

HP Cloud Service Automation

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Troubleshooting Guide

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

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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.

Table 1 Document Changes

Version	Changes
July 2012	First release
September 2012	Updated for HP CSA 3.01
December 2012	Updated for HP CSA 3.10
June 2013	Updated for HP CSA 3.20
January 2014	Updated for HP CSA 4.00
July 2014	Updated for HP CSA 4.10
August 2014	Added troubleshooting entry for Cloud Service Management Console

Table of Contents

Warranty	2
Restricted Rights Legend.....	2
Copyright Notice.....	2
Trademark Notices.....	2
Documentation Updates.....	2
Support	2
HP Cloud Service Automation	8
Installation and Initial Configuration	8
Upgrade does not detect previous version of CSA.....	8
Performance issue with import of large archives.....	8
Cancelling a subscription does not prompt the user for an approver	8
Installation and initial configuration tips.....	9
Process Definition Tool fails to execute	9
Content archives import fails.....	10
HP CSA on Ubuntu	10
Installation fails with SQL errors.....	14
Content upload not successful during HP CSA Installation.....	14
Miscellaneous Information and Issues	15
CSA fails with JDBC rollback error.....	15
Error updating sequential service design	16
Error occurs when publishing a topology design.....	16
HP CSA REST API - Cannot create property names.....	16
OO flows attached during the modifying phase are not executing when name, description, or service end dates are modified	17
Process definition tool throws an error `missing mandatory field(s)'	17
The Process Definition Tool cannot connect to the database	18
Process Definition Tool fails to run on HP CSA with Embedded Operations Orchestration 10.10 for sequence designs	18
User authorization fails if base DN of an organization is modified during user session.....	19
Vcenter_ADM_SIS_UCMDB_320 service subscription goes into Pause state even after all HP OO flows are successful ..	19
Windows command-line commands do not run.....	19
Cloud Service Management Console.....	20
No dashboard pages display when tiles under the Cloud Analytics tile are clicked	20
Executive Scorecard integration does not work properly for the Showback Report.....	21
Web Browser Remembers Login Password.....	21
Cannot delete a provider associated with failed subscriptions	21
Resource offering import fails.....	22
Trying to add a valid approver after an invalid attempt to add an approver who does not have access to the organization fails with error message	22
Failure to add LDAP user to a named approver policy.....	23

Various problems when logging into the Cloud Service Management Console in multiple browser tabs.....	23
Unable to log in to the Cloud Service Management Console after installation when Single Sign On Is Configured	24
Localization	24
Non-English characters are not being properly stored by Oracle	24
Integrations	25
HP CSA and/or HP OO are unable to communicate with resource providers located outside internal network	25
Date parsing exception	26
HP Operations Orchestration (OO)	27
All workflows in the HP Operations Orchestration public repository are invalid	27
Some workflows under CSA folder are invalid	27
HP CSA Operations Orchestration content not reflected in HP OO	27
Subscription fails because Get User Identifier step in an HP Operations Orchestration (OO) flow failed	28
Resources are not cleaned up after a subscription times out and fails	28
Trust store setup failure causes login lockouts	29
javax.net.ssl.SSLHandshakeException.....	29
java.lang.RuntimeException: java.net.SocketTimeoutException: Read timed out when provisioning parallel servers for OOTB Sequence Designs.....	30
HP Matrix Operating Environment (MOE).....	31
MOE_COMPUTE_SOAPV4_3.20 subscriber actions fail	31
No resource provider selected when subscribing to MOE_COMPUTE_CUSTOM_PROVIDER_SELECTION_v3.20.....	32
Service Design MOE_COMPUTE_3.20 does not have new MOE SOAP v4 actions.....	32
Subscriptions using service design MOE_COMPUTE_MT_3.20 fail with error 'Impersonated user is not recognized'	33
HP MOE Add Disk action fails with SOAP v3 endpoint.....	33
HP MOE Add Server action fails	34
MOE Simple compute fails with error that user does not have impersonate privilege.....	34
Add Server action flow for MOE-based service designs fails in OO Central when MOE template used to provision is set with minimum number of servers as 4 servers.	35
HP Server Automation with HP Application Deployment Manager	36
HP ADM-based service subscription is paused in HP CSA even after all the HP OO flows are successful.....	36
HP MOE ADM deployment fails	36
SA –ADM flows failure in OO10.10 central	37
HP SiteScope.....	38
HP SiteScope CSA template does not appear on HP SiteScope server after import.....	38
HP SiteScope monitor deployment fails	39
SiteScope create server monitor fails.....	39
HP Universal CMDB.....	40
uCMDB Create fails	40
VMware vCenter	40
Modifying active subscription fails when modifying a subscription of Vcenter_Compute_Modify_v3.20.00	40
Subscription fails while using VCENTER_COMPUTE_CUSTOM_POOL_SELECTION Service Design.....	41
Valid Provider selection fails for Resource Binding when subscribing to Vcenter_Compute_Modify_v3.20.00	41
vCenter compute subscriptions fail with Null pointer exception.....	42

vCenter Customization Template Missing.....	42
vCenter provision server fails when cloned template specified is not present in the given Datacenter.....	43
vCenter subscription goes online without any servers created	43
When vCenter Add Server fails with timeout, Lifecycle Engine does not allow another lifecycle transition to begin	43
HP ArcSight Logger	44
Artifact ID is not included in log files.....	44
Device entries are grayed out under HP ArcSight Logger summary tab.....	44
Integration with HP ArcSight fails after HP CSA upgrade	44
Provider's IP address not added to HP ArcSight Logger portal.....	45
HP Network Automation.....	46
Subscription fails while using service designs based on HP Network Automation.....	46
OpenStack - HP Cloud Services (HP CS).....	46
OpenStack - HP Cloud Services deployment failure	46
OpenStack - HP Cloud Services fails to create instance.....	47
OpenStack - HP Cloud Services subscription fails.....	47
HP Server Automation with HP Database and Middleware Automation.....	48
DMA Application deployment fails with WestHttpClientException	48
Subscription using HP DMA JBoss application deployment fails	49
HP Server Automation with Software Policies.....	49
A request for a new subscription remains in Deploying state	49
Subscription fails while using service designs based on HP SA software policies	50
HP Service Manager (HP SM)	50
HP CSA subscription request not triggered upon HP Service Manager change request ticket approval	50
Service Manager Initiate Request Approval workflow execution fails.....	51
SOAPException during HP Service Manager change request ticket approval.....	51
HP Helion OpenStack®.....	52
Add Server to Server Group public action executed for HP Helion OpenStack based subscription fails	52
HP Helion OpenStack based subscription fails with HTTP 500 Internal Server Error	52
Remove server public action executed for HP Helion OpenStack based subscription fails	53
Amazon Web Services (AWS)	53
AWS subscriptions fail with error "Failed to open HTTP connection".....	53
AWS subscriptions fail with error "AWS was not able to validate the provided access credentials. Error code: AuthFailure."	54
Failure to attach the network interface to the server	54
Unable to access the AWS instance using the public IP.....	54
Unable to provision the server due to difference between access point and zone specified in the design.....	55
When more than one Network Interface or Volume is connected to a single AWS server in the design, the subscription fails	55
Don't see the public IP for AWS server instances	56
HP CSA on Linux Platform	56
ArcSight Logger integration fails after upgrade on Ubuntu.....	56
Cannot stop the CSA service	56

CSA installation on Linux completes for wrong user input when configuring database component install options.	57
CSA installer does not detect the existing HP CSA 3.2 installation.....	57
Error when content-archive-tool runs against an unsupported version of HP CSA	58
HP CSA service startup fails	58
Image files are created under csa.war on RHEL platform	59
Marketplace Portal	59
After installing HP CSA in a Windows environment, users might not be able to access the Marketplace Portal.	59
Fresh Install - MPP Service Unavailable message displayed when connecting to MPP login page	59
Web Browser Remembers Login Password.....	60
Market Place Portal Power ON-OFF service actions comes back with Failed Services.....	60
Upgrade - MPP Service Unavailable message displayed when connecting to Marketplace Portal login page after upgrade	61
When a public action on an active subscription fails, user has no way of knowing the details of failure	62
Topology Designs	62
Associating Floating IP is not working using Internal Network.	62
Cancel all fails for some topology design subscriptions	63
No IPs are listed when executing `Assign Floating IP` public action using new Helion OpenStack setup.....	63
Cannot publish a topology design or execute a test run of a topology design.....	64
Provision fails with Amazon Server component	65
Cannot embrace Chef components.....	65
Cannot provision vCenter Server component	65
Licensing	66
Relevant message is not displayed to user when expired emergency license is re-installed.....	66
User not able to install license on cluster mode	66

HP Cloud Service Automation

Installation and Initial Configuration

Upgrade does not detect previous version of CSA

Problem: Upgrade does not detect previous version of CSA

Symptoms	When running the installer to upgrade, the install does not detect that CSA is already installed.
Primary software component	HP CSA
Failure message	Installation fails with errors in the csa_install.log file.
Probable cause	JRE is installed in the Program Files (x86) folder instead of Program Files.

Solution

Remove the JRE from the Program Files (x86) folder and re-install it in the Program Files folder.

Performance issue with import of large archives

Problem: Import of large archives (>1.5 MB) is slow

Symptoms	Operation spins for a long time.
Primary software component	HP CSA
Failure message	"Out of memory" error in server.log during import
Probable cause	The default Heap size (1 GB) configured in HP CSA is not sufficient for the import process.

Solution

Increase the Heap size configured for HP CSA and perform the import. For additional details, refer to the "Import Large Archives" section of the *HP Cloud Service Automation Configuration Guide*.

Cancelling a subscription does not prompt the user for an approver

Problem: Cancelling a subscription does not prompt the user for an approver.

Symptoms	Cancelling a subscription does not prompt the user for an approver.
Primary software component	HP CSA
Failure message	None
Probable cause	By default, cancelling a subscription does not prompt the user for an approver.

Solution

Prompting the user for an approver when a subscription is cancelled should be configured when the offering is published.

Go to CSA offering, create offering , publish , select catalog, select approval Policy , select Manage action approvals and click on cancel action.

Installation and initial configuration tips

Following are troubleshooting tips to verify configuration information for specific scenarios and for checking the application log files.

Symptom	User has entered the database credentials but the installer cannot connect to the database.
Solution	<ol style="list-style-type: none"> 1. Confirm user has entered the correct credentials. 2. Confirm that the user name used to connect to the database has the appropriate database permissions to create tables. 3. Click Cancel on the installer. This creates an installer log file (HP_Cloud_Service_Automation_Install_<time stamp>) on the desktop that gives the stack trace with the actual problem.

Symptom	LDAP user is unable to log in to the Cloud Service Management Console.
Solution	<ol style="list-style-type: none"> 1. Verify that the LDAP server is accessible. 2. Verify that the LDAP configuration in the Cloud Service Management Console is correct.

Symptom	CSA Server does not start after install
Solution	<ol style="list-style-type: none"> 1. Verify that the ports used by HP CSA are free. This includes ports 9999, 9990, 9443, 8009, 8081, 8444, 8090, 4447, 4712, 4713, and 1099. 2. If any of these ports are in use, modify the port that conflicts in <code>standalone.xml</code>.

Process Definition Tool fails to execute

Problem: Process Definition Tool fails to execute

Symptoms	Process Definition Tool fails.
Primary software component	HP CSA
Failure message	<p>After failure, the process-defn-tool log generated under <code>CSA_HOME%\Tools\ProcessDefinitionTool</code> contains the following:</p> <pre> HP OO credentials are incorrect - stackTrace: javax.net.ssl.SSLException: java.lang.RuntimeException: Unexpected error: java.security.InvalidAlgorithmParameterException: the trustAnchors parameter must be non-empty Wrong Database credentials -ORA-01017: invalid username/password; logon denied JDBC path is incorrect - ERROR org.hibernate.util.JDBCExceptionReporter - Cannot load JDBC driver class 'oracle.jdbc.driver.OracleDriver' </pre>
Probable causes	<ul style="list-style-type: none"> • HP Operation Orchestration (OO) credentials are incorrect. • Database credentials are incorrect. • JDBC path is incorrect.

Solution

1. Update the HP Operation Orchestration credentials.
2. Update the database credentials.
3. Provide the correct JDBC path, for example, `java -jar process-defn-tool.jar -d <db.properties> -i HPOOInputSample.xml -l "C:\Program Files\jdbc\ojdbc6.jar"`.

Content archives import fails

Problem: Content archives import fails.

Symptoms	Content archives import fails.
Primary software component	HP CSA
Failure message	Cannot be imported because ProcessDefinition with name : '/Library/CSA/3.0/Providers/vCenter/vCenter Clone Server/Actions/vCenter Start Server' and UUID: '402894d437b70e750137b7103b45023e' doesn't exist
Probable cause	Import fails because process definition with name '/Library/CSA/3.0/Providers/vCenter/vCenter Clone Server/Actions/vCenter Start Server' does not exist in the system.

Solution

Run process definition tool with appropriate configuration to import '/Library/CSA/3.0/Providers/vCenter/vCenter Clone Server/Actions/vCenter Start Server' OO Flow as process definition into CSA. Subsequent import of content with content archive tool will work.

HP CSA on Ubuntu

Command not found error when CSA service script is executed

Problem: Command not found error when the HP CSA service script is executed

Symptoms	Command not found error when HP CSA service script is executed.
Primary software component	HP Cloud Service Automation
Failure message	bash: service: command not found
Probable cause	/sbin is not set in the PATH environment variable.

Solution

Do the following:

1. Add /sbin to the PATH environment variable. From a command prompt, type: `export PATH=$PATH:/sbin`
(this command should also be added to a startup script for the csouser user)
2. Verify PATH has been set. Type: `echo $PATH`
3. Run the HP CSA service script. For example, type: `service csa status`

Fail to execute CSA installer on Linux

Problem: Fail to execute CSA installer on Linux

Symptoms	Fail to execute CSA installer on Linux.
Primary software component	HP CSA on Linux platform
Failure message	No Java virtual machine could be found from your PATH environment variable. You must install a VM prior to running this program.
Probable cause	\$JRE_HOME/bin should be in the \$PATH

Solution

Export PATH=/usr/java/<jre>/bin:\$PATH and continue installation.

Failure to install CSA on Linux

Problem: Failure to install HP CSA on Linux

Symptoms	HP CSA installation fails with an error on the Linux platform.
Primary software component	HP CSA
Failure message	Verify csa_install.txt for the failure message under \$CSA_HOME/_CSA_4_0_0_installation/Logs: HostInfo Error: Status: ERROR Additional Notes: ERROR - java.net.UnknownHostException: or service not known
Probable cause	The FQDN is not resolvable.

Solution

Modify /etc/hosts to include < IP Hostname FQDN >

For example, on the Linux machine edit /etc/hosts and add following line:

<"IP address" "Hostname" "FQDN" >

HP CSA files are not cleaned up after CSA uninstallation on Ubuntu

Problem: HP CSA uninstall does not clean up all files or folders

Symptoms	Folders or files remain after successfully completing HP CSA uninstallation.
Primary software component	Ubuntu
Failure message	None
Probable cause	The files were in use during uninstallation.

Solution

1. Go to the \$CSA_HOME directory.
2. Manually delete any remaining HP CSA files.

HP CSA service fails to start on Ubuntu

Problem: HP CSA service startup fails with port in use error.

Symptoms	HP CSA service fails to start.
Primary software component	Ubuntu

Failure message	Port already in use
Probable cause	One or more ports needed by JBoss are not available because they are being used by another application.

