Hewlett Packard Enterprise

Cloud Service Automation

Release Notes

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.hp.com/

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

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

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

Support

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

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

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

Fixes in this Release

HPE Cloud Service Automation

Installation, Initial Configuration, Upgrade, and Uninstallation

When HPE Single Sign-On (HPE SSO) is enabled in a CAC environment, logging out from the Cloud Service Management Console does not automatically log you out of other applications that have been configured for HPE SSO with CSA

ID	QCCR1D203795
Problem	When HPE Single Sign-On is enabled in a Common Access Card (CAC) environment, logging out from the Cloud Service Management Console does not automatically log the user out of other applications that have been configured for HP SSO with CSA, such as Operations Orchestration.

Error when running the SchemaInstallationTool

ID	QCCR1D207836
Problem	When running the SchemaInstallationTool in the `%CSA_HOME%\Tools\SchemaInstallationTool` directory when Oracle was chosen as the database to use with CSA, the following exception may appear (the precise path in the message will vary based on the path that was chosen to install CSA): `"C:\Program Files\Hewlett-Packard\CSA\jboss-as\modules\com\oracle\ojdbc7\main does not exist."`

Blue screen appears in the Marketplace Portal when selecting a service offering that is based on an OpenStack design

ID	QCCR1D208288
Problem	When using the provider tool (in `%CSA_HOME%\Tools\ProviderTool`), it is possible to delete required properties from a previously created OpenStack provider. This deletion can cause a blue screen to appear in the Marketplace Portal when selecting a service offering that is based on an OpenStack design. This blue screen will only occur when the service offering has been associated to a catalog containing one or more environments, one of which contains this provider.

Cloud Service Management Console

A blue screen displays when viewing the Request Details page in the Marketplace Portal for a request pertaining to an OpenStack based topology design

ID	QCCR1D205242
Problem	When viewing the Request Details page in the Marketplace Portal for a request pertaining to an OpenStack based topology design, a blue screen may be displayed. This situation only occurs when the OpenStack based topology design uses **List** subscriber option properties that are configured for **Dynamic Entry** and when the configuration of OpenStack providers is not as described in the Workaround below.

When copying a design using the **Save As** button, tags associated with the source design are not copied

ID	QCCR1D206870
Problem	When copying a topology design or sequenced design using the **Save As** button, any tags associated to the source design will not be copied to the newly created design.

Importing content archives containing catalogs, service offerings, and service designs is slow

ID	QCCR1D207330
Problem	Importing content archives containing catalogs, service offerings, and service designs can be slow if the underlying service design's resource offerings are shared by multiple service designs (at least 10 or more) in the system. Similarly, the import operation could also be slow if there are multiple service offerings in the system based on the same service design from the content archive.

Service design deletion fails with an Internal Server Error message

ID	QCCR1D207655
Problem	When attempting to delete a sequenced service design in the Cloud Service Management Console for which there are associated Active or Failed subscriptions, the deletion will fail with an Internal Server Error message.

Configuring the Value Range for an editable Integer subscriber option property can be difficult to enter because the maximum value is automatically corrected to be greater than the minimum value as you type

ID	QCCR1D207730
Problem	Configuring the **Value Range** for an editable **Integer** subscriber option property can be difficult to enter because the maximum value is automatically corrected to be greater than the minimum value as you type. For example, if the minimum value is set to be 10 and you would like to set the maximum value to be 60, entering the digits 60 will result in a maximum of 100, because the digit 6 will be automatically converted to a 10 when it is entered.

Erroneous warning message appears when publishing a service offering to a catalog

ID	QCCR1D208075
Problem	When publishing a service offering to a catalog, an erroneous warning message appears when both of the following are true: • The service offering was created from a topology design that includes a component with no associated provider type. • The catalog is associated with one or more non-empty environments. In this scenario, the warning message "No resource environment with provider null, which is needed for the topology design <design name>, is associated with the catalog <catalog name>." will be displayed.

In the Subscriber options tab for a topology design, clicking the **Refresh Data** icon for a **Dynamic Entry List** property may produce no results or display an error message that the JSP could not be found

ID	QCCR1D208116
Problem	In the Designs / Topology / Designer area of the Cloud Service Management Console, in the Subscriber Options tab for a design, clicking the **Refresh Data** icon for a **Dynamic Entry List** property may produce no results or display an error message that the JSP could not be found. This is particularly an issue for OpenStack designs that make use of JSPs for retrieving values such as flavor, image, and subnet from an OpenStack provider in order to allow a subscriber to select the appropriate values when subscribing to an offering for the design. If no OpenStack provider has been defined, or one has been defined but is slow to respond, no results will be displayed when clicking **Refresh Data**. If a provider has been defined but is not correctly configured, an error message indicating the JSP could not be found is displayed.

