

HP Operations Orchestration

For the Windows and Linux operating systems

Software Version: CP14 (9.x)

Release Notes

Document Release Date: May 2014

Software Release Date: May 2014



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Introduction

This document provides an overview of the changes made in HP Operations Orchestration Content Pack 14. It contains important information not included in the manuals or in online help.

This is an English and Japanese language release.

OO Content Pack 14 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 HP Arcsight integration version 6.5c has been added.
- Support for the HP Onboard Administrator integration version 4.x has been added.
- Support for the HP Operations Manager i versions 9.23 and 9.24 has been added.
- Support for the Microsoft Hyper-V 2012 integration has been added.
- Support for the Microsoft Hyper-V 2012 R2 integration has been added.
- Support for the Microsoft SQL Server 2014 CTP2 currency integration has been added.
- Support for MS SC 2012 integration version R2, SP1 and SP2 has been added.
- Support for the HP Continuous Delivery Automation (CDA) integration versions 1.30 has been added.
- Support for Microsoft Active Directory 2012 has been added.
- Support for Microsoft Active Directory 2012 R2 has been added.
- Support for the SiteScope integration versions 11.23, 11.24 and 11.30 has been added.
- Support for VMware vCenter Orchestrator versions 5.1 and 5.5 has been added.
- Support for VMware vCloud Director version 5.1.1 has been added.
- Support for Windows 2012 version R2 has been added.

New Features

- The operation **SQL Query** located in **Library/Operations/Databases/Microsoft SQL** was enhanced with new boolean input **MultipleActiveResultSets** that allows you to set the connection string in MS SQL.
- The operations located in the LDAP and Active Directory folders now have SSL support. You can connect to the LDAP server using the Secure Sockets Layer (SSL) protocol and use a keyStore or trustStore certificate file, or enable weak security by trusting all certificates (if **trustAllRoots = true**).

OO Content Pack 14 Documentation

The OO Content Pack 14 documentation set includes the following:

- HP Application Lifecycle Management Integration Guide
- HP Arcsight Integration Guide
- HP Fortify Integration Guide
- HP Load Runner Integration Guide
- HP Onboard Administrator Integration Guide
- HP Operations Manager i Integration Guide
- HP SiteScope Integration Guide
- Microsoft SCCM Integration Guide
- Microsoft SCO Integration Guide
- Microsoft SCOM Integration Guide
- Microsoft SCVMM Integration Guide
- VMware vCloud Director Integration Guide
- VMware vCenter Orchestrator Integration Guide
- HP Operations Orchestration Integration Support Matrix
- HP Operations Orchestration Operations and Flows

Installing OO Content Pack 14

It is recommended to install OO Content Pack 14 on an existing OO platform version of 9.00. or later.

You can install OO Content Pack 14 on top of an existing Content Pack 13 content installation. Use platform 9.00 and the patches listed in the following table:

| Content | Patch Level |
|--------------------|-------------|
| OO Content Pack 14 | 9.00.01 |
| OO Content Pack 14 | 9.00.02 |
| OO Content Pack 14 | 9.03 |
| OO Content Pack 14 | 9.05.0001 |
| OO Content Pack 14 | 9.07 |
| OO Content Pack 14 | 9.07.0005 |
| OO Content Pack 14 | 9.07.0006 |

All content needs to be checked in 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 the OO Content Pack 14 release, apply the OO 9.02 platform patch (available on the HP Software Support Online portal) to the OO 9.00 platform release as instructed in the OO 9.02 platform patch release notes to resolve the issue. OO 9.02.0002 is a required patch for OO 9.02 that must be installed together with OO 9.02.

If you apply OO Content Pack 14 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 14.

Although you can install OO Content Pack 14 manually, it is recommended that you install OO Content Pack 14 using the HP Live Network Connector.

Installing OO Content Pack 14 Using the HP Live Network Connector

1. Configure the Live Network Connector (<https://hpln.hp.com/group/hp-live-network-connector>) and trigger 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, do the installation procedure again.

Installing OO Content Pack 14 Manually

You need to use Java 6 to install OO Content Pack 14. It is recommended that you to use the Java JRE shipped with OO, located in the <OO_HOME>/jre1.6 folder.

