helion CloudSystem Foundation, it is also delivered as a virtual appliance. The following functionality is new for version 9.0:

- Embedded Cloud Service Automation (CSA) and Operations Orchestration (OO) software delivered as a virtual appliance in a three-node, high-availability (HA) management cluster
- A new OpenStack-based resource provider using OpenStack APIs directly to provision cloud services
- More flexible and portable service designs with new improved topology designer
- Manage multiple OpenStack-based resource pools across geos or datacenters
- Advanced multi-tier infrastructure services and application services with tools like Chef, Puppet, Server Automation to deploy applications
- Expanded support of physical server provisioning via HPE OneView integration with CSA
- Improved Amazon Web Services (AWS) provider to support repatriating workload to a HPE Helion Eucalyptus private

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cloud

- Continued support for Matrix Operating Environment (through CSA)
- Enterprise-class services lifecycle management for hybrid cloud services
- Integrated capacity planning, disaster recovery, and bursting to public clouds through Matrix OE
- GUI-based, self-service portal for service lifecycle management

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HPE Licenses

HPE Helion CloudSystem Enterprise software

NOTE: Helion CloudSystem Enterprise software can be used to manage cloud services under either per server or per OS instance licenses.

If purchased under a per server license, you may use the Helion CloudSystem Enterprise software to manage cloud services that run on the specified maximum number of licensed physical servers. In addition, for each Helion CloudSystem Enterprise per server license you may manage one instance running in a public cloud environment. The right to use Helion CloudSystem Enterprise software may not be transferred to a new or replacement server.

If purchased under a per OS instance license, you may use the Helion CloudSystem Enterprise software to manage cloud services up to the specified maximum number of OS Instances used by the cloud services.

For more information, please visit: **http://www.hp.com/go/cloudsystem**

NOTE: Helion CloudSystem Enterprise software license includes entitlement to the Helion CloudSystem Foundation Software, Matrix OE Software, Insight Control (including iLO Advanced & Insight Control Server provisioning) besides the Helion CloudSystem Enterprise appliance.

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.

NOTE: Helion CloudSystem Enterprise software can be downloaded at: **http://www.hp.com/go/cloudsystem/download**

HP Helion CloudSystem Enterprise 1-server 1yr Support LTU D4T93B

NOTE: Customer will receive a printed license certificate via physical shipment.

HP Helion CloudSystem Enterprise 1-server 1yr Support Flexible LTU D4T94B

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.

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HP Helion CloudSystem Enterprise 1-server 1yr Support E-LTU F9D69BAE
NOTE: This license can be used to purchase multiple licenses with a single activation key. Customer will receive via email a receipt and link to a license entitlement certificate.

HP Helion CloudSystem Enterprise 10-OSI 1yr Support LTU F9D53B
NOTE: Customer will receive a printed license certificate via physical shipment.

HP Helion CloudSystem Enterprise 10-OSI 1yr Support Flexible LTU F9D54B
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.

HP Helion CloudSystem Enterprise 10-OSI 1yr Support E-LTU F9D54BAE
NOTE: Customer will receive via email a receipt and link to a license entitlement certificate.

HPE Helion CloudSystem Enterprise with HPE OneView
HPE Helion CloudSystem Enterprise with HPE OneView 1-server 3yr Support E-LTU M6Q22BAE
NOTE: Allows customers to purchase HPE Helion CloudSystem Enterprise & HPE OneView in one easy to order license package. When purchased along with HPE OneView, the package includes HPE OneView without iLO Advanced license as the HPE Helion CloudSystem Enterprise license includes entitlement to iLO Advanced.

Upgrade from HPE Helion CloudSystem Foundation
NOTE: The following licenses can be used to upgrade an existing HPE Helion CloudSystem Foundation LTU to HPE Helion CloudSystem Enterprise LTU
HP Helion CloudSystem Enterprise 1-server Upgrade from Foundation 1yr Support LTU D4T95B

NOTE: Customer will receive a printed license certificate via physical shipment.