Property values for a parameter named 'propertyName' do not display in the Marketplace Portal

ID	QCCR1D208830
Problem	If a sequenced design includes a **Dynamic Query List** subscriber option property that includes an HTTP Request Body that passes a parameter named 'propertyName', the resolved values for this property will not be displayed to a subscriber in the Marketplace Portal.

Marketplace Portal

Error when attaching a screenshot image to a service offering

ID	QCCR1D176173
Problem	Attaching a screenshot image to a service offering in the Cloud Service Management Console may not work for a particular .jpeg image file when CSA is configured to use OpenJRE.

Error message `"503 - There is some problem on server"` is displayed when deleting the default catalog

ID	QCCR1D204864
Problem	When logged in as a Consumer Organization Administrator in the Marketplace Portal, if the user tries to delete the default catalog, the message `"503 - There is some problem on server"` is displayed.

The count displayed in the Offering Management or Catalog Management area may present an incorrect count of offerings or catalogs

ID	QCCR1D205444
Problem	When logged in as a Consumer Organization Administrator to the Marketplace Portal, viewing the offerings in the Offering Management area or the catalogs in the Catalog Management area may present an incorrect count of the number of offerings or catalogs. The count displayed may be larger than the number of offerings or catalogs shown. In addition, when scrolling the list of offerings or catalogs, duplicate items may appear.

List property values do not regenerate in the Marketplace Portal for a service offering based on an OpenStack based topology design

ID	QCCR1D205979
Problem	When ordering a subscription in the Marketplace Portal for a service offering based on an OpenStack based topology design that uses **Dynamic Entry** subscriber option **List** properties to retrieve provider specific values for subscriber selection, the list of values does not always properly regenerate as environment or provider selections are made by the subscriber. For example, if you first select a specific OpenStack provider, then change your selection to **Any Environment**, and then select the same provider again, the list property values may not regenerate.

In the Portal Customization section of the Cloud Service Management Console, if you enter a **Copyright** value that contains only digits, this causes the Application Name, Welcome Message, and Copyright values to be missing from the login screen in the Marketplace Portal for the consumer organization

ID	QCCR1D206962
Problem	If a **Copyright** value that contains only digits, such as 2015, is entered in the Portal Customization area for a consumer organization in the Organizations tile of the Cloud Service Management Console, the Application Name, Welcome Message, and Copyright values will all be missing on the login screen in the Marketplace Portal for the consumer organization.

After expanding **Price Breakdown** on the Request Details page for a request in the Marketplace Portal, if a **Multi-Select** subscriber option **List** property had multiple values selected by the subscriber, some of the selections may not be visible on the screen.

ID	QCCR1D207264
Problem	After expanding **Price Breakdown** on the Request Details page for a request in the Marketplace Portal, if a **Multi-Select** subscriber option **List** property had multiple values selected by the subscriber, some of the selections may not be visible on the screen.

Properties in the subscriber options panel are not ordered the same way as in design in offerings and MPP

ID	QCCR1D217935
Problem	In HPE CSA 4.6, you can set the order of option properties in the Option Model UI. Option properties are no longer displayed in alphabetical order by default and dependent properties are not moved next to parent properties. Option properties are displayed in the Marketplace Portal following the order specified during Option Model configuration. Option properties are displayed in alphabetical order for existing offerings that do not have the property order configured.

Online Help

The Cloud Optimizer tile in the Cloud Service Management Console is not discussed in the Cloud Service Management Console help

ID	QCCR1D207149
Problem	The Cloud Optimizer tile in the Cloud Service Management Console is not discussed in the Cloud Service Management Console help.

Cloud Service Management Console online help does not mention two of the valid topology component import sources

ID	QCCR1D207152
Problem	The Cloud Service Management Console help does not mention two of the valid topology component import sources. HPE Insight Control server provisioning and HPE OneView are supported import sources for topology components.

Cloud Service Management Console online help incorrectly uses the term *infrastructure design* instead of the term *microservice design*

ID	QCCR1D207239
Problem	The Cloud Service Management Console help uses the term 'infrastructure design' to identify concrete designs that meet the needs of one or more capabilities present in a partial design. The infrastructure design term is no longer used in the Cloud Service Management Console. Concrete designs that meet the needs of a particular capability in a partial design are now referred to as microservice designs. The selection of one or more microservice designs during a **Test Run** operation is now made on a **Design Composition** step during the **Test Run** wizard.

Cloud Service Management Console online help incorrectly states that published service designs cannot be unpublished

ID	QCCR1D207385
Problem	The Cloud Service Management Console help incorrectly states that published service designs cannot be unpublished. Published designs can now be unpublished as long as no service offerings exist for the design and as long as no active subscriptions exist for a topology design.

