Cloud Service Automation

Software version: 4.80

For Microsoft Windows® and Linux operating systems

Release Notes

Document release date: January 2017 (see Document Change Notes)

Software release date: January 2017

Contents

Introduction

This document provides an overview of the changes made to Hewlett Packard Enterprise Cloud Service Automation (HPE CSA) for this release. It contains important information not included in the manuals or in online help.

In this version

HPE Cloud Service Automation (HPE CSA) provides software to integrate specific Hewlett Packard Enterprise products for the purpose of delivering and managing automated services in a cloud computing environment. For more information about integrated products, see the *HPE Cloud Service Automation Solution and Software Support Matrix*.

To ensure the performance and stability of the HPE Cloud Service Automation environment, complete the following tasks before installation begins:

Review supported hardware and software for each component product in order to meet the minimum installation requirements.

Make sure the relevant patches and hot fixes to the patch releases are applied to the component products.

Review the release notes for each component product to be aware of additional changes or restrictions.

Installation requirements

Installation requirements are documented in the *HPE Software Cloud Service Automation Solution and Software Support Matrix*. Instructions for installing HPE Cloud Service Automation are documented in the *HPE Cloud Service Automation Installation Guide*.

Documentation

To access HPE CSA documentation and white papers, go to the following URL and sign in or register:

https://softwaresupport.hpe.com/

Use the Search function at the top of the page to find documentation, white papers, and other information sources.

Support

Visit the Hewlett Packard Enterprise Software Support Online web site at https://softwaresupport.hpe.com/.

To learn more about using the customer support site, go to:

https://softwaresupport.hpe.com/documents/10180/14684/HP_Software_Customer_Support_Handbook/

Fixes in this Release

HPE Cloud Service Automation

Cannot upgrade to CSA 4.7 when BASE DN of LDAP configuration is empty (Oracle only)

ID	QCCR1D229537
Problem	Cannot upgrade to CSA 4.7 when Base DN in LDAP tab in the Organization detail is empty (Oracle only)

Login to consumer organization using SAML is not audited

ID	QCCR1D225885
Problem	Login to consumer organization using SAML is not audited.

CSA46 Patch -> CSA47 upgrade failed

ID	QCCR1D228172
Problem	Cannot log in as **admin**, when **admin** user is present in LDAP.
	hpcloud-idm-service.log contains following error:
	`...`
	`ERROR com.hp.ccue.identity.domain.UserAndRepresentationFactory  -` `Failed to create user admin`
	`...`

IDM service unresponsive after few hours of run. All the threads in IDM blocked during auditing.

ID	QCCR1D228319
Problem	CSA become unresponsive under load and thread dumps contain too many threads blocked on log4j, For example:
	Thread dumps
	`default task-128" #2489 prio=5 os_prio=0 tid=0x000000004191f800 nid=0x93c waiting for monitor entry [0x0000000034bec000]`
	`   java.lang.Thread.State: BLOCKED (on object monitor)`
	`  at org.apache.log4j.Category.callAppenders(Category.java:204)`
	`  - waiting to lock <0x00000006428c41d8> (a org.apache.log4j.Logger)`
	`  at org.apache.log4j.Category.forcedLog(Category.java:391)`
	`  at org.apache.log4j.Category.info (Category.java:666)`
	`  atcom.hp.ccue.identity.service.IdentityServiceImpl.authenticatePassword(Identity ServiceImpl.java:447)`
	`  at com.hp.ccue.identity.service.IdentityServiceImpl.authenticate(IdentityServiceImpl.ja va:168)`
	`  at com.hp.ccue.identity.web.api.IdentityController.authenticate(IdentityController.java :155)`

External Pricing - Correct price is not propagated to service in Propel

ID	QCCR1D226057
Problem	Price is visible while ordering catalog item in Propel but when communicating between Propel and CSA, this price is lost.
	Since propel is creating service subscriptions based on subscriptions in CSA, the price is not visible in Propel either.

After creating an org and configuring LDAP, it takes around ten minutes for the user to log in.

ID	QCCR1D227500
Problem	After configuring LDAP, the user login action throws "Access Denied" error. It takes around ten minutes for the user to log in.

