Helion Cloud Suite – Premium Edition

At a Glance

Software version: 2016.07

For Microsoft Windows® and Linux operating systems

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Contents

Helion Cloud Suite Premium Overview

The Helion Cloud Suite Premium Edition (HCS Premium) is an integrated automation and management solution for private and hybrid cloud environments. Each suite combines HPE's industry-leading software to assist IT organizations in the rapid and consistent provisioning, deployment, and governance of applications, infrastructure, platforms, and applications. The HCS Premium solution increases speed of delivery in a heterogeneous, hybrid cloud environment.

This At a Glance guide describes the HCS Premium component products and provides important links to documentation and websites to help get you started.

HCS Premium component products

Product	Version
Cloud Optimizer (CO) Premium	3.0 - patch 1
CODAR (Starter)	1.6
CSA -OO Virtual Appliance 2016.01	2016.07
Enterprise Maps (EM) - Cloud Transformation	3.10
Helion OpenStack	3.0
Helion Stackato Virtualbox (Starter, no license key)	3.6.2
ITBA Virtual Appliance	2016.07
IT Business Analytics [ITBA]	10.10 Appliance with CP1
Operations Analytics Premium (OpsA Premium) (limited to VM & Bare metal)	2.31 + patch InstallI (02.31.209_IP2)
Ops Bridge Premium (OMi Foundation) 2016.05 (OpsB-P) (OMi Foundation only)	2016.05
Operations Orchestration (OO)	10.60 (media) install or 10.60 on appliance (with CSA)
Universal Discovery (UD) and UCMDB	10.22 with CP19

Getting started with HCS Premium

This section includes a list of all component products used for the Premium edition and provides descriptions of each component product with useful links to documentation and web sites.

Cloud Optimizer Premium (CO) 3.0 Patch 1

Cloud Optimizer Premium (CO Premium), formerly Virtualization Performance Viewer (vPV) is a web-based analysis and visualization tool that analyzes performance trends of elements in virtualized environments. It enables virtualization   monitoring by providing an overview of the environment, near-real-time and historical data analysis and triaging using an interactive dashboard. It also enables monitoring for cloud and hypervisor environments. CO helps you visualize performance data for elements in the context of each other to rapidly analyze bottlenecks. CO provides performance monitoring, graphing, and reporting in a single interface.

Note: Two installation formats are available: install and appliance.

Get started with CO 3.0 Patch 1

Resource	Link
Release Notes	go
Support Matrix	go
Documentation Library	go
Virtual Appliance in the Interactive Installation Guide (zip)	go
Installation Guide: Chapter 2: Installation Requirements" Chapter 4: Installing CO Chapter 6: Configuring CO	go
Open Source Third-Party License Agreement Guide	go
Online Help: Chapter 3: Configuring CO Using Settings Chapter 11: CO API Reference	go
CO Youtube Playlist	go
HPE Blog Search	go
HPE Software Support	go
Cloud Optimizer web site	go

Note: Patch documentation will be delivered with the patch.

CODAR 1.6

Codar offers a continuous deployment solution that provides automation and release management of complex multi-tier applications across the application lifecycle. **Note:** Two installation formats are available: install and appliance. Automate the continuous deployment of your applications by using a graphical topology designer, trigger deployments automatically with Jenkins, and embrace existing content from Chef, Docker, Amazon Web Services, and more.

Get started with Codar 1.6

Resource	Link
Release Notes	go
Support Matrix	go
Configuration Guide	go
Installation Guide	go
Documentation Library	go
Online Help	go
Product website	go
HPE Software Support	go

CSA/OO Virtual Appliance 2016.07

HPE CSA-OO Virtual Appliance provides cloud management software that makes it easy for your business to benefit from secure and compliant cloud services. It orchestrates the deployment of complex multi-tier application architectures. With CSA - OO Virtual Appliance, you can automate and simplify the deployment and management of hybrid IT services according to your requirements.

