
HP Operations Orchestration

for the Windows and Linux operating systems

Release Notes

Software version: OO Content Pack 7/January 2012

This document provides an overview of the changes made to HP Operations Orchestration for the OO Content Pack 7 version which is a content only release. It contains important information not included in the manuals or in online help.

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New Operations and Operation Updates

Active Directory

Starting from this release the operations from /Library/Operations/Active Directory folder and the flows under /Library/Accelerator Packs/Active Directory support Active Directory on Windows 2008 R2

JSON

Several operations were added in order to support JSON arrays manipulation:

- Add Object to Array - Adds a JSON object to a JSON array. Should be able to add to a specified index.
- Add to Array - Adds a string to a JSON array. Should be able to add to a specified index.
- Array Size - Returns the number of elements in the JSON Array
- Get Array Entry - Returns the element at the specified index of the JSON Array
- Convert Object to Flow Variables - Should be enhanced to add an optional prefix to flow variables.
- Remove Array Entry - Returns a JSON array without the specified index element.
- Get Array Sublist - Returns a sublist JSON array from a larger JSON array between specified indices.

You can find them in the /Library/Utility Operations/Containers/JSON folder

Invoke Method 2

The operation /Library/Operations/Wizards/Web Service/Invoke Method 2 now supports NTLMv2 authentication.

In addition returnXMLRequest input was documented: if set to true, then a new output will be returned from the operation, named rawXMLRequest, containing the text of the SOAP request that will be send. This can be very valuable in troubleshooting

Citrix XenApp

The following new inputs have been added to the **Modify Application** operation in the **Library/Operations/Application Servers/Citrix XenApp** folder to allow you to modify additional properties.

- **anonymousConnectionsAllowed** specifies whether to allow anonymous user connections for the application.
- **sslConnectionEnabled** specifies whether to enable SSL connections for this application.
- **multipleInstancesPerUserAllowed** specifies whether to allow multiple session instances by the same user.
- **addToClientStartMenu** specifies whether to add the published application to client system's Windows Start menu.
- **addToClientDesk** specifies whether to add a shortcut to the client's desktop.

Excel

For Library/Operations/File System/Windows Only/Excel folder:

1. A new operation "Get Row Index by Condition" was added to allow the user to retrieve row indexes if the row satisfies the specified condition in an Excel document.
2. Three operations Get Cell, Delete Cell and Modify Cell replaced Get Excel Data, Delete Excel Data and Modify Excel Data. They allow the user to retrieve, delete, and modify the cell data with specified row index and column index in an Excel document.
3. Three new flows have been added:
 - Get Cell by Condition
 - Delete Cell by Condition
 - Modify Cell by Condition

These flows can be used to retrieve, delete and modify the cell which satisfies the specified condition in an Excel document.

JDBC

For all the operations in Library/Operations/Databases/JDBC folder and all the flows in Library/ Accelerator Packs/Database/Oracle and Library/Accelerator Packs/Database/Sybase folder:

1. The "instance" input has been added. It allows the user to specify the named instance for MSSQL database. We still support the old way for instance input. The user can either attach the instance name in DBServerName input or specify it in instance input, but not both.
2. The "timeout" input has been added. It is the seconds to wait before timing out the SQL command execution. The default value is 0, which means no timeout.
3. "DbPort" input has been changed to optional. The default values are: Oracle: 1521, MSSQL: 1433, Sybase: 5000, Netcool: 4100, DB2: 500000

Microsoft SQL

1. In Library/Operations/Databases/Microsoft SQL, "SQL Query" and "Get Next SQL Row" are replaced with single operation "SQL Query" . It retrieves all result rows from query execution.
2. A new operation "Close Database Connection" has been added in Library/Operations/Databases/Microsoft SQL folder. It allows user to close database connection created by "SQL Query" operation.

Exchange

A new folder, **Exchange 2007**, has been added to the **Library/Operations/Exchange** folder. This folder contains operations that work with an Exchange 2007 Server SP1 or later SP versions through Exchange Web Services API.

The following operations have been added to the **Exchange 2007** folder in the **Emails** directory:

-**Get Email List** -builds a filtered list of emails from a folder in the mailbox of a specified user.

-**Get Next Email** -retrieves the next email from the list of emails. The output emailId of the operation should be used in further steps to access the email.

-Move Email -moves an email object specified by its identifier (emailId input) from its current location to a destination folder.

-Read Attachment -the operation reads an email attachment (if it is in plain text format) to the operation's returnResult output and, if the user wants it, saves the attachment to a specified path.

-Read Email - retrieves the requested email identified by its unique identifier.

-Reply Email -replies to an email specified by its identifier.

-Send Email - sends an email.

To give an example of how the new operations can be used, the following samples have been added to the **Library/Operation/Exchange/Exchange 2007/Samples/Emails** folder:

-Read Attachment

This flow reads all the emails, including their attachments, from a specific location. The first step takes all the emails from a given folder using the **Get Email List** operation. The email list is parsed using **Get Next Email** and for each email its content is read using **Read Email**. This read operation also returns a list with the identifiers of the email attachments, identifiers used in order to read the attachment with the **Read Attachments** operation.

-Reply Email Sample

This flow sends a reply to the first email from a given folder. In order send the reply the emailId of the email is required. The **Get Email List** operation is first used to obtain a list of emails from a specific folder and afterwards the **Get Next Email** operation will parse the previously obtained list and get the identifier of the first email. The **Reply Email** operation prepends a message to the existing email body, can also add CC recipients and send the email.

HTTP Client

- When an HTTP Client operation is executed using invalid inputs, it fails and returns an exception message. This error message is not very clear and does not always tell the user what caused the error. A new **errorMessage** result that clearly states the cause of the error has been added to all of the HTTP Client operations in the Library/Operations/HTTP Client folder. The **errorMessage** result displays an informational message that may help you determine the cause of the error. If the operation executes successfully, this result is an empty string:

- Http Client Delete
- Http Client Detailed Return
- Http Client Get
- Http Client Get to File
- Http Client Head
- Http Client Multipart Post
- Http Client Options
- Http Client Post
- Http Client Post Raw
- Http Client Put
- Http Client Trace

- The real cause of the operations' failures are now reflected in the newly added **httpResult** output. Flows that use these operations can still be used without any changes.