Integrations with HPE CSA

HPE Operations Orchestration

Provisioning fails for a Puppet topology component provisioned on a Linux system

ID	QCCR1D208580
Problem	When a Puppet topology component is provisioned on a Linux system that does not contain the `/opt` directory, the provisioning will fail.

Known problems, limitations, and workarounds

HPE Cloud Service Automation

General

Reaper service does not clean up the TOKENSTOREOBJECT database table in IDM DB, resulting in high Disk IO on database server

ID	QCCR1D210583
Problem	The accumulation of 600k or more rows results in high Disk utilization on the IDM database. This can increase the time to authenticate during login to MPP and CSA.
Cause	High Disk utilization is a result of database indexes of TOKENSTORE table in IDM DB being too fragmented from frequent reads and writes.
Workaround	1. Stop CSA and MPP. 2. Truncate the TOKENSTOREPBJECT database table when this issue is observed. Or Rebuild Indexes on TOKNSTORE object table periodically.

Installation, Initial Configuration, Upgrade, and Uninstallation

The IDM `applicationContext.properties` file has unused properties defined

ID	QCCR1D204074

Problem	Within the IDM .war file, the `applicationContext.properties` file has the following configuration properties:
	`# Database connection settings`
	`idm.persistence.connection.driver.class = org.postgresql.Driver`
	`# Update this url to have your correct information`
	`idm.persistence.connection.url = jdbc:postgresql://<database host>:<database port>/<database name>`
	`# Database connection user settings`
	`idm.persistence.connection.username = <username>`
	`idm.persistence.connection.password = <password>`
	`# JDBC connection pool (use the built-in)`
	`idm.persistence.connection.pool_size = 10`
	
	These properties have no effect in CSA and can be cleared.

Cause	These properties are used by IDM when it serves the organization management. CSA manages the organizations on its own and does not use these property values.
Workaround	There is no workaround. Changing these properties does not have any effect on CSA setup.

When a Marketplace Portal user attempts to access another HPE product through a Marketplace Portal link, the user is redirected to that product's login screen even though HP SSO was enabled at installation time

ID	QCCR1D208828
Problem	When the user selects **Enable HP SSO** in the CSA Installer, the configuration files in IDM are not automatically configured for HPE Single Sign-On (SSO), which causes HPE SSO integration not to work correctly in the Marketplace Portal. When a Marketplace Portal user attempts to access another HPE product through a Marketplace Portal link, the user will be redirected to that product's login screen.
Cause	Installation defect.

Workaround	Follow the instructions in the *HPE CSA Configuration Guide* regarding how to configure HP SSO in IDM. In particular, the following four files will require manual configuration for HP SSO, as discussed in the *HPE CSA Configuration Guide*:
	`%CSA_HOME%/jboss-as/standalone/deployments/idm-service.war/WEB-INF/web.xml`
	`%CSA_HOME%/jboss-as/standalone/deployments/idm-service.war/WEB-INF/hpssoConfig.xml`
	`%CSA_HOME%/jboss-as/standalone/deployments/idm-service.war/WEB-INF/spring/applicationContext-security.xml`
	`%CSA_HOME%/jboss-as/standalone/deployments/idm-service.war/WEB-INF/spring/applicationContext-v0.xml`

Stack trace is displayed at login page

ID	QCCR1D214210
Problem	A stack trace may be displayed on the login page.
Cause	Defect in WildFly application server.
Workaround	Close and reopen the browser and log in again.

Logging on to MPP logs the user out from Service Management Console and OO

ID	QCCR1D218437
Problem	In a CSA/Codar installation with HPE Single Sign-On (SSO) enabled, when a user logs on to SMC and MPP using the same browser, all other users are logged out from SMC.

Cause	Product defect.
Workaround	Log in again.

A security warning is displayed about an OO upgrade when a new embedded OO is installed

ID	QCCR1D218563
Problem	In a CSA Linux installation, if you choose to use an existing OO installation, and then to use embedded OO instead, the following security warning is displayed: `HPE Recommends to upgrade to HPE OO 10.50 to have more secure CSA-OO integration.` This security warning is redundant.
Cause	Product defect.
Workaround	Ignore the redundant security warning.

The HPE Single Sign-On (SSO) between CSA 4.60 and Standalone OO 10.50 is not established during an upgrade from CSA 4.20 Patch 2 to CSA 4.60

ID	QCCR1D218817
Problem	HPE SSO is not established when upgrading from a previous CSA version, and only when SSO between CSA and OO was enabled and is using the default initString. There is a new security enhancement during which the upgrade detects that the initString used for SSO communication is the default initString. In this case, the initString is regenerated in CSA side and an attempt to change the initString is made in OO. In the first part of this attempt, CSA asks OO whether SSO is already enabled. If the response is yes, CSA does not change SSO because that could break the SSO already enabled in OO. For example, external OO can be configured to use SSO with other products.
Cause	This behavior is a feature, intended to not break OO SSO once it is configured during a CSA upgrade.
Workaround	Redo the initString configuration in OO after upgrade. Use the same initString value that is used by CSA.

