HP Operations Orchestration

Software Version: CP16 (9.x) Windows and Linux operating systems

Release Notes



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Introduction

This document provides an overview of the changes made in HP Operations Orchestration Content Pack 16. It contains important information not included in the manuals or in online help.

This is an English and Japanese language release.

HP OO Content Pack 16 is a cumulative content pack. It updates the repositories and RASes. The update does not remove any operations or flows. The patch only adds, modifies or changes the location of the specific content.

What's New

Supported Versions

Support for the following integration versions has been added:

- Powershell version 4.0
- HP Network Automation integration version 10.00
- HP Network Node Manager (i) integration version 10.00
- HP Fortify integration version 4.1
- HP Load Runner version 12.01
- Microsoft Exchange 2013
- OpenStack integration version Juno 2014.2
- OpenStack integration version Helion Public Cloud 13.5
- OpenStack integration version Helion Openstack 1.0
- HP Operations Orchestration 10.20

Enhancements

Amazon Integration

The Amazon AWS API has been updated to the latest version as follows:

- EC2 and VPC operations use the 06/15/2014 API version.
- Load Balancing operations use the 06/01/2012 API version.

Exchange 2013

- Existing flows and operations have been enhanced to support Exchange 2013.
- **2013** (representing Exchange 2013) is now recognized as a valid value for the input version in flows and operations.
- The folder Exchange 2010 has been renamed to Exchange 2010 and 2013.

- The operation Run Exchange 2010 cmdlets has been renamed to Run Exchange 2010 and 2013 cmdlets.
- The flows **Test Owa Connectivity** and **Test System Health** do not support Exchange 2013. As a result, two new flows, **Get Health Report** and **Get Server Health** under */Library/Operations/Exchange/Exchange 2010 and 2013/Test Exchange/*, have been created.

These flows, that only run on Exchange 2013, should now be used to obtain Exchange 2013 diagnostics information.

00 Content Pack 16 Documentation

The OO Content Pack 16 documentation set includes the following:

- Amazon Elastic Compute Cloud Integration Guide
- Amazon Elastic Load Balancing Integration Guide
- Amazon Identity and Access Management Integration Guide
- Amazon Security Token Service Integration Guide
- Amazon Virtual Private Cloud Integration Guide
- OpenStack Integration Guide
- HP Fortify Integration Guide
- HP Operations Orchestration Integration Support Matrix
- HP Operations Orchestration Operations and Flows
- NA Integration Guide
- NNMi Integration Guide

Installing 00 Content Pack 16

It is recommended to install OO Content Pack 16 on an existing OO platform version of 9.01.01 or later.

You can install OO Content Pack 16 on top of an existing Content Pack 14 content installation. Use platform 9.00 and the patches listed in the following table:

Content	Patch Level
OO Content Pack 16	9.00.01
OO Content Pack 16	9.00.02
OO Content Pack 16	9.03
OO Content Pack 16	9.05.0001
OO Content Pack 16	9.07
OO Content Pack 16	9.07.0005
OO Content Pack 16	9.07.0006
OO Content Pack 16	9.07.0007
OO Content Pack 16	9.07.0008
OO Content Pack 16	9.07.0009

Check in all content before applying the content pack.

If you encounter an issue with expired certificates after an upgrade or new installation of the OO 9.00 platform release, before installing OO Content Pack 16 release apply the OO 9.02 platform patch (available on the HP Software Support Online portal) to the OO 9.00 platform release.

OO 9.02.0002 is a required patch for OO 9.02 that must be installed together with OO 9.02.

For instructions, download the OO 9.02 platform patch release notes from the http://h20230.www2.hp.com/selfsolve/manuals site.

If you apply OO Content Pack 16 on top of an existing version of OO 9.00 and then re-install OO 9.00, you must also re-install OO Content Pack 16.

Although you can install OO Content Pack 16 manually, it is recommended that you install OO Content Pack 16 using the HP Live Network Connector.

Downloading OO Releases and Documents on HP Live Network

HP Live Network provides an Operations Orchestration Community page where you can find and download supported releases of OO and associated documents.