Solution

Verify that the ports mentioned in the `$CSA_HOME/jboss-as-7.1.1.Final/standalone/configuration/standalone.xml` file are free before installing or starting the CSA service.

HP CSA Service fails to start or stop with unrecognized service error on Ubuntu

Problem: Cannot start or stop HP CSA service.

Symptoms	HP CSA service start/stop command fails.
Primary software component	Ubuntu
Failure message	csa: unrecognized service
Probable cause	The user does not have permission to execute the HP CSA service.

Solution

Follow the steps at the end of the section entitled "Install HP Cloud Service Automation" in the *HP Cloud Service Automation Installation Guide*, to create the service and provide proper permissions.

HP CSA service stop command results in java not found error on Ubuntu

Problem: Cannot stop CSA service

Symptoms	CSA service stop command fails with java not found error.
Primary software component	Ubuntu
Failure message	'eval: java: not found'
Probable cause	JAVA_HOME environment variable is not set.

Solution

1. Run the following command:

```
export JAVA_HOME=$CSA_HOME/jre
```
2. Stop the CSA service by executing the following command:

```
$CSA_HOME/jboss-as-7.1.1.Final/bin/jboss-cli.sh --connect --command=:shutdown
```

Permission denied when running process definition tool

Problem: Permission denied when running process definition tool

Symptoms	Permission denied when running process definition tool.
Primary software component	HP CSA on Linux platform

Failure message	<pre>\$ java -jar process-defn-tool.jar -g log4j:ERROR setFile(null,true) call failed. java.io.FileNotFoundException: process-defn-tool.log (Permission denied) at java.io.FileOutputStream.open(Native Method) at java.io.FileOutputStream.<init>(FileOutputStream.java:212) at java.io.FileOutputStream.<init>(FileOutputStream.java:136) at org.apache.log4j.FileAppender.setFile(FileAppender.java:294) at org.apache.log4j.RollingFileAppender.setFile(RollingFileAppender.java:207) at org.apache.log4j.FileAppender.activateOptions(FileAppender.java:165) at org.apache.log4j.config.PropertySetter.activate(PropertySetter.java:307) at org.apache.log4j.config.PropertySetter.setProperties(PropertySetter.java:172) at org.apache.log4j.config.PropertySetter.setProperties(PropertySetter. java:104) at org.apache.log4j.PropertyConfigurator.parseAppender(PropertyConfigurator.java:809) at org.apache.log4j.PropertyConfigurator.parseCategory(PropertyConfigurator.java:735) at org.apache.log4j.PropertyConfigurator.configureRootCategory(PropertyConfigurator.java:615) at org.apache.log4j.PropertyConfigurator.doConfigure(PropertyConfigurator.java:502) at org.apache.log4j.PropertyConfigurator.doConfigure(PropertyConfigurator.java:547) at org.apache.log4j.helpers.OptionConverter.selectAndConfigure(OptionConverter.java:483) at org.apache.log4j.LogManager.<clinit>(LogManager.java:127) at org.apache.log4j.Logger.getLogger(Logger.java:117) at com.hp.csa.oo.tools.exporter.ExportMain.<clinit>(ExportMain.java:39)</pre>
Probable cause	PDT tool was earlier executed as root user.

Solution

As part of the CSA installation, it is recommended you run the PDT using csouser. Delete the process-defn-tool.log file and re-run the PDT tool.

psql error loading shared libraries when connecting to Postgres database using psql command

Problem: psql error loading shared libraries when connecting to Postgres database using psql command

Symptoms	psql: error loading shared libraries when connecting to Postgres database using psql command.
Primary software component	HP CSA on Linux Platform
Failure message	psql: error in loading shared libraries libpq.so.2.1: cannot open shared object file: No such file or directory
Probable cause	No Library path was set before running the psql command.

Solution

Export "LD_LIBRARY_PATH=/opt/PostgreSQL/9.2/lib:\$LD_LIBRARY_PATH" and then run psql command.

Installation fails with SQL errors

Problem: Installation fails with SQL errors

Symptoms	Installation fails with SQL errors in the <code>csa_install.log</code> file.
Primary software component	HP CSA
Failure message	Error messages similar to: <code>org.postgresql.util.PSQLException: ERROR: duplicate key value violates unique constraint "csa_category_type_pkey"</code> <code>org.postgresql.util.PSQLException: ERROR: relation "csa_access_point" already exists</code>
Probable cause	A fresh database schema was not used with the HP CSA installation.

Solution

1. Uninstall the failed HP CSA instance by following the steps provided in the *HP Cloud Service Automation Configuration Guide*.
2. Create a new database instance.
3. Install HP CSA, providing the new database instance details.

Content upload not successful during HP CSA Installation

Problem: When HP CSA is installed with embedded HP Operations Orchestration (HP OO), component tool content packs are not being automatically exported.

Symptoms	When HP CSA is installed with embedded HP OO, the component tool content packs are not exported and one of the messages listed under "Failure message" below is noted.
Primary software component	HP CSA
Failure message	OO Content upload was not successful. Cannot Upload Contents, Please follow configuration guide to upload contents manually. OO Content upload was not successful. Cannot create OO user, Please follow configuration guide to upload contents manually.
Probable cause	The first time the embedded HP OO service starts during installation, it creates a database schema, and internal user, and uploads the content. If these operations do not occur before the content uploading timeout value is reached due to, for example, server or database performance issues, a failure will occur.

Solution

Create the HP OO user and manually deploy the content packs, as is necessary. Procedures that explain these operations are contained in the HP CSA Installation Guide in the section entitled "Configure HP Operations Orchestration."

Miscellaneous Information and Issues

CSA fails with JDBC rollback error

Problem: HP CSA fails to connect with the database, and a JDBC rollback exception occurs in the log.

Symptoms	HP CSA fails to connect with the database, and a JDBC rollback exception occurs in the log.
Primary software component	HP CSA Provider Console
Failure message	HP CSA functionality fails; JDBC rollback error appears.
Probable cause	The database connection might be broken because of network issues, or the database service is unresponsive.

Solution

Add configuration information as indicated in the following procedures.

For Standalone Setup:

- Stop the HP Cloud Service Automation service.
- Navigate to <CSA_HOME>\jboss-as-7.1.1.Final\standalone\configuration.
- Open the standalone.xml file for editing.
- Find the “dataSource” tag which is used for HP CSA database configuration.
- Add the following after the line that ends with </security>

```
<validation>
<check-valid-connection-sql>select 1</check-valid-connection-sql>
<validate-on-match>>false</validate-on-match>
</validation>
```
- Start the HP Cloud Service Automation service.

If your HP CSA instance uses the Oracle database, use the SQL query "select 1 from DUAL" instead of "select 1" in the above validation connection sql tag.

For Cluster Setup:

- Make sure the HP CSA service is stopped.
- Navigate to <CSA_HOME>\jboss-as-7.1.1.Final\domain\configuration.
- Open the domain.xml file for editing.
- Find the “dataSource” tag which is used for HP CSA database configuration.
- Add the following after the line that ends with </security>

```
<validation>
<check-valid-connection-sql>select 1</check-valid-connection-sql>
<validate-on-match>>false</validate-on-match>
</validation>
```

If your HP CSA instance uses the Oracle database, use the SQL query "select 1 from DUAL" instead of "select 1" in the above validation connection sql tag.

- Start the HP CSA Service in cluster mode.

Error updating sequential service design

Problem: An error occurs while updating an upgraded sequential service design

Symptoms	A generic error occurs while saving an upgraded sequential service design that has multiple properties from a single option target bound to the same service component.
Primary software component	Service Design
Failure message	Error updating service design
Probable cause	Multiple properties from a single option are target bound to the same service component.

Solution

Ensure that the service design does not have options such as multiple properties from any single option being target bound to the same property on a service component.

Error occurs when publishing a topology design

Problem: A topology design is created and saved without error, but an “unable to find the target resource” error occurs when an attempt is made to publish it

Symptoms	An “unable to find the target resource” error occurs when an attempt is made to publish a given topology design.
Primary software component	HP OO
Failure message	Example failure messages for situations as stated: <i>Design Consisting of AWS Network Component</i> - Topology to Execution Plan conversion failed - Unable to find the target resource of AmazonNetworkInterfaceTypeToAmazonServerType for instanceId <i>Design Consisting of AWS Volume Component</i> - Topology to Execution Plan conversion failed - Unable to find the target resource of AmazonVolumeTypeToAmazonServerType for instanceId
Probable cause	Some component types are defined with input properties that must be obtained via output properties of certain other component types. If such component types are used in a topology design without the proper companion component type that is the source of the required input property, or if a proper relation is not defined between the components, the publish operation will fail.

Solution

Ensure that components that require input from certain other component types are properly paired in the topology design, and that a relationship is defined between them.

HP CSA REST API - Cannot create property names

Problem: Cannot create property names using the REST API

Symptoms	HP CSA REST API cannot create property names.
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Primary software component	HP CSA REST API
Failure message	Object cannot be found.
Probable cause	The property name uses special characters.

Solution

If property names, such as URLs, use special characters, the special characters must be encoded.

OO flows attached during the modifying phase are not executing when name, description, or service end dates are modified

Problem: OO flows attached during the modifying phase are not executing when name, description, or service end dates are modified

Symptoms	OO flows attached during the modifying phase of a subscription are not executing when name, description, or service end date are modified.
Primary software component	CSA service subscription
Failure message	None
Probable cause	Modifying the properties of the subscription does not invoke any modification subscription actions. The only resource offerings that are processed during the modifying state are those associated with service components that are processed during the modifying state.

Solution

To ensure that the desired service components are processed during the modifying state, set these service components to have a subscriber option property that gets its value directly from a target binding or have a source binding that gets its value indirectly from such a target binding.

The only resource offerings that are processed during the modifying state are those associated with service components that are processed during the modifying state.

Process definition tool throws an error `missing mandatory field(s)'

Problem: Process definition tool throws an error "missing mandatory field(s)"

Symptoms	When running the process definition tool, the following message appears in the console or the process-defn-tool.log log file: <code>missing mandatory field(s)!</code>
Primary software component	Process definition tool
Failure message	<code>missing mandatory field(s)!</code>
Probable cause	The HPOOInputSample.xml input file includes a folder definition to OO flows, which does not contain one or more mandatory OO fields like CSA_CONTEXT_ID and CSA_PROCESS_ID.

Solution

- Change the folder definition to point to a directory containing only action flows. If the directory contains both action flows and subflows, move the subflows to a different folder.
- Check if the action flows are missing the mandatory fields.

The Process Definition Tool cannot connect to the database

Problem: The Process Definition Tool cannot connect to the database

Symptoms	When running the process definition tool, the following message appears in the console or the process-defn-tool.log log file: failed to connect to the database!
Primary software component	Process definition tool
Failure message	failed to connect to the database!
Probable cause	The database information may not be correctly defined in the database properties file. If HP CSA is configured to be compliant with FIPS 140-2, an HP CSA property may be set incorrectly or the database password stored in the database properties file has been encrypted using a different encryption algorithm.

Solution

In the database properties file that you are using with the process definition tool (for example, db.properties), verify that the information provided in the file is correct. Encrypt the database password and replace the existing db.password property value in the database properties file.

If HP CSA is configured to be compliant with FIPS 140-2, verify that the useExternalProvider property is set to true in the csa.properties file. Also, encrypt the database password and replace the existing db.password property value in the database properties file.

Process Definition Tool fails to run on HP CSA with Embedded Operations Orchestration 10.10 for sequence designs

Problem: The Process Definition Tool fails to run on HP CSA with Embedded Operations Orchestration 10.10 for sequence designs

Symptoms	Running the process definition tool with embedded HP OO 10.10 fails with the error message "user was not authenticated."
Primary software component	Process definition tool
Failure message	User was not authenticated
Probable cause	The HPOO.xml file contains localhost:8443, which is not recognized since the fully qualified domain name (FQDN) and port 8445 was specified during installation.

Solution

Modify the HPOO.xml file to include the FQDN:8445, restart the Embedded OO service (HP Execution service), and run the process definition tool again.

User authorization fails if base DN of an organization is modified during user session

Problem: User authorization fails if the base DN of an organization is modified during user session

Symptoms	If the admin user modifies the base DN in the LDAP settings of an organization while a user is logged in, the user authorization fails and navigation is disabled.
Primary software component	Market Place Portal/CSA Management Console
Failure message	Authorization exceptions
Probable cause	A user is logged into an organization when the admin user changes the base DN in the LDAP settings of that organization.

Solution

Once the user cache is cleared after the configured timeout that is set in the `csa.properties` file, the user can log in again and the user groups will be refreshed.

Vcenter_ADM_SIS_UCMDB_320 service subscription goes into Pause state even after all HP OO flows are successful

Problem: The `Vcenter_ADM_SIS_UCMDB_320` service subscription goes into the Pause state in HP CSA even after all the HP Operations Orchestration (HP OO) flows are successful and the return code from HP OO indicates a success.

Symptoms	The <code>Vcenter_ADM_SIS_UCMDB_320</code> service subscription goes into the Pause state in HP CSA even after all the HP Operations Orchestration (HP OO) flows are successful and the return code from HP OO indicates a success.
Primary software component	HP CSA, HP OO
Failure message	None.
Probable cause	The HP CSA timeout that is set to wait for the HP OO flow action to complete is shorter than the actual time taken by the action to complete the deployment of the application using HP ADM.

Solution

Increase the default timeout value for the Deploy Application action in the `SA_ADM_3.20` Resource Offering.

Windows command-line commands do not run

Problem: Windows® command-line commands do not run

Symptoms	Scripts or commands typed into the Windows command prompt fail.
Primary software component	Windows command prompt

Failure message	<partial_path_name> is not recognized as an internal or external command, operable program or batch file. For example, 'C:\Program' is not recognized as an internal or external command, operable program or batch file.
Probable cause	If a variable is used in the command, the variable might contain a space in the directory path name.

Solution

If a command uses a variable, enclose the command in quotation marks.

For example,

```
"%CSA_HOME%\jre\bin\java" -jar process-defn_tool.jar -d db.properties -i HPOOInfoInput.xml
```

or

```
"%ICONCLUDE_HOME%\jre1.6\bin\java" -jar CSA-3_10-ContentInstaller.jar -centralPassword mypassword
```

Cloud Service Management Console

No dashboard pages display when tiles under the Cloud Analytics tile are clicked

Problem: No dashboard pages open when the tiles under the Resource Analytics, Service Analytics or Showback Report tiles under the Cloud Analytics tile are clicked.

Symptoms	When the Resource Analytics, Service Analytics or Showback Report tiles that are under the Cloud Analytics tile are clicked, the relevant embedded dashboard page may not display, and an error might appear indicating the page could not be loaded.
Primary software component	HP Cloud Service Management Console
Failure message	Possible message indicating that the relevant page could not be loaded.
Probable cause	The Cloud Analytics dashboard pages are provided by HP IT Executive Scorecard and are embedded in HTML iframes (inline frames) communicating over HTTPS in the HP CSA interface. Iframe integration over HTTPS requires that the sites being connected must use trusted certificates.

Solution

1. Locate the URLs in the dashboard configuration file for the Resource Analytics, Service Analytics and Showback Report.

The dashboard configuration file "config.json" is in the <CSA Installation directory>\jboss-as-7.1.1.Final\standalone\deployments\csa.war\dashboard\ directory.

2. Open each of the URLs in the browser in use, export their certificates, add the certificates to the Windows trusted root CA, and then close the browser.
3. Reopen the browser and click on the tiles, the embedded dashboard pages should now appear.

Executive Scorecard integration does not work properly for the Showback Report

Problem: Executive Scorecard integration does not work properly for the Showback Report.

