

# HP Operations Orchestration

For the Windows and Linux operating systems

Software Version: Content Pack 9

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## Release Notes

Document Release Date: July 2012

Software Release Date: July 2012



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# Introduction

This document provides an overview of the changes made to HP Operations Orchestration Content Pack 9. It contains important information not included in the manuals or in online help. This is an English language release.

OO Content Pack 9 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

### Integrations

#### HP Application Lifecycle Management

Application Lifecycle Management (ALM) is a highly configurable product, that can be customized to meet specific usability needs. The HP Operations Orchestration (OO) ALM Integration, located in the **Library/Integrations/Hewlett-Packard/Application Lifecycle Management** folder, consists of a series of flows and operations that are also adaptable, to address the specific configuration of your ALM project.

The ALM integration enables you to perform various operations on ALM entities. You can further author the out of the box flows by adding additional inputs and extending the collection of fields with those that are needed in a specific environment.

The ALM integration uses the ALM REST API to integrate with OO. The API is accessed through the OO HTTP Client operations, by executing HTTP GET, PUT, POST, and DELETE methods according to the specifications in the *HP ALM REST API Reference* document.

The supported version is 11.00. See the **CP9 Application Lifecycle Management Integration Guide** for information on the available content.

#### HP Continuous Delivery Automation

The HP Continuous Delivery Automation (CDA) integration, located in the **Library/Integrations/Hewlett-Packard/Continuous Delivery Automation** folder, provides:

- OO operations.
- Application/topology deployment (or undeployment) in CDA systems based on the pre-defined or pre-configured logical models of platforms, applications, and topologies in the CDA systems.

Also included in the OO-CDA integration are the operations that are used to find:

- Applications, application versions, and recipes.
- Software artifact details and deployable software artifact bundles.
- Platform models, stored parameters, and provisioned platforms.
- Application topologies, deployed application topologies, and deployment progress.

This discovered information can be used as inputs to the operations of provisioning (or deprovisioning) platform and application topology deployment (or undeployment).

Regarding the infrastructure module of CDA, OO includes a set of operations that allow the user to create, list, get details, update, and delete:

- Servers.
- Server Groups.
- Templates.

The supported version is 1.00.1. See the **CP9 HP Continuous Delivery Automation Integration Guide** for information on the available content.

## Amazon S3

Amazon Simple Storage Service (S3) is storage for the Internet. It is designed to make web-scale computing easier for developers. The Amazon S3 integration, located in the **Library/Integrations/Amazon/S3** folder, enables administrators to create OO flows that are integrated with Amazon S3.

Amazon S3 provides a simple web service interface that can be used to store and retrieve any amount of data, at any time, from anywhere on the web. It gives any developer access to the same highly scalable, reliable, secure, fast, inexpensive infrastructure that Amazon uses to run its own global network of web sites. The service aims to maximize benefits of scale and to pass those benefits on to developers.

The OO Integration with the Amazon S3 service uses REST-based requests to automate some of the service's basic functionalities on buckets. In addition, it comes with a complete set of operations that enable the launching of upload tasks in your S3 account. The existing operations can be used to further develop similar scenarios. The integration contains also authorization support through an operation that calculates the Amazon signature.

To learn how to create OO flows, see the *Studio Guide to Authoring Operations Orchestration Flows* in the documentation set for the current OO release. The S3 integration uses the S3 REST API released on 2006-03-01 to integrate with OO. To use this integration successfully, you need S3 technology knowledge .

See the **CP9 Amazon S3 Integration Guide** for information on the available content.

## Supported versions

### Citrix XenServer 6

Added support for Citrix XenServer version 6.

See the **CP9 Citrix XenServer Integration Guide** for information on the available content.

### HP SiteScope 11.20

Added support for HP SiteScope version 11.20.

See the **CP9 HP SiteScope Integration Guide** for information on the available content.

## RHEL 6.2

Added support for Red Hat Enterprise Linux version 6.2.

## Enhancements

### Citrix XenServer

Added the following enhancements:

- The VM management related operations in the **Library/Integrations/Citrix XenServer/VM** no longer require a `VM Pool Admin` user privilege. The `VM Power Admin` user privilege is now enough.
- The **Library/Integrations/Citrix XenServer/Network/Virtual Network Interfaces/Modify VIF** operation, to modify an existing VM Network Adapter's Device, MAC and Network attributes.
- The **Library/Integrations/Citrix XenServer/Storage/Virtual Disk Images/Modify VDI** operation, to modify the virtual disk size, name and description of a VDI object.
- The **Library/Integrations/Citrix XenServer/VM/Edit VM** to modify the memory and vCPUs of a VM operation.
- The **Library/Integrations/Citrix XenServer/Samples/Get VIF from deviceID and VM** sample flow.

