HP Operations Orchestration 9.0 Integration with HP Server Automation

HP Server Automation Version: 9.01

Release Notes

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The title page of this document contains the following identifying information:

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To check for recent updates or to verify that you are using the most recent edition of a document, go to one of the following sites:

```
http://h20230.www2.hp.com/selfsolve/manuals
http://www.hp.com/go/bsaessentialsnetwork
```

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```
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```

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The BSA Essentials Network site provides an Operations Orchestration Community page that contains links to announcements, discussions, downloads, documentation, help, and support.

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

For more information on Central Help (online product help for OO products), Studio Help, (help for flow authors), and their related animated tutorials, check the HP OO home directory. For flow and operation descriptions, see individual flows.

Support

Visit the HP Software Support Online 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.

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

To find more information about access levels, go to:

http://support.openview.hp.com/access_level.jsp

Contents

This integration (called SA content) allows administrators to build HP Operations Orchestration (OO) flows that are integrated with HP Server Automation (SA).

SA operations are located in the Central repository in the following directory:

/Library/Integrations/Hewlett-Packard/Server Automation/

This document contains the following information:

- Installation and Upgrade Instructions
- What's New
- Supported and Deprecated Features
- Known and Fixed Issues

Installation and Upgrade Instructions

To install the SA Content (for OO version 9.0) using the BSA Essentials Live Network Connector:

- Configure the Live Network Connector, and download the oo_sa stream.
 For more information, see the Live Network Connector User Guide at:
 <00_home>\Central\tools\LNC
- 2. In the Live Network Connector install directory, open a command window and enter the following commands:

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

3. Restart the RSJRAS service on all RASs in your OO deployment.

To install the SA Content (for OO version 9.0) on a central server manually:

- 1. Close down OO Studio and make sure that Windows Services RSCentral and RSJRAS are running.
- 2. Download the SA content:
 - a. Access: http://www.www2hp.com/support.html
 - b. In the Connect section, HP Software Community subsection, click Operations Orchestration Community.
 - c. Click Sign In and login with your HP Passport credentials.
 - d. In the Quick Links section, click Important Downloads.
 - e. Choose Operations Orchestration > Partner Developed Content > Server Automation > SA Content for OO 9.00.
 - f. Download the SA content (SA Content installer for OO 9.0) to a temporary folder, such as c:\temp\.

- 3. Install the SA content:
 - a. In a command window, change directories to the temporary directory you created in the download steps.
 - b. Run the following command:

```
%ICONCLUDE_HOME%\jre1.6\bin\java -Xmx1024m -jar
OO-SAS-9_00-04-ContentInstaller.jar -centralURL
https://localhost:8443 -centralUsername
<user_name> -centralPassword <password>
```

c. When the installation is successful, restart the RSJRAS service on all RASs.

The recommended installation sequence is:

- 1. Install HP Operation Orchestration 9.0 Central and Remote Access Software (RAS).
- 2. Install the SA Content.
- 3. Restart the RSJRAS Windows service.

NOTE: OO 7.60.01 already supports SA 9.0. When OO 7.60.01 is upgraded to OO 9.00.01, existing support for SA 9.0 is lost. It is recommended that you reinstall this SA Content after upgrading OO to 9.00.01.

What's New

Supported Features

This release includes support for the following features:

- 1. SA version 9.01 features:
 - APX
 - Application Deployment Management (ADM)
 - Virtualization Service
 - OSBuildPlan

(See Content Improvements for information on operations related to these new features.)

2. Dynamic SA version identification

In this release, identifying SA versions occurs dynamically (the coreVersion input parameter is no longer required).

To identify SA versions 6.x, however, the parameter is still required.

- For existing SA operations, use the Get SA Version parameter to retrieve the SA version.
- 3. Server, hypervisor, facility, and application configuration names that include spaces.
- 4. New reboot and un-deployment options for the Remediate Server operation (in the Library/Integrations/Hewlett-Packard/Server Automation/Servers folder).

Operational Changes

The following operations have new directory locations.

Operation Name	Old Directory	New Directory
Get Guest OSes Get Port Groups	Library/ Integrations/ Hewlett- Packard/ Server Automation/ Virtualization	Library/ Integrations/ Hewlett- Packard/ Server Automation/ Virtualization/ Hypervisor
Start Virtual Machine Create	Library/ Integrations/ Hewlett- Packard/ Server Automation/ Virtualization	Library/ Integrations/ Hewlett- Packard/ Server Automation/ Virtualization/ Virtual Machine/ Create Virtual Machine
		Note: Operation's name changed to Create Virtual Machine
All operations in the OS Sequences folder	Library/ Integrations/ Hewlett- Packard/ Server Automation/ OS Sequences	Library/ Integrations/ Hewlett- Packard/ Server Automation/ OS

Operation Name	Old Directory	New Directory
		Provisioning/OS Sequences

Supported and Deprecated Features

This section describes the supported and deprecated features for this release.

Version Support

Supported SA versions: 6.x, 7.0, 7.5, 7.8, 9.0, 9.01.