Symptoms	The Showback Report, accessible via the Cloud Analytics tile of the Cloud Service Management Console, does not display properly.
Primary software component	HP Cloud Service Management Console, Executive Scorecard
Failure message	Page was not found.
Probable cause	CAP files need to be imported into Executive Scorecard.

Solution

1. Log in to HP Live Network (HPLN) and connect to <https://hpln.hp.com/group/business-content-executive-scorecard>.
2. Click the **Downloads** tab, and then **Content Acceleration Packs, CSA, En-US**, and download the files “CSA CAP” and “CSA CAP – Demo.”
3. Upload the CAP files to the Executive Scorecard application. For details, see the procedure entitled “Upload a CAP to the Executive Scorecard application” in the *Guide to XS Content Acceleration Packs* for Executive Scorecard.

Web Browser Remembers Login Password

Problem: Internet Explorer, Chrome, and Firefox offer the ability to remember login credentials to the Cloud Service Management Console.

Symptoms	When logging in to the Cloud Service Management Console, your browser might prompt you to save the login credentials. You might be prompted to save credentials in other Cloud Service Management Console web forms as well.
Primary software component	HP Cloud Service Management Console
Probable cause	Some major browsers have been designed to ignore the autocomplete=off attribute in web forms, offering users the ability to save passwords even when web developers wish to explicitly prohibit that ability.

Solution

If you do not wish to have your login credentials saved by the browser, indicate when prompted that you do not wish to have your login or password information saved (or remembered). You can often instruct the browser to not to prompt you in the future for the web site you are in.

It is often also possible to configure a given browser to not prompt you to remember passwords at all. This can often be configured either in the browser itself or via corporate IT policy. Refer to your browser documentation or contact your system administrator for more details.

Cannot delete a provider associated with failed subscriptions

Problem: Cannot delete a provider associated with failed subscriptions.

Symptoms	During service subscription, a resource provider associated with a resource offering or resource environment might be bound to a service component of a service instance. Once a resource provider is bound, it cannot be deleted from HP CSA.
----------	--

Primary software component	HP Cloud Service Management Console
Probable cause	This is by design. Removing a bound resource provider leaves the service instance in an inconsistent state.

Solution

If you are deleting a resource provider because of a typographical error while configuring the Service Access Point information (such as the URL, user name, or password), use the edit button to modify the resource provider information in the HP Cloud Service Management Console.

Resource offering import fails

Problem: Importing resource offerings fails.

Symptoms	Unable to import a resource offering to an HP CSA instance.
Primary software component	HP CSA Resource Offering
Failure message	Invalid Import data. Check server log for details.
Probable cause	<p>Server logs generally indicate the reason the import failed. The most probable cause is that a process definition referenced by the resource offering that is being imported does not exist in HP CSA. This is the case if you see the following message in the server logs:</p> <pre>Resource Offering cannot be imported because ProcessDefinition with name: '<Process Definition Name>' and UUID: '<Process Definition UUID>' doesn't exist.</pre>

Solution:

Import the missing process definition using the Process Definition Tool.

Trying to add a valid approver after an invalid attempt to add an approver who does not have access to the organization fails with error message

Problem: Trying to add a valid approver after an invalid attempt to add an approver who does not have access to the organization fails with an error message

Symptoms	<ol style="list-style-type: none"> 1. When trying to add a valid approver after a failed attempt to add an invalid approver, the following message displays: User does not have the permission ORGANIZATION_READ to perform the operation. 2. After clicking OK, an attempt is made to add the same user to the policy again without exiting the popup UI and the add operation is successful.
Primary software component	HP Cloud Service Management Console
Failure message	User does not have the permission ORGANIZATION_READ to perform the operation.

Solution

Click **OK** when the message "User does not have the permission ORGANIZATION_READ to perform the operation" displays. Then add the same user to the policy again. The user is successfully added in the second attempt without exiting the popup UI.

Failure to add LDAP user to a named approver policy

Problem: After a failed attempt to add an invalid approver, the next attempt to add a valid approver will fail, but the second attempt will succeed

Symptoms	When attempting to add an LDAP user who does not have access to an organization to a NAMED APPROVER POLICY, the user will receive the message "Error Adding User. Person not assigned any roles for this organization." The next attempt to add a valid approver who does have organization access will fail with the message "User does not have the permission ORGANIZATION_READ to perform the operation," however, the second attempt to add a valid approver is successful.
Primary software component	Approval Policies
Failure message	After the first attempt (user does not have access to an organization) - "Error Adding User. Person not assigned any roles for this organization." After next attempt (user is a valid approver who has organization access) - "User does not have the permission ORGANIZATION_READ to perform the operation."
Probable cause	User does not have the permission ORGANIZATION_READ to perform the operation.

Solution

After the first attempt to add a valid approver, add the valid LDAP user to the Named Approver policy again without exiting the pop-up UI.

Various problems when logging into the Cloud Service Management Console in multiple browser tabs

Problem: Various problems can occur when a user logs in with different user credentials to the Cloud Service Management Console in multiple browser tabs.

Symptoms	If you log in as different HP CSA users in multiple tabs, the last user logged in determines the access rights of all currently open browser tabs. This can result in error messages being displayed when a user attempts to perform an action that the last logged in user does not have rights to perform.
Primary software component	HP Cloud Service Management Console
Probable cause	Improper handling of multiple tabs.

Solution

Use only one browser tab at a time to log in to the Cloud Service Management Console. If multiple tabs are used, ensure that the same user is logged in to each tab. To switch which user is logged in, first log out and then log back in as the different user.

Unable to log in to the Cloud Service Management Console after installation when Single Sign On Is Configured

Problem: Unable to log in to the Cloud Service Management Console after installation when Single Sign On Is Configured.

Symptoms	The user is unable to log in to Cloud Service Management Console.
Primary software component	HP Cloud Service Management Console
Failure message	No message is displayed to the user attempting to log in, but they cannot successfully log in and are continually taken back to the login screen. In the csa.log file, an error message will be logged containing the text "setSSOToken cannot be performed, configured creationDomains does not contain received request domain."
Probable cause	The domain for Single Sign On is not properly specified.

Solution

If you install HP CSA on a system with a fully qualified domain name of the format *name.a.b.com*, and if you enable Single Sign On during installation, you must specify a domain name of *a.b.com* on the install screen where the domain name is requested. If you specify *b.com*, you will be unable to log in to the Cloud Service Management Console after the installation. The HP Single Sign On functionality requires a domain name of *a.b.com* to be specified in this scenario.

If you have already installed HP CSA, you can edit the `CSA_HOME/jboss-as-7.1.1.Final/standalone/deployments/csa.war/WEB-INF/hpssoConfiguration.xml` file to set the domain property correctly, and then restart the CSA service.

Localization

Non-English characters are not being properly stored by Oracle

Problem: Non-English characters are corrupt after being stored in Oracle.

Symptoms	Non-English characters are not correct after being stored in the Oracle database.
Primary software component	Oracle database
Probable cause	Oracle database localization parameters were not set before installing HP CSA.

Solution

To support localization, the Oracle database must be configured to support non-English characters. This configuration must be completed before HP Cloud Service Automation is installed. If the necessary parameters are not set to the required values and you have already installed and started using HP CSA, in order to support non-English characters you must create another database configured for localization and then migrate the data to this instance.

See the "Configure Oracle for Localization" section of the *HP Cloud Service Automation Installation Guide*.

Integrations

HP CSA and/or HP OO are unable to communicate with resource providers located outside internal network

Problem: HP CSA and/or HP OO are unable to communicate with resource providers located outside the internal network.

Symptoms	A Provider Validation Failed message appears when creating a resource provider with a service access point located outside of the internal network, or provisioning of a design fails when HP Operations Orchestration is unable to communicate with a resource provider located outside of the internal network.
Primary software component	HP Cloud Service Management Console, HP OO
Failure message	Varies. The Provider Validation Failed message will additionally say "The provider information you have entered was unable to be validated successfully. This is most likely due to an invalid or unreachable URL. Continue anyway?" The error in an HP OO flow will vary based on the flow.
Probable cause	HP CSA and HP OO need to be configured with network proxies.

Summary

If the customer environment is using a network proxy, and the customer is communicating with providers outside of the internal network, then those proxy settings might need to be configured in HP CSA and HP OO for those providers to be usable.

The proxy issue can appear in a number of cases, such as the following:

- *Provider Configuration and Validation*

When a provider is modified and saved, accessibility of the provider URL is validated with an HTTP or HTTPS GET call. If the proxy configuration is required for this GET to be successful, then the provider validation will fail with a dialog titled "Provider Validation Failed" containing the message: "The provider information you have entered was unable to be validated successfully. This is most likely due to an invalid or unreachable URL. Continue anyway?"

- *HP Operations Orchestration (HP OO) Flow Execution*

When an HP OO workflow provisioning step executes and attempts to contact an external provider, it might fail due to a missing proxy configuration.

In both of these cases, the user may be able to run a web browser from the HP CSA server or HP OO server where the proxy has been configured, and may be able to successfully access the provider URL (to Amazon, for example).

Solution

For both HP CSA and HP OO, the Java Virtual Machines (JVMs) can be configured to run with a proxy, but do not automatically use the system or browser proxy settings. This often explains why a user can access a URL in a web browser, but the HP CSA and HP OO Java based services cannot.

For both of the JVMs, the proxy information cannot be configured during the install process. It must be configured after installation.

Proxy Configuration in HP CSA

The proxy configuration in HP CSA is made by adding options to the JVM when it starts. For HP CSA, this is controlled by one of these scripts:

Windows: <CSA Installation Directory>/jboss-as-7.1.1.Final/bin/standalone.conf.bat

Linux: <CSA Installation Directory>/jboss-as-7.1.1.Final/bin/standalone.conf

For Windows, add the following lines to the standalone.conf.bat file after the last uncommented line that sets JAVA_OPTS, supplying the appropriate values for proxyHost and proxyPort in your environment:

```
rem # HTTP Proxy Settings
set "JAVA_OPTS=%JAVA_OPTS% -Dhttp.proxyHost=proxy.company.com -Dhttp.proxyPort=8080"

rem # HTTPS Proxy Settings
set "JAVA_OPTS=%JAVA_OPTS% -Dhttps.proxyHost=proxy.company.com -Dhttps.proxyPort=8080"

rem # HTTP/HTTPS hosts not handled by the proxy
set "JAVA_OPTS=%JAVA_OPTS% -
Dhttp.nonProxyHosts=mycsaserver^^^|localhost^^^|127.*^^^|10.* "
```

For the list of nonProxyHosts, note that in Windows the separator between entries is "^^^"

For Linux, add the following lines to the standalone.conf file, around line 52, in the if-else block:

```
# HTTP Proxy Settings
JAVA_OPTS= "$JAVA_OPTS -Dhttp.proxyHost=proxy.company .com -Dhttp.proxyPort=8080"

# HTTPS Proxy Settings
JAVA_OPTS= "$JAVA_OPTS -Dhttps.proxyHost=proxy.company.com -Dhttps.proxyPort=8080"

# HTTP/HTTPS hosts not handled by the proxy
JAVA_OPTS= "$JAVA_OPTS -Dhttp.nonProxyHosts=mycsaserver\|localhost\|127.*\|10.* "
```

For the list of nonProxyHosts, note that for Linux the separator between entries is "\"

See <http://docs.oracle.com/javase/7/docs/api/java/net/doc-files/net-properties.html> for more information on the possible proxy settings for the JVM.

The CSA Service must be restarted for the proxy settings to take effect.

Proxy Configuration in HP OO

The proxy configuration in HP OO is made through the HP OO Central console. In the Central Console, go to Content Management -> Configuration Items -> System Properties and set the following property values as appropriate:

Property: CSA_Proxy_Host
Value: proxy.company.com

Property: CSA_Proxy_Port
Value: 8080

Date parsing exception

Problem: HP CSA subscription or public actions Add Server fails due to Date Parsing Exception.

Symptoms	HP CSA subscription or public actions Add Server fails due to Date Parsing Exception.
Primary software component	HP CSA
Failure message	Similar to the following: Date Parsing Exception : java.lang.Exception: java.text.ParseException: Unparseable date: "2014-03-28T02:17:39+05:30"
Probable cause	Unknown.

Solution

Recreate a new subscription for the same offering.

HP Operations Orchestration (OO)

All workflows in the HP Operations Orchestration public repository are invalid

Problem: All workflows in the HP OO public repository are invalid.

Symptoms	The names of all workflows in the HP OO public repository are in red font.
Primary software component	HP Operations Orchestration
Failure message	None
Probable cause	RAS Operator Path configured incorrectly

Solution

1. Login to the HP OO Studio, and navigate to **Configuration > Remote Action Services > RAS Operator Path** in the HP OO public repository.
2. Verify that the RAS operator path is configured correctly with a valid IP address or fully-qualified domain name and port number.

Some workflows under CSA folder are invalid

Problem: Some workflows under CSA folder are invalid.

Symptoms	The names of some workflows under /Library/CSA in the HP OO public repository are in red font.
Primary software component	HP Operations Orchestration
Failure message	Moving the mouse over an invalid workflow will display messages similar to the following: <ul style="list-style-type: none">• The operation this step links to has problems• Transition source step has no operation linked to it• Operation cannot be found
Probable cause	Required HP OO content may not have been installed.

Solution

Verify that all the required HP OO content has been installed as described in the "HP Operations Orchestration Support Requirements" section in the *HP Cloud Service Automation Solution and Software Support Matrix*.

HP CSA Operations Orchestration content not reflected in HP OO

Problem: HP CSA Operations Orchestration content is not reflected on HP OO.

Symptoms	After installing the HP CSA OO content installer (CSA-3_20-ContentInstaller.jar), the CSA flows are not reflected in HP OO Studio.
Primary software component	HP Operations Orchestration

Solution

Follow these steps in the given order:

1. Clean up the HP OO repository.
2. Reinstall HP OO-SA content.
3. Reinstall HP OO Content Pack.
4. Reinstall the HP CSA-OO content, `CSA-3_20-ContentInstaller.jar`.

Subscription fails because Get User Identifier step in an HP Operations Orchestration (OO) flow failed

Problem: A subscription fails because the Get User Identifier step in an HP Operations Orchestration (OO) flow failed.

Symptoms	A subscription fails because the <i>Get User Identifier</i> step in an HP Operations Orchestration (OO) flow failed with status "Failed to Execute".
Primary software component	HP Operations Orchestration
Failure message	Status of Get User Identifier step in the HP OO flow is: Failed to Execute.
Probable cause	HP CSA user credentials or the URI setting in HP OO are not configured correctly.

Solution

In HP OO Studio, verify that the settings for `CSA_REST_CREDENTIALS` and `CSA_REST_URI` are configured correctly. HP recommends the following:

- **Configuration > System Properties > CSA_REST_URI:**
`https://<csa_hostname>:8444/csa/rest`
- **Configuration > System Accounts > CSA_REST_CREDENTIALS:** `user name: ooInboundUser, password: cloud`

Refer to the section "Configure HP Operations Orchestration" in the *HP Cloud Service Automation Installation Guide* for more information.

Resources are not cleaned up after a subscription times out and fails

Problem: Resources are not cleaned up after a subscription times out and fails.

Symptoms	An attempt to fulfill a subscription fails as the result of a time out, and some resources that were provisioned during the operation are not cleaned up. Normally, when a subscription fails, such resources should get cleaned up.
Primary software component	HP CSA, HP Operations Orchestration
Failure message	None
Probable cause	The subscription fulfillment operation times out before HP CSA receives reference identifiers for certain resources being provisioned as a result of the operation, and without such references, HP CSA cannot clean up the resources when the operation fails.