- The HTTP Client operations have been enhanced to allow the use of the following authentication mechanisms:
 - ANONYMOUS
 - BASIC
 - NTLM
 - DIGEST
 - KERBEROS
 - FORM BASED (currently only supported for Apache Tomcat)

The **authType** input has been added to the following operations to specify the authentication type that the operation uses when trying to execute the request on the target server:

- Http Client Get
 - Http Client Get to File
 - Http Client Post
 - Http Client Post Raw
 - Http Client Put
 - Http Client Trace
 - Http Client Detailed Return
 - Http Client Head
 - Http Client Delete
 - Http Client Multipart Post
 - Http Client Options
- The **socketTimeout** input has been added to the following operations in the Library/Operations/HTTP Client folder. This input allows you to specify the number of milliseconds to wait for the data to be retrieved:
 - Http Client Get
 - Http Client Detailed Return
 - Http Client Get to File
- The **timeout** input has been updated in the following operations and flows in the Library/Operations/HTTP Client folder to allow you to specify the number of milliseconds to wait for a connection to be established. This input should be assigned a value greater than or equal to zero. A timeout value of zero is an infinite timeout. The default value is **0** (zero):
 - Http Client Get
 - Http Client Delete
 - Http Client Detailed Return
 - Http Client Get to File
 - Http Client Head
 - Http Client Multipart Post
 - Http Client Options
 - Http Client Post

- Http Client Post Raw
- Http Client Put
- Http Client Trace
- Recursive Link Checker
- Timed Get

PowerShell Script

The **PowerShell Script** operation in the Library/Operations/PowerShell folder has been updated to include new inputs and updates the **script** input to allow you to run scripts from a file.

- **host** - The hostname or ip address of the PowerShell host. This input is mutual exclusive with URI and shellURI.
- **URI** - Specifies a Uniform Resource Identifier (URI) that defines the connection endpoint for the interactive session.
- **shellURI** - Gets the Uniform Resource Identifier (URI) of the shell that is launched when the connection is made. This input is mutual exclusive with host.
- **username** - The username to use when connecting to the server.
- **password** - The password to use when connecting to the server.
- **authType** - Specifies the mechanism that is used to authenticate the user's credentials.
- **useSSL** - If true, the operation uses the Secure Sockets Layer (SSL) protocol to establish a connection to the remote computer. By default, SSL is not used. WS-Management encrypts all Windows PowerShell content transmitted over the network. UseSSL is an additional protection that sends the data across an HTTPS connection instead of an HTTP connection. Default port for SSL is 5986.
- **skipCACheck** - Indicates whether, when connecting over HTTPS, the client does not validate that the server certificate is signed by a trusted certificate authority (CA).
- **skipCNCheck** - Indicates whether the certificate common name (CN) of the server and the hostname of the server are not checked for being the same.
- **port** - Specifies the network port on the remote computer that is used for this connection. To connect to a remote computer, the remote computer must be listening on the port that the connection uses. The default ports are 5985 (the WinRM port for HTTP) and 5986 (the WinRM port for HTTPS).
- **keepSessionAlive** - If true, the operation will not close the PowerShell runspace (i.e. the PSSession in case of remote connections) created during the execution and returns the runspaceID as the result of the operation. Actually the PowerShell runspace is saved in the OO session and can be used in other operations using the runspaceID result of previous operation.
- **enablePiping** - If true the operation enables piping the way PowerShell does. This input should be used only when keepSessionAlive input is true. First time the piped objects are null and the scope is to save the objects resulted from the PowerShell script execution. Next time the piped objects can be referred in the script as "\$_" objects.
- **runspaceID** - If not empty, the operation will search the OO session for keys which equal the runspaceID. If the operation finds the runspace specified by the runspaceID it tries to use it and does not create another PowerShell runspace with provided inputs. If the runspace exists but is broken or unavailable the operation uses its authentication parameters and tries to reconnect and recreate the PowerShell runspace. Please note that the operation will use the connection parameters of the runspace identified by runspaceID, not the values provided as user inputs. The operation will take into consideration the connection inputs (i.e. host, username, password, authType, useSSL, etc.) provided by user only if the runspaceID does not exist in the OO session.

- **modules** - A list of PowerShell modules to load after the PowerShell connection is established. Each value from the list specifies the name of the module to import. Enter the name of the module or the name of a file in the module, such as a .psd1, .psm1, .dll, or ps1 file. File paths are optional. Wildcards are not permitted. Specify only the module name whenever possible. When you specify a file name, only the members that are implemented in that file are imported. If the module contains other files, they are not imported, and you might be missing important members of the module. The list of modules should be separated by comma "," delimiter.
- **snapins** - A list of PowerShell snapins to load after the PowerShell connection is established. Each value from the list specifies the name of a registered snapin (i.e. the Name, not the AssemblyName or ModuleName).
- **script** - The script to execute on the PowerShell host. If you want to execute a script from file just provide the file path.
- **cmdlet** - The name of the PowerShell cmdlet to invoke. If the cmdlet has additional parameters, please provide them as inputs to the operation. If the parameter has the same name as one of the operation's inputs just prefix it with "_". This input is intended to be used together with the PowerShell wizard so please use the script input whenever it's possible.
- **returnTable** - If true, the operation will return a table containing a row for each PSObject that the script emits. The table's columns represent the properties of these PSObjects, in the propertyName<delimiter>propertyValue format. If false the operation returns a string representation of the result similar to the output from the PowerShell console.
- **delimiter** - The delimiter used to separate each property name from the property value in the output table.
- **colDelimiter** - The delimiter used to separate columns in the output table.
- **rowDelimiter** - The delimiter used to separate rows in the output table.