See the **CP9 Citrix XenServer Integration Guide** for information on the available content.

### HTTP Client operations

Added the **Library/Operations/HTTP Client/Http Client Put Binary** operation, which uploads a defined sequence of bytes from a file.

### HP Operations Orchestration

Added the **Library/Integrations/Hewlett-Packard/Operations Orchestration/Flow Execution/Samples/Get Integration Flows Run History** sample flow.

### Rhino scriptlets

The following operations now use `Rhino` scriptlets instead of `Sleep`:

- **Library/Utility Operations/Flow Variable Manipulation/Clear Flow Variable**
- **Library/Utility Operations/Flow Variable Manipulation/Clear Global Flow Variable**
- **Library/Utility Operations/Flow Variable Manipulation/Set Flow Variable**
- **Library/Operations/Operating Systems/Windows/Remote Command Execution**
- **Library/Operations/Operating Systems/Windows/Ping**
- **Library/Operations/Operating Systems/Windows/Trace Route**



## Content Pack 9 documentation

The Content Pack 9 documentation set includes the following:

- Application Lifecycle Management Integration Guide
- HP Continuous Delivery Automation Integration Guide
- Citrix XenServer Integration Guide
- HP SiteScope Integration Guide
- Amazon S3 Integration Guide
- HP Operations Orchestration Integration Support Matrix
- HP Operations Orchestration Operations and Flows

# Installing OO Content Pack 9

## IMPORTANT:

- You must install OO Content Pack 9 on an existing OO platform version of 9.00.01 (or later – see table below).
- You can install OO Content Pack 9 on top of an existing Content Pack 8 content installation. Use platform 9.00 and the patches listed in the following table:

Content	Patch level
OO Content Pack 9	9.00.01
OO Content Pack 9	9.00.02
OO Content Pack 9	9.02 + 9.02.0002
OO Content Pack 9	9.03 + 9.03.0001
OO Content Pack 9	9.04
OO Content Pack 9	9.05

- 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 9 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 9 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 9.
- Although you can install OO Content Pack 9 manually, it is recommended that you install OO Content Pack 9 using the HP Live Network Connector.

## Installing OO Content Pack 9 Using the HP Live Network Connector

**Tip:** If you encounter a RAS update error during the following procedure, do the installation procedure again.

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, and then press ENTER:

```
live-network-connector download
```

3. At the same location, type the following, 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.

## Installing OO Content Pack 9 Manually

If you are installing OO Content Pack 9 manually, use one of the following methods.

**Note:** In the following procedure, when you run **OO\_Content\_Pack\_9\_Installer.jar**, you will see errors about being unable to update the RAS. The installer will retry, and the installation will continue. As long as you complete the procedure, you can ignore these messages.

## Installing OO Content Pack 9 on a Local Central Server

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 9.
4. Navigate to and copy the OO Content Pack 9 Installer version of **OO\_Content\_Pack\_9\_Installer.jar** to the OO home directory in the `\jre1.6\bin` folder.
5. Click the **Start** menu, and then click **Run**.
6. In the Run dialog box, type `cmd` and then click **OK**.
7. In the command window, change to the OO home directory in the `\jre1.6\bin` folder, and then type:

```
java -jar OO_Content_Pack_9_Installer.jar -centralPassword <your  
Central password>
```

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

Note the following:

- On Windows 2008 and Windows 2008 R2 servers, you must have administrative privileges to install OO Content Pack 9. 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 username other than the default admin, use the `-centralUsername` parameter in the command shown in step 7 of the previous procedure as follows:

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```
java -jar OO_Content_Pack_9_Installer.jar -centralUsername <non-  
default Central username> -centralPassword <your Central password>
```

For example:

```
java -jar OO_Content_Pack_9_Installer.jar -centralUsername sysadmin  
-centralPassword iconclude
```

- If you are installing OO Content Pack 9 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_9_Installer.jar -centralURL <non-default  
Central URL> -centralPassword <your Central password>
```

For example:

```
java -jar OO_Content_Pack_9_Installer.jar -centralURL  
https://central_server1:8080 -centralPassword iconclude
```