Get started with CSA/OO Virtual Appliance 2016.07

Resource	Link
Installation Guide	**go**
COS Suite website	**go**
HPE Software Support	**go**

Enterprise Maps - Cloud Transformation 3.10

Enterprise Maps (EM) - Cloud Transformation version 3.10 has the capacity to manage the cloud transformation process for applications. This process involves surveys from technical, business and financial perspectives, cost analysis, reports and Cloud Service Automation. Through surveys you can gather inputs from respective stakeholders that are relevant from a Cloud transformation perspective. The results help in strategic decision making.

Cost analysis helps compare real costs when deploying the applications into Cloud data centers such as Amazon Web Service and HPE Compute. Besides the already available data centers, others can be added for comparison to maximize cost savings. The estimation can be simply based on the number of servers or can be more detailed, depending on the deployment requirement.

After completion of the assessment, integration with CSA helps automate the creation of service designs, which is the first step towards Cloud automated provisioning.

Note: Two installation formats are available: install and appliance.

Get started with Enterprise Maps – Cloud Transformation 3.10

Resource	Link
Release Notes	go
Concepts Guide	go
Installation and Configuration Guide	go
Enterprise Maps 3.10 Virtual Appliance Guide	go
User Guide	go
Administration Guide	go
Open Source Third-Party License Agreement Guide	go
Enterprise Maps website	go
HPE Software Support	go
Downloads and content HPE Live Network	go

Helion Openstack 3.0

Helion Openstack provides an open source and highly configurable IaaS with the room to adapt your architecture and grow your capacity as your business needs change. Helion Openstack has a hardened platform, critical patch support, data-in-transit encryption, network traffic separation, vulnerability management, and rigorous security best practices. With Helion Openstack you can track and audit changes through a single-view management console, update or patch without application downtime, and automate your lifecycle management operations through the lifecycle API Integrated cloud monitoring and logging operations. Increase cloud service reliability and availability with integrated cloud monitoring and expanded centralized logging

To get started with Helion OpenStack 3.0, see the Helion documentation portal.

Helion Stackato Virtualbox 3.6.2

Helion Stackato provides IT Operators with simplified deployment and cloud native services. Its infrastructure agnostic, guaranteeing compatibility across cloud infrastructures. With the Helion Service Manager, operators can easily manage application services while leveraging the Helion Control Plane to ensure the entire application lifecycle. Besides popular 3rd party services useful for developers, Helion Stackato integrates HPE Software services such as StormRunner and Haven OnDemand.

To get started on Helion Stackato Virtualbox 3.6.2, see the Stackato documentation portal.

ITBA Virtual Appliance 2016.07

ITBA Virtual Appliance provides Best practice Dashboards, Scorecards, Objectives and Key Performance Indicators (KPIs) that can be tailored as needed. The software also provides automated data gathering through a comprehensive and growing library of integrations and easy access to the web or mobile applications with cascading Dashboards that meet the needs of different personas.

Get started with ITBA Virtual Appliance 2016.07

Resource	Link
Release Notes	**go**
Support and Compatibility Matrix - see the Release Notes	**go**
Documentation Library	**go**
Installation Guide	**go**
Configuration Guide	**go**
ITBA Virtual Appliance website	**go**
HPE Software Support	**go**

ITBA Cloud Analytics 2016.07

IT Business Analytics (ITBA) version automatically gathers data from across your IT systems to build key performance indicators (KPIs) providing organizations with broad and deep insights into everything IT does.

Note: Two installation formats are available: install and appliance.

Get started with ITBA 2016.07

Resource	Link
Release Notes	go
Support and Compatibility Matrix	go
Documentation Library	go
ITBA Installation Guide	go
ITBA Virtual Appliance 2016.07 Installation Guide	go
Administrator Guide.	go
ITBA web site	go
HPE Software Support	go
Downloads and content HPE Live Network	go

Operations Analytics (OpsA) 2.31 with Patch

Operations Analytics (OpsA) Premium (formerly "Operations Log Intelligence (OLI)"), limited to virtual machine and bare metal in this suite. Ops A is a log management solution that is optimized for extremely high event throughput, efficient long-term storage, and rapid data analysis. OpsA receives and stores events; supports search, and retrieval; and can optionally forward selected events.

