

HP Operations Orchestration 10.x

Windows and Linux Operating Systems

OO Base Content Pack Version 1.2.1

Release Notes

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Introduction

This document provides an overview of the HP Operations Orchestration Base Content Pack 1.2.1 release. It contains important information that is not included in the manuals or in the online help.

This release supports the following languages:

- en - English
- fr - French
- de - German
- ja - Japanese
- es - Spanish
- zh_CN - Simplified Chinese

Base Content Pack 1.2.1 is a cumulative Content Pack.

Content Pack Integrations

The following table lists the integrations that the Base Content Pack supports:

Integration Name	Versions
Active Directory	Windows 2000, Windows 2003, Windows 2008, Windows 2008 R2, Windows 2012, Windows 2012 R2
AIX	AIX 5.3
FreeBSD	6.3, 7.0
JDBC	
Email	POP3, IMAP
Excel	1997, 2000, 2003, 2007, 2010
File System	
HP HP/UX	B.11.31
SOAP	

Integration Name	Versions
JVM	5.0, 6.0
MS Cluster	Windows 2003, Windows 2008, Windows 2008 R2
Network	
Red Hat	ES 3, AS 3, ES 4, AS 4, ES 5, ES 6.2
Perl	
PowerShell	1.0, 2.0, 3.0, 4.0
Printing	
Remote Command Execution	
Sharepoint	2003, 2007
SNMP	1, 2, 3
Solaris	10
SUSE Linux	openSUSE 10.0, SUSE Enterprise Server 10 SP1, openSUSE 11.0
Windows	2003, XP, 2008, 2008 R2, 2012, 2012 R2
WMI	1.x
WS-Management	1.0.0

Note: The following integrations contain only basic operations. For more advanced features see the corresponding dedicated Content Pack:

Integration Name	Dedicated Content Pack
JDBC	Databases
FreeBSD, HP-UX, Red Hat, Linux, Solaris, SUSE Linux, Windows	Operating Systems, Infrastructure Orchestration
Email	Business Applications

Deploying the Base Content Pack

OO platform versions 10.00 and above support Base Content Pack 1.2.1. However, it is recommended to deploy the Base Content Pack 1.2.1 on an existing OO platform version of 10.10 or later.

For details on deploying a content pack, see "Importing Content Packs to a Project" in the *Studio Authoring Guide* and "Deploying a Content Pack" in the *Central User Guide*.

Note: For details on how to uninstall/rollback a content pack, see "Roll back to the last deployment" in the *HP OO Central User Guide*.

Fixed Defects

The reference number for each fixed defect is the ALM Global ID number (QCCR).

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

CR Number	Title	Description
QCCR8C1125	The SQL Command operation does not return any values for the outputText result if it has the EXEC command as an input	The SQL Command operation under <i>/Library/Operations/Databases/JDBC/</i> now return the correct values for the result "outputText" if it has the "EXEC" command as a command input.
QCCR8C1706	WMI security: The input pktPrivacy in the WMI Query flow is hidden	The pktPrivacy input in the WMI Query flow under <i>Operations/WMI/.NET</i> is now visible and is documented in the flow's description.
QCCR8C22663	A scriptlet error occurs in a Read File operation if the RAS is not available	The Read File operation under <i>/Library/Operations/File System/Windows</i> completes successfully even if the RAS is not available.
QCCR8C22972	Content that still uses the ICONCLUDE_HOME environment variable in 10.x content packs should be updated to ensure that the privateKeyFile input is no longer dependent on this variable	<p>The content that used the ICONCLUDE_HOME environment variable if the path was relative, now uses the java.home location and not the privateKeyFile input. This path now depends on the application from which the flow is run.</p> <p>Depending on where the flow was triggered, the path is relative to: <i>studio</i> for Studio <i>central/bin</i> for Central <i>ras/bin</i> for RAS</p> <p>The descriptions of all operations and flows using this input have also been updated.</p>