Solution

The HP CSA administrator will have to manually clean up any resources that were created as a result of the failed subscription fulfillment operation but not cleaned up.

Trust store setup failure causes login lockouts

Problem: Trust store setup failure causes login lockouts.

Symptoms	After installation and setup of HP CSA and configuration of the HP CSA trust store to enable access to HP OO, it is not possible to login to either HP CSA or HP OO.
Primary software component	HP CSA, HP OO, Java keytool, certificate files, McAfee trust authentication services
Failure message	Browser errors. No login page is presented for either HP CSA or HP OO. Indication that the web services are inaccessible or non-existent.
Probable cause	Misstep or typographical error occurred when running the keytool export/import process, followed by manipulation and/or replacement of the monitored certificate files, triggering the McAfee trust authentication security software to intercept and prevent access to either the HP CSA or HP OO web services.

Solution

Do not modify the trust store certificates file in its source directory. Modify a copy of this file and verify that all steps, passwords, and entry changes are correct before replacing it.

javax.net.ssl.SSLHandshakeException

Problem: javax.net.ssl.SSLHandshakeException: sun.security.validator.ValidatorException: PKIX path building failed

Symptoms	javax.net.ssl.SSLHandshakeException: sun.security.validator.ValidatorException: PKIX path building failed.
Primary software component	HP CSA and HP Operations Orchestration (HP OO)
Failure message	Caught exception: javax.net.ssl.SSLHandshakeException: sun.security.validator.ValidatorException: PKIX path building failed: sun.security.provider.certpath.SunCertPathBuilderException: unable to find valid certification path to requested target.
Probable cause	The HP OO certificate is not imported into the HP CSA Installed JRE security cacerts path.

Solution

1. Make sure the \$PATH variable has \$JRE_HOME\bin set per the HP CSA installation JRE selected during the HP CSA installation (for example, either openjre or Oracle JRE).
2. Verify that the OO10.x certificate is imported properly to the HP CSA installed JRE cacerts path, using commands below:

- If Oracle JRE is selected during HP CSA installation, then import the OO 10.x certificate using a command like the following:

```
keytool.exe -importcert -alias tomcat -file "C:\Temp\oo10-  
certificate.cer" -keystore "C:\Program  
Files\Java\jre7\lib\security\cacerts"
```

- If openjre is selected during HP CSA installation, then the OO10.x certificate has to be imported to the path "C:\Program Files\Hewlett-Packard\CSA\openjre\lib\security" using a command like the following:

```
keytool.exe -importcert -alias tomcat -file "C:\Temp\oo10-
certificate.cer" -keystore "C:\Program Files\Hewlett-
Packard\CSA\openjre\lib\security\cacerts" password: changeit
```

3. After the certificate has been imported, restart the CSA service.
4. Refer to the section of the HP CSA Installation Guide entitled "Configure HP Operations Orchestration" at 'Step 7, "Configure SSL Between HP Cloud Service Automation and HP Operations Orchestration."

java.lang.RuntimeException: java.net.SocketTimeoutException: Read timed out when provisioning parallel servers for OOTB Sequence Designs

Problem: java.lang.RuntimeException: java.net.SocketTimeoutException: Read timed out when provisioning parallel servers for OOTB Sequence Designs.

Symptoms	One or both of the following messages appear (depending on the environment) in the cloud services management console and HP OO log when a request is submitted to provision parallel servers for an OOTB sequenced design.
Primary software component	HP CSA
Failure message	<p><i>In cloud services management console:</i></p> <pre>java.lang.RuntimeException: java.net.SocketTimeoutException: Read timed out</pre> <p><i>In HP OO logs:</i></p> <pre>WorkerExecutionThread-17_149417227-PluginAdapterImpl.java:317 ERROR - java.lang.RuntimeException: Couldn't connect to VIM service OO 10.10 ==> localhost_access_log.2014-07-03.txt 10.1.12.107 - - [03/Jul/2014:15:46:24 -0700] "POST /PAS/services/rest/run_async/35d34b4b-b544-4531-8667- 3c26619ffe63? CSA_CONTEXT_ID=8a818ceb46f958850146fe668f5a468a&CSA_PROCESS_ID=8 a818ceb46f958850146fe68068e47ed& RSC_PROVIDER_ID=8a818ceb46f913060146f91363460001&RSC_POOL_ID=%5B TOKEN%3ARSC_POOL_ID%5D&RSC_SUBSCRIPTION_ID=8a818ceb46f958850146f e668f5a468a& SVC_INSTANCE_ID=8a818ceb46f958850146fe66024f43f6&SVC_COMPONENT_I D=8a818ceb46f958850146fe665b964567& SVC_COMPONENT_TYPE=SERVER&SVC_SUBSCRIPTION_ID=8a818ceb46f9588501 46fe65f5ae43d5&SVC_SUBSCRIPTION_EMAIL=donna.j.molinari%40hp.com& PRN_COMPONENT_ID=8a818ceb46f958850146fe6602c944a0&REQ_ORG_ID=BFA 0DB53DA404B90E04059106D1A24B5& REQ_USER_ID=8a818ceb46f958850146f95f2b1d0004&USR_ORG_ID=BFA0DB53 DA404B90E04059106D1A24B5& RSC_BINDING_ID=8a818ceb46f958850146fe665b99456b& HTTP/1.1" 500 -</pre>
Probable cause	Communication between HP OO and HP CSA is not stable.

Solution

Verify that the DNS settings and IP Gateway are configured correctly for the vCenter provider. If the vCenter provider contains two NIC cards, the address might not resolve correctly when using a FQDN name as the vCenter provider's Access Point. In such a case, do either of the following:

- Add a line like the following example line to the HOSTS file of the HP CSA machine. The line should contain the access point IP address of the vCenter provider along with its FQDN:

```
10.1.0.24    sct-cloud.acme.local    sct-cloud    # VCENTER 5.10 (CSA)
```
- Specify the IP address for the Service Access Point when setting up the vCenter provider, like the following example:

Edit Resource Provider ? ✕

Provider Type
VMware vCenter

Display Name *

Description

User ID *

Password *

Confirm Password*

Image

Change Image

Recommended dimension of 256x256. Maximum file size of 1MB.

Default Settings
Enabled ?

Service Access Point *
 ?

HP Matrix Operating Environment (MOE)

MOE_COMPUTE_SOAPV4_3.20 subscriber actions fail

Problem: MOE_COMPUTE_SOAPV4_3.20 subscriber actions fails to execute the request

Symptoms	Subscriber action for MOE_COMPUTE_SOAPV4_3.20 service design fails to execute.
Primary software component	HP Matrix Operating Environment
Failure message	soap:Client</faultcode><faultstring>Message part http://v3.soap.io.hp.com/ http://v3.soap.io.hp.com/ . (Does it exist in service WSDL?)</faultstring>
Probable cause	HP MOE provider should be configured with SOAP v4 endpoint.

Solution

Login to the provider portal and verify that the provider URL and SOAP endpoint are correct. The HP Matrix Operating Environment provider should have a SOAP v4 endpoint which will be in the format `https://<moehostname>:51443/hpio/controller/soap/v4`.

No resource provider selected when subscribing to MOE_COMPUTE_CUSTOM_PROVIDER_SELECTION_v3.20

Problem: No resource provider selected when subscribing to MOE_COMPUTE_CUSTOM_PROVIDER_SELECTION_v3.20.

Symptoms	No resource provider is selected when a subscription is requested for a service offering that uses the MOE_COMPUTE_CUSTOM_PROVIDER_SELECTION_3.20 service design.
Primary software component	HP Matrix Operating Environment
Failure message	ERROR SelectProviderAction : Could not select a provider as valid providers list is empty for Resource Binding: 8f5afbfff39b5329c0139bbd285240747
Probable cause	The providers associated with the MOE_COMPUTE_3.20 resource offering do not contain an ORGANIZATIONS property, or none of the provider ORGANIZATIONS contain the user organization name as a value.

Solution

Verify whether the providers associated with the MOE_COMPUTE_3.20 resource offering have a correctly defined ORGANIZATIONS property.

- ORGANIZATIONS property value should be populated with the name of the HP MOE *Organizations* configured in HP MOE.
- At least one of the provider organizations should contain the user organization name as a value.

See the *HP Cloud Service Automation Integration Pack* guide for more information.

Service Design MOE_COMPUTE_3.20 does not have new MOE SOAP v4 actions

Problem: MOE_COMPUTE_3.20 does not have new MOE SOAP v4 actions.

Symptoms	When MOE_COMPUTE_3.20 service design is used with MOE SOAP v4 endpoint, no new SOAP v4 actions are visible in the consumer portal.
Primary software component	HP Matrix Operating Environment
Failure message	None
Probable cause	New SOAP v4 actions are not supported with MOE_COMPUTE_3.20 service design.

Solution

Actions in the service design MOE_COMPUTE_3.20 are limited to MOE SOAP v3 endpoint, irrespective of the MOE SOAP endpoint configured on the provider.

To get new actions of MOE SOAP v4, use MOE_COMPUTE_SOAPV4_3.20 service design following the below steps.

1. Import the HP CSA content archive `CSA_BP_MOE_COMPUTE_SOAPV4_v3.20.00`.
2. The HP Matrix Operating Environment provider associated with the `MOE_COMPUTE_SOAPV4_3.20` offering must have the endpoint SOAP v4.
3. Create an HP CSA service offering using the `MOE_COMPUTE_SOAPV4_3.20` service design. Publish the new offering and subscribe to it.

See the *HP Cloud Service Automation Integration Pack* guide for more information.

Subscriptions using service design `MOE_COMPUTE_MT_3.20` fail with error 'Impersonated user is not recognized'

Problem: Subscriptions using service design `MOE_COMPUTE_MT_3.20` fail with error "Impersonated user is not recognized"

Symptoms	Subscription using <code>MOE_COMPUTE_MT_3.20</code> service design fails with error in HP OO reports.
Primary software component	HP MOE 7.0 and later versions
Failure message	Impersonated user '<username>' is not recognized Eg 1 : Impersonated user 'cirrus\finance1' is not recognized Eg 2 : Impersonated user 'csatest2' is not recognized
Probable cause	<ul style="list-style-type: none"> • HP MOE is not configured to support multi-tenancy. • HP MOE user-organization configuration is incorrect. • The domain name used by HP CSA (in conjunction with the user name) to login to HP MOE is incorrect.

Solution

Verify the following configurations:

1. For HP MOE multitenancy-based subscriptions, the domain name for the requesting user is retrieved from the user configured with the resource provider in HP CSA. This domain name and the requesting user's name are combined to create the login name that is used to log in to HP MOE during service creation. The login name uses the following format: `<Provider_User's_Domain_Name> \ <Requesting_User's_Name>`
2. In HP MOE, verify that the active directory is configured to support multi-tenancy
3. In HP MOE, verify that the user is correctly mapped to the HP MOE organization.

See the *HP Cloud Service Automation Integration Pack* guide, and the HP MOE documentation on Multi-tenancy and Active Directory Integration for more information.

HP MOE Add Disk action fails with SOAP v3 endpoint

Problem: Add Disk action executed for the HP MOE based subscription fails.

Symptoms	Add Disk subscriber action executed on the HP Matrix Operating Environment (MOE) SOAP v3-based subscription fails.
Primary software component	HP Matrix Operating Environment
Probable cause	HP MOE templates are not designed to support Add Disk operation.

Solution

Verify whether the HP MOE template is designed to support **Add Disk** operation. To verify the template:

1. Open the HP MOE template used for provisioning in the HP MOE designer portal.
2. The server group on which the **Add Disk** operation is performed should have a non-boot disk attached to it.
3. If the disk is not attached, add a data disk to the server group.
4. Save the HP MOE template.
5. Create a new HP CSA subscription.
6. Request **Add Disk** from the Server Group of the newly create subscription.

HP MOE Add Server action fails

Problem: Add Server action executed for the MOE-based subscription fails.

Symptoms	Add Server subscriber action executed on the HP MOE-based subscription fails.
Primary software component	HP Matrix Operating Environment
Probable cause	HP MOE templates are not designed to support Add Server .

Solution

Verify whether the MOE template is designed to support the **Add Server** operation. To verify the template:

1. Open the HP MOE template used for provisioning in the HP MOE designer portal.
2. Open the configurations for the server group on which **Add Server** action is to be performed.
3. In the configuration window, on the **Config** tab, verify that the maximum number of servers is greater than the initial number of servers.
4. Modify the maximum number of servers if it does not meet this requirement, and save the HP MOE template.
5. Create a new subscription using this template.
6. Request **Add Server** from the Server Group of the newly create subscription.

MOE Simple compute fails with error that user does not have impersonate privilege

Problem: MOE Simple compute fails with error that user does not have impersonate privilege

Symptoms	MOE Simple compute fails with error that user does not have impersonate privilege.
Primary software component	HP Matrix Operating Environment
Failure message	User does not have impersonate privilege.
Probable cause	The Administrator user for MOE does not have impersonation privileges for the CSA consumer user used to create MOE simple compute subscriptions.

Solution

The MOE provider user configured in HP CSA should have impersonate privileges.

Add Server action flow for MOE-based service designs fails in OO Central when MOE template used to provision is set with minimum number of servers as 4 servers.

Problem: Add Server action flow for MOE-based service designs fails in OO Central when MOE template used to provision is set with minimum number of servers as 4 servers.

Symptoms	Add Server action flow for MOE-based service designs fails in OO Central when the MOE template used to provision is set with minimum number of servers as 4 servers.
Primary software component	HP Matrix Operating Environment
Failure message	<p>Error in CSA server log similar to:</p> <p>Sat, 11 Jan 2014 03:13:57,974 ERROR [com.hp.csa.rest.base.ArtifactController] (http--0.0.0.0-8444-2) Exception raised in the controller</p> <p>Sat, 11 Jan 2014 03:13:57,977 ERROR [com.hp.csa.rest.base.ArtifactController] (http--0.0.0.0-8444-2) com.hp.csa.exception.ObjectNotFoundException: Object cannot be found. (object name = Artifact, id = 2c90e598437a273e01437e0dd31d03d6,2c90e598437a273e01437e0e09bc03de,2c90e598437a273e01437e0e429403e6,2c90e598437a273e01437e1c5ee604fa)</p> <p>Sat, 11 Jan 2014 03:13:57,977 ERROR [stderr] (http--0.0.0.0-8444-2) com.hp.csa.exception.ObjectNotFoundException: Object cannot be found. (object name = Artifact, id = 2c90e598437a273e01437e0dd31d03d6,2c90e598437a273e01437e0e09bc03de,2c90e598437a273e01437e0e429403e6,2c90e598437a273e01437e1c5ee604fa)</p> <p>OO FLOW : MOE Add Server fails at Update MOE Components->Add Infra Child Components->Add Server to Server Group->Update OS Type</p>
Probable cause	<p>Issue is with OO.10.01.0001. This use case has one subflow "remove duplicates", which works on Studio as expected but not on Central. Flow output is not correct on Central so it's failing to proceed. Xpath operation has a defect in OO 10.01.001 defect:</p> <p>176027 :MOE_Compute_320 SD online subscription created from template having 4 servers as min servers has failed for MOE Add server public actions in MOE Add server OO flow.</p>

Solution

Either one of the following solutions can be used.

