Hewlett Packard
Enterprise

Cloud Orchestration Suite

Premium Edition
Software Version: 2016.01

At a Glance

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Cloud Orchestration Suite introduction

The Cloud Orchestration Suite 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. This Cloud Orchestration solution increases speed of delivery in a heterogeneous, hybrid cloud environment.

The Cloud Orchestration Suite solution provides two editions:

- **Express edition** -- 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

  - Enterprise Maps - Cloud Assessment

  - Universal CMDB

  See the *Cloud Orchestration Suite - Express Edition At a Glance Guide* for details.

- **Premium edition** -- provides a complete automation solution with lifecycle management for IT infrastructure and applications, using the following integrated products:

  - Express edition products, plus

  - Data Center Automation Premium Suite

  - Operations Analytics Premium

  - Virtualization Performance Viewer Premium

  - Operations Bridge Premium Suite
    - Operations Bridge System Collectors

  - Enterprise Maps - Cloud Transformation.

  See the *Cloud Orchestration Suite - Premium Edition At a Glance Guide* for details.

Premium edition overview

The Premium edition provides lifecycle management for IT infrastructure and applications by providing the following:

- Provision Hybrid IaaS plus networking, platforms, and applications.
- Comprehensive service monitoring for infrastructure and applications.
- Advanced log analytics on high performance, big data platforms.
- Lifecycle management: operating system, database, and middleware patching plus operating system compliance.
- Ability to transform existing applications to cloud-ready service designs.

This *Cloud Orchestration Suite - Premium Edition At a Glance Guide* provides the following information to get you started:

- "Premium edition component products" on page 7 -- lists and describes all the products used for the Premium edition. Each product description provides the necessary links to install and configure the product.
- " Component product integration matrixes" on page 17 -- provides matrixes of the product integrations and resource links to the Integrations Catalog and documentation.

Premium edition component products

This section includes:

- List of all key component products used for the Premium edition.
- Descriptions of each component product with useful links to web sites and documentation.

Component product list

The following table lists the component products used in this Cloud Orchestration Suite - Premium Edition.

Cloud Orchestration Suite - Premium Edition component products

Product	Version
Cloud Service Automation ()	4.50 with Patch 1
"Operations Orchestration (OO)" on page 9	10.22
"IT Business Analytics (ITBA) Cloud Analytics" on page 10	10.00 with ContentPack_ 0001
"Data Center Automation (DCA) Premium Suite" on page 12	2016.01
"Virtualization Performance Viewer Premium (vPV)" on page 11	2.20
"Operations Analytics (OpsA)" on page 13	2.30 and 2.31
"Operations Bridge Premium Suite" on page 14	2015.12
"Enterprise Maps - Cloud Transformation" on page 15	3.00 with Patch EM_00001
"Universal CMDB (UCMDB)" on page 16	10.20 and 10.21

Cloud Service Automation (CSA)

HP Cloud Service Automation (CSA) version 4.50 with Patch 1 provides cloud management software that makes it easy for your business to benefit from secure, compliant cloud services. With CSA, you can automate and simplify deployment and management of your choice of hybrid IT services.

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

Getting started with CSA

Resource	Link
Release Notes	go
Support and Compatibility Matrix	go
Documentation Library	go
CSA Installation on Windows and Linux.(zip)	go
CSA/OO Appliance Deployment	go
Configuration on Windows.	go
Configuration on Linux.	go
CSA web site	go
HPE Software Support	go
Downloads and content HPE Live Network	go

Operations Orchestration (OO)

Operations Orchestration (OO) version 10.22 provides runbook IT automation software to improve service quality by standardizing on reliable, repeatable, and fully auditable task automation. OO reduces errors and boosts performance, saving time and money.

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

Getting started with OO

Resource	Link
Release Notes	go
Support and Compatibility Matrix	go
Documentation Library	go
Installation Guide - install 10.20, then upgrade to 10.22 - see the Release Notes for instructions.	go
CSA/OO Appliance Deployment	go
OO web site	go
HPE Software Support	go
Downloads and content HPE Live Network	go

IT Business Analytics (ITBA) Cloud Analytics

IT Business Analytics (ITBA) version 10.00 ContentPack_0001, 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.

