
HP Operations Orchestration

for the Windows and Linux operating systems

Release Notes

Software version: 9.02/October 2011

This document provides an overview of the changes made to HP Operations Orchestration for the 9.02 version. It contains important information not included in the manuals or in online help.

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IMPORTANT: The 9.02 release is required

This release is a cumulative release that includes updates from the previously released patch 9.00.01. It can be applied on top of OO 9.00, 9.00.01, or 9.00.02 (9.00.02 was a Japanese version only patch and it's not included in this release).

Following are the supported upgrade paths for OO 9.02:

- From OO 9.00 to OO 9.02
- From OO 9.00 plus 9.00.01 to OO 9.02
- From OO 9.00 plus 9.00.01 plus 9.00.02 (Japanese) to OO 9.02

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.

To check for recent updates or to verify that you are using the most recent edition, visit the following URL:

<http://h20230.www2.hp.com/selfsolve/manuals>

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.

You will also receive updated or new editions if you subscribe to the appropriate product support service. Contact your HP sales representative for details.

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/>

In These Release Notes

These release notes are intended for customers, HP Operations Orchestration (OO) Systems Engineers (SEs), and Customer Engineers (CEs) who have installed or are deploying OO 9.02. The release addresses issues found after the release of OO 9.00.

Updating the OO Java Runtime Environment (JRE)

The OO JRE must be updated to fix security vulnerability with the JRE. More information on this vulnerability can be found here:

<http://www.oracle.com/technetwork/java/javasebusiness/downloads/java-archive-downloads-misc-419423.html>

To update the OO JRE

- 1 Download the Java SE Floating Point Updater tool from <http://www.oracle.com/technetwork/java/javase/downloads/index.html#fpupdater>.
- 2 Stop the OO services:
 - RSCentral
 - RSScheduler
 - RSJRAS
- 3 Open a command prompt and change the directory to the HP Operations Orchestration Home directory jre1.6/bin/ folder.
- 4 Execute the downloaded fpupdater.jar tool using the following command:
> **java -jar fpupdater.jar -u -v**

Note: Follow the same procedure for any Standalone RAS and Studio installations.

Rolling Back FPUpdater Tool Changes

To uninstall the OO JRE update you must manually undo the changes. For example, on UNIX, first shutdown all OO services using the JRE in question and perform the following steps:

- 1 Stop all OO services:
 - RSCentral
 - RSScheduler
 - RSJRAS
- 2 Execute the following commands:
 - `$ cd <ICONCLUDE_HOME >/jre1.6/lib`
 - `$ mv rt.jar.fpupdater rt.jar`
- 3 If the .fpupdater.log file is present, remove it:
 - `$ rm .fpupdater.log`
- 4 Restart the OO services.

These steps revert the JRE to the rt.jar file used prior to running the tool.

Installing OO 9.02

Installing OO 9.02 for an Installation on a Windows System

To install the Windows version of OO 9.02 for an installation of OO 9.00.0x

- 1 Exit Studio and Central, and then stop the OO services:
 - RSCentral
 - RSScheduler
 - RSJRAS
- Note:** For a standalone RAS installation, you only need to stop the RSJRAS service.
- 2 Unzip the file **hpoo_9-02-00_win.zip** to a temporary folder.
 - 3 Check to make sure that the %ICONCLUDE_HOME% variable points to the OO home directory.
 - 4 Run the **install_9_02_00.bat** file.
 - 5 Restart the OO services.

IMPORTANT: If Central is installed in a cluster configuration, make sure that you apply this release to all Central installations in the clustered nodes after stopping these services:

- RSCentral
- RSScheduler
- RSJRAS

Note: For a standalone RAS installation, you only need to stop the RSJRAS service (for the RAS).

The original files are backed up before the installation is modified with the new ones. The **About** box in Central and Studio should show release: **9.02.00**.

To uninstall release 9.02

- 1 Exit the remote Studio and stop the OO services.
- 2 Run the **uninstall_9_02_00.bat** file.
- 3 Restart the OO services.

Installing OO 9.02 for an OO installation on a Linux or Solaris system

To install the Linux version of OO 9.02 for an installation of OO 9.00.0x on a Linux or Solaris system

- 1 Exit Studio and Central, and then stop the OO services:
 - RSCentral
 - RSScheduler
 - RSJRAS
- 2 Unzip the file **hpoo_9-02-00_lin.zip** to a temporary folder.

