

HP Server Automation Software

Integration with HP Operations Orchestration 9.0

HP Server Automation Version: 9.01

Release Notes

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Software Release Date: September 2010



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

- Software Version number, which indicates the software version.
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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:

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<http://www.hp.com/go/bsaessentialsnetwork>

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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.

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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 SA OO Content version 9.00.03 using the BSA Essentials Live Network Connector:

1. Configure the Live Network Connector, and download the oo_sa stream.
For more information, see *the Live Network Connector User Guide* at:
<OO_home>\Central\tools\LNC
2. In the same location that you installed the Live Network Connector, type the following commands in sequence, pressing Enter after each:
live-network-connector download
live-network-connector import
3. Restart the RSJRAS service on all RASs in your OO deployment.

To install SA Content version 9.00.03 on a Central server manually

1. Exit OO Studio and make sure that Windows Services "RSCentral" and "RSJRAS" are running.
2. To download the SA content, please follow the steps given below:
 - a. Go to the HP website <http://www.hp.com/go/bsaessentialsnetwork>
 - b. Click "Operations Orchestration Community" and login with your HP Passport credentials.
 - c. Click "Important Downloads" in the "Quick Links" section.
 - d. Navigate to "Operations Orchestration -> Partner Developed Content -> Server Automation -> SA Content for OO 9.00"
 - e. Download the SA content (SA Content installer for OO 9.00) to a temporary folder (c:\temp).

3. To install the SA content, please follow the steps given below:
 - a. Open the Windows Command prompt and change the current directory to the temporary folder (`cd c:\temp`)
 - b. Run the following command:

```
%ICONCLUDE_HOME%\jre1.6\bin\java -Xmx1024m -jar OO-SAS-9-0003-ContentInstaller.jar -centralURL https://localhost:8443 -centralUsername <user_name> -centralPassword <password>
```
 - c. After SA content is installed successfully, restart the “RSJRAS” service on all RASes.

The recommended installation sequence is:

1. Install HP Operation Orchestration 9.00.01 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, the existing support for SA 9.0 will be lost. It is recommended that you reinstall this SA content after upgrading OO to 9.00.01.

What's New

This release includes the following new features:

1. Support for SA versions 9.01 is added.
2. Support for SA 9.0 features *APX*, *Application Deployment Management (ADM)*, *Virtualization Service and OSBuildPlan* is added. (New Operations introduced for these features are mentioned in the section 'Content Improvements')
3. Intelligence is added to identify the SA version dynamically. So the user doesn't required to give the 'coreVersion' input parameter for the new Operations added in this release. (A blank entry is added in the Selection list "SAS Version" for this purpose). For the existing SA Operations, to get the SA version to use, the new Operation "Get SA Version" is added to retrieve the version of SA being used. For SA Version 6.x, 'coreVersion' input parameter is mandatory.
4. The Operations 'Get Guest OSes' and 'Get Port Groups' under 'Library/Integrations/Hewlett-Packard/Server Automation/Virtualization' are moved to 'Library/Integrations/Hewlett-Packard/Server Automation/Virtualization/Hypervisor'

5. The Operation 'Library/Integrations/Hewlett-Packard/Server Automation/Virtualization/Start Virtual Machine Create' is moved to 'Library/Integrations/Hewlett-Packard/Server Automation/Virtualization/Virtual Machine/Create Virtual Machine'
6. The folder 'Library/Integrations/Hewlett-Packard/Server Automation/OS Sequences' is moved to a new folder 'OS Provisioning'
7. A Server, Hypervisor, Facility and *AppConfig* are supported with it's name having space character in it.

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 in this release:

1. The operation 'Library/Integrations/Hewlett-Packard/Server Automation/Virtualization/Get Data Stores' is deprecated and is replaced by the new Operation 'Library/Integrations/Hewlett-Packard/Server Automation/Virtualization/Hypervisor/Get *DataStores* Of Hypervisor'. So the sample flow 'Start Create Virtual Machine' is updated to use this new Operation.
2. 'Library/Integrations/Hewlett-Packard/Server Automation/Servers/Remediate Server' is deprecated and is replaced with new Operation with the same name. This new operations adds the reboot and un-deployment options.