1. If OO10.01.0001 is used, then use a minimum number of server as 1 in the MOE template used for provisioning.

OR

2. Use OO version OO10.02.

HP Server Automation with HP Application Deployment Manager

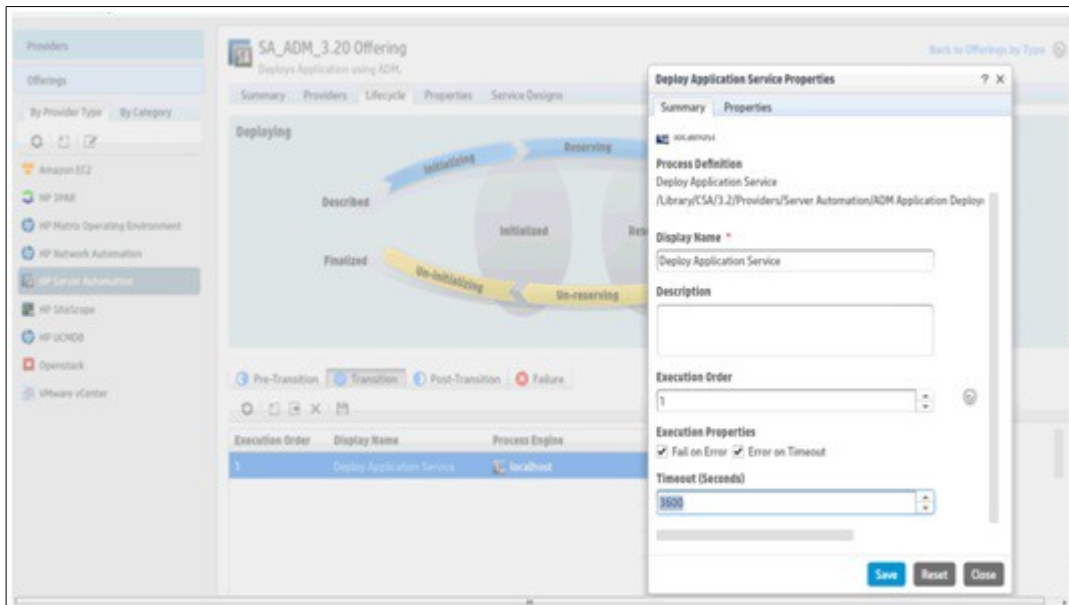
HP ADM-based service subscription is paused in HP CSA even after all the HP OO flows are successful

Problem: HP ADM-based service subscription is paused in HP CSA even after all the HP OO flows are successful

Symptoms	HP ADM-based service subscription moves into a Pause state in HP CSA even after all the HP OO flows are successful and the return code from HP OO is successful.
Primary software component	HP Server Automation, HP Operations Orchestration, HP MOE
Failure message	Unknown macro: {Result=-1;returnResult=Timeout! The job having the id} in the OO Report
Probable cause	The timeout in HP CSA for HP ADM deployment actions is less than the time taken to deploy applications using HP ADM flows.

Solution

Increase the timeout value on the Timeout field set for the actions on the HP ADM resource offerings.



HP MOE ADM deployment fails

Problem: HP MOE ADM deployment fails after provisioning the server instances.

Symptoms	HP OO flow MOE ADM Simple Compute Linux - Deploy fails.
Primary software component	HP Server Automation
Failure message	The HP OO Central report indicates failure at step validate MOE - ADM.
Probable cause	Server Group Node names from the HP MOE templates does not match the property MOEGROUPNAME on the associated DB Group or Web Group_ Server Group components.

Solution

Update MOEGROUPNAME property on the service design with associated HP MOE Server Group Node name from the HP MOE template.

SA –ADM flows failure in OO10.10 central

Problem: Failure at SA –ADM flows in HP OO 10.10 central in the flow; Deploy Application Service -->ADM Make Target --> create Target.

Symptoms	Failure at SA –ADM flows in HP OO 10.10 central in the flow; Deploy Application Service -->ADM Make Target --> create Target.
Primary software component	HP Server Automation with Application Deployment Manager OO10.10,OO10.02,oo10-sa-cp-1.0.2.jar
Failure message	Error messages in OO Execution Log similar to the following: 2014-04-05 08:26:44,086 [WorkerExecutionThread-6_140531362] (PluginAdapterImpl.java:298) ERROR - org.apache.wink.client.ClientRuntimeException: java.lang.RuntimeException: javax.net.ssl.SSLPeerUnverifiedException: peer not authenticated at org.apache.wink.client.internal.ResourceImpl.invoke(ResourceImpl.java:228) at org.apache.wink.client.internal.ResourceImpl.invoke(ResourceImpl.java:178) at org.apache.wink.client.internal.ResourceImpl.get(ResourceImpl.java:289) at com.opsware.content.actions.sas.da.ADMServiceWrapper.getEnvironments (ADMServiceWrapper.java:874) at com.opsware.content.actions.sas.da.ADMServiceWrapper.getEnvironmentByName (ADMServiceWrapper.java:889) at com.opsware.content.actions.sas.da.ADMServiceWrapper.createTarget (ADMServiceWrapper.java:382) at com.opsware.content.actions.sas.da.CreateTarget.execute(CreateTarget.java:38) at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method) at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:57) at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl. java:43) at java.lang.reflect.Method.invoke(Method.java:606) at com.hp.oo.sdk.plugins.abstracts.BaseActionPlugin.execute (BaseActionPlugin.java:53) at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method) at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl. java:57) at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethod AccessorImpl.java:43) at java.lang.reflect.Method.invoke(Method.java:606) at com.hp.oo.maven.PluginAdapterImpl.executePlugin(PluginAdapterImpl.java:295) at com.hp.oo.maven.PluginAdapterImpl.execute(PluginAdapterImpl.java:227) at com.hp.oo.execution.control.actions.contentexecution.ContentExecutionActions. executeContentAction(ContentExecutionActions.java:85) at sun.reflect.GeneratedMethodAccessor514.invoke(Unknown Source) at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl. java:43) at java.lang.reflect.Method.invoke(Method.java:606) at com.hp.oo.execution.reflection.ReflectionAdapterImpl.executeControlAction (ReflectionAdapterImpl.java:48) at com.hp.oo.execution.services.ExecutionServiceImpl.executeStep (ExecutionServiceImpl.java:531)

	<pre> at com.hp.oo.execution.services.ExecutionServiceImpl.execute (ExecutionServiceImpl.java:101) at com.hp.oo.execution.services.SimpleExecutionRunnable.doRun (SimpleExecutionRunnable.java:128) at com.hp.oo.execution.services.SimpleExecutionRunnable.run (SimpleExecutionRunnable.java:88) at java.util.concurrent.Executors\$RunnableAdapter.call(Executors.java:471) at java.util.concurrent.FutureTask.run(FutureTask.java:262) at java.util.concurrent.ThreadPoolExecutor.runWorker (ThreadPoolExecutor.java:1145) at java.util.concurrent.ThreadPoolExecutor\$Worker.run(ThreadPoolExecutor.java:615) at com.hp.oo.execution.services.WorkerThreadFactory\$1.run(WorkerThreadFactory. java:23) at java.lang.Thread.run(Thread.java:744) Caused by: java.lang.RuntimeException: javax.net.ssl.SSLPeerUnverifiedException: peer not authenticated </pre>
Probable cause	The HP SA certificate needs to be imported on HP OO Central to use ADM functionality. Certificate is required only with oo10-sa-cp-1.0.2 if OO version >= 10.02.

Solution

Note: Refer also to the oo10-sa-cp-1.0.2 CP Release notes.

Import the HP SA core certificate to the OO10.10 central client truststore. To import the HP SA certificate in HO OO Central:

1. Run the following command:

```
<OO_HOME>\java\bin\keytool.exe -import -alias opsware -file <SA_certificate_path> -
keystore <OO_HOME>\central\var\security\client.truststore
```

Where <OO_HOME> is the path to the installation folder of HP OO 10.10, and <SA_certificate_path> is the path to where the HP SA certificate was downloaded from the core. For example:

```
C:\Program Files\Hewlett-Packard\HP Operations Orchestration\java\bin\keytool.exe -
import -alias opsware -file c:\opsware.cer -keystore "C:\Program Files\Hewlett-
Packard\HP Operations Orchestration\central\var\security\client.truststore"
```

2. Restart the Central service.

HP SiteScope

HP SiteScope CSA template does not appear on HP SiteScope server after import

Problem: Auto import of SiteScope template fails.

Symptoms	HP SiteScope CSA template does not appear on HP SiteScope server after import.
Primary software component	HP SiteScope
Failure message	None
Probable cause	Auto import of HP SiteScope template CSA templates autoimport.tpl fails intermittently. Because of the import failure, credential preferences are not created.

Solution

Follow these steps to manually import the HP SiteScope template and create the credential preferences with the login details for the target server

1. Log on to the HP SiteScope server using administrator credentials using url `http://<ServerIP>:8080/`.
2. In the left page, select the Templates tab.
3. If there is no *CSA templates* group with both WINDOWS and LINUX templates:
 - a. Right click the template container name (e.g., SiteScope) and select **import**
 - b. Browse and select the file "*CSA templates.tmpl*" and complete the import.
4. Manual import does not create credential preferences. To create the credential preferences for WINDOWS and LINUX targets manually, do the following:
 - a. Select the **Preferences** tab in the HP SiteScope browser left-most panel.
 - b. Choose *Credential Preferences*.
 - c. Create a LINUX credential with the name *LINUX-CSA-TARGETS*.
 - d. Set the username and password for LINUX target server.
 - e. Create a WINDOWS credential with the name *WINDOWS-CSA-TARGETS*.
 - f. Set the username and password for WINDOWS target server.

HP SiteScope monitor deployment fails

Problem: Remote connection from the HP SiteScope server to the target server fails

Symptoms	HP SiteScope monitor deployment fails with an error in HP OO reporting as shown in failure message below.
Primary software component	HP SiteScope
Failure message	Property remote name remote:19 probably remote connection failed. Please check if remote:19 defined in SiteScope configuration or in domain.
Probable cause	The credential preferences are not updated with the target server login credentials.

Solution

Follow these steps to update the credential profiles with the login details for the target server:

1. The credential profiles are found in the HP SiteScope server under **Preferences > Credential Preferences**. Default HP CSA credential profiles are *WINDOWS-CSA-TARGETS* for Windows systems and *LINUX-CSA-TARGETS* for Linux target systems.
2. Select the credential profile to edit.
3. Enter the login and password values for the target servers.
4. Click *OK *to save the details.

SiteScope create server monitor fails

Problem: HP SiteScope create server monitor fails

Symptoms	HP SiteScope template name mismatch.
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Primary software component	VMware Vcenter and MOE
Failure message	Error Code: 55636. Error Description: could not find Template name LINUX in the configuration.;returnResult=com.mercury.sitescope.api.configuration.exception.ExternalServiceAPIException: Error Code: 55636. Error Description: could not find Template name LINUX in the configuration.;returnCode=-1;sessionId=iconclude-5039678751334013037;exception=com.mercury.sitescope.api.configuration.exception.ExternalServiceAPIException: Error Code: 55636. Error Description: could not find Template name LINUX in the configuration in the OO Report.
Probable cause	<ul style="list-style-type: none"> • HP SiteScope monitor creation fails since the template is not imported on the SiteScope server. • Template name does not match the designer property.

Solution

1. If the template is not imported on the SiteScope server, import the template from the CSAKit folder. For details, refer to the *HP Cloud Service Automation Installation Guide*.
2. Verify the template name on the designer matches the name on the SiteScope server, including spaces and capitalization.

HP Universal CMDB

uCMDB Create fails

Problem: uCMDB Create fails

Symptoms	uCMDB Create object fails.
Primary software component	VMware Vcenter and MOE
Failure message	Unknown macro: {ucmdbld=Class "application_service" is not defined in the uCMDB class model;FailureMessage=;TimedOut=;Result=;}
Probable cause	Topology is not imported on the uCMDB server.

Solution

If the topology is not imported on the uCMDB server, import the uCMDB topology from the CSAKit folder. (For details, refer to the *HP CSA Integration Help* guide.)

VMware vCenter

Modifying active subscription fails when modifying a subscription of Vcenter_Compute_Modify_v3.20.00

Problem: Modifying active subscription fails when modifying a subscription of Vcenter_Compute_Modify_v3.20.00

Symptoms	Modifying online active subscription fails with error "usedByCsa value cannot be greater than availableToCsa" when modifying a subscription of Vcenter_Compute_Modify_v3.20.00.
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Primary software component	VMware vCenter
Failure message	OO flow in OO central 'vcenter simple compute-server group modify CPU and Memory' will fail in step 'validate and update resource pool' with error "usedByCsa value cannot be greater than availableToCsa."
Probable cause	Resource Type CPU and Memory Capacities available to HP CSA in the resource pool for the Vcenter Provider is less than the capacities requested by the user.

Solution

Increase the resource type CPU and memory capacities available to HP CSA in the resource pool of the vCenter provider.

Subscription fails while using VCENTER_COMPUTE_CUSTOM_POOL_SELECTION Service Design

**Problem: Subscription fails while using VCENTER_COMPUTE_CUSTOM_POOL_SELECTION
Service Design**

Symptoms	Provider Pool selection fails. Provision fails to allocate appropriate disk size for the instance (should match template).
Primary software component	VMware Vcenter
Failure message	ERROR BuildProviderPoolListAction : Errorjava.util.MissingResourceException: Can't find resource for bundle java.util.PropertyResourceBundle, key exception.buildProviderPoolList.missingResourcePools
Probable cause	Valid Resource Pool is not created and enabled. The free space on the data store for the resource enabled does not match the size of the template.

Solution

1. Verify the Resource Pool is created and enabled with resource type storage.
2. Verify that one of the pools created has enough space on the data store based on the disk size provided in the subscriber options.
3. Verify the pool is created with the same name as the data store name in the Vcenter.

Valid Provider selection fails for Resource Binding when subscribing to Vcenter_Compute_Modify_v3.20.00

**Problem: Valid Provider selection fails for Resource Binding when subscribing to
Vcenter_Compute_Modify_v3.20.00**

Symptoms	Cannot select a Provider because the valid provider list is Empty for Resource Binding when subscribing to Vcenter_Compute_Modify_v3.20.00.
Primary software component	VMware vCenter

Failure message	ERROR SelectPoolAndProviderAction : Could not select a provider as valid providers list is empty for Resource Binding: 8f5afb083ea87821013ec5bdd66a6636 in csa.log file.
Probable cause	<ol style="list-style-type: none"> 1. Resource Type CPU and Memory are not defined in the Resource Pool of the vCenter Provider. 2. Resource Pool is disabled for the vCenter Provider. 3. Resource Type CPU and Memory available capacity is less than the capacities requested in the initial Subscription for Vcenter_Compute_Modify_v3.20.00.

Solution

1. Define Resource Type CPU and Memory capacities in the Resource Pool of the vCenter Provider.
2. Enable the Resource Pool for vCenter Provider.
3. Increase the Resource Type Available capacities for CPU and Memory in the resource pool of the vCenter provider.

vCenter compute subscriptions fail with Null pointer exception

Problem: vCenter compute subscriptions fail with Null pointer exception

Symptoms	VCENTER_COMPUTE_3.20 service design based subscriptions fail with Null pointer exceptions in csa.log.
Primary software component	VMware vCenter
Failure message	Input values are required. Null pointer exception
Probable cause	The process definition for vCenter flows is not updated with the new flow inputs.

Solution

Verify the following to resolve the issue:

1. Check the HP Operations Orchestration flow inputs with the Resource offering action inputs. If the inputs are different, then regenerate the HPOOInput.xml file from the process definition tool.
2. Rerun the process definition tool to add or update the existing definitions, with Update = true.

vCenter Customization Template Missing

Problem: vCenter customization template is missing on the vCenter server.