- To install OO Content Pack 9 even if there are conflicts between versions of operations, use the **-forceInstall** parameter in the command shown in step 7 of the previous procedure as follows:

```
java -jar OO_Content_Pack_9_Installer.jar -forceInstall -  
centralPassword<your Central password>
```

For example:

```
java -jar OO_Content_Pack_9_Installer.jar -forceInstall -  
centralPassword iconclude
```

## Installing OO Content Pack 9 on a Remote Central Server

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 9.
4. Navigate to and copy the OO Content Pack 9 Installer version of **OO\_Content\_Pack\_9\_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. In the command window, change to the temporary directory, and then type:

```
java -jar OO_Content_Pack_9_Installer.jar -centralURL <remote  
Central URL> -centralPassword <your Central password>
```

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

Note the following:

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- On Windows 2008 and Windows 2008 R2 servers, you must have administrative privileges to install OO Content Pack 9. 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.

## Known Issues

Title and QC ID	Description
F5 Integration QCCR1D85010	The <b>F5 integration</b> does not support non-alphanumeric passwords because the password is placed in an HTML GET string. The non-alphanumeric characters break the GET string and, as a result, cannot be used in the password.
Remote Command Execution operation QCCR1D130530	The <b>Library/Operations/Operating Systems/ Windows/Remote Command Execution</b> operation fails on a Windows English operating system when <code>characterSet</code> is UTF-8/UTF-16. Currently, you can only use one type to encode the batch files executed by <code>cmd.exe</code> and read the redirected file output. Some programs encode their output as Unicode (UTF-16), but <code>cmd.exe</code> cannot execute batch files that are Unicode (UTF-16) encoded.
UpdateAssignedTo operation QCCR1D131214	The <b>Library/Integrations/Hewlett-Packard/Network Node Manager/9.0/Incidents/UpdateAssignedTo</b> operation fails with exception fault <code>Cannot interrogate model</code> . The operation, should return success and change the <code>assignTo</code> value to the one specified as input value.
Divider operation QCCR1D135408	The <b>Library/Utility Operations/Math and Comparison/Simple Evaluators/Divider</b> operation completes successfully when a division by zero occurs, and the result is infinity. The operation has been modified to check whether the divisor is zero. If the divisor is zero, the operation fails.
Divider operation QCCR1D135409	When you use the <b>Library/Utility Operations/Math and Comparison/Simple Evaluators/Divider</b> operation to divide 0.0 by 0.0, the operation fails with the message: <code>BigInteger divide by 0</code> .
Description for <code>includePaths</code> in RepositorySync Plugin QCCR1D138276	The <b>RepositorySync</b> plugin description in the <b>Library/Integrations/Hewlett-Packard/Operations Orchestration/Repository</b> 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 <b>My Ops Flows</b> , the input should be <b>Library/My Ops Flows</b> . The same description should apply to <code>excludePaths</code> (paths to exclude).
Set System Account and Set System Property operations QCCR1D138282	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 <b>Library/Integrations/Hewlett-Packard/Operations Orchestration/Set System Account</b> operation. The same behavior is found for the <b>Library/Integrations/Hewlett-Packard/Operations</b>

Title and QC ID	Description
	<b>Orchestration/Set System Property</b> operation.
Base64 Decoder operation QCCR1D138299	The <b>Library/Utility Operations/Base64 Decoder</b> 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.
Upload DS File flow in VMware QCCR1D141122	The <b>Library/Integrations/VMware/VMware Virtual Infrastructure and vSphere/Datastore/Upload DS File</b> flow cannot upload a file on a vCenter datastore root folder. It can do so on the folders within the root folders.
Non ASCII characters in vCloud Integration QCCR1D141410	Non ASCII characters are not supported in the vCloud Integration - <b>vCloud</b> failed to recognize a VM whose name contains Japanese characters. An error message appears when vCloud operations receive Japanese characters as input: <code>The request is not properly encoded.</code>
Non ASCII characters in vCloud Integration QCCR1D141413	Non ASCII characters are not supported in the vCloud Integration - <b>vCloud</b> failed to create a catalog named with Japanese characters. An error message appears when vCloud operations receive Japanese characters as input. The following error message is returned: <code>The request is not properly encoded.</code>
Non ASCII Characters in vCloud Integration QCCR1D141415	Non ASCII characters are not supported in the vCloud Integration - <b>vCloud</b> failed to modify an Organization whose description contains Japanese characters. An error message appears when vCloud operations receive Japanese characters as input: <code>The request is not properly encoded.</code>
VM Identifier QCCR1D142020	<p>The <b>Library/Integrations/VMware/VMware Virtual Infrastructure and vSphere/Snapshots/Revert To Snapshot</b> operation returns the <code>No virtual machine snapshot tree found</code> result when two or more virtual machines have the same name, using the VM identifier type <code>NAME</code>, and the <code>virtualMachine</code> input is equal to a system with multiple snapshots.</p> <p>Using the VM identifier type <code>NAME</code> is not recommended in environments where it is possible to have two or more virtual machines with the same name. For these environments, the recommended identifier type is <code>INVENTORYPATH</code>.</p>
Get Schedule Details operation QCCR1D145666	The <b>Library/Integrations/Hewlett-Packard/Operations Orchestration/Get Schedule Details</b> 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.
Get Flow Schedules operation	The <b>Library/Integrations/Hewlett-Packard/Operations Orchestration/Get Flow Schedules</b> operation fails when executed from the local repository against OO 9.03. This is due to the changes