When installing OO Content Pack 14 manually, you can:

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

Installing OO Content Pack 14 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. Go to <https://hpln.hp.com>, click **Operations Orchestration Community** and log in.
3. On the left-hand side, click **Operations Orchestration Content Packs**. In the **Operations Orchestration Content Packs** box, click **Content**. Click **HP Operations Orchestration 9.00** and navigate to HP Operations Orchestration Content Pack 14.
4. Navigate to and copy the OO Content Pack 14 Installer version of **OO_Content_Pack_14_Installer.jar** to a temporary directory.
5. Click the **Start** menu, and then click **Run**.
6. In the Run dialog box, type `cmd` and then click **OK**.
7. 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_14_Installer.jar -centralPassword <your Central password>
```

8. 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 14. 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 7** of the previous procedure as follows:

```
java -jar OO_Content_Pack_14_Installer.jar -centralUsername <non-default Central username> -centralPassword <your Central password>
```

For example:

```
java -jar OO_Content_Pack_14_Installer.jar -centralUsername sysadmin -centralPassword mypassword
```

- If you are installing OO Content Pack 14 on a non-default port instead of the default port **https://localhost:8443**, use the **-centralURL** parameter in the command shown in **step 7** of the previous procedure as follows:

```
java -jar OO_Content_Pack_14_Installer.jar -centralURL <non-default Central URL> -centralPassword <your Central password>
```

For example:

```
java -jar OO_Content_Pack_14_Installer.jar -centralURL https://central_server1:8080 -centralPassword mypassword
```

- To install OO Content Pack 14 even if there are conflicts between operation versions, use the **-forceInstall** parameter in the command shown in **step 7** of the previous procedure as follows:

```
java -jar OO_Content_Pack_14_Installer.jar -forceInstall -centralPassword <your Central password>
```

For example:

```
java -jar OO_Content_Pack_14_Installer.jar -forceInstall -centralPassword mypassword
```

Linux

1. Make sure that Central and your RAS are running by checking the status of the RSCentral and RSJRAS services.
2. Go to <https://hpln.hp.com>, click **Operations Orchestration Community** and log in.
3. On the left-hand side, click **Operations Orchestration Content Packs**. In the **Operations Orchestration Content Packs** box, click **Content**. Click **HP Operations Orchestration 9.00** and navigate to HP Operations Orchestration Content Pack 14.
4. Navigate to and copy the OO Content Pack 14 Installer version of **OO_Content_Pack_14_Installer.jar** to a temporary directory.
5. Open a **terminal**.
6. 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_14_Installer.jar -centralPassword <your Central password> -home <path to OO installation folder>
```

7. 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 6** of the previous procedure as follows:

```
java -jar OO_Content_Pack_14_Installer.jar -centralUsername <non-default Central username> -centralPassword <your Central password> -home <path to OO installation folder>
```

For example:

```
java -jar OO_Content_Pack_14_Installer.jar -centralUsername sysadmin -centralPassword mypassword -home /root/OO_HOME
```

- If you are installing OO Content Pack 14 on a non-default port instead of the default port **https://localhost:8443**, use the **--centralURL** parameter in the command shown in **step 6** of the previous procedure as follows:

```
java -jar OO_Content_Pack_14_Installer.jar -centralURL <non-default Central URL> -centralPassword <your Central password> -home <path to OO installation folder>
```

For example:

```
java -jar OO_Content_Pack_14_Installer.jar -centralURL https://central_server1:8080 -centralPassword mypassword -home /root/OO_HOME
```

- To install OO Content Pack 14 even if there are conflicts between operation versions, use the **forceInstall** parameter in the command shown in step 6 of the previous procedure as follows:

```
java -jar OO_Content_Pack_14_Installer.jar -forceInstall -centralPassword<your Central password> -home <path to OO installation folder>
```

For example:

```
java -jar OO_Content_Pack_14_Installer.jar -forceInstall -centralPassword mypassword -home /root/OO_HOME
```

Installing OO Content Pack 14 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. Go to <https://hpln.hp.com>, click **Operations Orchestration Community** and log in.
3. On the left-hand side, click **Operations Orchestration Content Packs**. In the **Operations Orchestration Content Packs** box, click **Content**. Click **HP Operations Orchestration 9.00** and navigate to HP Operations Orchestration Content Pack 14.
4. Navigate to and copy the OO Content Pack 14 Installer version of **OO_Content_Pack_14_Installer.jar** to a temporary directory.
5. Click the **Start** menu, and then click **Run**.
6. In the Run dialog box, type `cmd` and then click **OK**.
7. 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_14_Installer.jar -centralURL <remote Central URL> -centralPassword <your Central password>
```

8. 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 14. 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. Go to <https://hpln.hp.com>, click **Operations Orchestration Community** and log in.
3. On the left-hand side, click **Operations Orchestration Content Packs**. In the **Operations Orchestration Content Packs** box, click **Content**. Click **HP Operations Orchestration 9.00** and navigate to HP Operations Orchestration 14.
4. Navigate to and copy the OO Content Pack 14 Installer version of **OO_Content_Pack_14_Installer.jar** to a temporary directory.
5. Open a **terminal**.
6. 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_14_Installer.jar -centralURL <remote Central URL> -centralPassword <your Central password> -home <path to OO installation folder>
```
7. Restart the RAS service on all RASes in the remote OO deployment.