Get started with OpsA 2.31 + patch Install (02.31.209_IP2)

Resource	Link
Release Notes	go
Support and Compatibility Matrix - see the Release Notes	go
Documentation Library	go
Installation Guide	go
Configuration Guide	go
OpsA web site	go
HPE Software Support	go
Downloads and content HPE Live Network	go

Ops Bridge Premium (OMi Foundation) 2016.05

The Ops Bridge Premium is a suite of software that provides the ability to sense, analyze, and adapt to manage IT services that support digital business. With advanced event correlation, log intelligence, predictive analytics, and automation, you can remediate issues across all your technologies to prioritize business targets. Operations Bridge Premium Suite includes these component products: Operations Manager i (OMi), Operations Bridge Reporting (OBR), Sitescope, Operations Agent & Infrastructure SPIs, and Operations Bridge System Collectors.

OMi is the core component of the Operations Bridge solution and the only product that dynamically and automatically discovers and correlates data, event topology, and metrics. As the operations bridge, it consolidates all IT infrastructure monitoring in a central event console, and relates the events to the IT services that depend on that infrastructure.

Get started with Operations Bridge Express 2016.05

Resource	Link
OMi Management Packs	go
OMi Documentation Library	go
OBR Documentation Library	go
Sitescope Documentation Library	go
Operations Agent & Infrastructure SPIs Documentation Library	go
HPE Software Support	go
Downloads and content HPE Live Network	go

Operations Orchestration 10.60

Operations Orchestration (OO) is the industry-leading solution for IT process automation and runbook automation.

OO is a system for creating and using actions in structured sequences (called flows) which maintain, troubleshoot, repair, and provision your Information Technology (IT) resources by performing the following actions:

- Checking the health, diagnosing, and repairing, networks, servers, services, software applications, and individual workstations.
- Deploying applications, patching, and maintaining them by checking client, server, and virtual machines for required software and updates, and, if needed, performing the necessary installations, updates, and distributions.
- Performing repetitive tasks, such as checking status on internal or external web site pages.

Get started in OO 10.60

Resource	Link
Release Notes	go
Support and Compatibility Matrix	go
Documentation Library	go
OO 10.60 Installation and Upgrade Whitepaper	go
OO website	go
HPE Software Support	go
Downloads and content on HPE Live Network	go

Universal Discovery with UCMDB

Universal Discovery with UCMDB version 10.22 with CP19 stores data center resource information such as storage, resource pools, and compute resources. When CSA is integrated with UCMDB, the configuration data is translated or mapped to UCMDB Configuration Items (CIs), attributes, and relationships, and then written into the UCMDB. As CSA consumes the resource capacities during cloud service resource allocation, it updates the both the UCMDB records and the CSA resource pool artifacts.

Get started with UCMDB

Resource	Link
Release Notes (CP19)	go
Support and Compatibility Matrix	go
Documentation Library	go
Deployment Guide (10.20) (zip) "Install HP UCMDB 10.20"	go
UCMDB web site	go
HPE Software Support	go
Downloads and content HPE Live Network	go

System requirements

This section displays system requirements for the HCS Premium version.

Server and Database	CPU	MEM (GB)	DISK (GB)	OS	Notes
ITBA 10.10 (Virtual Appliance Server (Vertica included); Vertica Database Server; SAP BO Enterprise Server)	8	16	150	CentOS	
CSA 4.6 & OO 10.60 Virtual Appliance (Postgres included)	8	16	160	CentOS	
CO 3.0 for 1k Monitored Instances (Vertica included)	2	4	100	CentOS	
OpsA-1					
Operations Analytics Server (up to 500 Nodes) – Small (Vertical included)	4	8	40	CentOS	5 Concurrent Users
Collector Appliance (up to 500 Nodes) - Small	8	16	200	CentOS	5 Concurrent Users
Node Vertica (up to 500 Nodes) - Small	8	16	1000	CentOS	5 Concurrent Users
Arcsight Logger Instance per 250 GB of log file volume / Day	4	12	850	CentOS	See the *HPE Operations Analytics 2.31 System Requirements and Sizing Guide*
OpsB					
• OMi Virtual Appliance (Postgres included)	4	12	64	CentOS	Up to 2000 nodes
• Reporter (~30K CI's / ~200K Records per Hour) - Small - 3 Content Packs (Vertica included)	8	16	550	CentOS	Single-System Deployment