Content improvements

Following new Operations are added under 'Library/Integrations/Hewlett-Packard/Server Automation':

* Server Automation

1. Get SA Version

* ADM

▪ Application

1. Create Version
2. Get Applications
3. Get Releases
4. Get Versions
5. Get Versions Using a SA Component
6. Remove Version

▪ Deployment

1. Deploy Version
2. Get *DeploymentJobs*
3. Get Version Deployment Status
4. Get Versions Deployed In a Server
5. Rollback Version
6. Set Version Deployment Status
7. Undeploy Version

▪ Target

1. Attach Target With *TargetTier*
2. Create Target
3. Detach Target From *TargetTier*
4. Get Environments
5. Get Targets
6. Get *TargetTiers*
7. Remove Target
8. Update Managed Servers In a *TargetTier*

* APX

1. Get Program APXs
2. Run Program APX

* OS Provisioning

1. Manage Boot Client

▪ OSBP

1. Get *OSBuildPlan*

2. Start OS*BuildPlan*

* Servers

1. Reboot Server ***

* Virtualization

▪ Hypervisor

1. Get *DataStores* Of Hypervisor ***
2. Get Guest OSes
3. Get Hypervisor
4. Get Hypervisor For Virtual Machine
5. Get Port Groups
6. Get Virtual Machines Of Hypervisor
7. Refresh Hypervisor

▪ Virtual Machine

1. Clone Virtual Machine
2. Create Virtual Machine
3. Get Valid Target Hypervisors For Cloning a Virtual Machine
4. Get Virtual Machine
5. Manage Virtual Machine State
6. Remove Virtual Machine

▪ Virtualization Service

1. Add Virtualization Service
2. Get Hypervisors Discovered By Virtualization Service
3. Get Virtualization Service For Hypervisor
4. Get Virtualization Services
5. Ping Virtualization Service
6. Reload Virtualization Service Data
7. Remove Virtualization Service
8. Update Virtualization Service

NOTE: The operations marked with ‘***’ are supported with all SA versions mentioned in above section. Where as other new operations are supported only with SA 9.00/9.01. (please refer the know issue section for additional details)

Known and Fixed Issues

This section describes known and fixed issues with the software.

Known Operation Issues

Following Operations (under 'Library/Integrations/Hewlett-Packard/Server Automation') are supported only with SA 9.01.

- ADM/Remove Version
- ADM/Get Version Deployment Status
- ADM/Set Version Deployment Status
- ADM/Rollback Version

Fixed Issues

The following table describes fixed SA issues in this release.

- 114547 OO-SA-GP1-Sprint1: Optional input SA Version can't be left blank, blank entry in the SAS version selection list needed
- 114550 OO-SA-GP1-Sprint1: Connection verification needed for new SA OO operations
- 115526 OO-SA-GP1-Sprint2: Operation Get Virtual Machines of Hypervisor fails when run with VCenter managed ESX and isOnlyRef input blank or set to "n"
- 115575 OO-SA-GP1-Sprint2: Get Virtual Machine operation fails for VCenter managed ESX hypervisors if input 'vm' is left blank
- 115990 OO-SA-GP1-Build4: Get Deployment Jobs operation fails to retrieve the ADM deployment jobs
- 116116 OO-SA-GP1-Build4: Clone_Virtual_Machine operation fails.
- 116645 OO-SA-GP1-Build5: Clone virtual machine with windows could not join specified domain
- 116781 OO-SA-GP1-Build5: Get OS Build Plan operation fails if the given OSBP has no description
- 114873 OO-SA-GP1-Sprint2: Operation "OP_Get_Virtualization_Services" run for a facility that does not exist, displays all Virtualization Services for all facilities.
- 115447 OO-SA-GP1-Sprint2: Operation Get Datastores of Hypervisor incorrect error message for sas6 version
- 115725 OO-SA-GP1-Sprint2: Remove Virtual Machine operation fails but the virtual machine gets removed successfully

115862 GP1-Sprint2-Build4: Create Virtual Machine operation portGroupList input should be mandatory and validated, so VM does not get created with null network configuration in SA

115982 OO-SAS-GP1-Build4: Reboot server operation should have SAS Version selection list for input coreVersion

116058 OO-SA-GP1-Build4: ADM Application operations error message for inexistent application is misleading

116060 OO-SA-GP1-Build4: ADM operation Create Version succeeds when trying to create a version that already exists

116501 OO-SA-GP1-Build5: ADM Deploy Application operation doesn't undeploy previous version when input isAdmUndeployPreVersion=y

116554 OO-SA-GP1-Build5: ADM Rollback Version and Undeploy Version operations need application, release, version, environment and target validation

116583 OO-SA-GP1-Build5: Clone virtual machine error message for duplicate vm is incorrect

114549 OO-SA-GP1-Sprint1: Result messages type errors on new operations

114937 OO-SA-GP1-Sprint2: Operation Attach Servers to Patch Policy fails for server name that contains space characters

116059 OO-SA-GP1-Build4: ADM Application operations error in error message for inexistent release or version

116633 OO-SA-GP1-Build5: ADM Remove Version success message typo

116785 OO-SA-GP1-Build5: Get OS Build plan operation needs validation for OSBP, folder, filter and folder with no OSBP

97038 SA: Start OS Sequence does not unique identify an os

10819 OP_Create_Device_Group succeeds for invalid input isDynamicsequence

116971: OO-SA-GP1-Build6: Remediate server operation does't form the SA job for attach, detach correctly