New Integrations and Integration Updates

VMware vCloud

VMware vCloud content from /Library/Integrations/VMware folder now supports VMware vCloud 1.5

HP BladeSystem Onboard Administrator

- The following operations and flows have been added to the Library/Integrations/Hewlett-Packard/Onboard Administrator/OA folder:
- The folder Library/Integrations/ Hewlett-Packard/Onboard Administrator/OA/ has been added to the integration. The following operations and flows are in this folder:
 - **Clear OA Syslog** clears the Onboard Administrator system log. **Configure GUI Login Detail** enables or disables extended enclosure information available in the GUI on the login page.
 - **Configure Link Loss Failover (LLF)** enables or disables Link Loss Failover (LLF) for Onboard Administrator redundancy and sets the Link Loss Failover interval.
 - **Get Config** gets the script required to recreate the settings of the enclosure. Passwords are not included for any user.
 - **Get Date** gets the current date, time, and time zone of the internal clock.
 - **Get OA Information** gets the available information for the OA which include its information, network, status, uptime, USB, and certificate.

- **Get OA Syslog** gets the OA syslog information.
- **Get Syslog History** gets the extended system log history for the Onboard Administrator.
- **Get VCmode** gets the Virtual Connect mode settings.
- **Set Date** sets the date, time, and timezone.
- **Set OA Name** sets the Onboard Administrator name (DNS host name).
- **Set OA UID LED** turns the Onboard Administrator UID LED on or off.
- **Set Time Zone** sets the time zone.

The folder Library/Integrations/ Hewlett-Packard/Onboard Administrator/Network has been added to the integration. The following operations and flows are in this folder:

- Add OA Address IPv6
- Add OA DNS IPv4
- Add OA DNS IPv6
- Add SNMP Trapreceiver
- Clear NTP
- Clear SSH Key
- Configure Alert Mail
- Configure DHCPv6
- Configure Enclosure IP Mode
- Configure HTTPS
- Configure IPv6
- Configure NTP
- Configure Router Advertisements
- Configure SNMP
- Configure Telnet
- Configure Trusted Host
- Configure XML Reply
- Get Network
- Get SNMP
- Get SSH Encryption
- Get SSH Fingerprint
- Get SSH Key
- Remove OA Address IPv6
- Remove OA DNS IPv4
- Remove OA DNS IPv6
- Remove SNMP Trapreceiver
- Remove Trusted Host

- Set IPCONFIG DHCP
- Set IPCONFIG Static
- Set OA Gateway
- Set SSH Encryption
- Set SSH Key
- Set Trusted Host
- Test Alert Mail
- Test SNMP

VMware Virtual Infrastructure and vSphere

The following flows have been added to the [Library/Integrations/VMware/VMware Virtual Infrastructure and vSphere/Cluster](#) folder:

- **Get Hosts in Cluster** returns a list of ESX or ESXi host systems in a cluster.
- **Get VMs in Cluster** returns a list of virtual machines (VMs) in a cluster.
- The folder [Library/Integrations/VMware/VMware Virtual Infrastructure and vSphere/ Datastore](#) has been added to the integration. The following operations and flows are in this folder:
 - **Copy DS Path** copies the source file or folder to the destination.
 - **Create DS Directory** creates the specified folder.
 - **Delete DS Path** deletes the specified file or folder from the datastore.
 - **Download DS Directory** downloads files or folders from the folder in the datastore path to the specified local path.
 - **Download DS Directory Multi Thread** downloads files or folders from the folder in the datastore path to the specified local path. The **Download File** step is multi-instance and throttled to four threads.
 - **Download DS File** downloads the datastore path and saves it to the specified file.
 - **FS Get Children Enhanced** gets a list of files and folders that reside in a directory.
 - **Generate DS Url** generates a datastore URL.
 - **Get DS Children** gets a list of files and folders in a directory.
 - **Is DS Directory** checks to see if a path points to a directory.
 - **Move DS Path** moves the source file or folder to the destination.
 - **Upload DS Directory** uploads files or folders to the datastore path from the specified folder in the local path.
 - **Upload DS Directory Multi Thread** uploads files or folders to the datastore path from the specified folder in the local path. The **Upload File** step is multi-instance and is throttled to four threads.
 - **Upload DS File** uploads a file to the datastore from the specified file.
- The following operations have been added to the [Library/Integrations/VMware/VMware Virtual Infrastructure and vSphere/Host](#) folder:
 - **Add Host** adds a new ESX or ESXi host.

- **Disconnect Host** disconnects from a ESX or ESXi host.
- **Reconnect Host** reconnects to a ESX or ESXi host.

HP SiteScope

- New operations were added in the SiteScope integration to enhance the work with Monitor, Monitor Groups and Server Profiles.
- The following new operations were added in the Library/Integrations/Hewlett-Packard/SiteScope/9.x and 10.x and 11.00 folder:
 - Delete Remote Server
 - Get Monitors Deployed At
 - Is Monitor Group Empty

HP Universal CMDB

- The UCMDB operations have now a new input “protocol” that enables the user to specify the protocol to connect to the UCMDB server.
Valid Values: http, https
Default value: http
- A new operation called Get Server Status was created under /Library/Integrations/Hewlett-Packard/Universal CMDB.
- Three new operations were created under /Library/Integrations/Hewlett-Packard/Universal CMDB/Discovery folder. They are:
 - Get Context-based Discovery Status
 - Stop Context-based Discovery
 - Trigger Context-based Discovery

These operations can be used to trigger, to stop, or to obtain status of the discovery tasks/jobs associated with the given context. Currently these discovery operations are only available and supported for UCMDB/DDM 9.x.

Wizards

OO Content Pack 7 includes the [PowerShell Wizard](#). It enables users to discover PowerShell cmdlets available on certain hosts and then to generate HP Operations Orchestration flows.

[Web Services Wizard](#) has also been improved.

For more information and to download, check the HP Operations Orchestration Content Pack 7/Wizards folder on HP Live Network: <https://hpln.hp.com/>

Documentation Updates

The first page of this release notes document contains the following identifying information:

- Version number, which indicates the software version.
- Publish date, which changes each time the document is updated.

HP Live Network provides an Operations Orchestration Community page where you can find and download supported releases of OO and associated documents.

To download OO releases and documents, visit the following site:

<https://hpln.hp.com/>

This site 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.

On the HP Live Network page, click Operations Orchestration Community.

The Operations Orchestration Community page contains links to announcements, discussions, downloads, documentation, help, and support.

Note: To view files in PDF format (*.pdf), Adobe Acrobat Reader must be installed on your system. To download Adobe Acrobat Reader, go to the following Web site:

<http://www.adobe.com/>

Installing OO Content Pack 7

IMPORTANT:

- You must install OO Content Pack 7 on an existing OO platform version of 9.00.01 (or later – see table below).
- You can install OO Content Pack 7 on top of an existing OO 9.00.06 content installation.
- 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 7 release, we recommend that you 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 7 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 7.