Creating an organization with name containing Chinese characters via Artifact REST API fails

ID	QCCR1D228422
Problem	REST API fails when creating organization with name containing non-Latin characters (For example: Chinese).

Cannot order design with dynamic properties with price when Propel has disabled external pricing

ID	QCCR1D228484
Problem	Orders fail when external pricing is disabled in Propel configuration but Pricing Service is selected in CSA Supplier.

Create organization artifact REST did not honor group entry specified in request payload

ID	QCCR1D228510
Problem	Groups are not created within create organization REST call.

Cannot create group through artifact API using name with non-standard characters

ID	QCCR1D228600
Problem	Cannot use groups in Service Management Console that were created through Artifact API with name containing other characters then alphanumeric and '-'.

Able to Delete Organization with Subscriptions

ID	QCCR1D228622
Problem	Able to delete Organization having service subscriptions

Transfer ownership request is marked as FAILED, but it passed correctly

ID	QCCR1D228716
Problem	Transfer ownership operation fails even after the ownership is successfully transferred. It happens only when the user has different **name** and **displayname**.

IdM Dependency - Async Roster API causing delay in the LDAP sync

ID	QCCR1D227441
Problem	The LDAP user will not be able to login to the CSA or Marketplace Portal immediately after the access control configuration in the organization.

If you have providers with an environment and not force a build provider list/select provider list in the initialize phase, the environment filtering does not happen.

ID	QCCR1D222070 (225115)
Problem	Providers not defined in a resource environment are used during provisioning when internal actions for building and selecting from a resource provider list are not used.

Installation, Initial Configuration, Upgrade, and Uninstallation

Log in to MPP using PIV card fails after upgrading from CSA 4.5 to CSA 4.6

ID	QCCR1D219172
Problem	Log in to MPP using a personal identity verification (PIV) card fails after an upgrade from CSA 4.5 to CSA 4.6. This issue is seen only in Linux environments.

In Content Store UI, filter box **does not** work for capsules installed from file system or while installing by default using CSA installation.

ID	QCCR1D227552
Problem	In Content Store UI, there is a mix of capsules from HPE LN and local files displayed. There is also a filter that allows you to filter the capsules.
	This filtering works only for capsules coming from HPE LN and does not have any effect on capsules installed from local files.

Cloud Service Management Console

Missing String type properties in the **Property Value** text box with Firefox and Chrome browsers.

ID	QCCR1D224553
Problem	When creating or editing a string property on a component type or component template in the Designs / Sequenced / Components areas of the Cloud Service Management Console, the **Property Value** input may not be visible.

Aggregation Fails when Sequential Design Resource Offering Contains Public Actions

ID	QCCR1D228391
Problem	It is not possible to aggregate a design that has 'vCenter Simple Compute - Server Flex CPU' and 'vCenter Simple Compute - Server Flex Memory' public actions assigned as User Operations on Resource Offering and used on Component in design.

Cannot use 'Look Up User' feature when user search base is not configured correctly.

ID	QCCR1D227645
Problem	In Cloud Service Management Console under Organizations tile, select your organization-> LDAP configuration page.
	If user navigates to **"Look Up User"** button at the bottom of the screen and then provide an username for search, (For example: **user1) [**not part of the configured **User Search Base]**, the user will be prompted with an error message - "**A user could not be found in the configured LDAP directory with a user name of user1".**
	This message is not very clear or does not provide a hint for the user to re-configure the right group in **User Search Base.**

Marketplace Portal

HPE Cloud Optimizer (CO) is required for the Monitor Feature function to be realized in CSA 4.7. However, CO will not be released until after CSA 4.7. Support Matrix Needs To Be Updated To Include CO after the release.

ID	QCCR1D227675
Problem	Infrastructure monitoring health status information is not available for infrastructure servers in Market place portal and Server Management Console even after configuring the Cloud Optimizer provider.

Online Help

Launching help content for adding upgrade path in offerings throws page not found error.

ID	QCCR1D228726
Problem	Launching help content for adding upgrade path in offerings throws page not found error.