Uninstalling OO Content Pack 14

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 rollback 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

Rollback the Installation

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

1. Export the modified/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 *Studio Authoring Guide*.
2. Stop the Central and RAS services.
3. Restore the files from the backup locations created at steps 1 and 2 of "[Back Up the Content Pack Folders](#)" above.
4. Restart the services.
5. Import the repository created in step 1.

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/responses. When the Central repository is restored in step 3, these inputs will be lost.

Known Issues

| CR Number | Title | Description |
|--------------|--|---|
| QCCR1D85010 | F5 Integration | The F5 integration does not support non-alphanumeric passwords. This is because the password is placed in an HTML GET string. The non-alphanumeric characters break the GET string. As a result, the string cannot be used in the password. |
| QCCR8C10653 | HTTPClient does not reuse connections causing performance bottlenecks | Each OO RAS operation is designed as a unit with the following considerations: <ul style="list-style-type: none"> • at execution time, all resources are acquired • when the operation completes, the acquired resources are released <p>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.</p> |
| QCCR1D121391 | RSflowinvoke auto retries when Central is behind a non-reachable proxy | JRSflowinvoke and RSFlowinvoke should use the same proxy information. RC=0 should cause it not to repeat and return a failure with the 502/503 message. |
| QCCR1D131214 | UpdateAssignedTo operation | The Library/Integrations/Hewlett-Packard/Network Node Manager/9.0/Incidents/UpdateAssignedTo operation fails with a <code>Cannot interrogate model</code> exception fault. The operation, should return success and change the <code>assignTo</code> value to the one specified as input value. |
| QCCR1D132829 | Get and Put operations | The Library/Operations/Remote File Transfer/FTP/Get and Library/Operations/Remote File Transfer/FTP/Put operations complete successfully even if given invalid values for the type input. |

| CR Number | Title | Description |
|--------------|---|---|
| QCCR1D135408 | Divider operation | The Library/Utility Operations/Math and Comparison/Simple Evaluators/Divider operation 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 Library/Utility Operations/Math and Comparison/Simple Evaluators/Divider operation to divide 0.0 by 0.0, the operation fails with a <code>BigInteger divide by 0</code> message. |
| QCCR1D138276 | Description for includePaths in RepositorySync Plugin | The RepositorySync plugin description in the Library/Integrations/ Hewlett-Packard/Operations Orchestration/Repository folder for <code>includePaths</code> (paths to include) should be clearer, as it actually refers to a logical offset from the repository root, rather than a system storage path on the O/S. For example, to include all flows under My Ops Flows , the input should be Library/My Ops Flows . The same description should apply to <code>excludePaths</code> (paths to exclude). |
| 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 <code>username</code> and <code>password</code> 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 Library/Integrations/Hewlett-Packard /Operations Orchestration/Set System Account operation. The same behavior is found for the Library/Integrations/ Hewlett-Packard /Operations Orchestration/Set System Property operation. |
| QCCR1D138299 | Base64 Decoder operation | The Library/Utility Operations/Base64 Decoder operation returns success if the data input value contains an invalid non-ASCII string and the value of the <code>characterSet</code> input is ASCII or shift-JIS. The operation should fail. |

| CR Number | Title | Description |
|--------------|--|--|
| QCCR8C14857 | The operations for scheduling flows in OO do not set the description field | After scheduling a flow using /Library/integrations/Hewlett-Packard/Operations Orchestration/Scheduling/schedule flow 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 Library/Integrations/ Hewlett-Packard/Operations Orchestration/Schedule Flow operation 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. |
| QCCR1D145994 | OO Samples Self Integration | As stated in their description, the Library/Integrations/Hewlett-Packard /Operations Orchestration/Flow Execution/Samples/Filter Flow Runs by Status and Library/Integrations/ Hewlett-Packard /Operations Orchestration/Flow Execution/Samples/Get Last Run Status flows can run only from Central, and not from Studio. However, the folder location (for example, Library/Integrations) is hidden in Central. To run the flows, you should use command line tools (for example, JRSFlowInvoke.jar). Alternatively, you can copy these flows in another location in the repository, and then execute using Central. |
| QCCR1D149698 | Redeploy Template operation | The Library/Integrations/Hewlett-Packard/SiteScope/9.x and 10.x and 11.00/Redeploy Template operation fails with <code>NullPointerException</code> when the destination path is invalid. |

