HP Operations Orchestration

For Windows and Linux operating systems

Content Pack Version 13
for HP OO Software Version CP13 (9.x)

Release Notes

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Introduction

This document provides an overview of the changes made in HP Operations Orchestration Content Pack 13. It contains important information not included in the manuals or in online help. This is an English and Japanese language release.

OO Content Pack 13 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 OpenStack integration versions Grizzly 2013.1 and Havana 2013.2 has been added.

- Support for the HP Application Lifecycle Management (ALM) integration version 11.52 has been added.

- Support for the HP Continuous Delivery Automation (CDA) integration versions 1.30 has been added.

- Support for the HP Load Runner (LR) integration version 11.x has been added.

- Support for the HP UCMDB integration version 10.10 has been added.

- Support for the VMware Virtual Infrastructure and vSphere version 5.5 has been added.

OO Content Pack 13 Documentation

The OO Content Pack 13 documentation set includes the following:

- OpenStack Integration Guide

- Universal CMDB Integration Guide

- VMware Virtual Infrastructure and vSphere Integration Guide

- HP Operations Orchestration Integration Support Matrix

- HP Operations Orchestration Operations and Flows

Installing OO Content Pack 13

You must install OO Content Pack 13 on an existing OO platform version of 9.00.01 or later.

You can install OO Content Pack 13 on top of an existing Content Pack 12 content installation.

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 13 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 13 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 13.

Although you can install OO Content Pack 13 manually, it is recommended that you install OO Content Pack 13 using the HP Live Network Connector.

Installing OO Content Pack 13 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 13 Manually

You need to use Java 6 to install OO Content Pack 13. 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 13 manually, you can:

- Install on a Local Central Server.

- Install on a Remote Central Server.

Installing OO Content Pack 13 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 13.

4. Navigate to and copy the OO Content Pack 13 Installer version of **OO_Content_Pack_13_ 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_13_Installer.jar -centralPassword <your Central pa
   ssword>
   ```

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 13. 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_13_Installer.jar –centralUsername <non-default Centr
al username> -centralPassword <your Central password>
```

For example:

```
java -jar OO_Content_Pack_13_Installer.jar –centralUsername sysadmin -centralP
assword mypassword
```

- If you are installing OO Content Pack 13 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_13_Installer.jar –centralURL <non-default Central UR
L> -centralPassword <your Central password>
```

For example:

```
java -jar OO_Content_Pack_13_Installer.jar –centralURL https://central_server1
:8080 -centralPassword mypassword
```

- To install OO Content Pack 13 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_13_Installer.jar –forceInstall -centralPassword <you
r Central password>
```

For example:

```
java -jar OO_Content_Pack_13_Installer.jar –forceInstall -centralPassword mypa
ssword
```

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 13.

4. Navigate to and copy the OO Content Pack 13 Installer version of **OO_Content_Pack_13_ 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_13_Installer.jar -centralPassword <your Central pa
ssword> -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_13_Installer.jar –centralUsername <non-default Centr
al username> -centralPassword <your Central password> -home <path to OO instal
lation folder>
```

For example:

```
java -jar OO_Content_Pack_13_Installer.jar –centralUsername sysadmin -centralP
assword mypassword -home /root/OO_HOME
```

- If you are installing OO Content Pack 13 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_13_Installer.jar –centralURL <non-default Central UR
L> -centralPassword <your Central password> -home <path to OO installation fol
der>
```

For example:

```
java -jar OO_Content_Pack_13_Installer.jar –centralURL https://central_server1
:8080 -centralPassword mypassword -home /root/OO_HOME
```

- To install OO Content Pack 13 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_13_Installer.jar –forceInstall -centralPassword<your
Central password> -home <path to OO installation folder>
```

For example:

```
java -jar OO_Content_Pack_13_Installer.jar –forceInstall -centralPassword mypa
ssword -home /root/OO_HOME
```

Installing OO Content Pack 13 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 13.

4. Navigate to and copy the OO Content Pack 13 Installer version of **OO_Content Pack_13_ 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_13_Installer.jar –centralURL <remote Central URL> -
   centralPassword <your Central password>
   ```

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

Note:

- On Windows 2008 and Windows 2008 R2 servers, you must have administrative privileges to install OO Content Pack 13. 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 Content Pack 12.

