



**Hewlett Packard**  
Enterprise

Helion Cloud Suite – Premium Edition

# At a Glance

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For Microsoft Windows® and Linux operating systems

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# 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
<a href="#">Cloud Optimizer (CO) Premium</a>	3.01
<a href="#">CODAR (Starter)</a>	1.7
<a href="#">CSA-OO Virtual Appliance</a>	2016.10
<a href="#">Enterprise Maps (EM) - Cloud Transformation</a>	3.2
<a href="#">Helion OpenStack</a>	4.0
<a href="#">Helion Stackato Virtualbox (Starter, no license key)</a>	4.0
<a href="#">ITBA Virtual Appliance</a>	2016.10
<a href="#">IT Business Analytics [ITBA]</a>	10.10
<a href="#">Operations Analytics Premium (OpsA Premium) (limited to VM &amp; Bare metal)</a>	2.32
<a href="#">Ops Bridge Premium (OMi Foundation) 2016.05 (OpsB-P) (OMi Foundation only)</a>	2016.05
<a href="#">Operations Orchestration (OO)</a>	10.60 (media) install or 10.60 on appliance (with CSA)
<a href="#">Universal Discovery (UD) and UCMDB</a>	10.30

## 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 links to documentation and websites.

### Cloud Optimizer Premium (CO) 3.01

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 allows you to 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 3.01

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

**Note:** Patch documentation will be delivered with the patch.

# CODAR 1.7

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 1.7

Resource	Link
Release Notes	<a href="#">go</a>
Support Matrix	<a href="#">go</a>
Configuration Guide	<a href="#">go</a>
Installation Guide	<a href="#">go</a>
Documentation Library	<a href="#">go</a>
Online Help	<a href="#">go</a>
Product website	<a href="#">go</a>
HPE Software Support	<a href="#">go</a>

# CSA-OO Virtual Appliance 2016.10

HPE CSA-OO Virtual Appliance provides cloud management software that allows your business to benefit from secure and compliant cloud services. This appliance 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 2016.10

Resource	Link
Installation Guide	<a href="#">go</a>
COS Suite website	<a href="#">go</a>
HPE Software Support	<a href="#">go</a>

# Enterprise Maps - Cloud Transformation 3.2

Enterprise Maps (EM) - Cloud Transformation version 3.20 allows you 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 input from respective stakeholders that are relevant from a Cloud transformation perspective. The results assist with strategic decision-making.

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

After completion of the assessment, integration with CSA allows you to 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 3.20

Resource	Link
Release Notes	<a href="#">go</a>
Concepts Guide	<a href="#">go</a>
Installation and Configuration Guide	<a href="#">go</a>
Enterprise Maps 3.20 Virtual Appliance Guide	<a href="#">go</a>
User Guide	<a href="#">go</a>
Administration Guide	<a href="#">go</a>
Open Source Third-Party License Agreement Guide	<a href="#">go</a>
Enterprise Maps website	<a href="#">go</a>
HPE Software Support	<a href="#">go</a>
Downloads and content HPE Live Network	<a href="#">go</a>

# Helion OpenStack 4.0

Helion OpenStack provides an open source and highly configurable IaaS allowing you to adapt your architecture and grow capacity as your business needs change. Helion OpenStack provides 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. Integrated cloud monitoring and expanded centralized logging increase cloud service reliability and availability.

To get started with Helion OpenStack 4.0, see the [Helion documentation portal](#).

# Helion Stackato Virtualbox 4.0

Helion Stackato provides IT operators with simplified deployment and cloud native services. Helion Stackato is 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. In addition to providing popular third-party services useful for developers, Helion Stackato integrates HPE Software services such as StormRunner and Haven OnDemand.

To get started on Helion Stackato Virtualbox 4.0, see the [Stackato documentation portal](#).

# ITBA Virtual Appliance 2016.10

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 provides easy access to the web or mobile applications with cascading Dashboards that meet the needs of various personas.

**Get started with ITBA Virtual Appliance 2016.10 – need links**

Resource	Link
Release Notes	<a href="#">go</a>
Support and Compatibility Matrix - see the Release Notes	<a href="#">go</a>
Documentation Library	<a href="#">go</a>
Installation Guide	<a href="#">go</a>
Configuration Guide	<a href="#">go</a>
ITBA Virtual Appliance website	<a href="#">go</a>
HPE Software Support	<a href="#">go</a>

# ITBA Cloud Analytics 10.10

IT Business Analytics (ITBA) version 10.10 automatically gathers data from across your IT systems to build Key Performance Indicators (KPIs) providing organizations with broad and deep insights into all IT processes.