HP Helion CloudSystem Enterprise 1-server Upgrade from Foundation 1yr Support Flexible LTU D4T96B

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.

HP Helion CloudSystem Enterprise 1-server Upgrade from Foundation 1yr Support E-LTU D4T96BAE
NOTE: Customer will receive via email a receipt and link to a license entitlement certificate.

HP Helion CloudSystem Enterprise 10-OSI Upgrade from Foundation 1yr Support LTU F9D65B

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NOTE: Customer will receive a printed license certificate via physical shipment.

HP Helion CloudSystem Enterprise 10-OSI Upgrade from Foundation 1yr Support Flexible LTU **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.**	F9D66B
HP Helion CloudSystem Enterprise 10-OSI Upgrade from Foundation 1yr Support E-LTU **NOTE: Customer will receive via email a receipt and link to a license entitlement certificate.**	F9D66BAE
HP Helion CloudSystem Enterprise 8-server Upgrade from Foundation 3yr Support E-LTU **NOTE: Customer will receive via email a receipt and link to a license entitlement certificate.**	D4T99BAE
HP Helion CloudSystem Enterprise 16-server Upgrade from Foundation 3yr Support E-LTU **NOTE: Customer will receive via email a receipt and link to a license entitlement certificate**	D4U00BAE
HP Helion CloudSystem Enterprise 80-OSI Upgrade from Foundation 3yr Support E-LTU **NOTE: Customer will receive via email a receipt and link to a license entitlement certificate**	G2E79BAE
HP Helion CloudSystem Enterprise 160-OSI Upgrade from Foundation 3yr Support E-LTU **NOTE: Customer will receive via email a receipt and link to a license entitlement certificate**	G2E80BAE

Upgrade from HPE Matrix Operating Environment (OE)

NOTE: The following licenses can be used to upgrade an existing HPE Matrix OE LTU to HPE Helion CloudSystem Enterprise LTU

HP Helion CloudSystem Enterprise 1-server Upgrade from Matrix OE 1yr Support LTU **NOTE: Customer will receive a printed license certificate via physical shipment.**	M6Q24B
HP Helion CloudSystem Enterprise 10-OSI Upgrade from Matrix OE 1yr Support LTU	M6Q23B

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NOTE: Customer will receive a printed license certificate via physical shipment.

HPE Helion CloudSystem Enterprise SW delivered through HPE Helion CloudSystem built on HPE ConvergedSystem 700x

NOTE: For complete ordering information guidance refer to the HPE Helion CloudSystem built on HPE ConvergedSystem 700x QuickSpecs: **http://h18000.www1.hp.com/products/quickspecs/14911_div/14911_div.pdf**

Standard Features

HPE Helion CloudSystem Enterprise Benefits	**Reduce risk, while protecting investments**	Supporting an ever wide range of operating systems, tools, hypervisors and open source technologies, Helion CloudSystem helps you avoid vendor lock-in. Optimized to run on HPE ConvergedSystem infrastructure, provides improved performance and ensures reliability. Helion CloudSystem Enterprise supports the Helion Matrix Operating Environment as well as **Helion** CloudSystem Foundation resource providers providing customers investment protection and choice. In addition, Helion CloudSystem works easily with both Hewlett Packard Enterprise and non-Hewlett Packard Enterprise, third-party hardware, so you can leverage your prior investments.
	Speed time-to-value	Building on the ConvergedSystem model, Helion CloudSystem offers an easier on-ramp to the cloud: so you can order and receive it quickly as a pre-configured solution. With Helion CloudSystem Enterprise software, you can also move your existing virtual environment to cloud in hours, instead of days or weeks.
	Enterprise-class services lifecycle management for hybrid cloud services	Helion CloudSystem Enterprise provides you with one hybrid cloud management platform to manage all your cloud services - existing services in your own cloud, new services you choose to build with Helion CloudSystem Foundation, and services you get from public clouds. Expanded support for bursting to public clouds includes, Amazon Web Services (AWS), Microsoft Azure, and selected Hewlett Packard Enterprise PartnerOne service providers. Helion CloudSystem Enterprise is designed to use the same management practices for your traditional and cloud environments.
	Open and expandable	Helion CloudSystem is now built on HPE Helion OpenStack - HP's enterprise-grade OpenStack® implementation. Now, you'll benefit from consistent, open APIs for hybrid cloud integration and portability; flexible, plug-in technology to accelerate time-to-market; a dynamic community and ecosystem; and attractive economies of scale.