Note: The Community page requires that you register for an HP Passport and sign-in.

To register for an HP Passport ID:

Go to: http://h20229.www2.hp.com/passport-registration.html

Or

Click the **New users - please register** link on the HP Passport login page.

To download OO releases and documentation:

- 1. Go to the HPLN site: https://hpln.hp.com/. Page 1 of HP Live Network page opens.
- 2. At the bottom of the page, click **2** to go to the second page.
- 3. Click Content under Operations Orchestration.



Operations Orchestration



Optimize operational cost and Improve service quality by enabling end-to-end IT Process Automation

4. Select the Content Catalog tab.

5. From the list of Contents, select HP OO 9.x Content.

Note: You can use the Search and Filter buttons at the top of the columns to reduce the number of content packages shown.

6. Click on the large **Download** button.

A list of all the files available for download are shown.

7. Click **Download** to download all the files or select the **jar** and **PDF** files you want to download, and then click **Download**.

Installing OO Content Pack 16 Using the HP Live Network Connector

- 1. Configure the Live Network Connector (https://hpln.hp.com/group/hp-live-network-connector) and run a download for the OO updates stream.
- 2. At the location from which you install the Live Network Connector, type the following command in a terminal and then press Enter:

live-network-connector download

3. At the same location, type the following command in a terminal and then press Enter:

live-network-connector import

4. Restart the RAS service on all RASes in your OO deployment.

See the HP Live Network connector User Guide for additional information.

Note: If you encounter a RAS update error during the following procedure, perform the installation procedure again.

Installing 00 Content Pack 16 Manually

You need to use Java 6 to install OO Content Pack 16. It is recommended that you use the Java JRE shipped with OO, located in the **<OO_HOME>/jre1.6** folder.

When installing OO Content Pack 16 manually, you can:

- Install on a Local Central Server
- Install on a Remote Central Server

Installing 00 Content Pack 16 on a Local Central Server

Windows

- 1. Close Studio and make sure that Central and your RAS are running by checking the status of the RSCentral and RSJRAS services.
- Follow the instructions in "Downloading OO Releases and Documents on HP Live Network" on page 10 to download the OO Content Pack 16 Installer version of OO_Content_Pack_16_ Installer.jar and copy it to a temporary directory.
- 3. Click the **Start** menu, and then click **Run**.
- 4. In the **Run** dialog box, type cmd and then click **OK**.
- 5.

Make sure that the **bin** subdirectory, located in the **JVM** directory, is added to the PATH environment variable.

In the command window, change the current directory to the temporary one and type:

java -jar 00_Content_Pack_16_Installer.jar -centralPassword <your Central
password>

6. Restart the RAS service on all RASes in your OO deployment.

Notes:

- On Windows 2008 and Windows 2008 R2 servers, you must have administrative privileges to install OO Content Pack 16. To get administrative privileges, follow these steps:
 - a. On the Start menu select All Programs, and then Accessories.
 - b. Right-click Command Prompt and then select the Run as administrator option.
- If you are using a Central user name other than the default admin, use the **-centralUsername** parameter in the command shown in step 5 of the previous procedure as follows:

java -jar 00_Content_Pack_16_Installer.jar -centralUsername <non-default Central username> -centralPassword <your Central password>

For example:

java -jar 00_Content_Pack_16_Installer.jar -centralUsername sysadmin centralPassword mypassword

. If you are installing OO Content Pack 16 on a non-default port instead of the default port

https://localhost:8443, use the –centralURL parameter in the command shown in step 5 of the previous procedure as follows:

java -jar 00_Content_Pack_16_Installer.jar -centralURL <non-default Central URL>
-centralPassword <your Central password>

For example:

java -jar 00_Content_Pack_16_Installer.jar -centralURL https://central_ server1:8080 -centralPassword mypassword

• To install OO Content Pack 16 even if there are conflicts between operation versions, use the **-forceInstall** parameter in the command shown in **step 5** of the previous procedure as follows:

java -jar 00_Content_Pack_16_Installer.jar -forceInstall -centralPassword <your Central password>