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

## Get started with ITBA 10.10

Resource	Link
Release Notes	<a href="#">go</a>
Support and Compatibility Matrix	<a href="#">go</a>
Documentation Library	<a href="#">go</a>
ITBA Installation Guide	<a href="#">go</a>
ITBA Virtual Appliance 10.10 Installation Guide	<a href="#">go</a>
Administrator Guide	<a href="#">go</a>
ITBA website	<a href="#">go</a>
HPE Software Support	<a href="#">go</a>
Downloads and content HPE Live Network	<a href="#">go</a>

# Operations Analytics (OpsA) 2.32

Operations Analytics (OpsA) Premium (formerly "Operations Log Intelligence (OLI)"), is limited to virtual machine and bare metal in this suite. OpsA is a log management solution 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 2.32

Resource	Link
Release Notes	<a href="#">go</a>
Support and Compatibility Matrix - see the Release Notes	<a href="#">go</a>
Documentation Library	<a href="#">go</a>
Installation Guide	<a href="#">go</a>
Configuration Guide	<a href="#">go</a>
OpsA website	<a href="#">go</a>
HPE Software Support	<a href="#">go</a>
Downloads and content HPE Live Network	<a href="#">go</a>

# Ops Bridge Premium (OMi Foundation) 2016.05

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	<a href="#">go</a>
OMi Documentation Library	<a href="#">go</a>
OBR Documentation Library	<a href="#">go</a>
SiteScope Documentation Library	<a href="#">go</a>
Operations Agent & Infrastructure SPIs Documentation Library	<a href="#">go</a>
HPE Software Support	<a href="#">go</a>
Downloads and content HPE Live Network	<a href="#">go</a>

# 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 IT resources by allowing you to perform the following actions:

- Diagnosing and repairing, networks, servers, services, software applications, and individual workstations.
- Deploying, patching, and maintaining applications 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 website pages.

## Get started in OO 10.60

Resource	Link
Release Notes	<a href="#">go</a>
Support and Compatibility Matrix	<a href="#">go</a>
Documentation Library	<a href="#">go</a>
OO 10.60 Installation and Upgrade Whitepaper	<a href="#">go</a>
OO website	<a href="#">go</a>
HPE Software Support	<a href="#">go</a>
Downloads and content on HPE Live Network	<a href="#">go</a>



# Universal Discovery with UCMDB 10.30

Universal Discovery with UCMDB version 10.30 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 10.30

Resource	Link
Release Notes	<a href="#">go</a>
Support and Compatibility Matrix	<a href="#">go</a>
Documentation Library	<a href="#">go</a>
Deployment Guide (10.30) (zip) <ul style="list-style-type: none"> <li>Install HPE UCMDB 10.30</li> </ul>	<a href="#">go</a>
UCMDB website	<a href="#">go</a>
HPE Software Support	<a href="#">go</a>
Downloads and content HPE Live Network	<a href="#">go</a>

## 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 4.7 & OO 10.60 Virtual Appliance (Postgres included)	8	16	160	CentOS	
CO 3.01 for 1k Monitored Instances (Vertica included)	2	4	100	CentOS	
OpsA-2.32					
Operations Analytics Server (up to 500 Nodes) – Small (Vertica 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 <a href="#">HPE Operations Analytics 2.32 System Requirements and Sizing Guide</a>
OpsB					
<ul style="list-style-type: none"> <li>OMi Virtual Appliance (Postgres included)</li> </ul>	4	12	64	CentOS	Up to 2000 nodes
<ul style="list-style-type: none"> <li>Reporter (~30K CI's / ~200K Records per Hour) - Small - 3 Content Packs (Vertica included)</li> </ul>	8	16	550	CentOS	Single-System Deployment

Server and Database	CPU	MEM (GB)	DISK (GB)	OS	Notes
<ul style="list-style-type: none"> <li>Reporter Collector (per 10,000 Nodes / Equivalent to ~320 CI's) (Vertica included)</li> </ul>	4	8	300	CentOS	
<ul style="list-style-type: none"> <li>SiteScope (embedded DB)</li> </ul>	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 an HCS Admin, I should be able to provision VMs on vCenter using SA's virtualization feature.
	As an HCS Admin, I should be able to define OS build plans, patch policies.
	As an HCS Admin, I should be able to create service designs & service offerings that can provision OS on a compute
	As an HCS Admin, I should be able to create service designs & service offerings to attach, scan and remediate patch policies.
	As an HCS consumer, I should be able to use the operator portal to initiate a server provisioning task for physical and virtual servers.
	As an HCS consumer, I should be able to use the operator portal to scan/remediate a server or group of servers for patching policies.
	As an HCS Admin, I should be able to create policy elements and group them into compliance policies.
OO	As an HCS Admin, I need support for Runbook Automation.
DMA	As an HCS Admin, I should be able to provision database, middleware on top existing infrastructure using Runbook Automation.
DCA - ITOC	As an HCS Admin, I should be able to create policy elements and group them into IT Compliance policies.
	As an HCS Admin, I should be able to expose those policies to select organizations and /or catalogs.
	As an HCS Admin, I should be able to create service designs & service offering with policies as options.
	As an HCS Consumer, I should be able to view my service's compliance details.
	As an 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 an HCS Admin, I should be able to view and report on the cloud management platform's infrastructure resources.

Product	Use Case
	As an HCS Admin, I should be able view and report on the cloud management platform's infrastructure resources that I oversee.
	As an HCS Admin, I should be able provision infrastructure services intelligently in my available resources based on capacity analytics.
OMi	As an HCS Admin, I should be able to view all events (from CO) on my OMi event console.
CSA/OO Appliance	As an HCS Admin, I should be able to create providers, service designs, and service offerings for automated provisioning of private and public cloud services.
	As an HCS Admin, I should have offerings for automated provisioning of infrastructure services private cloud (VMware, Helion OpenStack) and public cloud (AWS).
	As an 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 the entire platform/organization.
	As an HCS Admin, I should be able to view and report on showback across the 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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- Document Release Date, which changes each time the document is updated.
- Software Release Date, which indicates the release date of this version of the software.

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