Key Product Features and Usage Scenarios	More flexible and portable service designs	Portable service design simplifies your service catalog, which avoids design sprawl. A new OpenStack resource provider using OpenStack APIs to support OpenStack-based distributions is delivered out of the box. This resource provider can support Helion CloudSystem Foundation, Helion OpenStack, and even third-party OpenStack compatible clouds with automatic identity management and Keystone integration.
	Advanced cloud features such as infrastructure and application services for multi-tier architecture	With the new topology designer in Cloud Service Automation (CSA) , Helion CloudSystem Enterprise allows you to more easily provision applications services on top of the infrastructure design. This can be done through support for tools like Chef, Puppet and Server Automation. If you have Docker in your environment, you can even specify the Docker file to host on a Docker server on the topology designer.

Standard Features

Manage multiple OpenStack pools across geos or datacenters	Enable one design to be provisioned on different clouds and make the design portable with subscription time selection of resources, environment and projects. For example, Helion CloudSystem Enterprise can manage two or three Helion CloudSystem Foundation instances in different locations to support remote offices.
Expanded support of Physical server provisioning via HPE OneView integration	Leverage OneView profiles to create physical server service design in CSA's service designer.
Built on Helion OpenStack and includes the HPE Helion Development Platform (HDP) for infrastructure management	Helion CloudSystem Enterprise is built on Hewlett Packard Enterprise 's enterprise-grade distribution of OpenStack technology: Helion OpenStack. Through OpenStack API calls, customers can manage their OpenStack-based clouds – all fully compatible with OpenStack technology. Nova, Cinder, Neutron, Glance, Keystone, Heat, and Horizon are examples of OpenStack projects included in Helion CloudSystem 9.0.
Continued support for Matrix Operating Environment in CloudSystem Enterprise 9.0	Helion CloudSystem Enterprise continues to include Matrix Operating Environment (OE) as a resource provider. Cloud services previously created and managed by existing Matrix OE deployments will be preserved and easily transitioned to Helion CloudSystem Enterprise 9.0 environments, providing investment protection and business continuity. Also includes integrated capacity planning, disaster recovery, and bursting to public clouds. The capacity planning tool allows you to continually analyze server capacity and power use, and simulates various workload scenarios, so you can choose the one that best meets your business needs. Matrix 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. Core capabilities of Matrix recovery management include failover and recovery for both physical and virtual environments; integration with Hewlett Packard Enterprise EVA and XP storage data replication solutions; and integration with VMware vSphere and Microsoft Hyper-V virtualization environments for HPE ProLiant Servers.
Manage Amazon Web Services (AWS) workloads repatriated to a private cloud	Address data sovereignty requirements, standardize on design patterns, reduce costs, or improve performance of applications running in AWS by migrating applications to an AWS-compatible private cloud, without rewriting the application. Customers have the capability, through integration with Helion Eucalyptus, to manage workloads that are easily staged as a resource provider through CSA using REST APIs.
GUI-based, self-service portal for service lifecycle management	CSA adds the ability to orchestrate through a self-service marketplace portal, allows both easier service lifecycle management and for IT consumers to request cloud services versus a more programmatic, command line approach.

Service and Support, HPE Care Pack, and Warranty Information

Software Support

Hewlett Packard Enterprise offers a number of software support services, many of which are provided to customers at no additional charge.

Software Technical Support and Update Service

HPE Helion CloudSystem Enterprise with HPE OneView includes three years of 24 x 7 Hewlett Packard Enterprise Software Technical Support and Update Service. HPE Helion CloudSystem Enterprise includes one year of 24 x 7 Hewlett Packard Enterprise Software Technical Support and Update Service. This service provides access to Hewlett Packard Enterprise 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 Hewlett Packard Enterprise . (Customers who purchase an electronic license to use are eligible for electronic updates only.) With this service, Helion CloudSystem customers will benefit from expedited problem resolution as well as proactive notification and delivery of software updates.