Windows error message that the `Welcome.html` file cannot be found during external MPP upgrade is displayed

ID	QCCR1D218882
Problem	When upgrading external MPP on a Windows environment, you may see a warning at the end of the installation that Windows cannot find the `Welcome.html` file.
Cause	Product defect.
Workaround	Ignore the warning message.

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.

vCenter Compute with Basic Options CSL design's MPP notification on deployment or change in subscription is not done cleanly

ID	QCCR1D219104
Problem	When upgrading from CSA 4.50 to CSA 4.50 Patch 1 to CSA 4.60 using external OO 10.20.0001, the notification list header includes the subscription name, but not under the Subscription column. This is because the OO base content pack does not have the current updates required to work correctly with CSA 4.60. Resolution to this is to load oo10-csa-integrations-cp-4.50.0000.jar manually. This version of the content pack includes a defect fix that addresses this issue.

Cause	The latest CSA integrations content pack *oo10-csa-integrations-cp-4.50.0000.jar* is not deployed in OO central during the CSA upgrade (4.50 to 4.50 Patch 1 to 4.60) with external OO 10.22.
	This problem happens because during CSA upgrade, the installer does not redeploy the same version of integration of content pack which has notification fix (*oo10-csa-integrations-cp-4.50.0000.jar*) which is already present in OO central.
Workaround	Manually redeploy the latest *oo10-csa-integrations-cp-4.50.0000.jar* file to OO central again. The .jar file can be found in the `CSA_HOME\CSAKit-4.5\OO Flow Content\10X` directory.
	For external OO Central versions earlier than 10.50, use the following file:
	csa-integrations content pack oo10-csa-integrations-cp-4.50.0000.jar
	For external OO Central version 10.50, use the following file:
	csa-integrations content pack oo10.50-csa-integrations-cp-4.60.0000.jar

Custom keystore and custom signed certificate details in the `csa-search-service\app.json` file are reset to default values after upgrading HA from CSA 4.5 Patch 1 to CSA 4.6.

ID	QCCR1D219155
Problem	Custom changes in the search service configuration may be discarded during upgrade installation.
Cause	Product defect.
Workaround	Custom changes from the upgraded installation are stored in the backup folder (`backup\csa-search-service\app.json`.) Transfer custom changes from the older installation file into the upgraded file.

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.
Cause	The default HPE SSO value is incorrect in the CSA 4.5 environment prior to the upgrade. The upgrade process does not properly update the `idm.war` file, resulting in HP SSO not functioning correctly after the upgrade.
Workaround	Edit the `idm.war/WEB-INF/web.xml` file. Find the section below and change `web.xml` to `hpssoConfig.xml.` and then restart the CSA service:

```
  <listener>
        <listener-class>com.hp.hpsso.HpSsoContextListener</listener-
class>
      </listener>


    <context-param>
        <param-
name>com.hp.sw.bto.ast.security.lwsso.conf.fileLocation</param-name>
        <param-value>/usr/local/hp/csa/jboss-
as/standalone/deployments/idm-service.war/WEB-INF/web.xml</param-
value>
        </context-param>
```

Foundation-based bootstrap customizations made to IDM login page do not work with CSA 4.6

ID	QCCR1D219223
Problem	Custom themes for the portal login screen created in releases prior to CSA 4.6 no longer function and the appropriate locations have changed.
Cause	Due to technology changes in CSA and IDM, custom themes that were created for the Marketplace Portal and IDM login page are no longer compatible and must be recreated.
	This change impacts themes located in `CSA/jboss-as/standalone/deployments/idm-service.war/ui`.

	No changes have occurred with custom themes that are specific to the Marketplace Portal in the `CSA/portal` directory.
Workaround	Recreate the custom theme. Themes for the Portal login page are now located in the `CSA/jboss-as/standalone/deployments/idm-service.war/ui/bower_components/<theme name>` directories. The two example directories shipped with CSA are HP Enterprise and HP Playful.
	Themes are based on an `app.css` file located in the specific theme folder. In the past the file was called `main.css`.
	To recreate a custom theme, create a new folder using the theme name, copy the files from either the HP Enterprise or the HP Playful folder, and make the customizations that existed in the previous custom theme.
	For more information, see the *Marketplace Portal Customization* white paper.