Symptoms	Simple Compute Linux Server deployment fails due to the missing customization template on the vCenter server.
Primary software component	VMware vCenter
Probable cause	vCenter server does not contain the specified customization template.

Solution

1. Verify the vCenter server configured on the HP Cloud Service Management Console contains the specified customization template name in the Service design.
2. If the template does not exist, create a customization template with the name on vCenter Server.
3. Request for new subscription.

vCenter provision server fails when cloned template specified is not present in the given Datacenter

Problem: vCenter provision server fails when cloned template specified is not present in the given Datacenter

Symptoms	vCenter Provision server fails because the cloned template specified is not present in the given Datacenter.
Primary software component	VMware vCenter
Failure message	exception=java.lang.IllegalArgumentException: VM specified as "NAME:Rhel53x64_SA913:CSAQAB" not found
Probable cause	Cloned template is missing in the given Datacenter of the vCenter provider.

Solution

Make cloned template available in the Datacenter of the vCenter provider.

vCenter subscription goes online without any servers created

Problem: vCenter Subscription goes online and active without creating any server components

Symptoms	vCenter subscription goes online and active without creating any servers.
Primary software component	VMware vCenter
Failure message	None.
Probable cause	When a vCenter subscription is created with serverCount as 0, the subscription goes online without creating a server component.

Solution

This behavior is expected if the serverCount is 0. ServerCount property defines the number of servers required in the subscription.

Modify the Service design property for the number of servers required and re-request the subscription.

When vCenter Add Server fails with timeout, Lifecycle Engine does not allow another lifecycle transition to begin

Problem: When vCenter Add Server fails with timeout, Lifecycle Engine does not allow another lifecycle transition to begin

Symptoms	When vCenter Add Server fails with timeout, Lifecycle Engine does not allow another lifecycle transition to begin.
Primary software component	VMware vCenter
Failure message	Lifecycle Engine is already executing.
Probable cause	Add Server action has failed, but it is still trying to clean up the resources from the failed action.

Solution

Follow one of these workarounds:

Wait for a few minutes before submitting the next request for modification.

OR

Increase the timeout for the vCenter flex-in Server/vCenter flex-out Server flows. The following steps explain how to make this change:

1. Open the HP Operations Orchestration studio.
2. Open the "vCenter Flex-in Server" subflow found under "/Library/CSA/3.2/Providers/vCenter/vCenter Flex Server Count/Subflows/".
3. Right click on the "Poll LCE" step and click on properties.
4. Change the value of the "waitCounter" input to 120 (double the timeout minutes of the undeploy flow).
5. Save the flow changes.

Follow the same steps for the "vCenter Flex-out Server" subflow found under "/Library/CSA/3.2/Providers/vCenter/vCenter Flex Server Count/Subflows/". Change the value of the "waitCounter" input to 120 (double the timeout minutes of the deploy flow).

HP ArcSight Logger

Artifact ID is not included in log files

Problem: `csa.log` or HP ArcSight Logger does not include information on the `artifactId`.

Symptom	<code>artifactId</code> details (for example, <code>artifactName</code>) for a subscription are not available in the log files.
Possible Cause	<code>loggerEnabled</code> is not set to true in <code>csa.properties</code> under <code>%CSA_HOME%\jboss-as-7.1.1.Final\standalone\deployments\csa.war\WEB-INF\classes</code> .

Solution

1. Set the `loggerEnabled` property to true in `csa.properties`.
2. Restart the HP CSA service.

Device entries are grayed out under HP ArcSight Logger summary tab.

Problem: Device entries are grayed out under HP ArcSight Logger summary tab.

Symptoms	Device entries are grayed out under HP ArcSight Logger Summary tab.
Primary software component	HP ArcSight Logger
Failure message	None
Probable cause	HP ArcSight Logger is missing hyperlinks for device entries.

Solution

Restart HP ArcSight Logger to get the hyperlinks for device entries in the **Summary** tab.

Integration with HP ArcSight fails after HP CSA upgrade

Problem: Integration with HP ArcSight fails after HP CSA upgrade

Symptoms	Integration with HP ArcSight fails after HP CSA upgrade
----------	---

Primary software component	HP ArcSight Logger
Failure message	<p>CSA Server log:</p> <pre>Tue, 27 Nov 2012 15:18:03,373 ERROR [stderr] (MSC service thread 1-3) log4j:ERROR Exception on host name [192.x.x.x]: [192.x.x.x Tue, 27 Nov 2012 15:18:12,700 ERROR [stderr] (MSC service thread 1-3) log4j:ERROR Exception on host name [192.x.x.x]: [192.x.x.x</pre>
Probable cause	During the upgrade, HP ArcSight properties get appended to the existing log4j.properties file.

Solution

After the upgrade, verify the %CSA_HOME%\jboss-as-7.1.1.Final\standalone\deployments\csa.war\WEB-INF\classes\log4j.properties file does not contain any duplicate entries. If you find duplicate entries, comment them out. For example:

```
#log4j.appender.cef1=com.hp.esp.arcsight.cef.appender.Log4jAppender
#log4j.appender.cef1.deviceVendor=HP
#log4j.appender.cef1.deviceProduct=HP Cloud Service Automation
#log4j.appender.cef1.deviceVersion=3.2
#log4j.appender.cef1.transportType=SYSLOG
#log4j.appender.cef1.hostName=192.x.x.x
#log4j.appender.cef1.port=515
#log4j.appender.cef1.layout=org.apache.log4j.PatternLayout
#log4j.appender.cef1.layout.ConversionPattern="%d{DATE}[%t] %-5p %x %C{1}:%m%n"
#log4j.appender.cef1.appender.threshold=off
```

Provider's IP address not added to HP ArcSight Logger portal

Problem: When integrating HP ArcSight Logger with HP CSA, the IP address of the provider is not added to the HP ArcSight Logger portal.

Symptoms	When integrating HP ArcSight Logger with HP CSA, the IP address of the provider is not added to the HP ArcSight Logger portal.
Primary software component	HP ArcSight Logger
Failure message	IP address (device entry) of the provider is not seen in HP ArcSight Logger portal.
Probable causes	<ul style="list-style-type: none"> log4j.appender.cef1.hostName file does not have the correct IP address of the HP ArcSight Logger server. log4j.properties file is saved as log4j.properties.txt. User might not have restarted the provider service after replacing the log4j.properties. No error log was generated in csa.log, and since default log level is ERROR in the log4j.properties, no log message was sent to HP ArcSight Logger for the device to be detected.

Solution

1. Add the IP address of the HP ArcSight server to the log4j.appender.cef1.hostName file.

2. Verify that UDP port configured in HP ArcSight is correct. **ArcSightLogger > Event input > UDP receiver port** should be the same as `CSA log4j.appender.cefl.port=<udp port>` in `log4j.properties`.
3. Save the file as `log4j.properties`. Note: do not save the file with the `.txt` extension.
4. Restart the provider services - HP CSA, HP MOE, HP SiteScope, UCMDB and HP OO.

HP Network Automation

Subscription fails while using service designs based on HP Network Automation

Problem: Subscription fails to get networking switch configuration details.

Symptoms	VLAN provisioning with networking switch using HP Network Automation fails with an error in HP OO reports (shown in failure message below).
Primary software component	HP Network Automation
Failure message	Failed to execute Get Configurations By IP operation.
Probable cause	Get Switch Configuration by IP operation of Get VLAN Details workflow cannot communicate with HP Network Automation.

Solution

In HP Network Automation server, restart the following services:

- TrueControl FTP Server
- TrueControl Management Engine
- TrueControl SWIM Server
- TrueControl Syslog Server
- TrueControl TFTP Server

OpenStack - HP Cloud Services (HP CS)

OpenStack - HP Cloud Services deployment failure

Problem: OpenStack-HP Cloud Service fails to deploy server instance.

Symptoms	Create server instance fails in HP Cloud Services environment.
Primary software component	OpenStack - HP Cloud Services
Failure message	HP Operations Orchestration (HP OO) Central Report shows failure for the flow Get Auth Token with exception: <pre>java.net.SocketException: Connection reset at java.net.SocketInputStream.read(Unknown Source) at org.apache.http.impl.io.AbstractSessionInputBuffer.fillBuffer (AbstractSessionInputBuffer.java:149)</pre>
Probable cause	The HP Cloud Services environment is not reachable from HP OO server.

Solution

In order to access the HP Cloud Services environment, port 35357 must be opened on the HP OO server.

OpenStack - HP Cloud Services fails to create instance

Problem: OpenStack - HP Cloud Services fails to create instance when subscribing using OpenStack_HPCS_Compute_v3.20.00

Symptoms	OpenStack - HP Cloud Operations Orchestration (HP OO) flow "HPCS OpenStack Create Instance" fails to execute for subscription using Openstack_HPCS_Compute_v3.20.00.
Primary software component	OpenStack - HP Cloud Services
Failure message	HP OO flow "HPCS Openstack Create Instance" fails to execute and in the flow there is a message "No match found for XPath query;returnResult=No match found for XPath query;returnCode=0;sessionId=iconclude-4316373317873968843"
Probable cause	<ol style="list-style-type: none">1. OpenStack - HP Cloud Services provider is configured with invalid access point URL.2. OpenStack - HP Cloud Services provider properties are case sensitive.3. tenantId value is incorrect.

Solution

1. The Provider Access point URL for OpenStack - HP Cloud Services should start with "https."
2. Properties defined for OpenStack - HP Cloud Services provider are case sensitive. Define property names as "tenantId", "proxyPort" and "proxyServer" instead of defining all property names in capital letters.
3. Verify correct tenantId value is entered in the tenantId property.

OpenStack - HP Cloud Services subscription fails

Problem: OpenStack - HP Cloud Services subscription fails.

Symptoms	OpenStack - HP Cloud Services subscription fails when invalid region, geography, or zone are selected on subscriber options.
Primary software component	OpenStack - HP Cloud Services

Failure message	<p>The HP Operations Orchestration (HP OO) Central report will have the following exception at step Get Auth Token:</p> <pre> com.iconclude.dharma.runengine.RunException: Result expression 'serverId' produced null value. at com.iconclude.dharma.runengine.impl.RunImpl.cycle (RunImpl.java:751) at com.iconclude.dharma.runengine.impl.RunImpl. access\$600(RunImpl.java:86) at com.iconclude.dharma.runengine.impl.RunImpl\$Cycle Task\$1.call(RunImpl.java:598) at com.iconclude.dharma.runengine.impl.RunImpl\$CycleTask\$1. call(RunImpl.java:596) at java.util.concurrent.FutureTask\$Sync.innerRun(Unknown Source) at java.util.concurrent.FutureTask.run(Unknown Source) at java.util.concurrent.ThreadPoolExecutor\$Worker.runTask (Unknown Source) at java.util.concurrent.ThreadPoolExecutor\$Worker.run (Unknown Source) at java.lang.Thread.run(Unknown Source) </pre>
Probable cause	Invalid subscriber option Region, Zone, or Geography selected for the subscription.

Solution

Verify that the HP Cloud Services user has permission to create a server instance with region, zone or geography subscriber option.

See the "Configuring HP Cloud Services and Openstack" section in the *HP Cloud Service Integration Pack* guide for more information.

HP Server Automation with HP Database and Middleware Automation

DMA Application deployment fails with WestHttpClientException

Problem: HP DMA Application deployment fails with WestHttpClientException

Symptoms	HP DMA Application deployment fails with WestHttpClientException.
Primary software component	HP DMA
Failure message	Exception in WestHttpClient: dma1010: Name or service not known 2013-06-18 09:52:24 - Error occurred during WEST execution in the DMA Console job history u Connect Errors
Probable cause	Target VMs are not able to reach the HP DMA server with the hostname or FQDN.

Solution

Add the host-name or FQDN of the HP DMA server to the `\etc\hosts` in VM-template and sanitize it.

Subscription using HP DMA JBoss application deployment fails

Problem: Subscription using HP DMA JBoss application deployment fails.

Symptoms	HP DMA workflow deployment on the server fails.
Primary software component	HP Server Automation
Failure message	None
Probable causes	<ul style="list-style-type: none">• The consumer user organization has not been created on HP DMA.• DMA resource offering properties are not populated appropriately.• The software packages required by the HP DMA workflow are not imported on the HP SA core.• The web user configured for the property <code>JBoss Validate Stand Alone Parameters.Web Service User</code> does not have sufficient privileges to run the HP DMA workflows.

Solution

1. Verify the properties of the DMA resource offering. `dmaWorkflowName` property should be populated with the name of the HP DMA workflow. Other properties on the DMA resource offerings (`dmaParam[1...n]`) should have the values as per the parameters defined in DMA workflow.
2. Verify that the software packages required by the HP DMA workflow are available on the HP SA core.
3. Verify that the consumer user organization has been created in HP DMA. If not, create an organization with the same name as the organization.
4. Verify the Web Service User configured has sufficient privileges to run the DMA workflows.

HP Server Automation with Software Policies

A request for a new subscription remains in Deploying state

Problem: A request for a new subscription remains in `Deploying` state.

Symptoms	A request for a new subscription remains in <code>Deploying</code> state for a long time before changing to <code>Failed</code> .
Primary software component	VMware vCenter
Failure message	During server provisioning, the HP OO workflow <code>Update SA Server Id on CSA</code> fails repeatedly at <code>Poll For Server VO</code> step.
Probable cause	The VM template was not sanitized with an HP SA agent.

Solution

Follow the steps to sanitize a VM template with an HP SA agent as described in the "Prepare a VMware Template to Self-Register with HP Serve Automation" section in the *HP Cloud Service Automation Installation Guide*.

Subscription fails while using service designs based on HP SA software policies

Problem: Subscription fails while using service designs based on HP SA software policies.

Symptoms	Subscription failure occurs while using service designs based on HP SA software policies.
Primary software component	HP Server Automation
Failure message	Open the HP OO Central report for workflow <code>Deploy Using Software Policies</code> and scroll to the step where subflow <code>Apply or Remove Software Policies to Server</code> is invoked. This subflow will indicate a failure at the step <code>Attach Software Policy</code> with the following message: <code>No software policy with name 'PHP' was found</code>
Probable cause	The software policy is missing in HP SA, or does not have the name as expected by the service design.

Solution

Verify that the software policy is in HP SA, and that the name of the software component defined in the service design and the name of the HP SA software policy are the same. Correct as needed.

HP Service Manager (HP SM)

HP CSA subscription request not triggered upon HP Service Manager change request ticket approval

Problem: HP CSA subscription request not triggered upon HP Service Manager (HP SM) change request ticket approval

Symptoms	HP CSA subscription request is not triggered even after an HP SM change request ticket approval using HP Service Manager, with an error message in the <code>debug_log</code> file (shown in failure message below).
Primary software component	HP Service Manager
Failure message	<code>ns1:Authentication Failure: User was not authenticated. Please see log file for details. Invalid username or password</code>
Probable cause	In the HP SM server, the script <code>OO_CSA</code> has invalid credentials or URL for the HP Operations Orchestration Central server.

Solution

In the HP Service Manager server, verify the correct HP OO central credentials by completing the following steps:

1. Log on to the HP Service Manager Windows client using the falcon account or another account with administrator privileges.
2. Navigate in the System Navigator to **Connection > Tailoring > Script Library**.
3. Type `OO_CSA` in the Name field and click Search. Now you should be able to view and edit the script.
4. Edit `OO_CSA` and verify that the script has valid credentials for the HP Operations Orchestration Central server.

- If the credentials are not valid, then modify the centralUser and centralPassword script variables with the correct credentials and click **Save**.
- Update the URL for the HP Operations Orchestration Central server. View the OO_CSA script and update the value for centralURL. Replace localhost with the hostname of the HP Operations Orchestration Central server, and click **Save**.