Title and QC ID	Description
QCCR1D145671	that took place in OO 9.03 when the Scheduler was unified with Central.
Delete Flow Schedule operation QCCR1D145672	The <b>Library/Integrations/Hewlett-Packard/Operations Orchestration/Delete Flow Schedule</b> 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.
Schedule Flow operation QCCR1D145676	The <b>Library/Integrations/Hewlett-Packard/Operations Orchestration/Schedule Flow</b> 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.
OO Samples Self Integration QCCR1D145993	<p>As stated in their description, the <b>Library/Integrations/Hewlett-Packard/Operations Orchestration/Flow Execution/Samples/Filter Flow Runs by Status</b> and <b>Library/Integrations/Hewlett-Packard/Operations Orchestration/Flow Execution/Samples/Get Last Run Status</b> flows can run only from Central, and not from Studio. However, the folder location (for example, <b>Library/Integrations</b>) is hidden in Central.</p> <p>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.</p>
Error occurs in RAS log after applying CP9 QCCR1D146456	<p>After applying CP9, the following error is logged in <b>%!CONCLUDE_HOME%/RAS/Java/Default/webapp/logs/wrapper.log</b>:</p> <pre>Error fetching actions from assembly: Microsoft.GroupPolicy.Management, Version=2.0.0.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35: at System.Reflection.Module._GetTypesInternal (StackCrawlMark&amp; stackMark)  Errors while trying to load actions from assembly: C:\Program Files\Hewlett-Packard\Operations Orchestration\RAS\Java\Default\repository\ Microsoft.GroupPolicy.Management.Interop.dll: at com.iconclude.agent.RCAgentImpl. CreateActionProxies(String fullname)</pre> <p>As the <b>Microsoft.GroupPolicy.Management.dll</b> file does not contain any actions, this exception can safely be ignored.</p>
Find Builds For Realized Topology operation QCCR1D148092	Instead of failing when given a bad value for the realizedTopologyId input, the <b>Library/Integrations/Hewlett-Packard/Continuous Delivery Automation/Topology/Find Builds For Realized Topology</b> operation goes to success, without returning any results.



Title and QC ID	Description
Trigger Deploying Topology To Realized Platform operation QCCR1D148109	The <b>Library/Integrations/Hewlett-Packard/Continuous Delivery Automation/Topology/Trigger Deploying Topology To Realized Platform</b> 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.
Redeploy Template operation QCCR1D149566	The <b>Library/Integrations/Hewlett-Packard/SiteScope/9.x and 10.x and 11.00/Redeploy Template</b> operation fails with <code>NullPointerException</code> when the destination path is invalid.
Get and Put operations QCCR1D150265	The <b>Library/Operations/Remote File Transfer/FTP/Get</b> and <b>Library/Operations/Remote File Transfer/FTP/Put</b> operations complete successfully even if given invalid values for the <code>type</code> input.
Get Application Versions and Get Applications operations QCCR1D150307	<p>The <b>Library/Integrations/Hewlett-Packard/Continuous Delivery Automation/Application/Get Application Versions</b> operation fails with <code>NullPointerException</code> when the <code>applicationId</code> input is left empty.</p> <p>The <b>Library/Integrations/Hewlett-Packard/Continuous Delivery Automation/Application/Get Applications</b> operation fails with <code>NullPointerException</code> when <code>filterBy</code> is assigned <code>byApplicationId</code> and <code>value</code> is assigned the value from the defect description.</p>
Read Defect Links flow QCCR1D150542	The <b>Library/Integrations/Hewlett-Packard/Application Lifecycle Management/Defects/Read Defect Links</b> flow does not return values for the <code>defectLinks</code> result fields.
Read Test flow QCCR1D150695	The <b>Library/Integrations/Hewlett-Packard/Application Lifecycle Management/Test Plan/Read Test</b> flow returns different results when <code>useLabels</code> is set to <code>true</code> than when it is set to <code>false</code> .
HTTP Client operations QCCR1D150878	The <b>Library/Operations/HTTP Client</b> operations do not support passing multiple values to query parameters. Only a single value can be associated to a query parameter having a particular name.