After upgrading from CSA 4.20 Patch 2 to CSA 4.60, service offerings created prior to CSA 4.x are not displayed in CSA 4.6 MPP dashboard Browse catalogs

ID	QCCR1D219249
Problem	After upgrading from CSA 4.20, CSA 4.20 Patch 1, CSA 4.20 Patch 2, CSA 4.50, or CSA 4.50 Patch 1 to CSA 4.60, service offerings that were created prior to CSA 4.x are not displayed in CSA 4.60 MPP dashboard Browse catalogs. These offerings are shown in the CSA 4.60 SMC catalog offerings, and in the CSA 4.20 MPP dashboard catalogs.
Cause	Product defect.
Workaround	There is no workaround.

Upgrade from CSA 4.2 to CSA 4.6 completes successfully but a FileNotFoundException error is displayed in the install error log

ID	QCCR1D219349
Problem	Upgrade from CSA 4.2 to CSA 4.6 completes successfully, but the CSA Install_Error log file has the following error message: `ERROR :HPE OO import cert: Cannot read specified file .java.io.FileNotFoundException.`
Cause	The certificate for detected embedded/external OO is correctly exported from OO and imported to new oracle jre. This is the reason CSA works fine.
	The exception displayed in the log file is due to a second attempt in the code to import a certificate specified by the user. This is a code defect. The call to import a certificate fails when there is no certificate specified by the user, and an error is displayed in the log. The return value of the failed call is not used by the calling code, so the installation continues without a problem.
	This problem occurs only when upgrading using detected embedded OO and oracle jre or openjre.
Workaround	No Workaround is needed. Ignore the exception error in the log file. The import of the certificate fails, but this has no impact because the certificate was previously imported.

Uninstallation of CSA 4.6 that was upgraded from 4.2 with embedded OO does not uninstall OO when both products are installed in non-default folders

ID	QCCR1D219454
Problem	After upgrading of CSA from 4.2 to 4.6 with embedded OO, OO is not uninstalled during uninstallation of CSA.
Cause	Product defect.
Workaround	Manually uninstall embedded OO after uninstalling CSA.

In the applicationContext-security.xml file, after an upgrade the idmConfig hostname is restored, but the port number is not restored

ID	QCCR1D219456
Problem	In the applicationContext-security.xml file, after an upgrade, the idmConfig hostname is restored, but the port number is not restored.
Cause	Product defect.
Workaround	After an upgrade, update the "port" property value in the applicationContext-security.xml file with the correct port number.
	The applicationContext-security.xml file can be found in the `$CSA_HOME/jboss-as/standalone/deployments/csa.war/WEB-INF/` directory.

Cloud Service Management Console

Cancellation status of subscriptions that require cancellation approval is not reflected in Operations area until approval is granted

ID	QCCR1D192793
Problem	Subscriptions that require approval to cancel will not reflect the cancellation status in the **Operations** area of the Cloud Service Management Console until the approval has been granted. If the **Cancel** button is repeatedly clicked in this state, each **Cancel** attempt will create a duplicate and unnecessary approval request.
Cause	Product limitation.
Workaround	After cancelling a subscription in the **Operations** area of the Cloud Service Management Console, avoid clicking **Cancel** again if the state does not immediately change, and be aware that for subscriptions requiring approval for cancellation, the state change will be delayed until the approval has occurred.

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.

Two attempts are needed to log into the Cloud Service Management Console

ID	QCCR1D185405
Problem	It sometimes takes two attempts to log into the Cloud Service Management Console.
Cause	Product defect that appears to be related to closing the browser tab for, rather than logging out of, the Cloud Service Management Console.
Workaround	Log out of the Cloud Service Management Console when you wish to end your session. If the first log in attempt does not succeed, log in again.

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.

Problematic behavior when a provider property has a list property when an attempt is made to access the property from elsewhere in components

ID	QCCR1D216689
Problem	If a provider has a list property, then the values cannot be used in a component property. The system lists property values from different property names across the provider types.
Cause	This problem causes Topology Component-based designs that depend on list properties from a provider to behave in an unexpected manner.
Workaround	Avoid using list properties in provider properties.