Service Manager Initiate Request Approval workflow execution fails

Problem: Subscription fails to get the correct HP Service Manager (HP SM) version or valid Initiator

Symptoms	SM Initiate Request Approval workflow execution using HP Service Manager fails with an error in the HP OO (9.x) reports (shown in failure message below).
Primary software component	HP Service Manager
Failure message	1. incorrect smversion. 2. Please provide a valid Initiator.
Probable cause	1. HP Service Manager Content Pack 7 is not installed in HP OO server. 2. HP CSA Consumer user is not created in HP SM.

Solution

- For failure message 1 In HP OO 9.x server:
Download and install OO_SM_Content_Pack_7_Installer.zip (HP Service Manager Content Pack 7).
- For failure message 2 In HP Service Manager:
Create a new power user with the same name created for the HP CSA Consumer user in Active Directory (consumer) by cloning an administrator account such as falcon. See the HP Service Manager documentation for instructions on how to create a new contact and its corresponding operator.

SOAPException during HP Service Manager change request ticket approval

Problem: HP Service Manager (HP SM) change request approval fails with a SOAPException

Symptoms	HP SM change request ticket approval using HP Service Manager Windows client fails with an exception in the HP SM client window (shown in failure message below).
Primary software component	HP Service Manager
Failure message	Error calling method: doSoapRequest in class:com/hp/ov/sm/server/utility/SoapClient Exception (com.sun.xml.messaging.saaj.SOAPEXceptionImpl: java.security.PrivilegedActionException: com.sun.xml.messaging.saaj.SOAPEXceptionImpl: Message send failed)
Probable cause	HP Operations Orchestration (HP OO) server IP address entry is missing in hosts file (located at C:\Windows\system32\drivers\etc) of the HP Service Manager Server.

Solution

In the HP Service Manager server, you must map opsware.com to the DNS name where the HP Operations Orchestration 9.x Central server is installed by following these steps:

1. Browse to C:\Windows\system32\drivers\etc\ and open the hosts file.
2. Add the following line to the file:
 <IP address of HP OO Central server> opsware.com
 For example: 192.168.50.50 opsware.com
 Where 192.168.50.50 is the IP address of the HP Operations Orchestration 9.x Central server.
3. Save and close the file.

HP Helion OpenStack®

Add Server to Server Group public action executed for HP Helion OpenStack based subscription fails

Problem: Cannot add more servers to the existing topology based subscription when max limit for the number of servers in server group is exceeded

Symptoms	"Add Server to Server Group" public action execution fails when user tries to add new server to the HP Helion OpenStack based subscription
Primary software component	HP CSA, HP Helion OpenStack
Failure message	Cannot add more servers since the max server is configured to be x. Cannot add more servers since the designer of the binding has configure a max limit for the number of servers in server group. Note: Here "Maximum Instances" property value of Server Group component is set to 5
Probable cause	In HP Helion OpenStack based topology service designer, the "Maximum Instances" property value of Server Group component is set to 5. When consumer tries to add the 6th server to the HP Helion OpenStack based subscription, the above stated failure message is observed.

Solution

In HP CSA, make the following changes:

1. In the Cloud Service Management console, increase the value of property "Maximum Instances" of the Server Group component in the HP Helion OpenStack based topology service designer (example : Set "Maximum Instances" property value to 10).
2. In the HP Market Place Portal, browse the Catalog and request a new subscription using the published HP Helion OpenStack based service offering.

The add new server public action will now be successful until it reaches the set value of "Maximum Instances."

HP Helion OpenStack based subscription fails with HTTP 500 Internal Server Error

Problem: HP Helion OpenStack based subscription or public action for a subscription fails for the HP Helion OpenStack Provider

Symptoms	HP Helion OpenStack based subscription or public action for a subscription fails for the HP Helion OpenStack Provider.
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Primary software component	HP CSA, HP Helion OpenStack
Failure message	10 Jan 2014 11:36:19,054 [pool-19-thread-2] ERROR PublicAction : Failed to get the connection from Helion OpenStack:Server returned HTTP response code: 500
Probable cause	There was a failure on HP Helion OpenStack.

Solution

Check the HP Helion OpenStack logs for further analysis.

Remove server public action executed for HP Helion OpenStack based subscription fails

Problem: Cannot remove servers from the existing topology based subscription when min limit for the number of servers in server group is exceeded

Symptoms	"Remove server" public action execution fails when user tries to remove a server from the HP Helion OpenStack based subscription.
Primary software component	HP CSA, HP Helion OpenStack
Failure message	Cannot remove servers since the min server is configured to be 1. Cannot remove servers since the designer of the binding has configured a min limit for the number of servers in server group.
Probable cause	In HP Helion OpenStack based topology service designer, the value of property "Minimum Instances" of the Server Group component is set to 1. When the user tries to remove the last server from the HP Helion OpenStack based subscription, the above stated failure message is observed.

Solution

This is the expected behavior in HP Helion OpenStack based subscriptions. A HP Helion OpenStack based subscription retains the number of servers equal to "Minimum Instances."

Note: "Minimum Instances" value should be set to 1 or more.

Amazon Web Services (AWS)

AWS subscriptions fail with error "Failed to open HTTP connection"

Problem: All AWS subscriptions fail with the error "Failed to open HTTP connection."

Symptoms	All AWS subscriptions fail with the message stated below.
Primary software component	Amazon Web Services
Failure message	"Failed to open HTTP connection" error message on the HP Operations Orchestration
Probable cause	The HP OO flow operation is not able to access the Internet.

Solution

1. Check that an Internet connection is available on the HP OO machine, and fix the issue if necessary.

2. If an Internet connection is available on the HP OO machine, check if HTTP proxy configuration is required to access the Internet. If it is, make sure that the HTTP proxy values for "CSA_Proxy_Host" and "CSA_Proxy_Port" are set on HP OO under "Content Management" -> "Configuration Items" -> "System Properties."
3. If HTTP proxy configuration is not required or is configured correctly, check if the AWS provider's "Service Access Point" parameter is configured correctly.
4. If the "Service Access Point" parameter is configured correctly, contact your HP support representative.

AWS subscriptions fail with error "AWS was not able to validate the provided access credentials. Error code: AuthFailure."

Problem: AWS subscriptions fail with the error "AWS was not able to validate the provided access credentials. Error code: AuthFailure."

Symptoms	All AWS subscriptions fail with the message stated below.
Primary software component	Amazon Web Services
Failure message	"AWS was not able to validate the provided access credentials. Error code: AuthFailure" message on the HP Operations Orchestration (HP OO) flow.
Probable cause	Invalid credentials.

Solution

Set the credentials correctly and try the operation again.

Failure to attach the network interface to the server

Problem: Failure to attach the network interface to the server.

Symptoms	In a topology design that has server and network interfaces connected to it, both the Server and Network Interface components get provisioned in AWS, but attaching of the network interface to the server fails.
Primary software component	Amazon Web Services
Failure message	"You may not attach a network interface to an instance if they are not in the same availability zone. Error code: InvalidParameterCombination"
Probable cause	The subnet id of the server and network interface are in different zones.

Solution

Make sure the subnet id of the server and network interface are in the same availability zone.

Unable to access the AWS instance using the public IP

Problem: An AWS instance cannot be reached using its public IP address.

Symptoms	An AWS instance is provisioned with a public IP address, however, it cannot be accessed via that address.
Primary software component	Amazon Web Services
Failure message	None.

Probable cause	Either the AWS server property "securityGroupIds" is not set, or the securityGroupIds that is set does not have a rule set up properly to allow network traffic to the server instance.
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Solution

Ensure that the correct security group ids are set in the AWS server in the design to enable access to the instance. For more details please refer to the following:

<http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/AccessingInstances.html>

Unable to provision the server due to difference between access point and zone specified in the design

Problem: You are unable to provision a server due to a difference between your access point and the zone specified in the design.

Symptoms	You are sometimes able to provision a given AWS server and sometimes the provisioning operation fails.
Primary software component	Amazon Web Services
Failure message	"An internal error has occurred. Error code: InternalError" message on the HP Operations Orchestration (HP OO) flow.
Probable cause	The AWS provider selected for deploying the design might have a mismatch between its zone and the design. For example, the provider might be configured for the "west" zone while the design has an availability zone set to "east."

Solution

If multiple AWS providers are configured in HP CSA, then make sure the correct provider instance is chosen for subscribing to a given subscription.

You can create different "Environments" for different AWS provider zones. Group the offerings based on the zone values configured in the design and add them to different catalogues, and add the catalogues to the appropriate environments.

When more than one Network Interface or Volume is connected to a single AWS server in the design, the subscription fails

Problem: When more than one Network Interface or Volume is connected to a single AWS server in a design, the subscription fails.

Symptoms	You are able to attach only one Network Interface or Volume to a server. A failure occurs if you attach a second Network Interface or Volume to the server.
Primary software component	Amazon Web Services
Failure message	Instance <id_of_network_interface_or_volume> already has an interface attached at device index '1'.
Probable cause	If the object causing the failure is a Network Interface, then the "deviceIndex" property value is not set. If the object causing the failure is a Volume, then the " deviceName " property value is not set.

Solution

In designs where more than one Network Interface or Volume is to be connected to a single AWS server, different values must be given to the property 'deviceIndex' for the Network Interfaces or 'deviceName' for the Volumes.

Don't see the public IP for AWS server instances

Problem: The public IP address for AWS server instances is not visible.

Symptoms	The public IP address property value of an AWS server, which had been present, has since disappeared.
Primary software component	Amazon Web Services
Failure message	None.
Probable cause	The server might have been stopped and restarted.

Solution

This is normal behavior for Amazon Web Services when the server is stopped and restarted. Refer to the Amazon user documentation for more information.

HP CSA on Linux Platform

ArcSight Logger integration fails after upgrade on Ubuntu

Problem: ArcSight Logger integration fails after upgrade on Ubuntu platform

Symptoms	HP CSA logs are not updated on ArcSight after an HP CSA upgrade from 3.20 to 4.0 on the Ubuntu platform.
Primary software component	HP Cloud Service Automation
Failure message	ArcSight integration fails. HP CSA logs are not updated on ArcSight Logger.
Probable cause	Log4j.properties related to ArcSight are overwritten during the upgrade.

Solution

1. Go to the `$CSA_HOME/_CSA_4_0_installation/backup/standalone/csa.war/WEB-INF/classes` directory.
2. Open the `log4j.properties` file.
3. Copy the ArcSight properties.
4. Paste them into the `$CSA_HOME/jboss-as-7.1.1.Final/standalone/csa.war/WEB-INF/classes/log4j.properties` file.

Cannot stop the CSA service

Problem: Cannot stop CSA Service using the CSA service script

Symptoms	CSA Service script completes successfully but the JBoss process is still running.
Primary software component	HP Cloud Service Automation

Failure message	No failure message. JBoss process is running.
Probable cause	JAVA_HOME should be excluded for env reset in sudoers.

Solution

1. Login as root.
2. Add the following to /etc/sudoers:

```
Defaults env_keep+="JAVA_HOME CSA_HOME"
```

CSA installation on Linux completes for wrong user input when configuring database component install options.

Problem: HP CSA installation on Linux completes successfully for the wrong user input when configuring the database component install options.

Symptoms	During the database component installation portion of the HP CSA installation procedure, if the user wants to install the database components but provides any input other than <code>yes</code> (such as <code>y</code> or some other input such as <code>abc</code>), the database tables will not be created on the remote database server. The installer will show the installation completed successfully anyway, however. The installer will create the database tables only if <code>yes</code> is specified during the installation.
Primary software component	HP CSA Installer
Failure message	None.
Probable cause	When any input other than <code>yes</code> is provided as input, the installer assumes that the option provided is <code>no</code> .

Solution

During HP CSA installation on a Linux platform, enter `yes` if you want to install the database components and create the database schema. Enter `no` if you do not want to install the database components. Do not provide any other input other than `yes` or `no`. For example, do not enter as `y` or `abc`.

CSA installer does not detect the existing HP CSA 3.2 installation

Problem: CSA installer does not detect the existing HP CSA 3.2 installation

Symptoms	When the HP CSA installer is started, it does not detect the existing HP CSA 3.2 installation and starts a fresh installation.
Primary software component	HP Cloud Service Automation
Failure message	No error message. Installer will continue with the HP CSA 4.0 fresh installation.
Probable cause	The <code>CSA_HOME</code> variable is not set.

Solution

Set the `CSA_HOME` variable before starting an upgrade. The installer will then display the following message:

HP CSA version 3.20 is installed in `$CSA_HOME`. This installation will be updated to 4.0.

Error when content-archive-tool runs against an unsupported version of HP CSA

Problem: Error when content-archive-tool runs against an unsupported version of HP CSA

Symptoms	Error running content-archive-tool. Content-archive-tool was run against an unsupported version of HP CSA.
Primary software	HP Cloud Service Automation
Failure message	Below failure is observed when running content-archive-tool to import a service design: Error running content-archive-tool. Content-archive-tool was run against an unsupported version of CSA.
Probable cause	Incorrect csa.war location inside \$CSA_HOME/Tools/Content Archive Tool/config.properties.oracle. csa_war.loc=C:Program Files Hewlett-Packard CSAjboss-as-7.1.1.Final standalone deployments csa.war

Solution

Edit config.properties.oracle and replace "C:Program Files Hewlett-Packard

CSAjboss-as-7.1.1.Final standalone deployments csa.war" with:

"csa_war.loc=/usr/local/hp/csa/jboss-as-7.1.1.Final/standalone/deployments/csa.war"

HP CSA service startup fails

Problem: csouser fails to start the HP CSA service

Symptoms	User fails to access the Cloud Service Management Console.
Primary software component	HP Cloud Service Automation
Failure message	No error message displayed, but after HP CSA startup, verify the csa running status by executing the command "service csa status" and you will see a message "CSA Service is not running."
Probable cause	Sudo permission is not granted to csouser.

Solution 1:

In the HP CSA server:

1. Login as root and edit the /etc/sudoers file. Add csouser to allow csouser to run the HP CSA service script (which starts, stops, restarts, and reports the status of HP CSA) and preserve the JAVA_HOME and CSA_HOME variables for the sudo session.
2. Add the following entries to /etc/sudoers:

```
csouser ALL=(ALL) NOPASSWD: /etc/init.d/csa,/bin/sh env_keep+="JAVA_HOME CSA_HOME"
```

Solution 2:

Manually start the service:

1. Make sure the CSA_HOME and JAVA_HOME variables are set.
2. Login as csouser.
3. Change the directory to \$CSA_HOME/jboss-as-7.1.1.Final/bin.

4. Execute the following script:

```
./standalone.sh
```

Image files are created under csa.war on RHEL platform

Problem: Image files are created under the csa.war directory on the RHEL platform

Symptoms	Image files are created directly under the csa.war directory. These files cannot be deleted.
Primary software component	HP Cloud Service Automation
Failure message	Cannot delete the image files.
Probable cause	Unknown.

Solution

These files can be ignored.

Marketplace Portal

After installing HP CSA in a Windows environment, users might not be able to access the Marketplace Portal.

Problem: After installing HP CSA in a Windows environment, users might not be able to access the Marketplace Portal.

Symptoms	After installing HP CSA in a Windows environment, users might not be able to access the Marketplace Portal. A blank page is displayed when accessing the Marketplace Portal at <a href="https://<Host>:<Marketplace Portal Port>/mpp">https://<Host>:<Marketplace Portal Port>/mpp .
Primary software component	Marketplace Portal
Failure message	A blank page is displayed when accessing the Marketplace Portal at <a href="https://<Host>:<Marketplace Portal Port>/mpp">https://<Host>:<Marketplace Portal Port>/mpp .
Probable cause	This issue happens intermittently. the script used for starting the Marketplace Portal service via the installer fails to start the Marketplace Portal service. As a result, the Marketplace Portal is not accessible.