Deprecated Support

The following operations were deprecated and replaced with new operations:

Operation	New Operation	Deprecated Operation
Library/Integrations /Hewlett-Packard/ Server Automation/ Virtualization/ Get Data Stores	Library/Integrations/ Hewlett-Packard/Server Automation/Virtualization/ Hypervisor/Get DataStores Of Hypervisor	Library/Integrations/Hew lett-Packard/Server Automation/Deprecated/ Get Data Stores
	NOTE: The sample flow Start Create Virtual Machine was updated to use the new operation.	
Library/Integrations /Hewlett- Packard/Server Automation/Servers/ Remediate Server	Library/Integrations/Hewlett -Packard/Server Automation/Servers/Remediate Server	Library/Integrations/ Hewlett-Packard/Server Automation/Deprecated/ Remediate Server
	NOTE : The new operation was enhanced to support the custom reboot and undeployment options.	

New Operations

The following operations are new for this release.

The SA Versions column displays All if the operation supports all the SA versions listed in the Version Support section. If not, the column displays the supported versions for that operation.

Operation Directory	Operation Name(s)	SA Versions
Server Automation/	Get SA Version	9.0, 9.01
ADM/Application/	• Create Version	9.0, 9.01
	• Get Applications	
	• Get Releases	
	• Get Versions	
	Get Versions Using a SA Component	
ADM/Application	Remove Version	9.01
ADM/Deployment/	Get Version Deployment Status	9.01
	Set Version Deployment Status	
	• Rollback Version	
ADM/Deployment/	Deploy Version	9.0, 9.01
	• Get DeploymentJobs	
	Get Versions Deployed	
	In a Server	
	Undeploy Version	
ADM/Target/	Attach Target	9.0, 9.01
	With TargetTier	
	Create Target	
	Detach Target	
	From TargetTier	
	Get Environments	
	• Get Targets	

Operation Directory	Operation Name(s)	SA Versions
	 Get TargetTiers Remove Target Update Managed Servers In a TargetTier 	
APX/	• Get Program APXs • Run Program APX	9.0, 9.01
OS Provisioning/	Manage Boot Client	9.0, 9.01
OS Provisioning/ OSBP	Get OSBuildPlan Start OSBuildPlan	9.0, 9.01
Servers	• Reboot Server	All
Virtualization/ Hypervisor	• Get <i>DataStores</i> Of Hypervisor	All
Virtualization/ Hypervisor	 Get Guest OSes Get Hypervisor Get Hypervisor For Virtual Machine Get Port Groups Get Virtual Machines Of Hypervisor Refresh Hypervisor 	9.0, 9.01
Virtualization/ Virtual Machine	 Clone Virtual Machine Create Virtual Machine Get Valid Target Hypervisors For Cloning a Virtual Machine Get Virtual Machine Manage Virtual Machine 	9.0, 9.01

Operation Directory	Operation Name(s)	SA Versions
	State • Remove Virtual Machine	
Virtualization/ Virtualization Service	 Add Virtualization Service Get Hypervisors Discovered By Virtualization Service Get Virtualization Service For Hypervisor Get Virtualization Services Ping Virtualization Service Reload Virtualization Service Data Remove Virtualization Service Update Virtualization Service 	9.0, 9.01

Fixed Issues

The following issues were fixed for this release.

Issue ID	Description
114547	Optional input SA Version cannot be left blank – a blank entry in the SAS version selection list required.
114550	Connection verification is required for new SA-OO operations.
115526	Get Virtual Machines of Hypervisor operation fails when it is run with VCenter-managed ESX, and the isOnlyRef input parameter is blank or set to n.
115575	Get Virtual Machines operation fails for VCenter-managed ESX hypervisors if the input parameter vm is blank.
115990	The Get Deployment Jobs operation fails to retrieve the ADM deployment jobs.
116116	Clone_Virtual_Machine operation fails.
116645	Clone virtual machine with Windows unable to join specified domain.
116781	Get OS Build Plan operation fails if the given OSBP has no description
114873	OP_Get_Virtualization_Services that is run for a facility that does not exist displays all Virtualization Services for all facilities.
115447	Get Datastores of Hypervisor displays an incorrect error message for the sas6 version.
115725	Remove Virtual Machine operation fails but the virtual machine gets removed successfully.
115862	The portGroupList input parameter for the Create Virtual Machine operation should be mandatory and validated, so the virtual machine does not get created with null network configuration in SA.
115982	Reboot Server operation should retrieve an SAS Version selection list for the input parameter coreVersion.
116058	ADM application operations error message for nonexistent application is misleading.
116060	Create Version ADM operation succeeds when trying to create a version that already exists.
116501	Deploy Application ADM operation does not undeploy the previous version of the application when the input parameter isAdmUndeployPreVersion is equal to y.
116554	Rollback Version and Undeploy Version ADM operations need application, release, version, environment, and target validation.
116583	Clone virtual machine error message for duplicate virtual machine is incorrect.
114549	Result messages type errors on new operations.
114937	Attach Servers to Patch Policy operation fails for a server name that contains spaces.
116059	ADM application operation error message for non-existent release or version contains an error.

116633	ADM application remove version success message contains a typo.
116785	Get OS Build plan operation requires validation for OSBP, folder,
	filter, and folder with no OSBP.
97038	Start OS Sequence operation does not uniquely identify an OS
	sequence.
10819	OP_Create_Device_Group succeeds even if the
	isDynamicsequence parameter contains invalid input.
116971	Remediate Server operation does not form the SA job for attach,
1109/1	detach correctly.
116150	Add reboot option to the Remediate Server operation.