This .zip file contains the **install_9_02_00.sh** and **uninstall_9_02_00.sh** files.

- 3 Set the `$ICONCLUDE_HOME` variable to point to the OO home directory.
- 4 On a Solaris SA RAS, set the `$JAVA_HOME` environment variable to the JRE home directory.
- 5 Set the `$ICONCLUDE_CLUSTER_HOME` variable to point to the OO cluster home directory.
- 6 Run the `install_9_02_00.sh` file.
- 7 Watch the script for any errors.
- 8 Restart the OO services.

IMPORTANT: If Central is installed in a cluster configuration, make sure that you apply this release to all Central installations in the clustered nodes after stopping the services.

The original files are backed up before the installation is modified with the new ones. The **About** box in Central and Studio should show release: **9.02.00**.

To uninstall OO 9.02

- 1 Exit the remote Studio and stop the OO services.
- 2 Run the `uninstall_9_02_00.sh` file.
- 3 Restart the OO services.

Installing OO 9.02 if the OO Load Balancer is installed separately

To install OO 9.02 for an OO installation on a Windows system if the OO Load Balancer is installed separately

- 1 Stop the RSCLUSTER service.
- 2 Unzip the file `hpoo_9-02-00_win.zip` to a temporary folder.
- 3 Backup the following certificates in the OO Home directory `Clustering/apache/conf/` folder:
 - `ca.pem`
 - `ic.pem`
 - `ras_keystore.crt`
 - `ras_keystore.key`
- 4 Copy the certificate files in the `hpoo_9-02-00_win/Cluster/apache/conf/` folder to the OO Home directory `Clustering/apache/conf/` folder to replace the existing certificates.
- 5 Restart the RSCLUSTER service.

To uninstall OO 9.02

- 1 Stop the RSCLUSTER service.
- 2 Replace the original certificates.
- 3 Restart the RSCLUSTER service.

Installing OO 9.02 for an OO installation on a Linux system if the OO Load Balancer is installed separately

To install OO 9.02 for an OO installation on a Linux system if the OO Load Balancer is installed separately

- 1 Stop the Load Balancer service PASLB.sh.
- 2 Unzip the file **hpoo_9-02-00_lin.zip** to a temporary folder.
- 3 Backup the following certificates in the OO Home directory Clustering/apache/conf/ folder:
 - ca.pem
 - ic.pem
 - ras_keystore.crt
 - ras_keystore.key
- 4 Copy the certificate files in the hpoo_9-02-00_win/Cluster/apache/conf/ folder to the OO Home directory Clustering/apache/conf/ folder to replace the existing certificates.
- 5 Restart the Load Balancer service PASLB.sh

To uninstall OO 9.02

- 1 Stop the Load Balancer service PASLB.sh.
- 2 Replace the original certificates.
- 3 Restart the Load Balancer service PASLB.sh.

Fixing the Expired Certificate for the OO Webservices SDK

IMPORTANT: This release contains a fix for the Expired Certificate for the OO Webservices SDK integration in the SDK folder of this release.

To fix the OO Webservices SDK integration

- 1 Create a backup copy of the following certificates and also the keystore in which they have been imported:
 - SDK/WSCentralService/central.crt
 - SDK/WSCentralService/central-pem.crt
- 2 Replace the old certificates in the keystore with the new ones, located in the SDK directory from the release package using the instructions below:
- 3 Using the Java keytool utility, delete the old alias and import the new certificate using the same alias name.

For example, assume you have a keystore named **cacerts** at location C:\temp. The keystore contains the old certificate **central.crt** with a **pas** alias in it. Using the Java keytool utility, delete the old alias and import the new certificate using the same alias name as shown below:

```
keytool -delete -alias pas -keystore c:\temp\cacerts
```

```
keytool -import -alias pas -file SDK/WSCentralService/central.crt -keystore c:\temp\cacerts
```


Note: Ideally, use one of the two certificates because they both are the same— one is in PEM format and other is in DER format.

New Defect Fixes

QCCR1D134235: OO Central throws a "NullPointerException" when the setting "log4j.rootLogger" is set to DEBUG in the log4j.properties of Central

This has been fixed in OO 9.02.

QCCR1D130956: RSCLUSTER service fails to start after configuring for RAS Clustering

The OO Load Balancer RSCLUSTER service failed to start after configuring for RAS Clustering due to expired OO certificates.

