

HP Operations Orchestration

Windows and Linux operating systems

OO Content Pack Version 18 (9.x)

Release Notes

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Introduction

This document provides an overview of the changes made in HP Operations Orchestration Content Packs 18. It contains important information not included in the manuals or in online help.

These releases are English and Japanese language releases.

HP OO content packs are cumulative. They update 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 in CP18

Supported Versions

Support for the following integration versions has been added:

- VMware vSphere 6.0
- VMware ESXi 6.0
- VMware Virtual Center (vCenter) 6.0
- HP Universal CMDB 10.20

OO Content Pack 18 Documentation

The OO Content Pack 18 documentation set includes the following:

- *HP Operations Orchestration Integration Support Matrix*
- *VMware Integration Guide*

Installing OO Content Pack 18

It is recommended to install OO Content Pack 18 on an existing OO platform version of 9.01.01 or later.

You can install OO Content Pack 18 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 18	9.00.01
OO Content Pack 18	9.00.02
OO Content Pack 18	9.03
OO Content Pack 18	9.05.0001
OO Content Pack 18	9.07
OO Content Pack 18	9.07.0005
OO Content Pack 18	9.07.0006
OO Content Pack 18	9.07.0007
OO Content Pack 18	9.07.0008
OO Content Pack 18	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 18 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 18 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 18.

Although you can install OO Content Pack 18 manually, it is recommended that you install OO Content Pack 18 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

[Announcements](#) | [Forum](#) | [Content](#)

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 18 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 OO Content Pack 18 Manually

You need to use Java 6 to install OO Content Pack 18. 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 18 manually, you can:

- [Install on a Local Central Server](#)
- [Install on a Remote Central Server](#)

Installing OO Content Pack 18 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.
2. Follow the instructions in "[Downloading OO Releases and Documents on HP Live Network](#)" on [page 7](#) to download the OO Content Pack 18 Installer version of **OO_Content_Pack_18_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 OO_Content_Pack_18_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 18. 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 OO_Content_Pack_18_Installer.jar -centralUsername <non-default Central username> -centralPassword <your Central password>
```

For example:

```
java -jar OO_Content_Pack_18_Installer.jar -centralUsername sysadmin -centralPassword mypassword
```

- If you are installing OO Content Pack 18 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 OO_Content_Pack_18_Installer.jar -centralURL <non-default Central URL>  
-centralPassword <your Central password>
```

For example:

```
java -jar OO_Content_Pack_18_Installer.jar -centralURL https://central_  
server1:8080  
-centralPassword mypassword
```

- To install OO Content Pack 18 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 OO_Content_Pack_18_Installer.jar -forceInstall -centralPassword <your  
Central password>
```

For example:

```
java -jar OO_Content_Pack_18_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.
2. Follow the instructions in "[Downloading OO Releases and Documents on HP Live Network](#)" on [page 7](#) to download the OO Content Pack 18 Installer version of **OO_Content_Pack_18_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 OO_Content_Pack_18_Installer.jar -centralPassword <your Central password> -home <path to OO 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_18_Installer.jar -centralUsername <non-default Central username> -centralPassword <your Central password> -home <path to OO installation folder>
```

For example:

```
java -jar OO_Content_Pack_18_Installer.jar -centralUsername sysadmin -centralPassword mypassword -home /root/OO_HOME
```

- If you are installing OO Content Pack 18 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 OO_Content_Pack_18_Installer.jar -centralURL <non-default Central URL> -centralPassword <your Central password> -home <path to OO installation folder>
```

For example:

```
java -jar OO_Content_Pack_18_Installer.jar -centralURL https://central_server1:8080 -centralPassword mypassword -home /root/OO_HOME
```

- To install OO Content Pack 18 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 OO_Content_Pack_18_Installer.jar -forceInstall -centralPassword<your  
Central password> -home <path to OO installation folder>
```

For example:

```
java -jar OO_Content_Pack_18_Installer.jar -forceInstall -centralPassword  
mypassword -home /root/OO_HOME
```

Installing OO Content Pack 18 on a Remote Central Server

You need to have a locally installed Central.

Windows

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 7](#) to download the OO Content Pack 18 Installer version of **OO_Content_Pack_18_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 OO_Content_Pack_18_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 18. 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 7](#) to download the OO Content Pack 18 Installer version of **OO_Content_Pack_18_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 OO_Content_Pack_18_Installer.jar -centralURL <remote Central URL> -  
centralPassword <your Central password> -home <path to OO installation folder>
```