| CR Number | Title | Description |
|--------------|--|--|
| QCCR1D150316 | Get Application Versions and Get Applications operations | <p>The Library/Integrations/Hewlett-Packard/Continuous Delivery Automation/Application/Get Application Versions operation fails with <code>NullPointerException</code> when the <code>applicationId</code> input is left empty.</p> <p>The Library/Integrations/ Hewlett-Packard/ Continuous Delivery Automation/Application/Get Applications operation fails with <code>NullPointerException</code> when <code>filterBy</code> is assigned by <code>applicationId</code> and value is assigned the value from the defect description.</p> |
| QCCR1D150709 | Read Test flow | The Library/Integrations/Hewlett-Packard/Application Lifecycle Management/Test Plan/Read Test flow returns different results when <code>useLabels</code> is set to <code>true</code> than when it is set to <code>false</code> . |
| QCCR1D154222 | Ant Script flow | The Library/Operations/Ant/Ant Script flows' <code>timeout</code> input value is not taken into consideration when returning the results. |
| QCCR1D155726 | Trigger Deploying Topology To Realized Platform operation | The Library/Integrations/ Hewlett-Packard/Continuous Delivery Automation/Topology/Trigger Deploying Topology To Realized Platform operation goes to success when given invalid values for the <code>deploymentName</code> and <code>deploymentSetId</code> inputs, but deployment fails with a <code>NullPointerException</code> on the CDA side. |
| QCCR1D155731 | Find Builds For Realized Topology operation | Instead of failing when given a bad value for the <code>realizedTopologyId</code> input, the Library/Integrations/Hewlett-Packard /Continuous Delivery Automation/Topology/Find Builds For Realized Topology operation goes to success, without returning any results. |
| QCCR1D155796 | List Connectors flow | The Library/Integrations /Hewlett-Packard/ArcSight/Samples/List Connectors sample flow does not return an error message in case of negative scenarios. |

| CR Number | Title | Description |
|--------------|---|---|
| QCCR1D156392 | Windows error messages | For bad user name or password inputs, the operations in the Library/Operations/File System/Windows Only folder, and the Library/Operations/Operating Systems/Windows/Ping and Trace Route operations 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 Library/Integrations/VMware/VMware Virtual Infrastructure and vSphere/Host/Storage/Remove Datastore from Host operation returns a different message than it used to before vSphere 5.1. |
| QCCR1D159032 | SCVMM error messages | When ran with an invalid owner input value, the Library/Integrations/Microsoft/System Center Virtual Machine Manager/Virtual Machine/Set Virtual Machine and Library/Integrations/Microsoft/System Center Virtual Machine Manager/Hardware Profile/New Hardware Profile and Set Hardware Profile flows return a different error message for SCVMM 2012 than for SCVMM 2008 R2. |
| QCCR8C21646 | Operations "Add Existing Disk To VM", "Add New Disk To VM" do not work properly | Running the following operations causes an error when trying to attach to the virtual server with eight or more disks: /Library/Integrations/VMware/VMware Virtual Infrastructure vSphere/Virtual Machines/Configuration/Add New Disk To VM /Library/Integrations/VMware/VMware Virtual Infrastructure vSphere/Virtual Machines/Configuration/Add Existing Disk To VM |
| QCCR8C21954 | OpenStack: Rebuild Server flow fails in 10x | Flow fails at step Add Metadata with the following error message, regardless of whether metadata (non-required) input is provided: SyntaxError: Unexpected token in object literal |

Fixed Defects

The following items are fixed in the current software release. The reference number for each fixed defect is the Quality Center Change Request (QCCR) identifier.

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

| CR Number | Title | Description |
|-------------|---|--|
| QCCR8C18921 | Deploy VM from template documentation missing | Deploy VM from template added in the 9.00.07 content pack is not documented in the integration guides or the patch notes. |
| QCCR8C5259 | Modify the Excel operation "Modify Cell" to be able to define the row and column delimiter for different characters or fix the deprecated operation "Modify Excel Data" to work as in Content Pack7 | <p>The operation "Modify Cell" found under "Library\Operations\File System\Windows only\Excel" can currently only use "," as a column delimiter for the values.</p> <p>This operation cannot write cell content that includes commas to an existing Excel file.</p> <p>In the Deprecated Excel operations you can specify the column and row delimiter, e.g. semi colon instead of comma, but the Deprecated operation "Modify Excel Data" does not work in CP8 as it did in CP7 (in CP8 it writes one character per row in the Excel file).</p> |

| CR Number | Title | Description |
|--------------|---|---|
| QCCR1D171779 | Using the OOTB operation "Integrations/ Hewlett-Packard/ Operations Orchestrations/ Repository/ Set System Account" and setting the input createNewAccount=True will create the System Account but the username and the password will be left blank | Creating a new System Account using the OOTB operation "Integrations/ Hewlett-Packard/ Operations Orchestrations/ Repository/ Set System Account" and setting the input createNewAccount=True will create the System Account, but the username and the password are not populated. The Username and Password will not be populated unless the System Account is an existing one and the input createNewAccount=False. |

