Hewlett Packard Enterprise

Helion Cloud Suite – Express Edition

At a Glance

Software version: 2016.10

For Microsoft Windows® and Linux operating systems

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Helion Cloud Suite Express overview

Helion Cloud Suite Express Edition 2016.10 (HCS Express) offers complete lifecycle management for bare-metal, operating systems, virtual machines, and containers. HCS Express provides a solution that allows you to build your private cloud and then expand into public and managed clouds using the following integrated products:

- Cloud Service Automation
- Operations Orchestration
- IT Business Analytics - Cloud Analytics
- Virtualization Performance Viewer
- Operations Analytics Express

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

- Getting started with HCS Express
- HCS Express component product integration matrix
- HCS Express system requirements
- HCS supported use cases

HCS Express component products

HCS Express includes the DCA Virtual Appliance Express 2016.10, and provides a solution that allows you to build your private cloud and then expand into public and managed clouds using the following integrated products:

Product	Version
Data Center Automation (DCA) Suite Express	2016.10
Operations Analytics Premium (OpsA Premium) (limited to VM & Bare metal)	2.32
Cloud Optimizer Premium (vPV/CO Premium)	3.01
Ops Bridge Express (OMi Foundation only)	2016.05

Note: To ensure the latest content, install all applicable recommended patches for the Helion Cloud Suite Express. To find the latest patches, go to https://softwaresupport.hpe.com/, select **Dashboards > Patches**, and search for your virtual-appliance product and version.

Getting started with HCS Express

The HCS Express edition consists of the DCA Virtual Appliance Express edition (DCA Express), Operations Analytics Premium (OpsA Premium) (limited to VM & Bare metal), and Cloud Optimizer Premium (CO Premium) allowing you to automate server provisioning, audit and compliance, software and patch management, and virtualization management activities.

You can leverage and customize the sample out-of-the-box Operations Portal user-interface flows for management activities, and tap into OO and SA features for more complex use cases.

HCS Express documentation and HPE online resources

Document	Link
Data Center Automation Documentation Library	go

Document	Link
HPE Software Support	go
HPE Integrations website	go

Data Center Automation (DCA) Suite Express 2016.10

Data Center Automation Suite Express (DCA Express) is a complete automation solution for centralizing and streamlining many data center functions. DCA Express is a virtual appliance that bundles Operations Orchestration (OO) and Server Automation (SA) to provide tools that automate critical areas of your data center's server management, business service compliance, and IT processes. Automation tools include provisioning, configuration, compliance, patching, and release management for databases and applications services.

With DCA Express you can automate data center management activities such as:

- Day 1 - Server provisioning
- Day 2 - Audit and compliance, software management, virtualization management, and more

You can leverage packaged user interface flows for Day 1 and Day 2 management activities and can also tap into the rich capabilities of OO, CSA, and SA for more complex management use cases.

To get started with DCA 2016.10, see the DCA 2016.10 Documentation Library document.

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 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.

Getting started with OpsA 2.32

Resource	Link
Release Notes	go
Support and Compatibility Matrix - see the Release Notes	go
Administrator's Guide - "Installation and Initialization" - "Configuration"	go
OLI web site	go
HPE Software Support	go
Downloads and content HPE Live Network	go

Cloud Optimizer Premium (CO) 3.01

Cloud Optimizer Premium (CO Premium 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 of cloud and hypervisor environments. CO Premium helps you visualize performance data for elements in the context of each other to rapidly analyze bottlenecks. CO Premium provides performance monitoring, graphing, and reporting in a single interface.

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

Getting started with CO 3.01

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

Ops Bridge Express (OMi Foundation) 2016.05

The Ops Bridge Express 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 the following 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.

Getting started with Operations Bridge Express 2016.05

Resource	Link
OMi Management Packs	go
Connectors	Find numerous third-party connectors on HPE Live Network in Documentation > BSM Connectors
OBR Documentation Library	go

SiteScope Documentation Library	go
Operations Agent & Infrastructure SPIs Documentation Library	go
HPE Software Support	go
Ops Bridge System Collectors website	go

HCS Express system requirements

Server(s)	CPU	MEM (GB)	DISK (GB)	OS	Notes
CO 3.01 for 1k Monitored Instances (Vertica included)	2	4	100	CentOS	
DCAA 2016.10 (Postgres included)	8	32	256	CentOS	19.2 GB Thin-Provisioned, 256 GB Thick-Provisioned
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		See the HPE Operations Analytics 2.32 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
Reporter Collector (per 10,000 Nodes / Equivalent to ~320 CI's) (Vertica included)	4	8	300	CentOS	
SiteScope (Embedded)	4	16	100	Windows or Linux	

HCS Express supported use cases

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.

Product	Use Case
	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.
OO	As an HCS Admin, I need support for 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, 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.
	As an HCS Admin, I should be able to view and report on the cloud management platform's infrastructure resources that I oversee.
OMi	As an HCS Admin, I should be able to view all events (from CO) on my OMi event console.

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The title page of this document contains the following identifying information:

- Software Version number, which indicates the software version.
- Document Release Date, which changes each time the document is updated.
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