Content	Platform and Patch Level
Content Pack 7	9.00 + 9.00.01 patch
Content Pack 7	9.00 + 9.00.02 patch
Content Pack 7	9.00 + 9.02 patch + 9.02.0002 patch
Content Pack 7	9.00 +9.03 patch

Although you can install OO Content Pack 7 manually, it is recommended that you install OO Content Pack 7 using the HP Live Network Connector.

Note: If you encounter a RAS update error during the following procedure, please try again.

To install OO Content Pack 7 using the HP Live Network Connector

- 1 Configure the 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.

Installing OO Content Pack 7 Manually

If you install OO Content Pack 7 manually, use one of the following methods.

Note: In the following procedure, when you run **OO_Content_Pack_7_Installer.jar**, you will see errors about being unable to update the RAS. The installer will retry, and the install will continue. As long as you complete the procedure, you can ignore these messages.

To install OO Content Pack 7 on a Central server

- 1 Close Studio and 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 7.
- 4 Navigate to and copy the OO Content Pack 7 Installer version of **OO_Content_Pack_7_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_7_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 7. To get administrative privileges, follow these steps:
 1. On the **Start** menu select **All Programs**, and then **Accessories**.
 2. 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:

```
java -jar OO_Content_Pack_7_Installer.jar -centralUsername <non-default Central username> -centralPassword <your Central password>
```

For example:

```
java -jar OO_Content_Pack_7_Installer.jar -centralUsername sysadmin  
-centralPassword iconclude
```

- If you are installing OO Content Pack 7 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_7_Installer.jar -centralURL <non-default Central URL>  
-centralPassword <your Central password>
```

For example:

```
java -jar OO_Content_Pack_7_Installer.jar -centralURL https://central_server1:8080 -  
centralPassword iconclude
```

- To install OO Content Pack 7 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_7_Installer.jar -forceInstall -centralPassword  
<your Central password>
```

For example:

```
java -jar OO_Content_Pack_7_Installer.jar -forceInstall -centralPassword iconclude
```

To install OO Content Pack 7 on a remote Central server

- 1 Make sure that Central and your RAS are running.
- 2 From **<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 7.
- 4 Navigate to and copy the OO Content Pack 7 Installer version of **OO_Content_Pack_7_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_7_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 7. To get administrative privileges, follow these steps:

- 9 On the Start menu select All Programs, and then Accessories.
- 10 Right-click Command Prompt and then select the Run as administrator option.

Enhancements and Fixes

The following items (identified by reference number), are fixed in the current software release.

QCCR1D118081: Email: Send Mail operation should have inputs for Cc and Bcc

PROBLEM: The **/Library/Operations/Email/Send Mail** operation does not allow you to define Cc and Bcc recipients. If there is more than one address specified in the "to" input, the first address is placed in the **To** field, and all the other addresses are moved to the **Cc** field. The operation should have inputs for both Cc and Bcc. These inputs must be able to accept lists.

CAUSE:

FIX: The inputs cc" and "bcc" were added to the **/Library/Operations/Email/Send Mail** operation to enable you to set **cc** and **bcc** recipients. The new inputs accept a list of email addresses, and use the same delimiter that is used for the **To** field.

QCCR1D130022: Email: Get Mail Message and Get Mail Message Count operations should support Client and Server SSL authentication.

PROBLEM: The operations **/Library/Operations/Email/Get Mail Message** and **/Library/Operations/Email/Get Mail Message Count** have two inputs: "keystore" and "keystorePassword". You cannot specify a path to the server and client certificates in case both inputs are needed for **trustAllRoots** = *false*. The operations should support client and server SSL authentication.

CAUSE:

FIX: The "trustKeystore: and "trustPassword" inputs were added to the **/Library/Operations/Email/Get Mail Message** and **/Library/Operations/Email/Get Mail Message Count** operations. These inputs check if the server SSL certificate is trusted. The "keystore" and "keystorePassword" are used to check if the client SSL certificates are trusted. The "trustKeystore" input specifies the path "trustKeystore" uses for SSL Server Certificates. The "trustPassword" input specifies the password for "trustKeystore". None of these inputs are required.

QCCR1D135031: OO9 Send Mail - Windows Only

PROBLEM: The operation **Send Mail - Windows Only** does not work with multiple coma-separated values for the fields **To**, **Cc** and **Bcc**. It only takes the first value into consideration. All the other values are ignored, and the operation ends with success.

CAUSE:

FIX: The operation behavior was changed to handle a list of comma-separated values for the inputs "to", "cc", and "bcc".

QCCR1D106288: Messages which are in the subject and body do not display Japanese characters using the "Get Mail Message" input in Operations Orchestration 7.51.03.

PROBLEM: Messages in the **Subject** and **body** fields do NOT display Japanese characters using the **Library/Operations/Email/Get Mail Message** operation in Operations Orchestration 7.51.03.

CAUSE:

FIX: The input 'characterSet' was added to the operation to enable you to select the type of character set you want to use.

QCCR1D139963: Send Mail - Windows Only does not release the file handle of an attachment upon completion

PROBLEM: Send Mail – Windows Only does not release the file handle of an attachment after the mail has been sent.

CAUSE:

FIX: The behavior of the operation was changed so that after the email is sent, the file handler of the attachment is released.

QCCR1D139640: Set User Remote Control operation in Active Directory .Net doesn't validate an input

PROBLEM: The operation located at **/Library/Operations/Active Directory/.Net/Users/Set User Remote Control** does not validate the 'enableRemoteControl' input.

Consequently, every value other than *false* has the same effect as *true*. The operation should explicitly fail with a meaningful error message if a value other than *true* or *false* is provided with the input.

CAUSE:

FIX: The 'enableRemoteControl' input was validated so that in case it has a value other than *true* or *false*, an error message is given and the operation fails.

QCCR1D123027 Operations: Email: Get Mail Message operation fails if the mail subject is blank.

PROBLEM: The **Get Mail Message** operation fails if the mail subject is blank.