For example:

java -jar 00_Content_Pack_16_Installer.jar -forceInstall -centralPassword
mypassword

Linux

- 1. Make sure that Central and RAS are running by checking the status of the RSCentral and RSJRAS services.
- Follow the instructions in "Downloading OO Releases and Documents on HP Live Network" on page 10 to download the OO Content Pack 16 Installer version of OO_Content_Pack_16_ Installer.jar and copy it to a temporary directory.
- 3. Open a terminal.
- 4. Make sure that the **bin** subdirectory, located in the **JVM** directory, is added to the PATH environment variable. Use the **cd** command to change the current directory to the temporary one and type:

java -jar 00_Content_Pack_16_Installer.jar -centralPassword <your Central
password> -home <path to 00 installation folder>

5. Restart the RAS service on all RASes in your OO deployment.

Notes:

• If you are using a Central user name other than the default admin, use the **-centralUsername** parameter in the command shown in step 4 of the previous procedure as follows:

java -jar OO_Content_Pack_16_Installer.jar -centralUsername <non-default Central username> -centralPassword <your Central password> -home <path to OO installation folder>

For example:

java -jar OO_Content_Pack_16_Installer.jar -centralUsername sysadmin centralPassword mypassword -home /root/OO_HOME

 If you are installing OO Content Pack 16 on a non-default port instead of the default port https://localhost:8443, use the -centralURL parameter in the command shown in step 4 of the previous procedure as follows:

java -jar 00_Content_Pack_16_Installer.jar -centralURL <non-default Central URL>
-centralPassword <your Central password> -home <path to 00 installation folder>

For example:

java -jar OO_Content_Pack_16_Installer.jar -centralURL https://central_ server1:8080 -centralPassword mypassword -home /root/OO_HOME

 To install OO Content Pack 16 even if there are conflicts between operation versions, use the – forceInstall parameter in the command shown in step 4 of the previous procedure as follows:

```
java -jar 00_Content_Pack_16_Installer.jar -forceInstall -centralPassword<your
Central password> -home <path to 00 installation folder>
```

For example:

```
java -jar OO_Content_Pack_16_Installer.jar -forceInstall -centralPassword
mypassword -home /root/OO_HOME
```

Installing OO Content Pack 16 on a Remote Central Server

You need to have a locally installed Central.

Windows

- 1. Make sure that Central and your RAS are running.
- Follow the instructions in "Downloading OO Releases and Documents on HP Live Network" on page 10 to download the OO Content Pack 16 Installer version of OO_Content_Pack_16_ Installer.jar and copy it to a temporary directory.
- 3. Click the Start menu, and then click Run.
- 4. In the **Run** dialog box, type cmd and then click **OK**.
- 5. Make sure that the **bin** subdirectory, located in the **JVM** directory, is added to the PATH environment variable. In the command window, change the current directory to the temporary one and type:

java -jar 00_Content_Pack_16_Installer.jar -centralURL <remote Central URL> centralPassword <your Central password>

- 6. Restart the RAS service on all RASes in the remote OO deployment.
- On Windows 2008 and Windows 2008 R2 servers, you must have administrative privileges to install OO Content Pack 16. To get administrative privileges, follow these steps:
 - a. On the Start menu select All Programs, and then Accessories.
 - b. Right-click Command Prompt and then select the Run as administrator option.

Linux

- 1. Make sure that Central and your RAS are running.
- 2. Follow the instructions in "Downloading OO Releases and Documents on HP Live Network" on

page 10 to download the OO Content Pack 16 Installer version of **OO_Content_Pack_16_ Installer.jar** and copy it to a temporary directory.

- 3. Open a terminal.
- Make sure that the bin subdirectory, located in the JVM directory, is added to the PATH environment variable. Use the cd command to change the current directory to the temporary one and type:

java -jar 00_Content_Pack_16_Installer.jar -centralURL <remote Central URL> centralPassword <your Central password> -home <path to 00 installation folder>

5. Restart the RAS service on all RASes in the remote OO deployment.

Uninstalling 00 Content Pack 16

After a content pack has been installed, OO does not provide an option to uninstall it. This behavior is a design limitation which has been solved in Operations Orchestration version 10.