Known problems, limitations, and workarounds

HPE Cloud Service Automation

General

CO Dependency: CSA CO SSO: Cloud Optimizer is not able to get CSA Organization LDAP details after fixing existing security vulnerability in CSA

ID	QCCR1D234930
Problem	Cloud Optimizer is not able to get CSA Organization LDAP details after fixing existing security vulnerability in HPE CSA
Cause	Code fix is completed to close the security vulnerability. Please ensure to pass the **userIdenttifier** to all the API calls as mentioned in CSA REST API Guide.
Workaround	Hotfix available. Please contact support.

Codar 1.70.RC3. Privacy Statement is missing in Codar Login Page

ID	QCCR1D228812
Problem	The privacy statement does appear to show up on 4.8MR bits on the initial MPP login screen at `/org/<ORG_NAME>`. However, the next IDM screen you are navigated to when clicking "**Log in**" is where the issue lies. The screen apparently should, but does not show the privacy statement.
Cause	Code defect

Workaround	The user could always manually go to the privacy link they have configured for the organizations privacy statement. This link is available in the **Organizations > Organization Name > General Settings** area. Or, the user could simply return back to the main portal login page to view the privacy link.

Resuming a failed upgrade is failing on Oracle PCoE Environment because of the **created_by** and **updated_by** references in the scripts.

ID	QCCR1D235507
Problem	Resuming a failed upgrade is failing on Oracle PCoE Environment because of the created_by and updated_by references in the scripts.
Cause	Resuming a failed upgrade is failing and `csa\_CSA_4_80_0_installation\Logs\install.log` contains error message that UPDATED_BY_ID columns is missing For example error message from Oracle database: `PL/SQL: ORA-00904: "UPDATED_BY_ID": invalid identifier`
Workaround	Restore the database from backup taken prior upgrade and resume the upgrade again.

UserGroup indexing to Elasticsearch REST call throws an exception even though the indexing is fine

ID	QCCR1D227860
Problem	Exception in log file, **csa.log**
Cause	A bug in NodeJS. See https://github.com/nodejs/node/issues/712
Workaround	No workaround is required as this does not influence the search behavior and MPP full text search works.

Orchestration Tile: 403 Error when LDAP Users does not exist in OO

ID	QCCR1D229293
Problem	Operation Orchestration displays: 403 Error when trying to use direct link from HPE CSA using menu **Workflows -> Orchestration** in case that LDAP Users does not Exist in OO
Cause	Caused by defect QCCR8C32250 in product HPE Operation Orchestration
Workaround	Modify URL of HPE Operation Orchestration to end with `/oo/login/login-form` or use seeded user admin for login to HPE CSA.

SSO - session not invalidated while logout/login as different user in OO

ID	QCCR1D232747
Problem	When CSA is configured with HPSSO which is a default in 4.8 (documentation contains steps how to disable it for FIPS mode), it will fail to logout user from CSA when the user performs logout action in other integrated product like HPE OO followed by login as different user in HPE OO. HPSSO does not have central server to handle logout. Programs using HPSSO do not need to know each other as long as shared secret used for encryption and validation of cookie is same.
Cause	In CSA the Management Console in `csa.war` uses IdM tokens as means to authenticate users. HPSSO tokens are recognized only by Identity Management (IdM) component, but not by CSA Management Console. When there is no session with Management console, the `csa.war` will redirect user to IdM which will validate and consume HPSSO cookie to produce IdM token for Management Console.

	CSA Management Console will perform logout when it is accessed while the HPSSO cookie is missing (due to logout in other product which deletes the cookie).
	But if CSA Management Console is accessed after logout followed by login in other product, then it will not detect the logout (it does not inspect cookie contents, it cannot decrypt it, in CSA only IdM component can decrypt it) and keep session established with original user identified by IdM token.
	Sessions are still limited by token expiration. IdM tokens expire after 30 minutes by default, though there is process to extend their lifetime if done within these 30 minutes.
Workaround	Multiple options: - Turn off HPSSO if its functionality is not desirable. - Perform logout in CSA, not in HP E OO. - After performing logout in HPE OO, access HPE CSA so HPE CSA notices the cookie got deleted and it will perform logout, before continuing in to login as different user in HPE OO.

SQL statement execution timeout cannot be applied to install/upgrade scripts.