CAUSE:

FIX: The Get Mail Message operation now returns the mails whose subject is blank. If the subject is blank, it is set to "empty string" in order to retrieve the mails.

QCCR1D121165: EMAIL: Enhance Get Mail Attachment needs to have an input that specifies the path to where the attachment is copied

PROBLEM: The operation **Get Mail Attachment** does not have an input that specifies the path to where the attachment is copied.

CAUSE:

FIX: **Get Mail Attachment** now has two new inputs: "destination" and "overwrite".

The input "destination" enables you to specify the path where the attachment will be saved. If a path is not specified, the attachment is saved as a temporary file.

The input "overwrite" specifies whether the attachment will overwrite any existing file with the same name in the destination folder. The operation fails if overwrite is *false* and a file with the same name already exists in the destination folder.

QCCR1D121180: Provide the option to remove messages upon retrieval in Get Mail Message

PROBLEM: When using the operation **Get Mail Message**, there is no option to delete each message upon retrieval.

CAUSE: There is no input to specify whether the mail should be deleted or not.

FIX: The operation has a new Boolean input named "deleteUponRetrieval" which gives you the option to delete or not delete the email retrieved from the server. If "deleteUponRetrieval" = *true*, then the email which is retrieved is deleted. For any values other than *true*, the email is just retrieved.

QCCR1D 139833: I18N: HTTP Client - Http Client Post Raw returns invalid characters when the postDocument input is in Japanese

PROBLEM: The operation located in **/Library/Operations/HTTP Client/HTTP Client Post Raw** displays mojibake characters in Studio when assigning a sequence of Japanese characters to the "postDocument" input. The character set specified when executing the operation should be used to properly display the posted document.

CAUSE:

FIX: The HTTP response retrieved by the server was previously decoded according to the encoding specified in the response's header or UTF-8 when the encoding header is not present in the response. The operation now uses the specified character set both when making the request, and when reading the obtained response. The default value, UTF-8, is only used for the HTTP request and the HTTP response when the "characterSet" input is unassigned.

QCCR1D121048: Util: Enhance Time Zone Converter operation to specify which time zone is invalid

PROBLEM: The operation located in **/Library/Utility Operations/Date and Time/Time Zone Converter** does not provide a clear distinction between the cases when an invalid value is assigned to the "dateTimeZone" input, when an invalid value is assigned to the "outTimeZone" input, and when invalid values are passed to both of these two inputs.

CAUSE:

FIX: The operation was enhanced to return specific error messages when failing due to invalid values for one of the two time zone inputs. The error message indicates exactly which one of these inputs was assigned an incorrect value.

QCCR1D121041: L10N: Time Zone Converter does not work for JA/jp

PROBLEM: The operation located in **/Library/Utility Operations/Date and Time/Time Zone Converter** does not use the values provided to the "outLocaleLang" and "outLocaleCountry" inputs to display the output of the conversion.

CAUSE:

FIX: The operation was corrected to use the values passed to the locale-related inputs and not the RAS machine's settings, as it previously did.

QCCR1D122879: I18N: Java based WMI Query operation does not work as expected on JA systems

PROBLEM: When running a Java-based WMI Query operation in the **Library/Operations/WMI/Java** on a JA system, the operation ended in success but had scrambled some of the Japanese characters. If the result was an XML format with a set of values, some of the values contained invalid characters. When running the WMI Query in the **Library/Operations/WMI/.NET** folder, the result that was returned contained only valid characters.

CAUSE: When executing a query on a Japanese system, the result ended in success but had scrambled some of the Japanese characters while serializing the result in XML format.

FIX: This issue was fixed by changing the classes used for serialization.

QCCR1D122324: jWMI: If you execute a WMI query while the remote registry and server services are stopped on the target Windows machine, the results and the messages from OO are inconsistent

PROBLEM: If a Java WMI query operation is run while the "Remote Registry" and "Server" services are stopped on the target Windows machine, the error message that is returned in OO differs from one execution to another. In addition, if the operation ends in success once, then even if the services are stopped, the operation will always end in success until the RAS is restarted. A connection caching mechanism might be implemented inside.

CAUSE: The operation was not caching the connection to the target host, but the CLSID of the "WbemScripting.SWbemLocator" object that is used to connect to the WMI server. The CLSID was obtained by querying the target host registry and therefore needed both services running. Once the CLSID was retrieved, the services no longer needed to run.

FIX: Since the CLSID is the same in all the Windows distributions, its value is now stored and used without querying the registry. As a result, there is no need for the two services to run. For Windows 7 or Windows 2008 R2, it is necessary to define additional settings and have the services running for the operation's first run since the target hosts must be configured automatically for DCOM access. The WMI/Java folder description has been updated with the new requirements.

QCCR1D135320: jWMI: When running on Windows 2008 R2 and 7, the process of configuring the Windows target machine is too complicated and has security implications

PROBLEM: When running a WMI Query on Windows 2008 R2 or Windows 7, you need to configure the required settings before executing the operation. In addition, the operations require an Administrator account for executing. The configuration process should be simpler and other users should be allowed to execute the Java WMI operations.

CAUSE:

FIX: The required configurations cannot be bypassed because of the security limitations implemented in Windows 7 and Windows 2008 R2. The Java WMI operations can be successfully executed using an Administrator account, other users from the Administrator group, or a domain user. The WMI/ Java folder description has been updated with an explanation about what the user needs to do to make sure he can run the operations with users other than Administrator.

QCCR1D139507: Operation to extract Header from emails

PROBLEM: In the Exchange Server operation **Read Email**, there is no option to retrieve header information. The header information is needed to get the following data fields:

- Return-Receipt-Requested
- Return-Receipt-To

The header information provided by the Exchange Server is not exposed.

CAUSE:

FIX: The **Read Email** operation from Exchange Servers 2010 and 2007 now have the output fields "returnReceiptTo" and "returnReceiptRequested", which extract information related to the "Return-Receipt-To" option from the email header. If this header contains an email address, the output field "returnReceiptTo" will contain this email address, which is the sender's email, and the output field "returnReceiptRequested", will have the value *true*.

If this header contains an empty value, the output field "returnReceiptRequested" will have the value *false*.