When FIPS mode is enabled, topology components fail to load in topology designs

ID	QCCR1D218762
Problem	Some components that are part of out of the box content capsules have encrypted passwords that cause the Components page to crash when FIPS mode is enabled.
Cause	FIPS uses a different encryption key than the key which was used to encrypt passwords. As a result, passwords are not successfully decrypted and the Components page crashes.
Workaround	When FIPS is enabled, do not install the following out of the box content capsules while installing CSA/CODAR: • HPE-CODAR-1.60.0000 • Helion-Development-Platform • Docker • CC-HPE-ICSP-CSA-Sequential-Integration

Marketplace Portal

Topology design does not provision successfully when subscriber selects **Any Environment** or **Any Provider In This Environment**

ID	QCCR1D208045
Problem	When a subscriber in the Marketplace Portal selects the **Any Environment** option in the **Environment and Provider Selection** option set for a particular provider type, or selects a specific environment and then selects **Any Provider In This Environment**, certain types of topology designs may not provision successfully. In particular, when a topology design includes a **List subscriber option** property that is configured for **Dynamic Entry** and when the selected JSP for the **List** property retrieves information from a provider, the provisioning of the design may not be successful. For example, OpenStack based designs that are configured to use JSPs beginning with csa-openstack may not provision successfully when **Any Environment** or **Any Provider In This Environment** is selected by the subscriber.
Cause	The JSPs used to retrieve the values for a subscriber to select often require knowledge of the specific provider chosen in order to function in a consistent fashion. When **Any Environment** or **Any Provider In This Environment** is chosen, it presents the possibility that the provider the JSP contacted to return a list of selections to the subscriber is a different provider than actually gets selected during provisioning.

Workaround	Do one of the following: 1. Instruct subscribers to avoid selecting **Any Environment** or **Any Provider In This Environment** when requesting a subscription for a service offering that is based on a topology design that is configured in the manner described above. 2. Configure only a single provider instance (for example, OpenStack in the example above) such that the **Any Environment** or **Any Provider In This Environment** selection by the subscriber will always result in the same provider being selected during provisioning as is contacted by the JSPs. Some provider types may have additional restrictions; for example, when using a single OpenStack provider, all projects that a subscriber has access to will additionally need to be identically configured. 3. Configure every provider instance of a given type exactly the same (also taking into account the additional restriction mentioned above for OpenStack), such that the results returned by the JSP are not dependent on which provider is later chosen during provisioning. This option may not be practical in many situations.

Service offerings for designs that contain circular dependencies between subscriber option properties can be published to a catalog and result in a blue screen being displayed for the offering in the Marketplace Portal

ID	QCCR1D208513
Problem	Service offerings for designs that contain circular dependencies between subscriber option properties can be published to a catalog and result in a blue screen being displayed for the offering in the Marketplace Portal. For example, if a sequenced design contains a **List** subscriber option property configured to be **Dynamic Query**, named `propertyOne`, that specifies a HTTP Request Body including `[CLIENT:propertyTwo]`, and if another subscriber option property named `propertyTwo` has an HTTP Request Body including `[CLIENT:propertyOne]`, this creates a circular dependency, and a blue screen will be displayed in the Marketplace Portal for service offerings published based on this design.
Cause	Product defect
Workaround	Take care to avoid circular dependencies when configuring subscriber options for a design.

Elasticsearch does not return group-owned subscriptions

ID	QCCR1D213955
Problem	When using global search in the Marketplace Portal, a user cannot see subscriptions that have the group ownership set unless that user created that subscription. For example: • User A and user B are part of Group A. • User A creates a subscription and sets the group ownership to Group A. This subscription will be displayed in global search results only for user A and not for user B. This issue does not affect the subscription list page that shows subscriptions owned by the user's group.
Cause	Group Ownership information is not stored in Elasticsearch and is not available to the search service and so cannot be part of a search query.
Workaround	There is no workaround.

With SiteMinder, when an MPP user clicks the Offering Management link the browser displays a "CSRF check failed-preventing request execution" error

ID	QCCR1D214889
Problem	When using a CSA instance with SiteMinder and accessing the Service Management Console and the Marketplace Portal applications within the same browser session, CSRF token errors are displayed when you attempt to access Tenant Admin functions.
Cause	The mechanisms that SMC and MPP use to handle CSRF tokens are in conflict. The conflict is triggered when SMC and MPP are run in the same browser session while using SiteMinder for authentication.
Workaround	Do not use both SMC and MPP applications in the same browser while using SiteMinder for authentication. Use different browsers (not different windows of the same browser) to run the applications.

Refreshing the Marketplace Portal page results in a blank white screen

ID	QCCR1D218014
Problem	On occasion, using the F5 browser refresh button results in MPP displaying a blank white screen. This is observed on Internet Explorer and Chrome browsers.
Cause	Product Defect.
Workaround	Use the browser refresh or F5 function key to refresh again.

In SiteMinder, canceling a subscription from operations view fails with a "CSRF check failed" error

ID	QCCR1D218666
Problem	When using a CSA instance with SiteMinder and accessing the Service Management Console and the Marketplace Portal applications within the same browser session, you may receive Cross-site request forgery (CSRF) token errors while trying to access the Offerings tab in the Operations page. Accessing other areas of SMC may also show the same problem.
Cause	There is a conflict with the mechanisms each application uses to handle CSRF tokens. Running the applications in the same browser session while using SiteMinder for authentication triggers the problem.
Workaround	Do not use both SMC and MPP applications in the same browser while using SiteMinder for authentication. Use different browsers (not different windows of the same browser) to run the applications.