Installation & Startup Service

Hewlett Packard Enterprise recommends installation and startup services.

- HPE Helion CloudSystem Enterprise Software Installation and Startup Service
- HPE OneView with Insight Control server provisioning Installation and Startup Service
- HPE Matrix Operating Environment for ProLiant Installation and Startup Service.

NOTE: Installation and Start-up services are optional for software only implementation.

Online Support Resources

HPE 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 HPE ProLiant servers. Integration of the Hewlett Packard Enterprise Insight Remote Support brings you a comprehensive "phone home to HPE" capability. For more information, please visit: **http://www.hp.com/go/insightremotesupport**

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 (HPE SUM) web page to view your contract online and elect electronic delivery for your updates.

HPE Support Center (http://www.hp.com/go/hpsc) Hewlett Packard Enterprise Support Center gives businesses one place to go for online information, tools, and help to support HPE business products. Here's what's included:

- Product Pages—quickly find product-specific support information including top issues and solutions, most viewed documents and support pages, and advisories.

Service and Support, HPE Care Pack, and Warranty Information

- Drivers, software and firmware—Download software, firmware and drivers for your product.
- Search Hewlett Packard Enterprise Support Center—Search across Hewlett Packard Enterprise 's content repositories for answers to support questions. Guided Troubleshooting provides you with step-by-step troubleshooting tools to solve common problems.
- Support Community (Hewlett Packard Enterprise Forums)—Interact with peers and learn how others have solved problems. Ask questions. Share best practices.
- Support Case Manager—Track case progress and history, including updates made by Hewlett Packard Enterprise support agents, from the time a case is created until the time it is resolved and closed.
- Get Help—Get direct access to support experts via chat or e-mail.
- HPE Support Center Mobile App—Access to Hewlett Packard Enterprise Support resources right from your mobile phone

My Support—Manage your profile and preferences, view recent cases, and access your Hewlett Packard Enterprise support contracts, HPE Care Pack Services and warranties.

Insight Online/My IT Environment—One-stop, secure access to product and Hewlett Packard Enterprise support information specific to your IT environment. HPE Insight Online can automatically display devices remotely monitored by **HPE Insight Remote Support 7.x** and allows you to easily track service events and related support cases, view device configurations and proactively monitor your Hewlett Packard Enterprise contracts, warranties and service credits from anywhere and anytime.

Hewlett Packard Enterprise Worldwide Customer Service contact numbers are available at:
http://www.hp.com/country/us/en/wwcontact.html

Related Options

HPE Service and Support

NOTE: HPE Helion CloudSystem comes bundled with either 1 or 3 Year, 24x7 Support & Updates. The following Service Uplifts and additions are also available.

HPE 3 year Foundation Care 24x7 CS Enterprise 10-OSI Service	U4PC0E
HPE 4 year Foundation Care 24x7 CS Enterprise 10-OSI Service	U4PC1E
HPE 5 year Foundation Care 24x7 CS Enterprise 10-OSI Service	U4PC2E
HP 3 year 24x7 CS Enterprise 10-OSI Proactive Care Service	U4PC3E
HP 4 year 24x7 CS Enterprise 10-OSI Proactive Care Service	U4PC4E
HP 5 year 24x7 CS Enterprise 10-OSI Proactive Care Service	U4PC5E
HPE 3 year Foundation Care 24x7 CS Enterprise 1-Server Service	U4PC6E
HPE 4 year Foundation Care 24x7 CS Enterprise 1-Server Service	U4PC7E
HPE 5 year Foundation Care 24x7 CS Enterprise 1-Server Service	U4PC8E
HP 3 year 24x7 CS Enterprise 1-Server Proactive Care Service	U4PC9E
HP 4 year 24x7 CS Enterprise 1-Server Proactive Care Service	U4PD0E
HP 5 year 24x7 CS Enterprise 1-Server Proactive Care Service	U4PD1E
HPE 4 year Foundation Care 24x7 CS Enterprise 10-OSI with One View Service	U4PD2E
HPE 5 year Foundation Care 24x7 CS Enterprise 10-OSI with One View Service	U4PD3E
HPE 4 year Foundation Care 24x7 CS Enterprise 1-Server with One View Service	U6ZM3E
HPE 5 year Foundation Care 24x7 CS Enterprise 1-Server with One View Service	U6ZM4E
HPE Helion CloudSystem Enterprise Software Installation and Startup Service	HA124A1#5VB H4W56E