QCCR1D138345: Event Log operation writes to host running RAS instead of the target host

PROBLEM: If on a target machine, the event source exists, the **Log Windows Event** operation located in **Operations/Operating Systems/Windows Management/Event logs**, writes the event to the host where the RAS is running, instead of to the specified target host.

Events should be written to the target host instead of host on which the RAS is running.

CAUSE:

FIX: Host machine was set correctly. Events are now written to the target host.

QCCR1D139053: Exchange 2010: The operation Get Email List fails with a java exception when trying to filter emails by subject

PROBLEM: The operation **/Library/Operations/Exchange/Exchange 2010/Email/Get Email List** fails for valid inputs when you want to retrieve only the messages with a specific subject or body. If there are emails with no subject or body at all (empty string) when trying to filter emails by subject or body, the operation fails with the following error message: *Object reference not set to an instance of an object*.

CAUSE: If an email does not have a subject or body specified, then it is set to null, instead of an empty string.

FIX: The behavior of the operation was changed so that when filtering emails by subject or body, it first checks if the email has a subject or body. If it does not, then it is filtered out, and not returned by the operation.

QCCR1D138100: Exchange : If the input "skipClusterInfo" is not specified, the Operation Get Exchange Server Details fails.

PROBLEM: The operation **/Library/Operations/Exchange/Get Exchange Server Details** fails if the input "skipClusterInfo" is not specified. The operation fails with the following message: *Object reference not set to an instance of an object*. If this input's value is not specified, then its default value should be set to *false*.

CAUSE: If the input value for "skipClusterInfo" value is not specified, then it is set to null.

FIX: If the input value for "skipClusterInfo" is not specified, then its default value is set to *false*.

QCCR1D139101: Accelerator Packs/Exchange/Utility/Clean Exchange Files has camelCase problems regarding one input

PROBLEM: The flow located at **Accelerator Packs/Exchange/Utility/Clean Exchange Files** has the input "Old Threshold", which does not comply with camelCase rules.

CAUSE:

FIX: The flow was deprecated and the "Old Threshold" input was renamed as "oldThreshold".

QCCR1D 111406: Search Event Log operation fails against Windows 2000 and Windows 2008 targets.

PROBLEM: When using the **\Library\Operations\Operating Systems\Windows Management\Event Logs\Search Event Log** operation against a Windows 2000 or Windows 2008 host the operation will fail with:
{Result=2;returnCode=2;sessionId=3c491725-7b73-40bf-b630-0cf85ead9f89;exception=Connection to specified machine failed.
Invalid query ;}

CAUSE: The WMI query, used for searching event logs, was created wrong.

FIX: In some cases depending on the inputs that have the value "*" the query was invalid, therefore the creation of the WMI query was fixed.

QCCR1D141942: VMware: Delete VM Folder: "java.lang.NullPointerException" when given "vmFolder" input containing forward slashes.

PROBLEM: For the following operations in Integrations/VMware/VMware Virtual Infrastructure/Virtual Machines:

Clone Virtual Machine

Delete VM Folder

Move Virtual Machine

Register Virtual Machine

Register Virtual Machine Template

Rename VM Folder

The VM inventory folder unexpectedly searches recursively for a inventory folder. As an example:

If this folder was specified: "subfolder2" and this folder existed: "folder1/subfolder2". The algorithm would chose "folder1/subfolder2".

It should have failed instead because "subfolder2" did not exist in the root of the datacenter inventory. Only "folder1/subfolder2" should have matched "folder1/subfolder2"

CAUSE:

FIX: Updated the inventory folder selection algorithm to find specific folders and not find a match recursively.

QCCR1D120384: "Create Virtual Machine" operation breaks when vmDataCenter or clusterName values contain a /

PROBLEM: When using "Library/Integrations/VMWare/Virtual Machine Infrastructure/Create Virtual Machine" to create a VM and either vmDataCenter or clusterName are assigned a value containing a / (either when "Use constant" or "Prompt user" are used), the flow breaks because it cannot find the datacenter or cluster even if the name is valid.

CAUSE: Create Virtual Machine operation breaks when vmDataCenter or clusterName values contain a /

FIX: The following characters are special in the API and now escaped: % / \

QCCR1D123060: Windows "Remote Command Execution" sometimes fails with error "The process cannot access the file <SESSION_ID>out.tmp"

PROBLEM: The "Remote Command Execution" operation for Windows sometimes failed with the following error:

The process cannot access the file '\\<HOST>\admin\$\temp\<SESSION_ID>out.tmp' because it is being used by another process. The error could be observed even when a single OO user executed a single flow run on the Studio at one time.

CAUSE: Windows "Remote Command Execution" sometimes fails with error "The process cannot access the file <SESSION_ID>out.tmp"

FIX: The temporary file handling when a timeout occurs is now correct.

QCCR1D129736 Wrong HTTP error is returned, OO changes the error returned from the HTTP server

PROBLEM: When an HTTP error is returned from the HTTP server, OO hides the real HTTP error code and replaces it with a different error code.

CAUSE: Wrong HTTP error is returned. OO changes the error returned from the HTTP server.

FIX: The error codes returned when the HTTP method executes are now correctly mapped in the operation output.

QCCR1D129750 OO does not support deployment of Virtual Appliance to ESX

PROBLEM: OO does not support deployment of Virtual Appliance to ESX and it causes a few problems such as the inability to cancel the run.

CAUSE: OO does not support deployment of Virtual Appliance to ESX.

FIX: OVF employment, export and vApp management has been added.

QCCR1D134847 Differences exist when installing RAS from the Central bundle and from the standalone installer

PROBLEM: Differences exist when installing RAS from the Central bundle and from the standalone installer.

CAUSE: Differences exist when installing RAS from the Central bundle and from the standalone installer.

FIX: The temp directory used to create the temp file in for the local protocol did not exist for a newly installed OS and RAS. Now they are created properly.

[QCCR1D137806](#) There is a case that a flow which is generated from wswizard does not send correct value as a SOAP request

PROBLEM: When wswizard is used against the wsdl file which has similar variable names in a type of "array", some values are not sent to the server as a SOAP request even if corresponding flow variables are set.

CAUSE: The flow generated from wswizard does not send the correct value as a SOAP request.

FIX: The array types were surrounded with ^ and \$ in the inputMap and the inputs are now treated correctly.