Server and Database	CPU	MEM (GB)	DISK (GB)	OS	Notes
• Reporter Collector (per 10,000 Nodes / Equivalent to ~320 CI's) (Vertica included)	4	8	300	CentOS	
• SiteScope (embedded DB)	4	16	100	Windows or Linux	
Enterprise Maps (Oracle Express included)	4	16	50	Debian (hLinux)	
UCMDB Application Server - (2M CI's & Relationships) Small (Postgres, MSQL 2008/2012, Oracle)	4	16	60		For production-use DB's should be physical
UCMDB Probe - (2M CI's & Relationships) Small (Postgres, MSQL 2008/2012, Oracle)	4	12	100		For production-use DB's should be physical

HCS supported use cases

This section provides a list of the supported use cases for the Premium HCS edition.

Product	Use Case
DCA - SA	As a HCS Admin, I should be able to provision VMs on vCenter using SA's virtualization feature
	As a HCS Admin, I should be able to define OS build plans, patch policies.
	As a HCS Admin, I should be able to create service designs & service offerings that can provision OS on a compute
	As a HCS Admin, I should be able to create service designs & service offerings to attach, scan and remediate patch policies
	As a HCS consumer, I should be able to use the operator portal to initiate a server provisioning task for physical and virtual servers
	As a HCS consumer, I should be able to use the operator portal to scan/remediate a server or group of servers for patching policies
	As a HCS Admin, I should be able to create policy elements and group them into compliance policies
OO	As a HCS Admin, I need support for Runbook Automation
DMA	As a HCS Admin, I should be able to provision database, middleware on top existing infrastructure using runbook automation
DCA - ITOC	As a HCS Admin, I should be able to create policy elements and group them into IT Compliance policies
	As a HCS Admin, I should be able to expose those policies to select organizations (and /or) catalogs
	As a HCS Admin, I should be able to create service designs & service offering with policies as options
	As a HCS Consumer, I should be able to view my service's compliance details
	As a HCS consumer, I should be able to use the operator portal to scan/remediate a server or group of servers for IT Compliance policies
CO	As a HCS Admin, I should be able to view and report on the cloud management platform's infrastructure resources

Product	Use Case
	As a HCS Admin, I should be able view and report on the cloud management platform's infrastructure resources that I oversee
	As a HCS Admin, I should be able provision infrastructure services intelligently in my available resources based on capacity analytics
OMi	As a HCS Admin, I should be able to view all events (from CO) on my OMi event console
CSA/OO Appliance	As a HCS Admin, I should be able to create providers, service designs, and service offerings for automated provisioning of private and public cloud services.
	As a HCS Admin, I should have offerings for automated provisioning of infrastructure services private cloud (Vmware, Helion Openstack) and public cloud (AWS)
	As a HCS consumer, I should be able to consume infrastructure provisioning services available in my catalog
OpsA	As an HCS Admin, I should be able to collect and analyze the logs from all provisioned servers
ITBA	As an HCS Admin, I should be able to view and report on resource usage across entire platform/Organization.
	As an HCS Admin, I should be able to view and report on showback across entire platform/Organization.
EM	As an HCS Admin, I should be able to assess and model existing applications for cloud deployment
UCMDB/UD	As an HCS Admin or IT Admin, I should be able to discover my existing resources from public/private cloud and traditional environments
	As an HCS Admin or IT Admin, I should be able to discover infrastructure and application dependencies in support of cloud services.
	As an HCS or IT Admin, I should be able to automate discovery of infrastructure and applications in support of cloud services
CODAR	As an HCS Application Release Manager, I should be able to automate application deployment, release pipeline management, and integrated CI/CD

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