Hewlett Packard Enterprise

Cloud Orchestration Suite

Express Edition
Software Version: 2016.01

At a Glance

Legal Notices

Warranty

The only warranties for Hewlett Packard Enterprise Development LP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. shall not be liable for technical or editorial errors or omissions contained herein.

The information contained herein is subject to change without notice.

Restricted Rights Legend

Confidential computer software. Valid license from required for possession, use or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

Copyright Notice

© Copyright 2010-2016 Hewlett Packard Enterprise Development LP

Trademark Notices

Adobe™ is a trademark of Adobe Systems Incorporated.

Microsoft® and Windows® are U.S. registered trademarks of Microsoft Corporation.

The OpenStack® Word Mark and the Square O Design, together or apart, are trademarks or registered trademarks marks of OpenStack Foundation, in the United States and other countries and are used with the OpenStack Foundation's permission.

Oracle and Java are registered trademarks of Oracle and/or its affiliates.

RED HAT READY™ Logo and RED HAT CERTIFIED PARTNER™ Logo are trademarks of Red Hat, Inc.

This product includes an interface of the 'zlib' general purpose compression library, which is Copyright © 1995-2002 Jean-loup Gailly and Mark Adler.

Documentation Updates

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.
- Software Release Date, which indicates the release date of this version of the software.

To check for recent updates or to verify that you are using the most recent edition of a document, go to: **https://softwaresupport.hp.com**

This site requires that you register for a Passport and sign in. To register for a Passport ID, go to: **https://hpp12.passport.hp.com/hppcf/createuser.do**

Or click the **the Register** link at the top of the Software Support page.

You will also receive updated or new editions if you subscribe to the appropriate product support service. Contact your sales representative for details.

Support

Visit the Software Support Online web site at: **https://softwaresupport.hp.com**

This web site provides contact information and details about the products, services, and support offered by Software.

Software online support provides customer self-solve capabilities. It provides a fast and efficient way to access interactive technical support tools needed to manage your business. As a valued support customer, you can benefit by using the support web site to:

- Search for knowledge documents of interest
- Submit and track support cases and enhancement requests
- Download software patches
- Manage support contracts
- Look up support contacts
- Review information about available services
- Enter into discussions with other software customers
- Research and register for software training

Most of the support areas require that you register as a Passport user and sign in. Many also require a support contract. To register for a Passport ID, go to:

 https://hpp12.passport.hp.com/hppcf/createuser.do

To find more information about access levels, go to:

  https://softwaresupport.hp.com/web/softwaresupport/access-levels

Software Solutions Now accesses the HPSW Solution and Integration Portal web site. This site enables you to explore product solutions to meet your business needs, includes a full list of integrations between products, as well as a listing of ITIL processes. The URL for this web site is **http://h20230.www2.hp.com/sc/solutions/index.jsp**

Contents

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.

Express edition overview

The *Cloud Orchestration Suite - Express Edition* accelerates delivery with IaaS by providing the following:

- Provision Hybrid IaaS
- Capacity Analytics to optimize and plan
- Infrastructure monitoring and smart alerts
- High performance log consolidation and intelligent search
- Cloud showback and resource usage reporting
- Ability to assess readiness for a cloud environment

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

- "Express edition component products" on page 7 -- lists and describes all the component products used for the Express edition. Each product description provides the necessary links to install and configure the product.
- Component product integration matrixes -- provides matrixes of the product integrations and resource links to the Integrations Catalog and documentation.
- "Component product installation/configuration best practices" on page 18 -- provides best practices to get the best performance and functionality from the component products for the Express edition.

Express edition component products

This section includes:

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

Component product list

The following table lists the integration products used for the Cloud Orchestration Suite - Express Edition.

