



Hewlett Packard
Enterprise

Codar

Software version: 1.70

For Microsoft Windows® and Linux operating systems

Release Notes

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Introduction

This document provides an overview of the changes made to HPE Codar for this release. It contains important information not included in the manuals or in online help.

In this version

Codar is a continuous delivery solution that provides deployment and release management of complex multi-tier applications across the application lifecycle. For more information about integrated products, see the *HPE Codar Solution and Software Support Matrix*.

To ensure the performance and stability of the Codar 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 Codar Solution and Software Support Matrix*. Instructions for installing Codar are documented in the *HPE Codar Installation Guide*.

External HPE Operations Orchestration installation

If you choose to install an external OO instance during the Codar installation, ensure the correct version of the `csa-integrations` content pack is available in OO Central.

For external OO Central versions earlier than 10.60

Use `csa-integrations` content pack `oo10.50-csa-integrations-cp-4.70.0000.jar`

For external OO Central version 10.60

Use `csa-integrations` content pack `oo10-csa-integrations-cp-4.70.0000.jar`

Fixes in this release

Codar

Installation, initial configuration, upgrade, and uninstallation

Two attempts are needed to log into the Codar console

ID	QCCR1D185405
Problem	It sometimes takes two attempts to log into the Codar console.
Cause	Product defect that appears to be related to closing the browser tab rather than logging out of the Codar console.

The IDM applicationContext.properties file has unused properties defined

ID	QCCR1D204074
Problem	<p>Within the IDM .war file, the applicationContext.properties file has the following configuration properties:</p> <pre># 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</pre> <p>These properties have no effect on Codar and can be cleared.</p>

The installer displays the Codar version number as 4.50.0000.1 instead of the current version in the License Agreement screen.

ID	QCCR1D213450
Problem	During the Codar installation, the installer displays the Codar version number as 4.50.0000.1 instead of the current version in the License Agreement screen.

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

ID	QCCR1D218563
Problem	<p>In a Codar Linux installation, if you choose to use an existing OO installation, and then to use embedded OO instead, the following security warning message is displayed:</p> <pre>HPE Recommends to upgrade to HPE OO 10.50 to have more secure CSA-OO integration.</pre> <p>This security warning is redundant.</p>

Codar Management Console

Roster service does not clean up the TOKENSTOREOBJECT database table in the IDM database, resulting in high disk IO on the 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 Codar.

Pipeline management

In Sequenced Designs, providers of the type 'List' cause a problem.

ID	QCCR1D216689
Problem	In Sequenced Designs, if a provider has a property of the type 'List', then its values cannot be used as required in a Component Property.

Users with the Release Manager role are unable to associate the environment in the release pipeline.

ID	QCCR1D218851
Problem	Users that belong to the Release Manager role are not able to associate the environment in the release pipeline.

If a user group is added in the access control of a design, an error message is displayed during package promotion.

ID	QCCR1D218855
Problem	If a user group is added in the access control of a design, an error message is displayed during the promotion of a package.

The deploy action fails for a partial design if shared instances are specified in the microservices infrastructure design.

ID	QCCR1D218857
Problem	The deploy action fails for a partial design if shared instances are specified in the microservices infrastructure design.

While editing a custom action, if the user chooses a deployment instance which is listed after the custom action, an error message is displayed.

ID	QCCR1D218892
Problem	In the 'Configure Gate Actions for <lifecycle stage>' dialog, while editing a custom action, if the user chooses a deployment instance which is listed after the custom action, an error message is displayed. For example, if three deploy actions and one custom action are configured in the order deploy1, deploy2, custom1, deploy3, and the user chooses deploy3, which is listed after custom1, an error message is displayed.

The test run is unresponsive on Chrome browsers.

ID	QCCR1D218984
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Problem	On a Chrome browser, the test run is unresponsive for designs that contain three scaling groups.
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The Release gate approval counts under 'Approval' tile are not refreshed until the whole page is refreshed.

ID	QCCR1D219049
Problem	Approval counts are not refreshed until the whole page is refreshed.

Deleting a newly added lifecycle stage displays an error message.

ID	QCCR1D219054
Problem	Deleting a newly added lifecycle stage displays an error message.

A package that has no deployment and is stuck in the transition state cannot be deleted.