QCCR1D115443: Provide ability to change permissions on selected objects

When you select multiple objects in the repository and edit the permissions, only the first object's permission is modified. To avoid this, when you select more than one object, the permission editor is disabled.

QCCR1D114532: "Copy Deep" is allowed to transfer (copy) objects across repositories

When you perform a "Copy Deep", you were able to copy the objects across repositories. This has been now disabled.

QCCR1D134414: In Studio, the Description tab is not in HTML format

The Studio **Description** tab was only available in plain text. You can now view the **Description** tab in HTML format as an HTML based editor has been added and is disabled by default.

To enable it, add the "**-Dstudio.newdescriptioneditors=true**" property in the Studio.14j.ini file (in the OO Home directory Studio/ folder), and then restart Studio. The **Description** tab is now displayed with the new format with multiple options for processing the HTML, XML tags, and text.

QCCR1D117338: Lengthy shutdown time (8 minutes) on Windows 2008 x64 server of embedded OO RSCentral service appears as a Network Node Manager iSPI NET installer hang

You must manually fix this issue by downgrading the **Acceptors** value from 25 to 2 in all Jetty.xml instances [for Class SslSelectChannelConnector]. The instances are:

- RAS/Java/Default/webapp/conf/jetty.xml
- Scheduler/conf/jetty.xml
- Central/conf/jetty.xml

Note: Lowering the number as shown above will have adverse effects if Central receives hundreds of simultaneous connection requests. In this case, increase the number of acceptors to the old default value (25).

Previous HotFixes Included in OO 9.02

QCCR1D131883: WS API getting status for certain run IDs results in “IndexOutOfBounds” exception

The WS API **getRunStatus** method resulted in an `IndexOutOfBoundsException` for run IDs 11111111, 41983384, or 71983389.

QCCR1D129430: Asynchronous OO calls intermittently return an incomplete (wrong) “rawResult”

When making an asynchronous call to an OO flow, the **rawResult** was intermittently incorrect. This issue has been fixed and the correct **rawResult** is returned reliably as soon as the flow completes.

QCCR1D111729: Restoring repository from backup does not restore Japanese folder and flow names

Folder and flow names in Japanese were not restored properly when importing from a backup repository.

QCCR1D133657: All RAS-based flows using the OO Load Balancer fail in OO 7.60 or OO 9.00

In a RAS Cluster installation, all RAS-dependent flows failed to execute due to expired OO certificates. The default expired OO certificates are now replaced with new certificates.

QCCR1D130928: SOAP API “getFlowDetails” does not return default values for inputs

The WS API method **getFlowDetails** returned **defaultValue** as NULL for inputs that were assigned constant values. This issue is now fixed and **defaultValue** returns the constant value assigned to the input.

QCCR1D108972: ROI not showing on run report for ROI of subflow when the flow is run headlessly

QCCR1D132914: The default certificates for the RAS and Central are set to expire on May 20th 2011

This release replaces the default OO certificates (which are now expired) with newly generated ones that have the same name. For example, in the Conf file if the release finds files such as ‘ras_keystore.jks’ and ‘rc_keystore’, it backs them up and replaces them with the ones from this release.

If you use your own certificates, you must back them up and manually replace them in the OO Home directory in the /Central/conf/ folder for Central. Do the same for RAS, Scheduler, Studio, and Load Balancer in their respective ‘conf’ locations.

New Supported Environments

- VMware ESX 4.1
- MSSQL 2008 SP2
- Oracle Enterprise Linux (OEL) 5.x

Support

You can visit the HP Software support web site at:

www.hp.com/go/hpsoftwaresupport

This Web site provides contact information and details about the products, services, and support that HP Software offers.

HP Software online software support provides customer self-solve capabilities. It provides a fast and efficient way to access interactive technical support tools needed to manage your business. As a valued support customer, you can benefit by using the support site to:

- Search for knowledge documents of interest
- Submit and track support cases and enhancement requests
- Download software patches
- Manage support contracts
- Look up HP support contacts
- Review information about available services
- Enter into discussions with other software customers
- Research and register for software training

Most of the support areas require that you register as an HP Passport user and sign in. Many also require an active support contract. To find more information about support access levels, go to the following URL:

http://h20230.www2.hp.com/new_access_levels.jsp

To register for an HP Passport ID, go to the following URL:

<http://h20229.www2.hp.com/passport-registration.html>

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