Import Offering UI for CSL content for SIU preview shows verification succeeded, but the import shows error

ID	QCCR1D218725
Problem	Importing service offerings is not allowed when the service offering's subscriber options differ from the underlying service design's option model. This situation usually happens when the service offering being imported has a service design already present on the target system where the option model has changed. In this case, when trying to import service offering, the preview operation does not show an indication that the import operation will fail. The actual import will fail as expected with the appropriate error message.
Cause	The preview operation was not implemented to compare service design subscriber options to service offering subscriber options. This is a rare occurrence. In most cases, users should not change service designs or service offerings on a production system. Changes should be made to service designs and service offerings only in the source system.
Workaround	The preview operation lacks visibility into differences between subscriber options from service offering to those of the service blueprint that would prevent the import operation from happening. However, the import operation performs this validation and prevents the import from happening. CSA Service Business Managers will need to rely on the import operation to catch such issues.

Currency is not displayed in HTML notifications when subscription costs have too many digits

ID	QCCR1D219037
Problem	The currency symbol is not displayed in email notifications if the price contains a lot of digits.
Cause	Product defect.

Workaround	The HTML notification templates are text files that contain HTML code and tokens. The workaround is to remove the token from the HTML notification template, and replace it with the actual currency symbol that should be used. By default, the templates are located under `csa.war\WEB-INF\classes\notifications`.
	
	 For example, replace:
	 `Cost: <b>${service.currencySymbol}${service.initialPrice} and ${service.currencySymbol}${service.recurringPrice} ${service.recurrentPeriod}</b>`
	 with:
	 `Cost: <b> £${service.initialPrice} and £ ${service.recurringPrice} ${service.recurrentPeriod}</b>`
	
	 See the *HPE CSA Configuration Guide* for more information about HTML notifications, where they are located, and how they should be configured.

Elasticsearch is enabled but does not return existing CSA 4.2 data after upgrading from CSA 4.2 Patch 2 to CSA 4.6 on Windows with MSSQL database

ID	QCCR1D219228
Problem	When CSA 4.2 Patch 2 on Windows with MSSQL database is upgraded to CSA 4.6, offerings and subscriptions that were created in CSA 4.2 are not available through globalsearch.
Cause	CSA 4.2 records were not indexed in Elasticsearch. The root cause is that the `CSA_CATALOG_ITEM` table has an empty string in the `posted_in_es` column. Elasticsearch does not index records with an empty string value.
Workaround	Immediately after the upgrade, manually update the `POSTED_IN_ES` column to 'N' in the `CSA_CATALOG_ITEM` table where `POSTED_IN_ES` is an empty string. The following is sample SQL to update the empty string records: `SQL: update csa_catalog_item set posted_in_es = 'N'  where posted_in_es = '';`

Request Details > Reorder Service does not work for External Pricing System (EPS) subscriptions in the Global Catalog

ID	QCCR1D219347
Problem	If you are using the seeded Consumer user, selecting **Request Details > Reorder Service** does not work for EPS subscriptions in the Global Catalog.
Cause	Product defect.
Workaround	Do not use the seeded Consumer user. Reorder works with EPS if the offering is not in the Global Catalog.

Installation and Upgrade Guides

Generated Installation and Upgrade Guide PDFs have formatting problems

ID	QCCR1D219366
Problem	The PDFs generated from the Installation and Upgrade Guides have the following formatting issues: - In a table row that is split due to pagination, the first column of this row is merged with the first column of the next row in the table. - Example text is truncated on the right margin. - Text is awkwardly broken at the end of a line. - Links to other sections in the document are broken. - Icons embedded in the content may not be displayed.
Cause	Documentation limitation.
Workaround	View the contents of the Installation and Upgrade Guides from a web browser instead of printing them. Note: These documents are designed for online viewing in a browser, and not for printing. For optimal usability, view these documents in a web browser.

Integrations with HPE CSA

HPE Operations Orchestration

vCenter Sync Resource Capacity 4.5 flow does not work without an explicit port in the Service Access Point

ID	QCCR1D219159
Problem	The CSA Integrations content pack includes a vCenter Sync Resource Capacity 4.5 flow that can be selected as a Resource Synchronization Action on a CSA resource pool. The flow does not succeed unless the Service Access Point includes a valid port.
Cause	CSA-OO integration flow.

Workaround	Specify the port number of the Service Access Point when configuring the resource provider.
	For example:
	`https://<hostname>:443`
	where <hostname> is the vCenter hostname and 443 is the default vCenter port number that should be included in the Service Access Point.