Getting started with ITBA

Resource	Link
Release Notes	go
Support and Compatibility Matrix	go
Documentation Library	go
ITBA Installation Guide	go
ITBA Virtual Appliance 2016.01 Installation Guide	go
Administration Guide.	go
ITBA web site	go
HPE Software Support	go
Downloads and content HPE Live Network	go

Virtualization Performance Viewer Premium (vPV)

Virtual Performance Viewer Premium Premium (vPV) version 2.20 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. vPV helps you visualize performance data for elements in the context of each other to rapidly analyze bottlenecks. vPV provides performance monitoring, graphing, and reporting in a single interface.

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

Getting started with vPV

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

Data Center Automation (DCA) Premium Suite

The Data Center Automation Suite Premium Suite version 2016.01, is a complete automation solution for centralizing and streamlining many data center functions. The DCA Premium suite provides tools that automate critical areas of your data center's server management, business service compliance, and IT processes, including provisioning, configuration, compliance, patching, and release management for databases and applications services. This suite includes the following component products: Data Center Automation Appliance (DCAA) Premium, Database and Middleware Automation (DMA) Premium, Network Automation Premium.

Getting started with DCA Premium

Resource	Link
Data Center Automation Suite Premium At a Glance	go
HPE Software Support	go
Downloads and content HPE Live Network	go

Operations Analytics (OpsA)

Operations Analytics (OpsA) versions 2.30 and 2.31 patch install, is the rebranded name of Operations Log Intelligence for version 1.00. OpsA is an analysis tool that provides a unified approach to proactively manage and solve simple and complex IT operations problems. With OpsA, you generate insights from the data in your IT environment that you choose to collect. And because identifying the most useful analytics to derive from the data generally depends on the problem context, with OpsA you, the user, provide each data request in the form of a search query.

OpsA enables you to use simple search queries using the Phrased Query Language (PQL) to view metric, topology, event, and log file information related to the context you specify. Operations Analytics also enables you to use its Analytics Query Language (AQL) for more precise searches; for example, when you know the exact log file message or combination of analytics required to troubleshoot a problem.

Getting started with OpsA

Resource	Link
Release Notes (2.31)	go
System Requirements and Sizing Guide (2.31)	go
Documentation Library (2.3x)	go
Installation Guide (2.31)	go
Configuration Guide (2.31)	go
OpsA web site	go
HPE Software Support	go
Downloads and content HPE Live Network	go

Operations Bridge Premium Suite

Operations Bridge Premium Suite version 2015.12, 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.

Getting started with Operations Bridge Premium

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

Enterprise Maps - Cloud Transformation

Enterprise Maps (EM) - Cloud Transformation version 3.00 with Patch EM_00001 has the capability 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.

Getting started with Enterprise Maps - Cloud Transformation

Resource	Link
Release Notes	go
Concepts Guide	go
Installation and Configuration Guide	go
Enterprise Maps 3.00 Virtual Appliance Guide	go
User Guide	go
Administration Guide	go
Open Source Third-Party License Agreement Guide	go
Enterprise Maps web site	go
HPE Software Support	go
Downloads and content HPE Live Network	go

Universal CMDB (UCMDB)

Universal CMDB (UCMDB) versions 10.20 and 10.21 patch install, 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.

Getting started with UCMDB

Resource	Link
Release Notes (10.21 for patch installation instructions)	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

Component product integration matrixes

This section shows the product integrations and resource links in the following matrixes:

- Supported product integration matrix
- Integration resource matrix

Supported product integration matrix

This matrix shows the product integrations. The green check marks indicate supported integrations, and the Xs indicate unsupported integrations.

> **Note:** For integration information for the Data Center Automation (DCA) Premium Suite 2016.01 components, see the Data Center Automation Suite Premium At a Glance Guide.
>
> For integration information for the Operations Bridge Premium Suite 2015.12 components, see the Integrations Catalog.