ID	QCCR1D219120
Problem	A package that has no deployment and is stuck in the transition state cannot be deleted.
Cause	The resource provider has not been set.

The "Wait Time for Automatic Rejection (in days)" option in an approval action erroneously displays "days" even though it is calculated in hours.

ID	QCCR1D219140
Problem	The wait time is calculated in hours but in the UI it is displayed in days.

Administrator is displayed instead of the user name for continuous promote deployment in all the stages.

ID	QCCR1D219243
Problem	Administrator is displayed instead of the user name for continuous promote deployment in all the stages.
Cause	The REST API is not sending the user name to the UI.

A package in the transition state goes into the failed state.

ID	QCCR1D219248
Problem	A package in the transition state goes into the failed state when a new approver is added to an approval action.

Integrations

HPE Operations Orchestration

When you delete a topology design, the associated Operations Orchestration flows are not deleted

ID	QCCR1D219159
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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.
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Known problems, limitations, and workarounds

Codar

General

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	QCCR1D225115
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.
Cause	Filtering is not done when internal actions are not used to identify providers that can be used during provisioning. This is a product limitation.
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 CO is not supporting HOS 3.0.
Workaround	It is a product limitation. No workaround available.

CO Dependency: When the VM is powered OFF, CO is not sending the ideal data points (zero values) to be displayed for Memory & 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.

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).

Cause	Names containing non-Latin characters are converted to empty strings.
Workaround	Omit name element from the request message. The name will be generated from display_name element. Alternatively you can create the organization using UI.

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.
Cause	Create organization artifact REST ignores group entries specified in the payload.
Workaround	Use CSA UI (or IdM UI in case of CSA-Propel integration) or IdM REST API to: <ul style="list-style-type: none"> * Create organization - POST /idm-service/api/scim/organizations * Create LDAP configuration - POST /idm-service/api/scim/organizations/<orgId>/configurations * Create role - POST /idm-service/api/scim/organizations/<orgId>/roles * Assign Permission for Role - PUT /idm-service/api/scim/organizations/<orgId>/roles/<roleId>/permissions/<permissionId> * Create Group - POST /idm-service/api/scim/organizations/<orgId>/groups * Create Group Representation - POST /idm-service/api/scim/organizations/<orgId>/groups/<groupId>/representations For details, see SCIM (Cross-Domain Identity Management) documentation.

SSO between CSA 4.7 and OO 1060 is still works without asking for OO login credentials when tokenGlobalTimeout is elapsed.

ID	QCCR1D228421
Problem	When SSO is enabled, Operation Orchestration (OO) does not prompt for login after CSA tokenGlobaltimeout is elapsed.
Cause	SSO configuration differs in CSA and OO and settings is not fully compatible.
Workaround	SSO in CSA is configured in CSA\jboss-as\standalone\deployments\idm-service.war\WEB-INF\hpssoConfig.xml, See tokenGlobalTimeout and tokenIdleTimeout parameters. SSO in OO is configured in OO\central\tomcat\webapps\oo\WEB-INF\classes\lwsofmconf.xml, See expirationPeriod parameter, which corresponds to tokenIdleTimeout in CSA. Check if both values are in sync. However, there is no counterpart for tokenGlobalTimeout in OO.

Stackato OOTB Design especially Node Chat destroys the existing instance if it has the same name.

ID	QCCR1D228356
Problem	HPE Helion Stackato OOTB Design (Node Chat application) destroys an existing instance if provisioning of same application is tried again with existing name.
Cause	HPE Helion Stackato CLI commands are used to provision applications.
Workaround	For a second time use, provision the Node Chat application with a new name.

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 ...
Cause	The admin user is defined twice with the same password in LDAP and also seeded in CSA\jboss-as\standalone\deployments\idm-service.war\WEB-INF\classes\provider-users.properties
Workaround	Change admin's password in LDAP or in provider-users.properties. For authentication use the password from the provider-users.properties. Alternatively you can remove admin user from LDAP. If you encountered the problem during upgrade, proceed with running the upgrade again.