ID	QCCR1D235119
Problem	upgrade fails with "**Read timed out**" during processing `"csa_remove_createdby_updatedby.plsql"` file on SQL Server (check `CSA\_CSA_4_80_0_installation\Logs\install.log` to ensure it)
Cause	`csa_remove_createdby_updatedby.plsql` contains ALTER TABLE ... REBUILD statements that goes through all rows in table. So the REBUILD operation could timeout on huge databases.

Workaround	1) Edit `CSA\scripts\mssql\csa_remove_createdby_updatedby.plsql` and comment out all "ALTER TABLE ... REBUILD" statements at the end of the file. You can comment it out by enclosing all REBUILD statements to /* and */ (SQL comments). Save the file.
	  2) Restart the upgrade process. It should end successfully.
	  3) After upgrade it is recommended to apply the commented REBUILD statements manually, For example, using **Microsoft SQL Server Management Studio**.
	Note: It could take several hours on big databases with millions of artifacts.

Semantic Validation for properties in User Operations->Public Action fails to recognize the variable

ID	QCCR1D235209
Problem	If [CLIENT:<prop>] token is used as parameter value of semantic validation parameters, then test (validation) fails with following error message: `Option property with the name <prop> is not found. If this refers to a new property, ensure that it is saved.` Test fails even if the [CLIENT:<prop>] is used on property <prop> and user filled "**Input Validation**" input fields. Note: it is test issue only. In runtime tokens are resolved correctly.

Cause	1) if token [CLIENT:<prop>] is used as parameter value of validation parameter on user operation parameter <prop>
	    and user filled Input Validation field input
	  -> it is caused by UI, which does not replaces the [CLIENT:<prop>] token with string entered to Input Validation input field.
	 2) if token [CLIENT:<prop>] refers to another parameter of user operation
	  -> it is caused by backend, which does not resolve tokens pointing to parameters of user operation when test is requested
	 3) if token [CLIENT:<prop>] refers option model property
	  -> such token cannot be resolved because
	    a) user operation does not have access to option model (e.g., user operation is on resource offering),

	b) option model can define more than one property of the name, so it is not possible to identify the property
Workaround	For all causes 1), 2), and 3) the workaround is * enter value instead of token [CLIENT:<prop>] used as user operation parameter value - once tested, change parameter value back to the token

CSA 3.2 to 4.8 upgrade path-   the increment and decrement quantity field in shopping cart is not showing or working properly

ID	QCCR1D234010
Problem	The increment and decrement quantity field in Marketplace Portal shopping cart does not show increment/decrement buttons in Internet Explorer.
Cause	Standard UI widget for number input type does not include increment/decrement buttons in Internet Explorer.
Workaround	Enter quantity manually.

In CSA 4.8 Content Store, after installing a content through file, if we try installing the same content through HPLN, it does not prompt for re-install dialog in the first attempt.

ID	QCCR1D235356
Problem	CSA 4.8 Content Store, after installing the content from file system, if we try installing the same content through HPLN, it does not prompt for re-install dialog box in the first attempt.
Cause	Product Limitation
Workaround	1. Install the content from file system. 2. Install the same content from the HPLN site (it will fail for the first time). 3. Re-attempt because all subsequent attempts to install the same content from HPLN site will succeed and the re-install dialog box will appear. Refresh the browser after every attempt in case the browser is slow or lagging.

Import Preview fails for a design while the actual Import succeeds with the same design

ID	QCCR1D235590
Problem	Import Preview fails while previewing the import of a design from an upgraded CSA instance into a fresh CSA 4.8 instance.
Cause	A constraint violation is indicated in the Preview
Workaround	Result of Import Preview can be ignored, and the design can be imported by clicking on Import button instead.

CO URL in csa.war/dashboard/config.json file has changed to default value after Upgrade to CSA 4.8.

ID	QCCR1D234938
Problem	CO URL in csa.war/dashboard/config.json file has changed to default value after Upgrade to CSA 4.8.
Cause	Structural changes to the config.json file that is the New Dashboard changes
Workaround	If you have made customizations to the config.json for the CSA launchpad/dashboard you will need to manually re-apply those after upgrade due to structural changes to the config.json file with the addition of the new interactive dashboard.