[QCCR1D137844](#) OO Operation "Read Attachment" for Microsoft Exchange 2010 ends with error

PROBLEM: OO Operation "Read Attachment" for Microsoft Exchange 2010 ends with error: WebOperation - RAS-side exception occurred while executing laction.

CAUSE: OO Operation "Read Attachment" for Microsoft Exchange 2010 ends with an error.

FIX: In every place where the 'ContentType' of the attachment is used, will first check if it is null. If it is null, will be treated as if it is different that "text/plain".

[QCCR1D138952](#) "Read ini File" operation does not return full results.

PROBLEM: "Read ini File" operation does not return full results.

CAUSE: Operation "Read ini File" has the result : "Collected ini entries from section ([drivers])" upon successful completion and also the raw results contain the key/value pairs from the INI file but entwined with the Result and sessionID.

FIX: A new result was added named keyValuePairs which contains the key/value pairs from the INI file. A new input was also added, pairsDelimiter, to split the pairs of result.

[QCCR1D139017](#) VMware: Set Maintenance Mode operation always fails with "async input is required"

PROBLEM: When attempting to use the "Set Maintenance Mode" operation is always fails immediately with the following error: "async input is required. Valid values: true, false"

CAUSE: Input validation was added for the async input in a previous release that did not apply to the "Set Maintenance Mode" operation.

FIX: Restored behavior of operation before validation of the async input was added

[QCCR1D140945 InvokeMethodv2 maps values only for first element in an array](#)

PROBLEM: InvokeMethodv2 maps values only for first element in an array

CAUSE: InvokeMethodv2 maps values only for first element in an array

FIX: Fixed as part of the general Web Services wizard enhancements for the Content_Pack_7 release

[QCCR1D136940: SiteScope: Add 'Get Monitors Deployed At' operation](#)

PROBLEM: 'Get Monitors Deployed At' operation does not exist

CAUSE:

FIX: Added the requested operation. Get Monitors Deployed At operation returns a list of monitors that have been deployed on a server based on Server Name input.

[QCCR1D138471: SDK content Installer 9.x - add an option to continue RAS installation even if one of the RASes failed.](#)

PROBLEM: The installer will throw an exception if one of the RASes fails. The installation halts.

CAUSE:

FIX: Installer has an option -continueOnRASError to allow continue updateing RASes if one of the RASes fails. This will apply to RAS configurations in public repository or -extra RASes. Failed error should be logged in the installer logs.

QCCR1D119109: How to pass an array to an operation generated via wsdl/invoke 2 method

PROBLEM: The WS wizard requires additional inputs to be entered by the user for arrays that contained more than one item.

CAUSE: Invoke Method V2 was not designed to handle variable length arrays

FIX: We now allow for Invoke Method to optionally accept JSON arrays in the array fields.

QCCR1D137939: WS Wizard proxy information needs to include user and password options for secure proxies.

PROBLEM: We only allowed the proxy host and port to be specified when attempting to import a wsdl that sits behind a proxy.

CAUSE:

FIX: The WS wizard now has two additional text field inputs on the WSDL selection screen to allow for setting a proxy username and password.

QCCR1D122378: 'Http Client Get' workflow 'timeout' is for connection, does not include load time

PROBLEM: The connection input in the /Library/Operations/HTTP Client/Http Client Get operation defines a timeout until a connection is established. If the content to be retrieved is large enough, a socket timeout is reached.

CAUSE:

FIX: An input named socketTimeout was added to the Http Client Get operation, which permits using a timeout when retrieving the data.

QCCR1D136933: SiteScope: Add 'Is Monitor Group Empty' operation

PROBLEM: SiteScope: Add 'Is Monitor Group Empty' operation

CAUSE:

FIX: Is Monitor Group Empty is a new operation that verifies if a monitor group, or any of its subgroups, contain any monitors or alerts.

QCCR1D134633: Need to Deploy VM from Templates

PROBLEM: The user is unable to deploy VMware from templates and also customize VM when deploy VM from templates.

CAUSE:

FIX: Enhanced the "Clone Virtual Machine" operation by adding an optional input called customizationSpecXml to customize VM using customization spec xml string. Created two new sample flows called "Clone Virtual Machine to Template" and "Deploy Virtual Machine from Template" that use the "Clone Virtual Machine" operation

QCCR1D129738: HTTP PUT operation is limited when loading large files

PROBLEM: The 'HTTP Client Put' operation was not able to upload very large files on servers.

CAUSE:

FIX: The operation was modified to not chunk the large files anymore. This will allow large files to be loaded on the target HTTP server at the URL specified in the operation input.

QCCR1D133748: Request for HTTP form-based authentication support in http client post operation

PROBLEM: The 'HTTP Client Put' operation was not able to upload very large files on servers

FIX: All the HTTP Client operations (not only the *Post* operation) were enhanced to work with form authentication. In case the provided URL is protected with form-based authentication for the requested method, then the HTTP request will be redirected to the login form.

QCCR1D132760: Add time stamp of error generated in the Event Log of Search Event Log operation

PROBLEM: No current ability to know time stamp of the error generated in the Event Log

CAUSE:

FIX: The eventDetails result was added to 'Search Event Log' operation. The new result contains a JSON array of event info objects, which have the event ID, time, and message for each event returned.

Known Problems, Limitations, and Workarounds

QCCR1D85010: F5 integration does not support non-alphanumeric passwords

PROBLEM: This problem happens because the password is placed in an HTML GET string and non-alphanumeric characters break the GET string, so cannot be used in the password.

QCCR1D117519: Divider operation goes to success when a division by zero occurs

PROBLEM: The **Divider** operation in the Library/ Utility Operations/Math and Comparison/Simple Evaluators folder goes to success 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.

QCCR1D117520: Divider operation fails with a confusing message when you divide 0.0 by 0.0

PROBLEM: When you use the **Divider** operation in the Library/ Utility Operations/Math and Comparison/Simple Evaluators folder to divide 0.0 by 0.0, the operation fails with the message "BigInteger divide by 0".