The only option to roll back an installed content pack is to restore the OO folder structure from a backup which you must create before installing the content pack.

Back Up the Content Pack Folders

To create a backup to be used as a restore point:

- 1. Back up the **<OO_INSTALLATION_DIR>\Central\rcrepo** folder.
- 2. Back up the <OO_INSTALLATION_DIR>\RAS\Java\Default\repository folder.
- 3. Stop the **RSCentral** and **RSJRAS** services.

Roll back the Installation

After, the content pack has been installed, if you need to roll back the installation, follow these steps:

- 1. Export the modified or created flows (if any exist) after the content pack has been installed as a repository. For details on importing repositories, see "Importing a Repository" in the *HP OO Studio Authoring Guide*.
- 2. Stop the Central and RAS services.
- 3. Restore the files from the backup locations created in the steps of "Back Up the Content Pack Folders" above.
- 4. Restart the services.
- 5. Import the repository created in the step above.

Note: After importing the repository, any restored flows that were created using operations from the uninstalled content pack may appear as invalid. This is because the content pack updates the out-of-box OO operations by adding new inputs or responses. When the Central repository is restored in step 3, these inputs will be lost.

Known Issues

CR Number	Title	Description
QCCR8C5316	HTTPClient does not reuse connections causing performance bottlenecks	 Each OO RAS operation is designed as a unit with the following considerations: at execution time, all resources are acquired when the operation completes, the acquired resources are released However, if a flow sequentially uses the same operation for thousands of steps, at each step, the RAS operation recreates the resources needed, instead of reusing them.
QCCR1D131214	UpdateAssignedTo operation	The UpdateAssignedTo operation under /Integrations/ Hewlett-Packard /Network Node Manager/9.0/Incidents fails with a Cannot interrogate model exception fault. The operation, should return success and change the assignTo value to the one specified as input value.
QCCR1D135408	Divider operation	The Divider operation under / <i>Utility Operations</i> / <i>Math and Comparison/Simple Evaluators</i> completes successfully when a division by zero occurs. The result is infinity. The operation has been modified to check whether the divisor is zero. If the divisor is zero, the operation fails.
QCCR1D135409	Divider operation	When you use the Divider operation under / <i>Utility Operations/Math and Comparison</i> / <i>Simple Evaluators</i> to divide 0.0 by 0.0, the operation fails with a BigInteger divide by 0 message.
QCCR1D138282	Set System Account and Set System Property operations	If you create a new system account and check it in, but the values for the system account username and password are empty, these are not available in any flow. This means that you will not be able to run an OO flow to create system account values in real-time by using the Set System Account under /Integrations/Hewlett- Packard /Operations Orchestration/. The same behavior is found for the Set System Property operation under /Integrations /Hewlett-Packard /Operations Orchestration/.

CR Number	Title	Description
QCCR1D138299	Base64 Decoder operation	The Base64 Decoder operation under / <i>Utility</i> <i>Operations</i> / completes successly if the data input value contains an invalid non-ASCII string and the value of the characterSet input is ASCII or shift-JIS. The operation should fail.
QCCR8C14857	The operations for scheduling flows in OO do not set the description field	After scheduling a flow using the Schedule Flow operation under / <i>Integrations/Hewlett-Packard/</i> <i>Operations Orchestration/Scheduling/</i> with a description, when you run Get Flow Schedules to retrieve the data, and then use Get Schedule Details , the description is blank.
QCCR8C16166	Operating System Detector leaves unprintable character at end of ReturnResult	The Operating System Detector operator leaves an unprintable character at the end of ReturnResult . If you try to pass the returned value to the String Comparator operation with a match type of RegEx and a pattern of ".*", a mismatch error occurs.
QCCR1D145676	Schedule Flow operation	The Schedule Flow operation under /Integrations/ Hewlett-Packard/Operations Orchestration /Scheduling/ fails when executed from the local repository against OO 9.03. This is due to the changes that took place in OO 9.03 when the Scheduler was unified with Central.
QCCR1D149698	Redeploy Template operation	The Redeploy Template operation under / <i>Integrations/Hewlett-Packard/SiteScope</i> /9.x and 10.x and 11.00/ operation fails with NullPointerException when the destination path is invalid.
QCCR1D150316	Get Application Versions and Get Applications operations	The Get Application Versions operation under /Integrations/ Hewlett-Packard /Continuous Delivery Automation /Application/ operation fails with NullPointerException when the applicationId input is left empty.
		The Get Applications operation under /Integrations/ Hewlett-Packard/Continuous Delivery Automation/Application/ fails with NullPointerException when filterBy is assigned byApplicationId and value is assigned the value from the defect description.

