

# HP Operations Orchestration CP19 (9x)

Windows and Linux operating systems

00 Content Pack 19 Version (9.x)

## Release Notes

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# Introduction

This document provides an overview of the changes made in HP Operations Orchestration Content Packs 19. 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 CP19

### OO Content Pack 19 Documentation

The OO Content Pack 19 documentation set includes the following:

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

# Installing OO Content Pack 19

It is recommended to install OO Content Pack 19 on an existing OO platform version of 9.01.01 or later. You can install OO Content Pack 19 on top of Content Pack 18 content installation. Use platform 9.00 and the patches listed in the following table:

Content	Patch Level
OO Content Pack 19	9.00.01
OO Content Pack 19	9.00.02
OO Content Pack 19	9.03
OO Content Pack 19	9.05.0001
OO Content Pack 19	9.07
OO Content Pack 19	9.07.0005
OO Content Pack 19	9.07.0006
OO Content Pack 19	9.07.0007
OO Content Pack 19	9.07.0008
OO Content Pack 19	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 19 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 19 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 19.

Although you can install OO Content Pack 19 manually, it is recommended that you install OO Content Pack 19 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 19 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 19 Manually

You need to use Java 6 to install OO Content Pack 19. 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 19 manually, you can:

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



# Installing OO Content Pack 19 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 19 Installer version of **OO\_Content\_Pack\_19\_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_19_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 19. 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_19_Installer.jar -centralUsername <non-default Central username> -centralPassword <your Central password>
```

For example:

```
java -jar OO_Content_Pack_19_Installer.jar -centralUsername sysadmin -centralPassword mypassword
```

- If you are installing OO Content Pack 19 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_19_Installer.jar -centralURL <non-default Central URL> -centralPassword <your Central password>
```

For example:

```
java -jar OO_Content_Pack_19_Installer.jar -centralURL https://central_server1:8080 -centralPassword mypassword
```

- To install OO Content Pack 19 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_19_Installer.jar -forceInstall -centralPassword <your  
Central password>
```

For example:

```
java -jar OO_Content_Pack_19_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 19 Installer version of **OO\_Content\_Pack\_19\_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_19_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_19_Installer.jar -centralUsername <non-default Central username> -centralPassword <your Central password> -home <path to OO installation folder>
```

For example:

```
java -jar OO_Content_Pack_19_Installer.jar -centralUsername sysadmin -centralPassword mypassword -home /root/OO_HOME
```

- If you are installing OO Content Pack 19 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_19_Installer.jar -centralURL <non-default Central URL> -centralPassword <your Central password> -home <path to OO installation folder>
```

For example:

```
java -jar OO_Content_Pack_19_Installer.jar -centralURL https://central_server1:8080 -centralPassword mypassword -home /root/OO_HOME
```

- To install OO Content Pack 19 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_19_Installer.jar -forceInstall -centralPassword<your Central password> -home <path to OO installation folder>
```

For example:

```
java -jar OO_Content_Pack_19_Installer.jar -forceInstall -centralPassword mypassword -home /root/OO_HOME
```

# Installing OO Content Pack 19 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 19 Installer version of **OO\_Content\_Pack\_19\_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_19_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 19. 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 19 Installer version of **OO\_Content\_Pack\_19\_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_19_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 19

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
QCCR8C25658	Recompile RAgentLib with .NET 3.0 to allow content to use Powershell version 3	Go to folder <i>C:\Windows\Microsoft.NET\Framework64\v2.0.50727</i> , and in the command line run the following commands:  <pre>regasm /unregister "&lt;INCLUDE_HOME&gt;\RAS\Java\Default\webapp\dotnet\RAgentLib.dll"</pre> <pre>regasm /verbose /nologo /codebase "&lt;INCLUDE_HOME&gt;\RAS\Java\Default\webapp\dotnet\RAgentLib.dll"</pre>
QCCR8C12237	<b>Divider</b> operation	The <b>Divider</b> 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	<b>Divider</b> operation	When you use the <b>Divider</b> 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	<b>Base64 Decoder</b> operation	The <b>Base64 Decoder</b> operation under <i>/Utility Operations/</i> completes successfully if the data input value contains an invalid non-ASCII string and the value of the <b>characterSet</b> 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 <b>Schedule Flow</b> operation under <i>/Integrations/Hewlett-Packard/Operations Orchestration/Scheduling/</i> with a description, when you run <b>Get Flow Schedules</b> to retrieve the data, and then use <b>Get Schedule Details</b> , the description is blank.
QCCR8C16166	Operating System Detector leaves unprintable character at end of <b>ReturnResult</b>	The <b>Operating System Detector</b> operator leaves an unprintable character at the end of <b>ReturnResult</b> . 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.

CR Number	Title	Description
QCCR8C4741	<b>Redeploy Template</b> operation	The <b>Redeploy Template</b> 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.
QCCR8C5150	<b>Get Application Versions and Get Applications</b> operations	The <b>Get Application Versions</b> operation under <i>/Integrations/Hewlett-Packard/Continuous Delivery Automation/Application/</i> operation fails with <code>NullPointerException</code> when the <b>applicationId</b> input is left empty.  The <b>Get Applications</b> operation under <i>/Integrations/Hewlett-Packard/Continuous Delivery Automation/Application/</i> fails with <code>NullPointerException</code> when <b>filterBy</b> is assigned <b>byApplicationId</b> and <b>value</b> is assigned the value from the defect description.
QCCR8C5440	<b>Read Test</b> flow	The <b>Read Test</b> flow under <i>/Integrations/Hewlett-Packard/Application Lifecycle Management/Test Plan/</i> returns different results when <b>useLabels</b> is set to <b>true</b> than when it is set to <b>false</b> .
QCCR8C8460	<b>Ant Script</b> flow	The value of the <b>timeout</b> input of the <b>Ant Script</b> flows under <i>/Operations/Ant/Ant Script/</i> is not taken into consideration when returning the results.
QCCR8C9377	<b>Trigger Deploying Topology To Realized Platform</b> operation	The <b>Trigger Deploying Topology To Realized Platform</b> operation under <i>/Integrations/Hewlett-Packard/Continuous Delivery Automation/Topology/</i> goes to success when given invalid values for the <b>deploymentName</b> and <b>deploymentSetId</b> inputs, but deployment fails with a <code>NullPointerException</code> on the CDA side.
QCCR8C9381	<b>Find Builds For Realized Topology</b> operation	Instead of failing when given a bad value for the <b>realizedTopologyId</b> input, the <b>Find Builds For Realized Topology</b> operation under <i>/Integrations/Hewlett-Packard/Continuous Delivery Automation/Topology/</i> goes to success, without returning any results.
QCCR8C9717	<b>Windows</b> error messages	For invalid user name or password inputs, the operations in the <i>/Operations/File System/Windows Only</i> folder, and the <b>Ping</b> and <b>Trace Route</b> operations under <i>/Operations/Operating Systems/Windows/</i> display a different error message on Windows 2012 than on Windows 2008 R2.
QCCR8C10855	<b>Remove Datastore from Host</b>	When ran with a bad value for the <b>dataStore</b> input, the <b>Remove Datastore from Host</b> operation under <i>/Integrations/VMware/VMware Virtual</i>

CR Number	Title	Description
	operation	<i>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 <b>trustAllRoots</b> as False. This is not correct as any HTTP Client v1 operation now has the default input of True.