QCCR1D121393: Add proxy support to RSflowinvoke

PROBLEM: If Central is behind a proxy and the proxy is configured in Internet Options, then RSFlowInvoke wants to use those settings but JRSFlowInvoke cannot access those settings. You can now define proxy settings on the command line with the RSFlowInvoke tool. If you do not specify the proxy settings, the proxy from Internet Options is used. To use a proxy to communicate with Central's SSL port, you must add Central's SSL port (default: 8443) to a list of SSL ports that your proxy is configured to allow (see the *OO Software Developer Kit User Guide* for instructions).

- proxyHost <proxy host>
- proxyPort <proxy port>
- proxyUsername <proxy username>
- proxyPassword <proxy password>

QCCR1D122990: Remote Command Execution fails on Windows English operating system when characterSet is set to UTF-8/UTF-16

PROBLEM: Currently, you can only use one type of to encode the batch files executed by cmd.exe and read the redirected file output. Some programs encode their output as Unicode (UTF-16) but cmd.exe cannot execute batch files that are Unicode (UTF-16) encoded.

QCCR1D131214: UpdateAssignedTo operation fails with exception fault "Cannot interrogate model"

PROBLEM: The **UpdateAssignedTo** operation in the Library/ Integrations/Hewlett-Packard/Network Node Manager/9.0/Incidents folder should change the **assignTo** input value to the specified value. The operation should return success with the **assignTo** input value to the specified input value.

QCCR1D138276: 'includePaths' description in RepositorySync Plugin

PROBLEM: The RepositorySync plugin description in the /Integrations/Hewlett-Packard/Operations Orchestration/Repository folder for **includePaths** (Paths to include) should be clearer and refers to a logical offset from the repository root [rather than a system storage path on the O/S.] e.g. to include all flows under "My Ops Flow" the input should be '/Library/My Ops Flows'. The same description should be for excludePaths [Paths to exclude]

QCCR1D138282: Set System Account does not work as expected

PROBLEM: If you create a new system account and check it in, but the values for the username and password for the system account are empty, the values are not available.

This means that if you try to run an OO flow to create System Account values in real-time, it won't work.

The Same behavior is found for "Set System Property" too.

QCCR1D138299: Base64 Decoder operation returns success when the data input contains invalid non-ASCII characters

PROBLEM: The **Base64 Decoder** operation in the Library/Utility Operations folder, returns success if the value of the **data** input contains an invalid non-ASCII string and the value of the **characterSet** input is ASCII or shift-JIS. The operation should fail.

QCCR1D14060: uCMDB: Get Object Attributes by Id op backward compatibility issue

PROBLEM: uCMDB: Backward compatibility issues - error messages were changed.

CAUSE: A number of error messages from uCMDB have changed since using the new 9.x API instead of 8.x API.

QCCR1D141320: uCMDB: Get Object Attributes by Id op backward compatibility issue

PROBLEM: Operation was deprecated in order to assure backward compatibility with previous version.

CAUSE: The deprecated operations uses the 8.x API and the new one uses the 9.x API.

QCCR1D141409: L10N: vCloud: failed to recognize VM which name contain Japanese characters

PROBLEM:	An error message appears when vCloud operations receive as input Japanese Characters. The following error message will be returned : The request is not properly encoded.
CAUSE:	Non ASCII characters are not supported with the vCloud integration.

QCCR1D141412: L10N: vCloud: failed create catalog named with Japanese characters

PROBLEM:	An error message appears when vCloud operations receive as input Japanese Characters. The following error message will be returned : The request is not properly encoded.
CAUSE:	Non ASCII characters are not supported with the vCloud integration.

QCCR1D141414: L10N: failed to modify Organization once input Japanese in description

PROBLEM:	An error message appears when vCloud operations receive as input Japanese Characters. The following error message will be returned: The request is not properly encoded.
CAUSE:	Non ASCII characters are not supported with the vCloud integration.

QCCR1D141122: VMware: Modify the description of the "Upload DS File" operation.

PROBLEM:	The flow "/Library/Integrations/VMware/VMware Virtual Infrastructure and vSphere/Datastore/Upload DS File" cannot upload a file to the root folder of the datastore on a vCenter. It can upload a file to the folders within the root folders.
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QCCR1D141710: PowerShell Script (2) changed error messages

PROBLEM:	The error messages have been changed
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CAUSE: The error messages were changed in order to be more clear. Before deprecation, PowerShell Script returned the same message for invalid host/username/password: returnResult = The operation failed to execute because of one or more of the following possible reasons- 1. The path to the <host> computer cannot be found. 2. The user credentials used to connect to the <host> computer is incorrect, or does not have permissions to execute this action on the <host>

After deprecation, PowerShell Script (2) returns

1. for invalid username/password
exception=dotNET_Commons.ImpersonationException: User impersonation failed (Logon failure: unknown user name or bad password).
returnResult no longer appears.

2. for invalid host, PowerShell 2.0
returnResult = Connecting to remote server failed with the following error message : The WinRM client cannot process the request because the server name cannot be resolved.

3. for invalid host, PowerShell 1.0
returnResult=The term 'Invoke-Command' is not recognized as a cmdlet, function, operable program, or script file. Verify the term and try again.

QCCR1D141598: JDBC : The error message returned when using an invalid port for Oracle was changed

PROBLEM: The error message returned in case an invalid port number was provided has been changed.

CAUSE: This changed because the input is now validated before it will be passed to getConnection. Previously the exception was thrown by JDBC.

QCCR1D14: Get Farm Name runs successfully but does not return any result.

PROBLEM: When Citrix XenApp server and OO are on the same machine, Operations/Application Servers/Citrix XenApp/Get Farm Name operation and Accelerator Packs/Application Servers/Citrix XenApp/Utility/Get Farm Name can run successfully but does not return any result.

When running the flow remotely, the flow works fine.

QCCR1D142020: When two or more virtual machines have the same name, using VM identifier type of "NAME" cause issues

PROBLEM: The Library/Integrations/VMware/VMware Virtual Infrastructure and vSphere/Snapshots/Revert To Snapshot operation returns the result "No virtual machine snapshot tree found" when using vmIdentifierType=NAME and the "virtualMachine" input equal to a system with multiple snapshots
Using VM identifier type of "NAME" is not recommended in environments where it is possible to have two or more virtual machines that have the same name. For these environments, the recommended identifier type is "INVENTORYPATH".

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