



Troubleshooting Avaya Aura[®] System Manager

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Contents

Chapter 1: Overview	7
Chapter 2: Launching errors	9
System Manager Web Console fails to open.....	9
Proposed solution.....	9
Chapter 3: Alarm errors	11
Alarms fail to reach ADC through SAL Gateway.....	11
Proposed solution.....	11
System Manager generates hundreds of alarms.....	12
Proposed Solution.....	12
Chapter 4: System Platform errors	15
System Platform fails to detect the short hostname prior to template install.....	15
Proposed Solution.....	15
Chapter 5: Certification errors	17
System Manager does not support third-party certificates.....	17
Proposed solution.....	17
Chapter 6: Bulk import and export errors	19
Import utility fails to import the users of specific time zone.....	19
Proposed solution.....	19
Chapter 7: Miscellaneous errors	21
Authentication of the LDAP user to System Manager fails.....	21
Proposed solution.....	21
Chapter 8: Element Manager errors	23
Removed Communication Manager reappears on the System Manager Web Console.....	23
Proposed Solution.....	23
Deletion of Communication Manager from RTS fails.....	24
Proposed solution.....	25
Index	27

Chapter 1: Overview

The section provides detailed information to help you resolve issues with Avaya Aura® System Manager. The troubleshooting section is intended for those who use System Manager to maintain, manage, and service Avaya applications and systems.

Some of the Avaya adopting products that System Manager currently supports:

- Avaya Aura® Session Manager
- Avaya Aura® Presence Services
- Avaya Aura® Communication Manager
- Avaya B5800 Branch Gateway
- Avaya Aura® Call Center Elite
- Avaya Aura® Contact Center
- CS 1000

Chapter 2: Launching errors

System Manager Web Console fails to open

Symptoms that identify the issue	System Manager Web console fails to open and does not display any error.
Cause of the issue	If you log in to System Manager from the Web console when the CND service is not running, the login page fails to open and displays an error message.

Proposed solution

Procedure

1. To start the CND service, enter `service cnd start`.
2. To start the jboss service, enter `service jboss start`.

+ Tip:

If you run the `init 6` command, the system starts all services including CND.

Chapter 3: Alarm errors

Alarms fail to reach ADC through SAL Gateway

Symptoms that identify the issue	Alarms fail to reach ADC through SAL Gateway. However, events log in System Manager displays the generation of alarms.
Cause of the issue	When you configure System Manager as Managed Element for SAL Gateway, the system displays the following error message: Latest SAL model for System Manager is not pushed on this System Platform box, current model shows as SystemMgr_2.0.0.1 As a result, you fail to enable the Alarm option.

Related topics:

[Proposed solution](#) on page 11

Proposed solution

Procedure

1. Through the command prompt interface (CLI), log on to the Console Domain (C-dom) of System Platform.
2. At the command prompt, enter the following commands:
 - `cd /opt/avaya/SAL/gateway/upgradeScripts`
 - `/upgradeSALModels.sh`

The system populates the latest models. SAL Gateway automatically reflects the Solution Element Identifiers (SEID) attached to the latest model.

3. Configure System Manager as managed element for SAL Gateway. Alarms start flowing to ADC from System Manager.

System Manager generates hundreds of alarms

Symptoms that identify the issue

The sys_ConfRefreshConfig job fails with the following errors in the jboss server.log:

- A scheduled job failed to execute. Please see logs for more details.
- Illegal Argument Exception: Lookup is incorrect. Reason : javax.naming.NameNotFoundException: conferencing-ear-6.0.0.0.267 not bound

Cause of the issue

- Mismatch of version in the conferencing-ear file
- If any SSL negotiation error occurs, the system logs any further database queries in the postgres log files that causes the current issue.
- If the system is a 6.0.x upgraded setup, mismatch of JNDI name between the scheduler and Conferencing.

Related topics:

[Proposed Solution](#) on page 12

Proposed Solution

If you do not have the Conferencing solution deployed in your environment, disable the job to stop the logs or alarms.