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

ID	QCCR1D228319
Problem	Codar becomes 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 <0x000000006428c41d8> (a org.apache.log4j.Logger) at org.apache.log4j.Category.forcedLog(Category.java:391) at org.apache.log4j.Category.info (Category.java:666) at com.hp.ccue.identity.service.IdentityServiceImpl.authenticatePassword(IdentityServiceImpl.java:447)

	<pre> at com.hp.ccue.identity.service.IdentityServiceImpl.authenticate(Identity ServiceImpl.java:168) at com.hp.ccue.identity.web.api.IdentityController.authenticate(IdentityC ontroller.java:155) </pre>
Cause	Authentication audit handling can be time consuming and after sometime the queue of events might be full. Each additional event will wait until other event is processed and removed from the queue.
Workaround	<p>Several options that might help:</p> <ul style="list-style-type: none"> * Wait for several minutes until the event queue is cleared. * Edit CSA\jboss-as\standalone\deployments\idm-service.war\WEB-INF\spring\applicationContext.properties: <ul style="list-style-type: none"> * Disable authentication auditing: <code>idm.csa.audit.enabled = false</code> * Or decrease number of attempts to log audit to CSA: <code>idm.csa.audit.retries = 3</code>

After creating an org and configuring LDAP, it takes around 10 minutes for the user to log in.

ID	QCCR1D227500
Problem	After configuring LDAP, the user login action throws "Access Denied" error. It takes around 10 minutes for the user to log in.
Cause	After configuring LDAP, a background task synchronizes LDAP users to database. It is not possible to log in until the synchronization completes. The more users are in LDAP the longer the synchronization time.
Workaround	Wait for 10 minutes and try to log in using LDAP user.

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.
Cause	The sync between LDAP group and CSA takes at least 10 minutes based on the number of users in the group. Hence, the login does not happen until the LDAP group is synced.
Workaround	No workaround available.

Installation, initial configuration, upgrade, and uninstallation

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	<p>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.</p> <p>This filtering works only for capsules coming from HPE LN and does not have any effect on capsules installed from local files.</p>

Cause	Filtering for local capsules is not implemented.
Workaround	Not Applicable. Capsules from local files are always displayed. They are appended to the end of the listing. However, it does not have a big impact on the usability.

Content Store - capsule installation fails in case of multiple, simultaneous download/install actions.

ID	QCCR1D227165
Problem	When installing content using Content Store UI, initiating installation of multiple capsules in parallel can cause installation failure of one of the capsules.
Cause	The underlying OO platform has a restriction on installing the same components multiple times simultaneously as different content capsules often share a few components in common.
Workaround	Wait for one capsule to finish the installation and then initiate the next installation.

SAML Authorization will not work for the CSA Provider, if the access control is provided till the 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 ACL when SAML is enabled.
Workaround	None

Codar Management Console

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.

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

ID	QCCR1D227645
Problem	In Codar Management Console under Organizations tile, select your organization-> LDAP configuration page.

	<p>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”.</p> <p>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.</p>
Cause	Product Defect
Workaround	Check if the user being searched from Look Up User is part of the group provided in User Search Base field.

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 Codar 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 Codar 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.

Pipeline management

A simple design with server group enabled for redeploy does not prompt for instance count value during redeploy

ID	QCCR1D207650
Problem	User cannot redeploy a package and scale out in a single operation.
Cause	Internally, redeploy and scale out are handled as two different operations. An operation is not designed to redeploy as well as scale out.
Workaround	Codar does not support scale out during redeploy in this release. In this release the user must first redeploy and update the instance. After the instance is updated, the user can scale out the deployed instance. Redeploy and scale out are not supported in a single operation. They must be performed as different operations.

The infrastructure design is not displayed in the drop-down list in the Edit dialog box during a deploy release gate action.

ID	QCCR1D218693
Problem	Though an infrastructure design is selected, it is not displayed in the drop-down list in the Edit dialog box during a deploy release gate action.

Cause	Edit custom actions for partial design does not work properly.
Workaround	Do not edit the custom action. To update the custom action, delete it and add a new action.

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 Codar Management Console, the Property Value input may not be visible.
Cause	Product defect.
Workaround	Close the dialog and refresh the current page. Re-open the dialog again.

Under Pipe line Configuration no Default Roles displayed until New Role is added.

ID	QCCR1D223703
Problem	Under Pipeline Configuration, no default roles displayed until a new role is added
Cause	This is caused due to the cache.
Workaround	Create a new role, and all the roles will be displayed.