4. Navigate to and copy the OO Content Pack 13 Installer version of **OO_Content Pack_13_ 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_13_Installer.jar –centralURL <remote Central URL> -
centralPassword <your Central password> -home <path to OO installation folde
r>
```

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

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.
QCCR1D131214	**UpdateAssignedTo** operation	The **Library/Integrations/Hewlett-Packard/Network Node Manager/9.0/Incidents/UpdateAssignedTo** operation 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.
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.
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 `BigInteger divide by 0` message.

CR Number	Title	Description
QCCR1D138276	Description for **includePaths** in **RepositorySync** Plugin	The **RepositorySync** plugin description in the **Library/Integrations/Hewlett-Packard/Operations Orchestration/Repository** folder for `includePaths` (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 `excludePaths` (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 `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 **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.
QCCR1D121391	RSflowinvoke auto retries when Central is behind a non-reachable proxy	
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 `characterSet` input is ASCII or shift-JIS. The operation should fail.
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.

CR Number	Title	Description
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 `NullPointerException` when the destination path is invalid.
QCCR1D150316	**Get Application Versions** and **Get Applications** operations	The **Library/Integrations/Hewlett-Packard/Continuous Delivery Automation/Application/Get Application Versions** operation fails with `NullPointerException` when the `applicationId` input is left empty. The **Library/Integrations/Hewlett-Packard/Continuous Delivery Automation/Application/Get Applications** operation fails with `NullPointerException` when `filterBy` is assigned `byApplicationId` and `value` is assigned the value from the defect description.
QCCR1D150709	**Read Test** flow	The **Library/Integrations/Hewlett-Packard/Application Lifecycle Management/Test Plan/Read Test** flow returns different results when `useLabels` is set to `true` than when it is set to `false`.
QCCR1D154222	**Ant Script** flow	The **Library/Operations/Ant/Ant Script** flows' `timeout` input value is not taken into consideration when returning the results.

CR Number	Title	Description
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 `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 **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.
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.
QCCR1D157090	**vCloud** error messages	The **vCloud 5.1.x** and **vCloud 1.5** servers return different error messages than the **vCloud 1.0** server.
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.

CR Number	Title	Description
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.
QCCR1D159236	**SCVMM** error messages	When ran with invalid values for the `template`, `networkUtilization` or `cpuMax` inputs, flows return a different error message for SCVMM 2012 than for SCVMM 2008 R2.
QCCR1D166234	The iLo operation eject media generates an error on Gen8 servers	When no media is present, the **/Library/Integrations/Hewlett-Packard/Proliant iLO/Eject Virtual Media** operation results in an error on a ProLiant BL460c Gen8 server.
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	The operation "Modify Cell" found under "Library\Operations\File System\Windows only\Excel" can currently only use "," as a column delimiter for the values. This operation cannot write cell content that includes commas to an existing Excel file. 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).

CR Number	Title	Description
QCCR8C21437	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.
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
QCCR1D150481	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 Pack 7.	
QCCR1D166234	The iLo operation eject media generates an error on Gen8 servers	
QCCR1D169148	Add inputs for specifying the NIC port group to the Create Virtual Machine operation	The Create Virtual Machine operation does not work correctly. You can create a VM to be bound to a specific network or db port group. In this way, VMs can be created on the mgmt network, which should not be allowed.
QCCR1D170775	Solve Spring Comparator Description Issues	In CP4, the Library/Email/Send Mail operation used the comma as a delimiter, in CP11 this has changed, the operation now has an input value of "delimiter" and the default value is ; Because of this change the customer flows that use the send mail have stopped working.
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.	
QCCR1D171780	After updating to Content Pack 11 the operation HTTP Post found at "/Library/Operation/HTTP Client" fails with invalid input length	
QCCR1D172406	When using Import OVF operation, the operation incorrectly assumes at least one network exists on the target	
QCCR1D172407	Add an "thinProvision" input for the operation 'Library/Integrations/VMware/VMware Virtual Infrastructure and vSphere/Virtual Machines/Create Virtual Machine' to allow the creation of virtual disks as thin provisioned ones.	

CR Number	Title	Description
QCCR1D172408	HTTP Client NTLM authentication fails when both "negotiate" and "ntml" are enabled as windows authentication types on server	**Description**: In order to integrate with SharePoint 2010, NTLM authentication is mandatory. OO fails to import the wsdl as "Negotiate" and "NTLM" are set as providers. All HTTPClient based operations fail to communicate with the SharePoint Server. **Fix:** Change the NTLM engine from the default httpclient, to JCIFSEngine. This requires jcifs-1.3.17.jar.
QCCR1D172426	The HTTP Client based operations should be able to correctly handle URLs without adding extra characters	**Fix:** Fixed by a hotfix that changes the way the URL is built. It left the original query intact and appended just the query params provided by 'queryNamesList'. (empty params from 'queryNamesList' are still appended as name1=&name2=)
QCCR1D172436	After updating to CP10 the operation "/Library/Integrations/VMware/VMware Virtual Infrastructure and vSphere/Virtual Machines/Configuration/Configure NIC on VM" will fail when trying to change the netNicType.	
QCCR1D173789	Add Support for VMware vSphere 5.5.	
QCCR1D175304	The default delimiter for the Send mail operation has changed from 9.04 to CP11	In CP4 the Library/Email/Send Mail operation used the comma as a delimiter, in CP11 this has changed, the operation now has an input value of "delimiter" and the default value is ; Due to this change the customer flows that use the send mail have stopped working.
QCCR1D175472	Add VMware Operation or modify the existing ones to be able to modify the IP and the hostname of a virtual machine	
QCCR1D175863	HP Solutions: Some CDA Operations do not support an https connnection.	

CR Number	Title	Description
QCCR1D175706	VMware operation "Get Guest Info" throws a null pointer exception	When using the operation "/Library/Integrations/VMware/VMware Virtual Infrastructure and vSphere/Guest/Get Guest Info", if the VM is not running (Powerstate=poweredOff), this operation fails with a null pointer exception, and does not display an error message.
QCCR1D175707	Add input to specify "VM Version" for operation "Create Virtual Machine"	
QCCR1D176014	Create new VMWare vCenter operation to modify the SCSI Controller	
QCCR1D176016	Enhancement Request : Set Annotation in VMware operation	
QCCR8C21914	The default delimiter for the Send mail operation has changed from 9.04 to CP11	In the past versions, the Library/Email/Send Mail operation used the comma as a delimiter. In CP11 this changed, the operation now has an input value of "delimiter" and the default value is ; Because of this change the customer flows that use the send mail have stopped working. During the merged of hotfix described in QCCR1D135788, the default delimiter used previously (the comma ,) was switched to semicolon ;. The comma character (,) is the character to be used when multiple addresses are used in the recipient field.
QCCR8C21438	After updating to Content Pack 11 the operation HTTP Post found at "/Library/Operation/HTTP Client" fails with invalid input length.	After installation of Content Pack 11, running a flow that contains the operation HTTP Post found at " /Library/Operation/HTTP Client" fails and an error message displays.