Cloud Orchestration Suite Premium Integrations	CSA 4.50 Patch 1	OO 10.22	vPV 2.20	ITBA 10.00 with ContentPack_0001	OpsA Premium 2.30 + 2.31	EM - Cloud Transformation 3.00 with Patch EM_00001	UCMDB 10.20 + 10.21
CSA 4.50 with Patch 1		✅	✅	✅	❌	✅	✅
OO 10.22	✅		❌	✅	❌	❌	✅
vPV 2.20	✅	❌		❌	❌	❌	❌
ITBA 10.00 with ContentPack_0001	✅	✅	❌		❌	❌	✅
OpsA Premium 2.30 + 2.31	❌	❌	❌	❌		❌	✅
EM - Cloud Transformation 3.00 with Patch EM_00001	✅	❌	❌	❌	❌		✅
UCMDB 10.20 + 10.21	✅	✅	❌	✅	✅	✅	

Integration resource matrix

This matrix provides links to the Integrations Catalog (numbers are the catalog IDs) and to documentation with integration information on the Software Support Online web site. You must have a Passport login.

COS Premium Component Product	Integration Product	Resource
Cloud Server Automation (CSA) 4.50 with Patch 1	Enterprise Maps (EM)	• [823] Import application components from CSA • [896] Publish service design to CSA • See Product Integration Management in the EM Administration Guide
	IT Business Analytics (ITBA) Cloud Analytics	• [693] ITBA (formerly XS) - CSA • See Integration with CSA in the ITBA Content Reference Guide
	Operations Orchestration (OO)	• [482] CSA-OO Direct Integration*
	Universal CMDB (UCMDB)	• [749] CSA - UCMDB via OO *
	Virtual Performance Viewer Premium (vPV)	• See Integrating HP vPV with HP Cloud Service Automation (HP CSA) in the vPV Online Help • See Use case: HP vPV Integration in the CSA Content Pack User Guide
Operations Orchestration (OO) 10.22	Cloud Server Automation (CSA)	• [482] CSA-OO Direct Integration*
	IT Business Analytics (ITBA) Cloud Analytics	• [654] ITBA (formerly XS) - OO
	Universal CMDB (UCMDB)	• [191] OO Content for UCMDB
Virtual Performance Viewer Premium (vPV) 2.20	Cloud Server Automation (CSA)	• See Integrating HP vPV with HP Cloud Service Automation (HP CSA) in the vPV Online Help • See Use case: HP vPV Integration in the CSA Content Pack User Guide
IT Business Analytics (ITBA) Cloud Analytics 10.00 with ContentPack_ 0001	Cloud Server Automation (CSA)	• [693] ITBA (formerly XS) - CSA • See Integration with CSA in the ITBA Content Reference Guide
	Operations Orchestration (OO)	• [654] ITBA (formerly XS) - OO

COS Premium Component Product	Integration Product	Resource
	Universal CMDB (UCMDB)	• [477] ITBA (formerly XS) - UCMDB
Operations Analytics (OpsA) 2.30 + 2.31	Universal CMDB (UCMDB)	• [891] OA - UCMDB
Enterprise Maps (EM) - Cloud Assessment 3.00 with Patch EM_00001	Cloud Server Automation (CSA)	• [823] Import application components from CSA • [896] Publish service design to CSA • See Product Integration Management in the EM Administration Guide
	Universal CMDB (UCMDB)	• [731] EM - UCMDB • See Product Integration Management in the EM Administration Guide
Universal CMDB (UCMDB) 10.20 + 10.21	Cloud Server Automation (CSA)	• [749] CSA - UCMDB via OO *
	Enterprise Maps (EM)	• [731] EM - UCMDB • See Product Integration Management in the EM Administration Guide
	IT Business Analytics (ITBA) Cloud Analytics	• [477] ITBA (formerly XS) - UCMDB
	Operations Analytics (OpsA)	• [891] OA - UCMDB
	Operations Orchestration (OO)	• [191] OO Content for UCMDB

* For all Cloud Service Automation 4.5 integrations with Operations Orchestration 10.50, see the following Cloud Service Automation 4.5 documentation:

• Cloud Service Automation 4.5 Content Installation Guide

• Cloud Service Automation 4.5 Content Pack User Guide

• Cloud Service Automation 4.5 Configuration Guide - Linux or Windows

• Cloud Service Automation 4.5 Troubleshooting Guide

• Cloud Service Automation 4.00 Operations Orchestration Integration White Paper

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