CR Number	Title	Description
QCCR8C24072	The Threshold input in the FS Modified operation only accepts a date in US format even if system is localized in Japanese.	<p>The threshold input of the FS modified operation under <i>/Operations/File System/Cross Platform</i> and <i>Operations/File System/Windows</i> Only accepts dates in almost all known formats.</p> <p>The description of the operation has been updated accordingly to better reflect its functionality.</p>
QCCR8C24076	FS Rename (Cross Platform) fails to overwrite file if it already exists	This problem reproduced when a file with the same name as the newName input already existed at the location of the file to be renamed.
QCCR8C24084	Create Local User operation goes to failure if the password input contains Japanese characters	<p>The Create Local User operation resulted in an error if the password did not meet the following rules:</p> <ul style="list-style-type: none"> When creating a user, the password of that user must contain English lowercase and uppercase letters as well as numbers. The password can include any number of localized characters.
QCCR8C24269	The operations in the PowerShell/Networking folder should be updated to return the index necessary for Configure Network Adapter operation	<p>In order to support IPv6, the Configure Network Adapter operation under <i>Library/Operations/PowerShell/Networking</i> has been recreated. (The previous Configure Network Adapter operation has been deprecated.)</p> <p>This operation now uses the value returned from the command netsh interface ipv6 show interfaces as the value for the interfaceIndex input.</p>
QCCR8C24548	Many operations from the Base content pack do not have Override Group information	All operations in the Base content pack now contain Override Group information. For example, <code>\${overrideJRAS}</code> , <code>\${overrideNRAS}</code> .

CR Number	Title	Description
QCCR8C24574	SSH/Shared Sessions operations cannot reuse SSH channels	<p>Now, the operations SSH ShellLogon, SSH Shell and SSH Logoff under <i>Shared Sessions</i> folder save the SSH context.</p> <p>This means that if a variable is set in an SSH Shell step, it can be read in the next SSH Shell step.</p>
QCCR8C24599	LDAP and Active Directory folders: useSSL=false issue	<p>The operations now work if the useSSL input is false. Notice that the Active Directory Java operations Create User and Reset Password only work with the LDAP protocol. Therefore, you must set the useSSL input to true for these operations to work.</p>
QCCR8C25070	telnetOp @Actions do not work if there are inputs with blank values	<p>The telnetOp @Actions now work correctly when there are inputs with blank values.</p>
QCCR8C25109	SSH operations use the ICONCLUDE_HOME system variable when resolving paths	<p>When running an SSH operation, if a private key is provided as input, its location is now resolved relative to the OO installation folder (<i>central/bin</i> if run from Central and <i>studio</i> if run from Studio).</p>
QCCR8C25138	The descriptions of some Active Directory operations are not accurate regarding the use of useSSL input field	<p>Descriptions of all the Active Directory operations under <i>Operations/Active Directory</i> have been updated as follows:</p> <p>It is recommended that this operation be used with the useSSL input set to true. This is due to the fact that Microsoft Active Directory imposes SSL communication when manipulating a user's password through LDAP.</p> <p>(More details can be found at the following link http://support.microsoft.com/kb/269190/en-us)</p> <p>If the operation is used with the useSSL input set to false, it fails and an error message displays. This message generally indicates that the LDAP server cannot process the request due to server-defined restrictions.</p>

Known Issues

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

The /Library/Operations/PowerShell/PowerShell Script operation uses JRAS permissions

If a loopback address is provided as **host**, and the operation is run from a service (such as a RAS), the given **username**'s privileges are not updated.

SSH/SharedSessions operations do not work in a multithreaded environment (parallel split)

SSH/SharedSessions use the object **GlobalSessionObject**, an object available to all branches in a parallel split or multi-instance. However, access to this object is not synchronized. This results in sessions being removed/set at unexpected times and **Could not find sessionId in the session context** errors.

The MySQL JDBC connector needed for the JDBC integration is third party excluded

The MySQL JDBC connector needed for the JDBC integration is 'third party excluded' so it needs to be added by the client. The standard way to add this missing dependency is by deploying a third-party-cp.jar with the artifact. But this has no affect in OO 10.02 if the dependency is not declared in the plugin's POM.