Solution

Installing HP CSA in a Windows environment creates an HP Marketplace Portal service. If the Marketplace Portal is not accessible after installing HP CSA, users can verify if the HP Marketplace Portal service is running by navigating to **Control Panel > Administrative Tools > Services**. If the HP Marketplace Portal service is not running, users should start the service. If the HP Marketplace Portal service is running, users should restart the service.

Fresh Install - MPP Service Unavailable message displayed when connecting to MPP login page

Problem: MPP is not able to connect to HP CSA

Symptoms	The MPP service is not able to connect to the CSA service after an upgrade.
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Primary software component	Marketplace Portal
Failure message	MPP service unavailable
Probable cause	The MPP service is not able to communicate with HP CSA due to the unresolved FQDN of the HP CSA machine.

Solution

The MPP service is not able to connect to the CSA service due to an unresolved FQDN provided during installation. To verify this issue, the user needs ping the FQDN from the MPP machine and check the response. If the FQDN is not reachable from the MPP machine, then the FQDN entry needs to be added in the hosts file of the Windows or Linux system.

Restart the MPP service after adding the FQDN entry.

Web Browser Remembers Login Password

Problem: Internet Explorer, Chrome, and Firefox offer the ability to remember login credentials to the Marketplace Portal.

Symptoms	When logging in to the Marketplace Portal, your browser might prompt you to save the login credentials.
Primary software component	Marketplace Portal
Probable cause	Some major browsers have been designed to ignore the autocomplete=off attribute in web forms, offering users the ability to save passwords even when web developers wish to explicitly prohibit that ability.

Solution

If you do not wish to have your login credentials saved by the browser, indicate when prompted that you do not wish to have your login or password information saved (or remembered). You can often instruct the browser to not to prompt you in the future for the web site you are in.

It is often also possible to configure a given browser to not prompt you to remember passwords at all. This can often be configured either in the browser itself or via corporate IT policy. Refer to your browser documentation or contact your system administrator for more details.

Market Place Portal Power ON-OFF service actions comes back with Failed Services

Problem: Market Place Portal - Power ON-OFF service actions comes back with Failed Services.

Symptoms:	Market Place Portal - Power ON-OFF service actions comes back with Failed Services.
Primary software component:	HP CSA and HP MOE
Failure message:	Failed Services is seen for the MPP offering under my service details. HP CSA-operations page shows <i>Server Flow execution failed.</i> Under HP Operations Orchestration, reports <i>errorMsg=Could not sign in. Please verify user name and password.</i>
Probable cause:	HP MOE provider credentials changed under MOE CSA providers or HP MOE itself

Solution

To fix this issue:

1. Login to the HP CSA admin page.
2. Click the resources box.
3. Select the MOE provider, enable edit to change to the new password, and then check save.
4. Redo the power ON/OFF service actions to the Online instance on the MPP portal.
5. Verify the new changed state.

Upgrade - MPP Service Unavailable message displayed when connecting to Marketplace Portal login page after upgrade

Problem: Marketplace Portal (MPP) is not able to connect to HP CSA

Symptoms	Marketplace Portal service is not able to connect to the HP CSA service after an upgrade.
Primary software component	MPP
Failure message	MPP service unavailable. Also, see "MPP Log File Message" below.
Probable cause	MPP service is not able to communicate with HP CSA due to an expired SSL certificate.

MPP Log File Message

After an HP CSA upgrade, CSA service continues to use existing SSL certificate which was configured for the previous version. This certificate has expired and can no longer be used.

Following message appears in the mpp log file <CSA_HOME>\portal\logs\mpp.log

```
{"level": "error", "message": "Could not communicate with IDM server: Error: SSL Error: CERT_HAS_EXPIRED\n at Request.onResponse (C:\\Program Files\\Hewlett-Packard\\CSA\\portal\\node_modules\\mpp-server\\node_modules\\request\\index.js:665:24)\n at ClientRequest.g (events.js:175:14)\n at ClientRequest.EventEmitter.emit (events.js:95:17)\n at HTTPParser.parserOnIncomingClient [as onIncoming] (http.js:1689:21)\n at HTTPParser.parserOnHeadersComplete [as onHeadersComplete] (http.js:120:23)\n at ClearTextStream.socketOnData [as ondata] (http.js:1584:20)\n at ClearTextStream.read [as _read] (tls.js:508:12)\n at ClearTextStream.Readable.read (_stream_readable.js:320:10)\n at EncryptedStream.write [as _write] (tls.js:366:25)\n at doWrite (_stream_writable.js:221:10)", "timestamp": "2013-11-26T00:56:30.039Z"}
```

Solution

In this case, the user is responsible for replacing the old expired certificate with the new valid certificate. To resolve this issue, the user needs to follow the procedure entitled "Configure HP CSA to Use a Certificate Authority-Signed or Subordinate Certificate Authority-Signed Certificate" in Chapter 5 of the HP CSA Configuration Guide.

When a public action on an active subscription fails, user has no way of knowing the details of failure

Problem: When a public action on an active subscription fails, the user has no way of knowing the details of the failure.

Symptoms	When HP CSA is in unlicensed mode, the OSI count is 25, and an Add Server request is submitted on an active subscription, the Add Server request will be rejected.
Primary software component	HP CSA
Failure message	None
Probable cause	The request may have been rejected due to the OSI limitation of HP CSA in unlicensed mode.

Solution

The license limitation is expected behavior.

Topology Designs

Associating Floating IP is not working using Internal Network.

Problem: Associating a Floating IP is not working using an Internal Network.

Symptoms	Associating a Floating IP is not working using an Internal Network.
Primary software component	HP CSA with Helion OpenStack
Failure message	None.
Probable cause	A Floating IP will not be allocated for the deployed instances if the topology design is created by selecting YES to "Floating IP Address" for the relationship type between Server Group and Private Network Segment.

Solution 1

If you want to use a Floating IP address for external communication, the COS Design should have four components - Server Group, Network Segment, Router, and External Network Segment. During the selection, make sure you select Assign Floating IP=Yes on the link between the Server Group and Network Segment, which helps to associate the floating IP to the deployed instance.

Note 1: You should not select Assign Floating IP=Yes if you have only two components, Server Group and Network Segment, in the design, as this is an invalid design for using Floating IP.

Note 2: The Security Group should be set to allow ICMP ping requests (for example, port -1,-1 should be allowed (Ingress and Egress)).

Solution 2

In the case where the Floating IP is not assigned manually, trigger an 'Assign Floating IP' public action through the Marketplace Portal.

Cancel all fails for some topology design subscriptions

Problem: Cancel all fails for some topology design subscriptions.

Symptoms	When the user issues a cancel all subscriptions or cancels multiple subscriptions at same time, some subscriptions show a cancel failed status.
Primary software component	Service Subscription
Failure message	Cancel failed
Probable cause	Slow response time from Helion OpenStack.

Solution

Check if the subscription is cleaned up in Helion OpenStack, and then delete the subscription in HP CSA.

No IPs are listed when executing 'Assign Floating IP' public action using new Helion OpenStack setup

Problem: No IPs are listed when executing an "Assign Floating IP" public action using a new Helion OpenStack setup.

Symptoms	A Floating IP will not get listed in the "IP Address" drop-down (see Figure 1) when you try to use an "Assign Floating IP" public action using a new setup of Helion OpenStack.
Primary software component	HP Helion OpenStack
Failure message	The csa.log contains the following: 09 Jan 2014 11:23:42,800 [http--0.0.0.0-8444-12] ERRORResponseStatus : com.hp.ccue.http.exception.HttpInternalServerErrorException: Expanded url 'http://<IP>:21051/1/infrastructure_topology_list/46/realized_server_list/e9e0330a-9b71-4348-bc92-2bcdc22af5b6/ external_routable_ip_list? network_ref=\${network_ref}' contains not expanded placeholders '[network_ref]' (java.lang.IllegalStateException: Expanded url 'http://<IP>:21051/1/infrastructure_topology_list/46/realized_server_list/e9e0330a-9b71-4348-bc92-2bcdc22af5b6/ external_routable_ip_list?network_ref=\${network_ref}' contains not expanded placeholders '[network_ref]') 09 Jan 2014 11:23:42,802 [http--0.0.0.0-8444-12] ERRORResponseStatus : com.hp.ccue.http.exception.HttpInternalServerErrorException: Expanded url
Probable cause	The cause might be that Helion OpenStack could not get the floating IPs available from the Floating pool. You have to manually allocate the IPs on Helion OpenStack. Manual intervention on Helion OpenStack is needed before you trigger an 'Assign Floating IP' public action from HP CSA.

Solution

1. Select any Instance that is deployed on Helion OpenStack, and click on **More > Associate Floating IP > Select an IP Address**

The "IP Address" field will be blank in this case for the first time, displaying "No IP addresses available" as shown in Figure 1, below.

2. Click the **+** button and then **Select Pool > Allocate IP**.
The IP will be allocated in this case but NOT ASSOCIATED with the deployed instance.
3. Go back to HP CSA and trigger the 'Assign Floating IP' option again.
This time, the newly allocated IP on Helion OpenStack will appear in the drop-down.

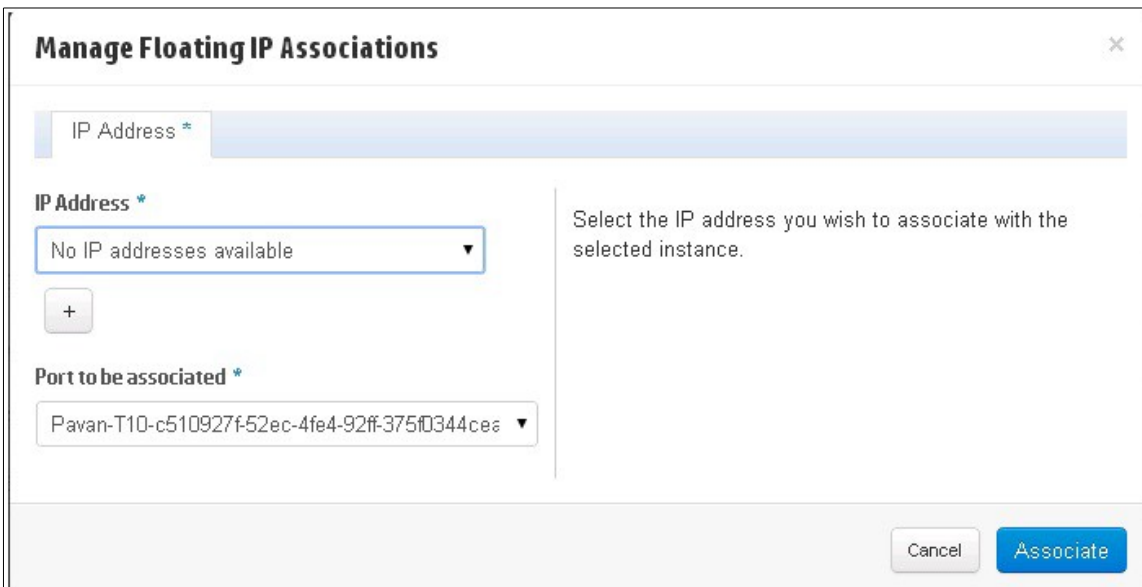


Figure 1

Cannot publish a topology design or execute a test run of a topology design

Problem: Cannot publish a topology design or execute a test run of a topology design.

Symptoms	A topology design containing vCenter, Amazon, or Chef components cannot be published.
Primary software component	Topology Design
Failure message	<ol style="list-style-type: none"> 1. "Parameter serviceUrl cannot be null or empty. Must provide a valid service url." 2. A message informing the user about a missing certificate.
Probable cause	<ol style="list-style-type: none"> 1. HP CSA is not configured with HP OO server information. 2. The HP OO certificate is missing.

Solution 1

1. On your HP CSA server, find the `csa.properties` file which is located in the "CSA_HOME\jboss-as-7.1.1.Final\standalone\deployments\csa.war\WEB-INF\classes" directory, and check if it contains the following properties:

```
OOS_URL=
OOS_USERNAME=
OOS_PASSWORD=
```

2. Specify correct values for the properties according to the HP OO server present in your environment.

Solution 2

Import the HP OO server certificate to the Java keystore used for HP CSA. For example, for embedded openjre java, change directories to "C:\Program Files\Hewlett-Packard\CSA\openjre\lib\security," and run the following command:

```
keytool -importcert -alias tomcat -file oo10.10-certificate.cer -keystore cacerts -storepass changeit
```

Provision fails with Amazon Server component

Problem: Provision fails with Amazon Server component.

Symptoms	A topology design containing an Amazon Server component fails to provision.
Primary software component	Topology Design
Failure message	The service instance status of the design is shown as "Failed."
Probable cause	Misconfiguration of the Amazon provider and/or the Amazon Server component in your design.

Solution

1. From The HP CSA Cloud Service Management Console, Click the **Providers** tile and check the configuration of the Amazon EC2 service provider. When saving the provider, there can't be any validation warning, for example, HP CSA must be able to communicate with the Amazon provider.
2. Check the values of parameters of the Amazon Server component in your design. Important properties to consider are "keyName," "amild," and "availabilityZone."

Cannot embrace Chef components

Problem: Chef components cannot be embraced (imported) into HP CSA.

Symptoms	Attempts to import Chef components fail with the error message below.
Primary software component	Topology Design component
Failure message	Requested resource not found on the server.
Probable cause	Misconfiguration of the Chef provider.

Solution

From The HP CSA Cloud Service Management Console, Click the **Providers** tile and check the configuration of the Chef provider.

Cannot provision vCenter Server component

Problem: Cannot provision vCenter server component.

Symptoms	A topology design containing a vCenter Server component fails to provision.
Primary software component	Topology Design component
Failure message	java.lang.RuntimeException: java.io.IOException: Server returned HTTP response code: 401 for URL: ...
Probable cause	Misconfiguration of the VMWare vCenter provider and/or the vCenter Server component in your design.

Solution

Ensure that you specified valid values for your VMWare vCenter provider. Ensure that your VMWare vCenter provider has a property called "DATACENTERNAME" with the correct value. Ensure that the vCenter Server component in your topology design contains correct values for the properties "vmTemplateReference" and "customizationSpec."

Licensing

Relevant message is not displayed to user when expired emergency license is re-installed

Problem: Relevant message is not displayed to the user when an expired emergency license is re-installed

Symptoms	Relevant message is not displayed to the user when an expired emergency license is re-installed.
Primary software component	HP CSA
Failure message	An error has occurred ; Licensing error.
Probable cause	This error will occur when an emergency license is re-installed after the expiry period of 15 days.

Solution

An emergency license has a validity of 15 days only. You must get a new license if you still need an emergency license after the expiry period.

User not able to install license on cluster mode

Problem: User is not able to install a license in cluster mode.

Symptoms	Adding a license fails with "Licensing error" in cluster mode.
Primary software component	HP CSA
Failure message	An error has occurred ; Licensing error.
Probable cause	The proxy_list attribute is missing a valid IP in domain.xml, or a generated license does not match the IP in the proxy_list attribute.

Solution

1. Check the cluster IP address set in the domain.xml file under the JBoss directory [Mod_cluster -->proxy_list]
2. If proxy_list is not set with the IP address, then licensing will fall back to "Unlicensing mode."
3. Add the valid cluster IP details in proxy_list, and get the license key from HP for the specified IP in proxy list.