CR Number	Title	Description
QCCR1D150709	Read Test flow	The Read Test flow under /Integrations/Hewlett- Packard/Application Lifecycle Management/Test Plan/ returns different results when useLabels is set to true than when it is set to false .
QCCR1D154222	Ant Script flow	The value of the timeout input of the Ant Script flows under / <i>Operations/Ant/Ant Script/</i> is not taken into consideration when returning the results.
QCCR1D155726	Trigger Deploying Topology To Realized Platform operation	The Trigger Deploying Topology To Realized Platform operation under / <i>Integrations</i> / <i>Hewlett-Packard/Continuous Delivery Automation</i> / <i>Topology</i> / goes to success when given invalid values for the deploymentName and deploymentSetId inputs, but deployment fails with a NullPointerException on the CDA side.
QCCR1D155731	Find Builds For Realized Topology operation	Instead of failing when given a bad value for the realizedTopologyId input, the /Find Builds For Realized Topology operation under /Integrations/Hewlett-Packard /Continuous Delivery Automation/Topology/ goes to success, without returning any results.
QCCR1D155796	List Connectors flow	The List Connectors sample flow under /Integrations /Hewlett-Packard/ ArcSight/Samples/ does not return an error message in case of negative scenarios.
QCCR1D156392	Windows error messages	For invalid user name or password inputs, the operations in the /Operations/File System/Windows Only folder, and the Ping and Trace Route operations under /Operations/Operating Systems /Windows/ display a different error message on Windows 2012 than on Windows 2008 R2.
QCCR1D157920	Remove Datastore from Host operation	When ran with a bad value for the dataStore input, the Remove Datastore from Host operation under / <i>Integrations/VMware/VMware Virtual Infrastructure and vSphere/Host/Storage</i> / operation returns a different message than it used to before vSphere 5.1.
QCCR8C26159	Flows that use http client should update description for input trustAllRoots	The description of out-of-the-box flows that use HTTP client v1 shows the default for trustAllRoots as False. This is not correct as any http client v1 operation now has the default input of True.

CR Number	Title	Description
QCCR8C26449	Flows in the Test Exchange folder occasionally do not behave as expected	Depending on the Microsoft Exchange 2013 release version (for example, RTM, SP1, Cumulative Update 6), some API elements (such as Exchange Powershell cmdlets) may not work as expected or may fail when the target host of the operations and flows is an Exchange 2013 server that has only one role installed (either Client Access or Mailbox role but not both). If the target host of the operations and flows is an Exchange 2013 server with both roles installed (Client Access and Mailbox) then this issue does not apply.

Fixed Defects

The following items are fixed in the current software release. The reference number for each fixed defect is the ALM Defect (QCCR) identifier.

For more information about fixed defects, visit HP Software Support Online, or contact your HP Support representative directly.