SAML configuration got reset after upgrading to 4.8 with 1.10.4-129 IdM build

ID	QCCR1D234038
Problem	SAML configuration is lost after upgrade to CSA 4.8 from CSA 4.7

Cause	Process Limitation
Workaround	If SAML is configured in CSA 4.7 and you have upgraded to CSA 4.8, you need to configure SAML again.

Cloud Optimizer (CO) Dependency: When the VM is powered OFF, CO is not sending the ideal data points (zero values) to be displayed for Memory and CPU graph in Health tab.

ID	QCCR1D225958
Problem	Missing data points when VM is powered OFF or Suspended.
Cause	Unable to plot the graph for missing data points.
Workaround	No workaround available.

Health status is not updated for servers deployed on Helion Openstack (HOS) provider.

ID	QCCR1D228220
Problem	Health status is not updated for servers deployed on Helion Openstack (HOS) provider.
Cause	CSA is unable to retrieve the health status since Cloud Optimizer (CO) is not supporting HOS 3.0.
Workaround	It is a product limitation. No workaround available.

Global search/ Elastic Search (ES) from MPP not working in a Linux CSA installation

ID	QCCR1D228619
Problem	Global search from MPP portal does not work in a Linux CSA installation
Cause	CSA Search service fails to update the Elasticsearch indices as a result of which Global search from MPP returns nothing
Workaround	After CSA installation is complete, or after a CSA restart, stop the CSA Search service and restart it manually by following the steps below: If CSA was installed in a location other than /usr/local/hp/csa, adjust the path accordingly.

Installation, Initial Configuration, Upgrade, and Uninstallation

IdM Dependency -- Upgrade Blocker - Upgrade from 4.6 to 4.8 is failing for windows with MS-SQL database

ID	QCCR1D234418
Problem	Upgrade from 4.6 to 4.8 is failing for windows with MS-SQL database
Cause	Snapshot Isolation not enabled for idm

Workaround	For Microsoft SQL Server, it is mandatory to enable the snapshot isolation for Identity management database which can be achieved through following two database statements:
	
	`ALTER DATABASE idmdb SET ALLOW_SNAPSHOT_ISOLATION ON;`
	
	`ALTER DATABASE idmdb SET READ_COMMITTED_SNAPSHOT ON;`

After an HA upgrade, the Elasticsearch configuration file resets and custom changes in the `elasticsearch.yml` file are lost

ID	QCCR1D218883
Problem	Custom changes in Elasticsearch configuration may be discarded during an HA upgrade installation.
Cause	Product defect.
Workaround	Custom changes from upgraded installation are stored in a backup folder in `/elasticsearch/config/`. Transfer custom changes from the older installation file into the upgraded file.

SAML Authorization will not work for the CSA Provider, if the access control is provided at the Organization Unit (OU) Level.

ID	QCCR1D227598
Problem	The SAML Authorization does not work if the access control is configured with the LDAP sub tree.
Cause	CSA does not support the LDAP sub tree for Access Control (ACL) when SAML is enabled.
Workaround	None

Cloud Service Management Console

TA GUI DEFECT: **Operations** UI: In **Operations** Overview page, the "**Subscription Status**", "**Service Instance Status**" and "**Upgradable To**" fields go out of focus and get shifted to the bottom of the overview page.

ID	QCCR1D235063
Problem	"**Subscription Status**", "**Service Instance Status**", and "**Upgradable To**" fields go out of focus and get shifted to the bottom of the **Operations** Overview page.
Cause	This is a Chrome browser issue in version 52 through version 55.
Workaround	Use Chrome 56 and above version to avoid this problem.

SMC login is failing if we disable HP SSO Only configuration manually on CSA 4.8 HA build#1500

ID	QCCR1D234562
Problem	SMC login fails if we disable HP SSO configuration manually on CSA 4.8 HA
Cause	Product limitation

Workaround	Open the file `$CSA-HOME\jboss-as\standalone\deployments\csa.war\WEB-INF\applicationContext-security.xml` and set **checkSSOCookie** value to **false** in the below mentioned section of bean and restart CSA service.
	