However, the dependency cannot be declared as the JDBC operations also need to work without this dependency (for other databases).

SQL Query used against a Netcool DB should not enforce specifying a database

The **SQL Query** operation under */Library/Operations/Databases/JDBC/SQL Query* requires an input for the database name. When a value is specified, an error is written in the Netcool logs even though the operation completes successfully.

FileSystem: All operations fail for valid paths on mapped drives

Operations fail when invoked on any file located on a mapped drive.

HTTP Client - Default location of cacerts

The default **keystore/trustStore** location is shown as `%JAVA_HOME%/jre/lib/security/cacerts`. It should be `<OO_Home>/java/lib/security/cacerts`.

Ping.Traceroute @Actions don't work with "WMI" protocol for "WINDOWS" remoteOS

The @Action **Ping (56c181bc-a763-435c-9561-4ba29d045c86)** under */Operations/Network* does not work with the WMI protocol for a remote Windows operating system.

You can use the **Ping with WMI** flow under *Operations/Network* to ping with the WMI protocol.

Using "PowerShell Script" in parallel from several runs causes exception

Using PowerShell Script in parallel from several runs sometimes causes an error.

Workaround:

Run the **Acquire Lock** operation before invoking the PowerShell operation and then run the **Release Lock** operation.

WS-Management: support for HTTPS connection to server

The operations in the *WS-Management* folder support only HTTP unencrypted connections to the server. This is a security vulnerability when transmitting and receiving information to the server.

SQL query operation for Netcool db does not handle semicolons

The **SQL query** operation under *Operations/Databases/Microsoft SQL* works correctly for the Netcool database unless the data in one of the fields contains a semicolon. If the delimiter in the operation is customized to a pipe, the results remain null. The same operation works correctly when returning data that does not contain a semicolon.

the operation fails if input paused in requestedstatus field in The Change Service Status.

The **Change Service Status** operation under *Operations/Operating Systems/Windows/Services* fails if the input of the **requestedstatus** field has the value 'paused'.

Sample Flow "Move Emails" places the object in an incorrect mailbox

The out-of-the-box flow **Move Emails** under *Operations/Exchange/Exchange 2010/Samples/Emails* fails to move the object in the selected mailbox when an account that does not belong to the mailbox owner is selected.

Operation SNMPv1 Get fails

The **SNMPv1 Get** operation under *Operations/SNMP/v1* does not work for a device known only to support V1 SNMP agent. It always results in a "timed out" error.

Date parser does not convert a large millisecond value correctly

The Date Parser operation (*/Library/Utility Operations/Date and Time/Date Parser*) does not convert input values of 2³² or higher correctly. This limits the output date range to 12/7/1969 - 1/25/1970.

Operating System Detector leaves unprintable character at end of ReturnResult

The Operating System Detector operator leaves an unprintable character at the end of ReturnResult. If you try to pass the returned value to the String Comparator operation with a match type of RegEx and a pattern of ".*", a mismatch error occurs.

Using the operation "/Library/Operations/File System/Windows Only/Excel/Get Cell" against an Excel file that contains OLE objects, will result in failure

When running a flow that reads an Excel sheet using the */Library/Operations/File System/Windows Only/Excel/Get Cell* operation, if the Excel file contains OLE objects (for example, checkboxes), the operation fails and displays an error message.

SFTP operations do not work with non-password authentications

SFTP operations do not work with passwordless authentications.

Using passphraseless keys to authenticate to the remote host failed due to empty password input.

HTTPClient does not reuse connections causing performance bottlenecks

Each OO RAS operation is designed as a unit with the following considerations:

- at execution time, all resources are acquired
- when the operation completes, the acquired resources are released

However, if a flow sequentially uses the same operation for thousands of steps, at each step, the RAS operation recreates the resources needed, instead of reusing them.

Offset Time by operation fails because of unparsable date

The operation **/Library/Utility Operations/Date and Time/Offset Time by** produces an error due to an unparsable date.