Unable to search Add Group under Designer Access Control once group name is modified under Organizations.

ID	QCCR1D226788
Problem	Unable to search Add Group under Designer Access Control once a group name is modified under Organizations.
Cause	The group search works based on the name and not display name, hence when the display name is modified the underlying name remains unchanged.
Workaround	User should not modify the group name in Access Control Page, and rather delete and create a new group instead of modifying it.

Hardcode: There are some hardcoded in Schedule page of Release Pipeline.

ID	QCCR1D228037
Problem	There are some hardcodes in Schedule page of Release Pipeline.
Cause	This information is from a third-party library and cannot be localized.
Workaround	No workaround available.

StaleObjectStateException when multiple Package (Continuous Promote) are Promoted, each stage having one RG Deploy action.

ID	QCCR1D228039
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Problem	StaleObjectStateException when multiple packages (Continuous Promote) are promoted with each stage having one RG Deploy action.
Cause	Under concurrency, when multiple packages are promoted, this can occur to prevent stale object updates.
Workaround	No workaround available.

Codar Bamboo Task Plugin Log does not reveal more details on failure.

ID	QCCR1D228088
Problem	Codar Bamboo Task Plugin Log does not reveal enough details on failure.
Cause	Bamboo Console message is not enough to identify the issue.
Workaround	Open the csa.log file for a detailed error message.

Topology Design - TransactionRolledBackException is shown while canceling a deployment which failed due to absence of OO_Flows.

ID	QCCR1D228277
Problem	Topology design - TransactionRolledBackException is shown while canceling a Deployment which failed due to the absence of OO_Flows.
Cause	Due to the missing flows in the OO.
Workaround	No workaround available, make sure all the required OO flows are imported before deploying a design.

Access Control user associated with a design is unable to view the design after login.

ID	QCCR1D228482
Problem	Access Control user associated with a design is unable to view the design after login.
Cause	The user has logged in within 10 minutes after the user group has been assigned to role in Access Control page in Organization tile.
Workaround	The user needs to wait for 10 minutes after the Users group has been assigned to a role in Access Control page in Organization tile.

Release Manager (RM) should be restricted from accessing the Design tab for which the RM does not have the permission as per OOTB Roles defined.

ID	QCCR1D228515
Problem	Release Manager (RM) should be restricted from accessing the Design tab for which the RM does not have the permission as per OOTB Roles defined.
Cause	Role permission checks are not working for Release Manager after the new IDM changes.
Workaround	User can see the Design tab, but will not be able to perform any operations.

Sequenced designs are not visible in the Release Management tile because the 'Restricted User Access' is getting enabled by default.

ID	QCCR1D228532
Problem	Sequenced designs are not visible in the Release Management tile because the 'Restricted User Access' is getting enabled by default.
Cause	If the base product is CSA, then all the default OOTB designs come with the Restricted Access because the check has been added only for the Codar license.
Workaround	User has to manually uncheck the restricted access for the design from Release Pipeline.

Integrations

Jenkins

Test tab does not get updated for Jenkins role-based deployments.

ID	QCCR1D203249
Problem	When Jenkins is configured to integrate with Codar, the instance owner in Codar is different from what is configured in the Jenkins plugin.
Workaround	To propagate user context from Jenkins to Codar: In the Jenkins plugin, use a user who has the Integration role in Codar. Edit the <code>csa.properties</code> file, located in the <code>CODAR_HOME</code> directory and change the OO user name and password as configured in the Jenkins plugin. In OO \Content Management\ Configuration Items\System Properties use the same user name and password for the <code>CODAR_REST_CREDENTIALS</code> property.

End of Support Notes

Service Designs and Content Packs

The following service designs and Operations Orchestration content packs have been deprecated in the Codar 1.60 release. The content will not be available in future Codar releases. Therefore, customers who are upgrading from Codar 1.50 to Codar 1.70 should instead use the equivalent content that is included as part of the product content or visit the HPE Live Network at <https://hpln.hpe.com/product/hpe-codar/content> 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-4.5/00 Flow Content/10X/oo10-csa-cp-4.50.0000.jar

CSAKit-4.5/00 Flow Content/9X/CSA-4_10-ContentInstaller.jar

Send documentation feedback

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