	`<beans:bean id="tokenValidityFilter"class="com.hp.csa.security.TokenValidityFilter">`
	
	`<beans:property name="checkSSOCookie" value="true"/>`
	
	`</beans:bean>`

IDM Dependency - HPSSO: timeouts for HPSSO does not work for SMC portal

ID	QCCR1D230155
Problem	SMC portal does not get logged out upon HP SSO timeout.
Cause	Product limitation
Workaround	No workaround currently available

Invalid users are listed when we try to manage user subscriptions

ID	QCCR1D230605
Problem	Manage User Subscriptions under Administration of MPP lists few users unauthorized to access the MPP
Cause	Product limitation
Workaround	No workaround currently available

Even If the actions fails during cancellation, the subscription would go offline. However the resources may not be deallocated.

ID	QCCR1D235314
Problem	Even if the undeploy/unreserving actions fails during cancellation, the subscription will go offline. However the resources may not be completely deallocated.
Cause	This is because of a limitation in the architecture that does not allow to pause/resume the failed actions during cancellation.
Workaround	No workaround available

Currently we do not support hybrid cloudslang-AFL flows in any combination

ID	QCCR1D232661
Problem	Currently we do not support hybrid Cloud Slang-AFL flows in any combination.
Cause	It is a product limitation.
Workaround	The procedure on 'Creating a topology Design with CloudSlang' is available in the Topology Components Guide (Whitepaper). Refer to this guide for a workaround information.

Imported topology component does not present a list of values for a multi-select Input property

ID	QCCR1D186068
Problem	When importing an Operations Orchestration flow in the Designs / Topology / Components area of the Cloud Service Management Console, if that flow contains an Input property with **Type** value of **List of Values** and **From** value of **Prompt User from List – Selection List**, the resulting component imported into CSA will have a property value of type **String** for this Input property. Instead of a list of values from which one or more can be selected, a single text input will be presented to the user for this property in both the Components and Designer areas.
Cause	The Designs / Topology / Components and Designs / Topology / Designer areas of the Cloud Service Management Console do not have graceful support for multi-select properties such as these.
Workaround	In the text input for such a property, encode the property values using the appropriate delimiter, which is determined by the method the flow uses to parse the **Input** property. If the flow uses the Selection List Iterate operation that is provided with the Base content pack in Operations Orchestration, the delimiter (separator) is configurable and has a default of '|'. For example, the values 'red', 'green', and 'blue' would be specified as 'red|green|blue' (unquoted) if using the Selection List Iterate operation with the default separator value.

Topology component Boolean and Integer properties are not correctly mapped to Chef Attributes.

ID	QCCR1D187711
Problem	Topology components imported from Chef include an attributes parameter in their deploy operation, allowing customization of the provisioning of the Chef recipe. Properties passed in the attributes parameter are automatically converted to Strings. For example, an Integer component property of `3306` will be converted to `"3306"`, and a Boolean component property of `true` will be converted to `"true"`. If the Chef recipe is written to expect an Integer or Boolean input and not a String, the provisioning of the component will fail.
Cause	Product limitation.
Workaround	The Chef recipe should be written or modified to expect String inputs.

Featured Category list is blank when an organization is created

ID	CR1D226494
Problem	The Featured Category list is empty for a newly created organization
Cause	The organization data synchronization is not complete after a new organization is created in IDM tables.
Workaround	After the synchronization is completed, the catalogs and featured category list will appear. (~30 seconds)

Marketplace Portal

MPP - Groups the user belongs to is not displayed during the submit and modify operations

ID	QCCR1D233354
Problem	In MPP Service checkout page for an offering, the group list shows only the DNs that are added in the access control of the organization, it does not list all the groups to which the user belongs in LDAP.
Cause	This behavior is currently unsupported in CSA. In order to show the group in group list, all the groups need to be explicitly mentioned in the organization access control.
Workaround	None

MPP shows **Pending**, please refresh continually for a paused subscription.

ID	QCCR1D234644
Problem	Misleading icon displayed in MPP. If an organization is set to Pause Subscriptions on Provisioning error and a subscription fails, MPP shows right status as Paused but the icon is wrong. Spinner is displayed in MPP instead of Pause icon.
Cause	Wrong HTML in MPP code base.
Workaround	No workaround is required. Inappropriate icon is displayed.