## 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.

Title and QC ID	Description and Fix
<p>The <b>Get Details of Disk on VM</b> operation displays a confusing error message when supplied with a bad input value for <code>deviceNumber</code>.</p> <p>QCCR1D140808</p>	<p><b>Description:</b> The <b>Library/Integrations/VMware/VMware Virtual Infrastructure and vSphere/Virtual Machines/Configuration/Get Details of Disk on VM</b> operation displays a confusing error message when supplied with a bad input value for <code>deviceNumber</code>. Currently, if <code>deviceNumber</code> is given the bad value <code>one</code>, the operation responds: <code>Result = For input string: "one" Exception = java.lang.NumberFormatException: For input string: "one"</code></p> <p><b>Fix:</b> The error message has been enhanced to be more descriptive and include the name of the invalid input.</p>
<p>The <b>XPath Query</b> operation returns an empty result if the evaluation is an XML node.</p> <p>QCCR1D141499</p>	<p><b>Description:</b> The <b>Library/Utility Operations/XML Processing/XPath Query</b> operation returns an empty result if the evaluation is an XML node</p> <p><b>Fix:</b> <b>XPath Query</b> now returns a value as stated in the operation description.</p>
<p>The <b>Rename VM Folder</b> operation fails without presenting an error message when the <code>name</code> input is too long.</p> <p>QCCR1D141948</p>	<p><b>Description:</b> When provided with an invalid value for the <code>name</code> input, the <b>Library/Integrations/VMware/VMware Virtual Infrastructure and vSphere/Virtual Machines/Rename VM Folder</b> operation fails, as it should, but does not produce an error message indicating failure reason.</p> <p><b>Fix:</b> The <code>name</code> input is validated not to exceed 80 characters in length. If it does, the following error message is returned: <code>New name for folder is too long. Folder names cannot exceed 80 characters.</code></p>
<p>The <b>Advanced Search</b> operation cannot find datstores from a Cluster Compute Resource.</p> <p>QCCR1D145469</p>	<p><b>Description:</b> The <b>Library/Integrations/VMware/VMware Virtual Infrastructure and vSphere/Utilities/Advanced Search</b> operation returns a list of host systems if the <code>ClusterComputeResource</code> value is assigned to the <code>propsRootObjType</code> input and <code>HostSystem</code> to <code>propsType</code>. If <code>Datastore</code> is assigned to <code>propsType</code>, <b>Advanced Search</b> always responds with a <code>no more</code> response with no datastores, even if the cluster does have listed datastores.</p> <p><b>Fix:</b> When <code>propsRootObjType</code> is <code>ComputeResource</code> or <code>ClusterComputeResource</code>, the <b>Advanced Search</b> operation</p>