NOTE: HPE Helion CloudSystem Enterprise Software Installation and Startup service do not include the installation of HPE OneView or ICsp. Customers who wish HPE Services to install and configure HPE OneView and ICsp can order the HPE OneView with Insight Control server provisioning Installation and Startup Service.

NOTE: HPE Helion CloudSystem Enterprise Software Installation and Startup Service does not include the installation of the HPE Matrix Operating Environment (OE). Customers who wish to have HPE Matrix OE installed by HPE Services can order the HPE Matrix Operating Environment for ProLiant Installation and Startup Service.

HP OneView with Insight Control server provisioning Installation and Startup Service	HA124A1#5TF U0RA2E
HPE Startup Insight Dynamics Recovery Management Service	HA124A1#5FX UK830E

NOTE: Customers who would like HPE Services to configure the Recovery Management functionality between two HPE Matrix Operating Environment environments can purchase this HPE Service.

HP Matrix Operating Environment for ProLiant Installation and Startup Service	HA124A1#5FX UF819E

NOTE: Installation and Start-up services are recommended for each HPE SIM Central Management Server (CMS) where HPE Matrix Operating Environment will be deployed. This service is to be utilized to deploy HPE Matrix OE for

Related Options

	virtual workloads only. **NOTE: The HPE Matrix Operating Environment for ProLiant Installation and Startup service does not include configuring of the HPE Matrix Operating Environment recovery management. Customers who wish HPE Services to configure HPE Matrix Operating Environment recovery management will need to purchase separately the HPE 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
HPE Education Services	HPE Helion CloudSystem Software Curriculum **http://www.hp.com/education/currpath/hp-proliant-essentials.html**	

Technical Specifications

Supported hypervisors, Managed Servers, and other HW/SW requirements and Options	Please see **HPE Helion CloudSystem Support Matrix**, which is located on the Hewlett Packard Enterprise Information Library	
Other product information	Additional information is available on Helion CloudSystem Enterprise web page, which is referenced from the Helion CloudSystem web page at: **http://www.hp.com/go/cloudsystem** For trial version of Helion CloudSystem Enterprise software, check **http://www.hp.com/go/tryCloudSystem**	
Environment-friendly Products and Approach	**End-of-life Management and Recycling**	Hewlett Packard Enterprise offers end-of-life Hewlett Packard Enterprise 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 Hewlett Packard Enterprise sales office. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner. The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard Enterprise web site at: **http://www.hp.com/go/green**. These instructions may be used by recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

Summary of Changes

Date	Version History	Action	Description of Change:
13-Nov-2015	From Version 7 to 8	Changed	Changes were made throughout the QuickSpecs
16-Oct-2015	From Version 6 to 7	Changed	Changes made to the Overview, Standard Feautures and Service & Support Sections.
04-Sept-2015	From Version 5 to 6	Changed	Changes were made throughout the QuickSpecs
12-Dec-2014	From Version 4 to 5	Changed	HPE CloudSystem Enterprise SW is being rebranded as HPE Helion CloudSystem Foundation SW
29-Aug-2014	From Version 3 to 4	Change	Changes were made throughout the QuickSpecs
18-Jul-2014	From Version 2 to 3	Change	What's new section updated with 8.1 info
21-May-2014	From version 1 to 2	Change	Text in Overview and Related Options' sections was updated.

Sign up for updates

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