Cannot launch the show performance page using SSO from MPP

ID	QCCR1D228672
Problem	Cannot launch the show performance page using SSO from MPP.
Cause	SSO token is not passed correctly.

| Workaround | User can login to Cloud Optimizer manually by entering username and password. |

Deprecation Announcements

Delegated topology service components

Delegated topology service components have been deprecated in HPE CSA since version 4.60. A delegated topology service component is only available if you have upgraded from HPE CSA version 4.50 or earlier AND a delegated topology service component was configured in version 4.50 or earlier. Delegated topology service components cannot be created in HPE CSA version 4.60 or later. Sequenced designs with delegated topology service components cannot be created and should not be copied, imported, or cloned in HPE CSA 4.60 or later.

Operations Orchestration version 9.07 support

Support for Operations Orchestration (OO) 9.07 will be deprecated in a future release.

End-of-Support Announcements

"Select Resource Pool from Provider" internal action

The previously deprecated internal action, "Select Resource Pool from Provider," has been removed. Use the "Select Resource Provider and Pool" action in conjunction with the "Build Resource Provider and Pool List" action in place of this action.

Document Notes

Date	Description
January 2017	Original release of document for GA
January 2017	Updated the document for QCCR1D235063

Service Designs and Content Packs

Support for the following service designs and Operations Orchestration content packs has now ended. CSA 4.50 was the last release to support this content. The content will not be available in future CSA releases; instead, use content that is either included as part of the product content Installer or visit the HPE Live Network at https://hpln.hpe.com/node/143/cc for the latest content capsules compatible with your environment.

```
CSAKit-4.5/Content Archives/sequenced/matrix operating
environment/CSA_BP_MOE_COMPUTE_ADM_SITESCOPE_UCMDB_v3.20.00.zip

CSAKit-4.5/Content Archives/sequenced/matrix operating
environment/CSA_BP_MOE_COMPUTE_ADM_v3.20.00.zip

CSAKit-4.5/Content Archives/sequenced/matrix operating
environment/CSA_BP_MOE_COMPUTE_CUSTOM_PROVIDER_SELECTION_v3.20.00.zip
```

CSAKit-4.5/Content Archives/sequenced/matrix operating environment/CSA_BP_MOE_COMPUTE_DMA_JBOSS_SITESCOPE_UCMDB_v3.20.00.zip

CSAKit-4.5/Content Archives/sequenced/matrix operating environment/CSA_BP_MOE_COMPUTE_DMA_JBOSS_v3.20.00.zip

CSAKit-4.5/Content Archives/sequenced/matrix operating environment/CSA_BP_MOE_COMPUTE_MT_v3.20.00.zip

CSAKit-4.5/Content Archives/sequenced/matrix operating environment/CSA_BP_MOE_COMPUTE_SITESCOPE_UCMDB_v3.20.00.zip

CSAKit-4.5/Content Archives/sequenced/matrix operating environment/CSA_BP_MOE_COMPUTE_SOAPV4_v3.20.00.zip

CSAKit-4.5/Content Archives/sequenced/matrix operating environment/CSA_BP_MOE_COMPUTE_STANDALONE_DMA_JBOSS_v3.20.00.zip

CSAKit-4.5/Content Archives/sequenced/matrix operating environment/CSA_BP_MOE_COMPUTE_v3.20.00.zip

CSAKit-4.5/Content Archives/sequenced/network automation/CSA_BP_NA_VIRTUAL_NETWORK_v3.20.00.zip

CSAKit-4.5/Content Archives/sequenced/openstack/CSA_BP_OPENSTACK_HPCS_COMPUTE_v3.20.00.zip

CSAKit-4.5/Content Archives/sequenced/vmware vcenter/CSA_BP_VCENTER_COMPUTE_ADM_SITESCOPE_UCMDB_v3.20.00.zip

CSAKit-4.5/Content Archives/sequenced/vmware vcenter/CSA_BP_VCENTER_COMPUTE_ADM_v3.20.00.zip

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