When the following inputs are set to blank, the operation works correctly:

localeLang =

localeCountry =

Math Operations return exponential result that can't be used with other Math Operations

When running a **Multiply** operation located under *Utility Operations/Math and Comparison/Simple Evaluators*, the OO Studio debugger freezes and displays the following error message:

An error has occurred during your run.

Excel 'Get Row Index by Condition' operation throws org.apache.poi.hssf.record.RecordFormatException: Unable to construct record instance.

The **Get Row Index by Condition** operation under */Operations/File System/Windows Only/Excel* fails, an error message displays and an exception is thrown by Apache POI.

SQL Server binary data isn't returned as binary in OO

When performing a query from OO in an SQL Server database with a column of type **binary(16)**, the results do not match what appears in the database.

Add socketTimeout to all HTTP Client based operations

The **Http Client Get** operation under */Operations/HTTP Client* in 9.0 has a new input **socketTimeout**, that is documented. However, none of the other HTTP-based operations under */Operations/HTTP Client* include documentation about **socketTimeout**.

"Result" of "Remote Command Execution" is truncated at about 976,000 bytes

The Result data the **Remote Command Execution** operation under *Operations/Operating System/Windows* is truncated at around 976,000 bytes.

Modify operation "Validate XML Document" to support XML namespaces

When using the **Validate XML Document** operation under *Utility Operations/XML Processing* with XML documents that contain XML Namespace tags (xmlns), errors are produced. These same XML files have been checked against the schema using other XML parsing tools and no errors were produced.

The HTTP PUT operation fails due to missing Content-Length header

When using the HTTP PUT flow, an "application/json" formatted string body to the HTTP request is sent. The HTTP API server expects the Content-Length header to be set correctly; however, it is not set automatically by the client. When the Content-Length header is set to the byte-length of the 8-bit encoded body it gives an error that the Content-Length header is already set.

Apache POI libraries need to be upgraded to the latest stable version available

There are some issues caused by bugs in the Apache POI version shipped with our content pack.

Workaround: Upgrade to a newer version of Apache POI (version 3.8).

Http Client trustAllRoots defaults to 'true'

When using **HTTP Client** operations over HTTPS, it is recommended to set the **trustAllRoots** input to **false** to enable a check of the certificate authority that issued the certificate.

This is needed even though the description of these operations state that by default the value is set to **false**.

IPv6 Limitations

[IPv6][WMI] - unable to run WMI operations from Java folder with IPv6 addresses

Running a WMI operation from the Java folder fails when using IPv6 addresses. This is due to third-party issues (j-Interop).

Running with IPv4 addresses works for the same operations.

The following Base content pack flows that depend on **Operations/WMI/Java** do not work with IPv6:

- **Get Processes By Name** under */Operations/Operating Systems/Windows/Processes*
- **Get Process PID** under */Operations/Operating Systems/Windows/Processes*
- **Get Windows Processes** under */Operations/Operating Systems/Windows/Processes*
- **Get Process Counters** under */Operations/Operating Systems/Windows/Processes*
- **Get Task List** under */Operations/Operating Systems/Windows/Processes*
- **WMI Query** under */Operations/Operating Systems/Windows/Samples/*

The **WebDAV** operations under */Operations/Remote File Transfer/WebDAV* do not work with IPv6 due to third party issues (Jakarta Slide, Commons HttpClient)

The **Configure Network Adapter** operation under */Operations/Powershell/Network* cannot set IPv6 interfaces for Windows versions up to but not including Windows Server 2012/Windows 8.

The **HP-UX** operating system under */Operations/Operating Systems* has not been validated with IPv6.

The **AIX** operating system under */Operations/Operating Systems* is not validated with IPv6.

The ROSH (Remote Opsware Shell) and GlobalShell (Opsware Global Shell) protocols from the **Remote Command** operation under */Operations/Remote Command Execution* have not been validated with IPv6. These protocols integrate with products from HP Server Automation and these products have not yet been validated for IPv6.

The **rexec** protocol from */Operations/Remote Command Execution/Remote Command* does not support IPv6 as the rexec server (rexecd daemon) does not support IPv6 connections.

Deprecated operations have not been validated for IPv6.