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

Uninstalling OO Content Pack 18

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
QCCR8C12237	Divider operation	The Divider operation under <i>/Utility Operations /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.
QCCR8C12241	Divider operation	When you use the Divider operation under <i>/Utility Operations/Math and Comparison/ Simple Evaluators</i> to divide 0.0 by 0.0, the operation fails with a <code>BigInteger divide by 0</code> message.
QCCR8C14493	Base64 Decoder operation	The Base64 Decoder operation under <i>/Utility Operations/</i> completes successfully 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/ 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 <code>".*"</code> , a mismatch error occurs.
QCCR8C4741	Redeploy Template operation	The Redeploy Template operation under <i>/Integrations/Hewlett-Packard/SiteScope /9.x and 10.x and 11.00/</i> operation fails with <code>NullPointerException</code> when the destination path is invalid.

CR Number	Title	Description
QCCR8C5150	Get Application Versions and Get Applications operations	<p>The Get Application Versions operation under <i>/Integrations/Hewlett-Packard/Continuous Delivery Automation/Application/</i> operation fails with <code>NullPointerException</code> when the applicationId input is left empty.</p> <p>The Get Applications operation under <i>/Integrations/Hewlett-Packard/Continuous Delivery Automation/Application/</i> fails with <code>NullPointerException</code> when filterBy is assigned byApplicationId and value is assigned the value from the defect description.</p>
QCCR8C5440	Read Test flow	The Read Test flow under <i>/Integrations/Hewlett-Packard/Application Lifecycle Management/Test Plan/</i> returns different results when useLabels is set to true than when it is set to false .
QCCR8C8460	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.
QCCR8C9377	Trigger Deploying Topology To Realized Platform operation	The Trigger Deploying Topology To Realized Platform operation under <i>/Integrations/Hewlett-Packard/Continuous Delivery Automation/Topology/</i> goes to success when given invalid values for the deploymentName and deploymentSetId inputs, but deployment fails with a <code>NullPointerException</code> on the CDA side.
QCCR8C9381	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 <i>/Integrations/Hewlett-Packard/Continuous Delivery Automation/Topology/</i> goes to success, without returning any results.
QCCR8C9717	Windows error messages	For invalid user name or password inputs, the operations in the <i>/Operations/File System/Windows Only</i> folder, and the Ping and Trace Route operations under <i>/Operations/Operating Systems/Windows/</i> display a different error message on Windows 2012 than on Windows 2008 R2.

CR Number	Title	Description
QCCR8C10855	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.

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
QCCR8C26487	Using Add CI UCMDB operation throws NullPointerException if setting an Enumeration property	The Add CI UCMDB operation now works correctly.
QCCR8C26575	'Get Mail Message' operation ignores the Content-Transfer-Encoding header	The email body encoding in the Get Mail Message operation under <i>/Library/Operations/Email/Send Mail/</i> is no longer hard-coded to base64; the header Content-Transfer-Encoding is taken into account.
QCCR8C27041	Memory leak in PowerShell Script (remote) and LDAPSearch	The memory leak has been fixed.
QCCR8C27241	The operation "Add object" found at "Library/Integrations/Hewlett-Packard/Universal CMDB/" doesn't handle correctly the property if the "=" sign is part of the property value	This issue has been fixed. Now, the Add Object operation under <i>/Library/Integrations/Hewlett-Packard/Universal CMDB/</i> correctly handles the property input even if the "=" sign is part of the property value.
QCCR8C27784	The delimiter input is unusable/greyed out in Send Mail step in the Notify flow	The delimiter input in the Notify flow under <i>/Library/Utility Operations/</i> was enabled.

CR Number	Title	Description
QCCR8C27799	<i>/Library/Operations/PowerShell/PowerShell Script</i> uses JRAS permissions	<p>A new input, localPSRemoting, has been added to the PowerShell Script operation under <i>/Library/Operations/PowerShell/</i>.</p> <p>When this input is used and set to true, the operation uses remote impersonation on the local IP address (localhost/loopback) and PowerShell remoting on the same address to execute the script.</p> <p>This input enables the PowerShell Script operation to run a script under different privileges on the local host.</p>