Product	Version
"Cloud Service Automation (CSA)" on the next page	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
"Virtualization Performance Viewer Premium (vPV)" on page 11	2.20
"Operations Analytics (OpsA)" on page 12	1.00 (OpsA is the rebranded name of Operations Log Intelligence 1.00)
"Enterprise Maps (EM) - Cloud Assessment" on page 13	3.00 with Patch EM_00001
"Universal CMDB (UCMDB)" on page 14	10.20

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 with ContentPacks_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

Operations Analytics (OpsA)

Operations Analytics (OpsA) version 1.00 is the rebranded name of Operations Log Intelligence (OLI) for version 1.00. OpsA is a log management solution that is optimized for extremely high event throughput, efficient long-term storage, and rapid data analysis. OLI receives and stores events; supports search, and retrieval; and can optionally forward selected events.

Getting started with OpsA (OLI)

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

Enterprise Maps (EM) - Cloud Assessment

Enterprise Maps (EM) - Cloud Assessment version 3.00 with Patch EM_00001 is a process that identifies the most suitable applications and registers them in CSA amd CODAR. Business owners can continuously evaluate the actual Cloud migration progress to ensure that the IT infrastructure capabilities and Cloud providers are optimally utilized to meet the Cloud transformation goals.

EM consolidates information about the existing application portfolio using data from tools like UCMDB, PPM, APM or spreadsheets. For selected applications, EM sends out surveys to the appropriate stakeholders. Based on the information collected, EM calculates scores showing suitability of the applications from a business, technical and financial point of view. The results are visualized using a set of predefined reports.

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

Getting started with Enterprise Maps - Cloud Assessment

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) version 10.20, 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	go
Support and Compatibility Matrix	go
Documentation Library	go
Deployment Guide • "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.

Cloud Orchestration Suite Express Integrations	CSA 4.50 Patch 1	OO 10.22	vPV 2.20	ITBA 10.00 with ContentPack_0001	OpsA 1.00	EM - Cloud Assessment and 3.00	UCMDB 10.20
CSA 4.50 with Patch 1		✓	✓	✓	✗	✓	✓
OO 10.22	✓		✗	✓	✗	✗	✓
vPV 2.20	✓	✗		✗	✗	✗	✗
ITBA 10.00 with ContentPack_0001	✓	✓	✗		✗	✗	✓
OpsA 1.00	✗	✗	✗	✗		✗	✓
EM - Cloud Assessment 3.00 with Patch EM_00001	✓	✗	✗	✗	✗		✓
UCMDB 10.20	✓	✓	✗	✓	✓	✓	

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 Express 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 Express Component Product	Integration Product	Resource
	Universal CMDB (UCMDB)	• [477] ITBA (formerly XS) - UCMDB
Operations Analytics (OpsA) 1.00	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	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

Component product installation/configuration best practices

To get the best performance and functionality from the component products, it is recommended that you use the recommended patch versions listed in the table below. The required version column shows the product versions that are included with this Express suite.

Note: See product matrices and release notes to get the latest information about patches and instructions for optimizing integration compatibility.

Product	Required Version	Recommended Version
"Cloud Service Automation (CSA)" on page 8	4.50 with Patch 1	4.50.0001
"Operations Orchestration (OO)" on page 9	10.22	10.22
"IT Business Analytics (ITBA) Cloud Analytics" on page 10	10.00 with ContentPack 0001	n/a
"Virtualization Performance Viewer Premium (vPV)" on page 11	2.20	2.20.388_3
"Operations Analytics (OpsA)" on page 12	1.00	n/a
"Enterprise Maps (EM) - Cloud Assessment" on page 13	3.00 with Patch EM_00001	3.00 with Patch EM_00001
"Universal CMDB (UCMDB)" on page 14	10.20	10.21

Note: Please ignore patch updates if you are using the CSA-OO, ITBA, and EM - Cloud Assessment appliances as they are at the latest patch level. For new installations and upgrades, it is recommended that you apply the patches mentioned in the above table.

Send Documentation Feedback

If you have comments about this document, you can contact the documentation team by email. If an email client is configured on this system, click the link above and an email window opens with the following information in the subject line:

Feedback on At a Glance (Cloud Orchestration Suite 2016.01)

Just add your feedback to the email and click send.

If no email client is available, copy the information above to a new message in a web mail client, and send your feedback to clouddocs@hp.com.

We appreciate your feedback!