Deprecation Notes

Delegated topology service components

Delegated topology service components have been deprecated in HPE CSA 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. Sequenced designs with delegated topology service components cannot be created and should not be copied, imported, or cloned in HPE CSA 4.60.

End of Support Notes

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
```

CSAKit-4.5/Content Archives/sequenced/vmware vcenter/CSA_BP_VCENTER_COMPUTE_CASCADED_OPTIONS_v3.20.00.zip

CSAKit-4.5/Content Archives/sequenced/vmware vcenter/CSA_BP_VCENTER_COMPUTE_CUSTOM_POOL_SELECTION_v3.20.00.zip

CSAKit-4.5/Content Archives/sequenced/vmware vcenter/CSA_BP_VCENTER_COMPUTE_DEPENDENT_OPTIONS_v3.20.00.zip

CSAKit-4.5/Content Archives/sequenced/vmware vcenter/CSA_BP_VCENTER_COMPUTE_DMA_JBOSS_SITESCOPE_UCMDB_v3.20.00.zip

CSAKit-4.5/Content Archives/sequenced/vmware vcenter/CSA_BP_VCENTER_COMPUTE_DMA_JBOSS_v3.20.00.zip

CSAKit-4.5/Content Archives/sequenced/vmware vcenter/CSA_BP_VCENTER_COMPUTE_DYNAMIC_OPTIONS_v3.20.00.zip

CSAKit-4.5/Content Archives/sequenced/vmware vcenter/CSA_BP_VCENTER_COMPUTE_FAILURE_HANDLING_v3.20.00.zip

CSAKit-4.5/Content Archives/sequenced/vmware vcenter/CSA_BP_VCENTER_COMPUTE_MODIFY_v3.20.00.zip

CSAKit-4.5/Content Archives/sequenced/vmware vcenter/CSA_BP_VCENTER_COMPUTE_SA_SOFTWARE_POLICIES_v3.20.00.zip

CSAKit-4.5/Content Archives/sequenced/vmware vcenter/CSA_BP_VCENTER_COMPUTE_SITESCOPE_MODIFY_v3.20.00.zip

CSAKit-4.5/Content Archives/sequenced/vmware vcenter/CSA_BP_VCENTER_COMPUTE_SITESCOPE_UCMDB_v3.20.00.zip

CSAKit-4.5/Content Archives/sequenced/vmware vcenter/CSA_BP_VCENTER_COMPUTE_STANDALONE_DMA_JBOSS_v3.20.00.zip

CSAKit-4.5/Content Archives/sequenced/vmware vcenter/CSA_BP_VCENTER_COMPUTE_v3.20.00.zip

CSAKit-4.5/Content Archives/topology/amazon ec2/CSA_BP_AMAZON_EC2_INFRA_v4.10.00.zip

CSAKit-4.5/Content Archives/topology/vmware vcenter/CSA_BP_VCENTER_COMPUTE_v4.10.00.zip

CSAKit-4.5/Content Archives/topology/vmware vcenter/CSA_BP_VCENTER_HPSA_LAMP_STACK_v4.10.00.zip

CSAKit-4.5/OO Flow Content/10X/oo10-csa-cp-4.50.0000.jar

CSAKit-4.5/OO Flow Content/9X/CSA-4_10-ContentInstaller.jar

Send documentation feedback

If you have comments about this document, you can send them to clouddocs@hpe.com.

Legal notices

Warranty

The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein. The information contained herein is subject to change without notice.

Restricted rights legend

Confidential computer software. Valid license from Hewlett Packard Enterprise required for possession, use or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

Copyright notice

Trademark notices

Adobe® is a trademark of Adobe Systems Incorporated.

Microsoft® and Windows® are U.S. registered trademarks of Microsoft Corporation.

Oracle and Java are registered trademarks of Oracle and/or its affiliates.

UNIX® is a registered trademark of The Open Group.

RED HAT READY™ Logo and RED HAT CERTIFIED PARTNER™ Logo are trademarks of Red Hat, Inc.

The OpenStack word mark and the Square O Design, together or apart, are trademarks or registered trademarks of OpenStack Foundation in the United States and other countries, and are used with the OpenStack Foundation's permission.

Documentation updates

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

- Software Version number, which indicates the software version.

- Document Release Date, which changes each time the document is updated.

- Software Release Date, which indicates the release date of this version of the software.

To check for recent updates or to verify that you are using the most recent edition of a document, go to the following URL and sign-in or register: https://softwaresupport.hp.com.

Select Manuals from the Dashboard menu to view all available documentation. Use the search and filter functions to find documentation, whitepapers, and other information sources.

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

Support

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