Title and QC ID	Description and Fix
	now supports <code>propsType Datastore</code> and <code>Network</code> values.
<p>The <b>HTTP client GET</b> and <b>POST</b> operations' form authentication is not working.</p> <p>QCCR1D145621</p>	<p><b>Description:</b> The <b>Library/Operations/HTTP Client/Http Client Get</b> and <b>Library/Operations/HTTP Client/Http Client Post</b> operations are not working with form authentication configured through <code>spring</code>.</p> <p><b>Fix:</b> Added <code>spring</code> form authentication for HTTP Client operations.</p>
<p>The <b>Create VMFS Datastore</b> operation returns a <code>NullPointerException</code> when the <code>name</code> input is assigned the canonical name of an available LUN.</p> <p>QCCR1D145969</p>	<p><b>Description:</b> The <b>Library/Integrations/VMware/VMware Virtual Infrastructure and vSphere/Host/Storage/Create VMFS Datastore</b> operation returns a <code>NullPointerException</code> when the <code>name</code> input is assigned the canonical name of an available LUN. The canonical name is obtained from the <b>Library/Integrations/VMware/VMware Virtual Infrastructure and vSphere/Host/Storage/Get Available LUNS on Host for VMFS</b> operation.</p> <p><b>Fix:</b> In this scenario, the <b>Create VMFS Datastore</b> operation now returns a descriptive error, similar to that returned by the <code>vSphere Client: The specified disk already has a VMFS datastore or the host cannot perform a partition table conversion.</code></p>
<p>The <b>Clone Virtual Machine</b> step in the <b>Clone Virtual Machine to Template</b> flow is not updated.</p> <p>QCCR1D146396</p>	<p><b>Description:</b> The <b>Library/Integrations/VMware/VMware Virtual Infrastructure and vSphere/Virtual Machines/Clone Virtual Machine to Template</b> flow's step, <b>Clone Virtual Machine</b>, is not updated (gray input).</p> <p><b>Fix:</b> The <b>Library/Integrations/VMware/VMware Virtual Infrastructure and vSphere/Virtual Machines/Clone Virtual Machine to Template</b> and <b>Library/Integrations/VMware/VMware Virtual Infrastructure and vSphere/Virtual Machines/Deploy Virtual Machine from Template</b> flows have been updated with a <code>thinProvisioning</code> input, introduced in CP8 for the <b>Library/Integrations/VMware/VMware Virtual Infrastructure and vSphere/Virtual Machines/Clone Virtual Machine</b> operation.</p>
<p>The <code>InvokeMethod</code> does not replace placeholders from XML node attributes.</p> <p>QCCR1D146398</p>	<p><b>Description:</b> The <code>InvokeMethod</code> does not replace placeholders from XML node attributes.</p> <p><b>Fix:</b> The <code>InvokeMethod</code> now processes the attributes at node level.</p>
<p>The <b>Create Security Group Rule</b> flow fails after prompting for a <code>file</code> input value.</p>	<p><b>Description:</b> The <b>Library/Integrations/OpenStack/Compute/Security Groups/Create Security Group Rule</b> flow prompts users for a <code>file</code> input, causing flow failure.</p>

Title and QC ID	Description and Fix
QCCR1D146507	<b>Fix:</b> The <b>Create Security Group Rule</b> flow does not prompt users for the <code>file</code> input.
<p>The <b>Create VMFS Datastore</b> operation fails with an <code>InvalidRequest</code> error when given valid inputs.</p> <p>QCCR1D146615</p>	<p><b>Description:</b> When given valid inputs on a <b>vSphere 4.1.0 vCenter</b>, the <b>Library/Integrations/VMware Virtual Infrastructure and vSphere/Host/Storage/Create VMFS Datastore</b> operation fails with an <code>InvalidRequest</code> error. The datastore can be successfully added through the vCenter User Interface.</p> <p><b>Fix:</b> When given valid inputs on a <b>vSphere 4.1.0 vCenter</b>, <b>Create VMFS Datastore</b> now successfully adds the datastore to the host.</p>
<p>The <b>Http Client Get</b> operation does not work with the <b>HTTPS URL - REST Interface</b>.</p> <p>QCCR1D147525</p>	<p><b>Description:</b> The <b>Library/Operations/HTTP Client/Http Client Get</b> operation does not work with the <b>HTTPS URL - REST Interface</b> because Java 6 sends a <code>sslv2hello</code> message which misleads servers and ends up in a <code>ssl handshake</code> failure.</p> <p><b>Fix:</b> The message is now disabled and the operation works.</p>
<p>The <b>HTTP Client Get</b> operation adds a default port (80) to the <code>url</code> input.</p> <p>QCCR1D149638</p>	<p><b>Description:</b> The <b>Library/Operations/HTTP Client/Http Client Get</b> operation adds a default port (80) to the <code>url</code> input. As a result, the operation fails with a <code>page not found</code> error.</p> <p><b>Fix:</b> <b>HTTP Client Get</b> no longer adds the default port to the <code>url</code> input.</p>
<p>The <b>HTTP Client Post Raw</b> operation adds a default port (80) to the <code>url</code> input.</p> <p>QCCR1D149841</p>	<p><b>Description:</b> The <b>Library/Operations/HTTP Client/Http Client Post Raw</b> operation adds a default port (80) to the <code>url</code> input. As a result, the operation fails.</p> <p><b>Fix:</b> <b>HTTP Client Post Raw</b> no longer adds the default port to the <code>url</code> input.</p>