CR Number	Title	Description
QCCR8C21646	The Add New Disk To VM operation will not work when trying to add 8 or more disks	 The following operations now run successfully when you try to attach to the virtual server with eight or more disks: Add New Disk To VM under //Library/Integrations/VMware/VMware Virtual Infrastructure and vSphere/Virtual Machines/Configuration/ Add Existing Disk To VM under //Library/Integrations/VMware/VMware Virtual Infrastructure and vSphere/Virtual Machines/Configuration/
QCCR8C24834	VMware operations can't connect if the password contains &, < or > characters	<pre>VMware operations can now run successfully with passwords that contain any of the following characters: ! @ # \$ % ^ & * () < > ?</pre>
QCCR8C25054	The operations in the Solaris folder use US date format only	The Get Load Averages and Uptime flows under /Library/Operations/Operating Systems/ <operating_system>/OS and Server Operations/ and the Last Modified folder under /Library/Operations/Operating Systems/<operating_ system>/Deprecated.Disk and File Operations/ now work in a localized environment.</operating_ </operating_system>
		The Get Last Log Time and Message flow under /Library/Operations/Operating Systems/ <operating_ system>/Deprecated/Disk and File Operations/ depends on the remote machine log formats so it has some limitations when working in a localized environment.</operating_

CR Number	Title	Description
QCCR8C25190	Add socketTimeout to all HTTP Client-based operations	The input socketTimeout has been added to all HTTP Client-based operations.
QCCR8C25215	Result of Remote Command Execution is truncated at about 976,000 bytes.	The Remote Command Execution operation under / <i>Library/Operations/</i> now handles the output correctly without truncating it and without adding redundant new lines.
QCCR8C25251	Operation (Customize Windows Guest) restarts VSphere 5.5 client connection service while trying to customize target IP stack info and computer name	The Customize Windows Guest operation under /Library/Integrations/VMWare/VMware Virtual Infrastructure and vSphere/Guest is now successful after the inputs ownerName , ownerOrganization , computerName and timezone have been marked a s required.
QCCR8C25551	Windows Remote Command Execution Fails and Breaks a Flow Run	Any null values encountered are now checked and flow failures are handled accordingly.
QCCR8C25948	When using OMi Update Event operation and removing the inputs that should be left intact, the operation fails with NullPointerException error	The Update Event operation under /Library/Integrations/Hewlett- Packard/Operations Manager i/ now runs successfully.
QCCR8C25949	Create User operation from Amazon/IAM integration doesn't work without a proxy	 The following operations now run successfully: Create User Get User Delete User
QCCR8C25996	[Amazon] Create Subnet does not return the subnetId result	The subnetId , cidrBlock and vpcId results in the Create Subnet operation under / <i>Library/Integrations/Amazon/VPC/Subnets</i> are now correctly set. The snapshotId result in the Create Snapshot operation under / <i>Library/Integrations/Amazon/EC2\Elastic</i> <i>Block Store/Snapshots</i> is now correctly set.

CR Number	Title	Description
QCCR8C26000	[openstack] OpenStack REST Put is missing the ContentType header in the flow, which is required in order for the flow to work	Header contentType has been added to OpenStack REST Put.
QCCR8C26008	Http Client trustAllRoots defaults to true	The descriptions of the Http Client flows and operations have been updated to reflect the default value of true for trustAllRoots .
QCCR8C26034	Dynamically Launch Flow operation fails when logged in with an AD user and credentials set to use "Logged-in Credentials"	The Dynamically Launch Flow operation under /Library/Integrations/Hewlett- Packard/Operations Orchestration/ <version> now runs successfully for a logged-in Active Directory user.</version>
QCCR8C26043	[Amazon] Create Snapshot operation under Amazon EC2 integration throws NullPointerException	The Create Snapshot operation under /Integrations/Amazon/EC2/Elastic Block Store/ now runs successfully.
QCCR8C26045	OMW Create Incident operation fails with "Unable to verify creation of incident"	The error message has been updated to help to troubleshoot the error.
QCCR8C26067	Modify operation "Validate XML Document" to support XML namespaces	Support for namespaces has been added to the Validate XML Document operation under /Library/Utility Operations/XML Processing/.
QCCR8C26071	The HTTP PUT operation fails due to missing Content-Length header	The header contentLength has been added to the Http Client Put operation under /Library/Operations/HTTP Client/.
QCCR8C26422	[Exchange] Get Transport Server Info op fails with scriptlet error	The operation Get Transport Server Info under /Library/Operations/Exchange/ now runs successfully.