About this task

Use this procedure to disable a scheduled job:

Procedure

1. Log on to the System Manager Web Console as a user that has privileges to make changes on the Scheduler Web page. For example, *admin*.
2. Click **Monitoring > Scheduler**.
3. Click **Pending Jobs** and look for *sys_ConfRefreshConfig*.
The system schedules the *sys_ConfRefreshConfig* job to run once per minute. If you do not find this job in the list of pending jobs, it means the job is disabled.
4. Check the status of the *sys_ConfRefreshConfig* job in the **Job Status** column. If the status is enabled, select the job and click **More Actions > Disable**.

The system disables the *sys_ConfRefreshConfig* job.

5. If you do not find the job on the Pending jobs page, click **Completed jobs** and search for the job. Verify if the job is in disabled state. If the job is still in enabled state, repeat Step 4.

You must disable any on-demand jobs created for *sys_ConfRefreshConfig* from both the pending jobs and the completed jobs list.

6. If the system does not open the Completed jobs page due to the stale entries:
 - a. To delete the entries, enter the following command on the avmgmt database:

```
DELETE FROM Sched_Job_Status jobStatus WHERE
jobStatus.status_Id NOT IN( SELECT status.status_Id FROM
Sched_Jobs jobs , Sched_Job_Status status WHERE
jobs.job_Id = status.job_Id AND status.end_Time_Stamp =
(SELECT MAX(st.end_Time_Stamp) FROM Sched_Job_Status st
WHERE st.exit_Status NOT IN (0,1) AND jobs.job_Id =
st.job_Id GROUP BY st.job_Id )) AND jobStatus.exit_Status
NOT IN (0,1)
```

- b. To verify the number of times the job gets executed, run the following query:

```
SELECT count(*) from sched_job_status;
```

Verify that the value of the count is less. The completed jobs displays the list of all jobs that includes *ConfRefreshConfig*. If the *ConfRefreshConfig* job is in disabled state, enable the job and allow the job to run twice.

The system stops the generation of alarms related to *ConfRefreshConfig*.

Related topics:

[System Manager generates hundreds of alarms](#) on page 12

Chapter 4: System Platform errors

System Platform fails to detect the short hostname prior to template install

Symptoms that identify the issue After the installation of the System Manager template from the System Platform Web Console, the template installation rolls back.

Cause of the issue In System Manager 6.1, you must enter only the FQDN as the hostname. However, you can still enter the short name in the hostname field. After you install the System Manager template using the System Platform Web Console, System Manager runs a post install script for validation. The script delays by 30 minutes or fails to recognize the shortname for the **Hostname** field. As a result, the template installation rolls back.

Related topics:

[Proposed Solution](#) on page 15

Proposed Solution

Procedure

1. Open the `SystemManager.ovf` file from the build location.
2. To detect the short hostnames prior to the System Manager template installation, add an XML attribute to the OVF templates in System Platform for template fields similar to the following:

```
<ovf:Property ovf:key="smgr.hostname" ovf:type="string"
  ovf:qualifiers="MinLen(1)"
  ovf:requirefqdn="true" or ovf:requireip="true" or generic
  ovf:default-value="" ovf:userConfigurable="true"
  attribute="----" >
<ovf:Description>Hostname: System Manager FQDN</ovf:Description>
</ovf:Property>
```

System Platform detects the use of shortnames in the fields before the System Manager post install script validates.

3. In the `SystemManager.ovf` file, change the checksum, sha1sum and update the `sha1sum_report.txt` file in the build location.

System Manager captures the new parameters and uses them in the post install script for validation.

Chapter 5: Certification errors

System Manager does not support third-party certificates

Symptoms that identify the issue System Manager does not support third-party trust certificates.

Related topics:

[Proposed solution](#) on page 17

Proposed solution

Before you begin

- Obtain the certificate that has the System Manager hostname as CN, and signed by the third-party Certificate Authority (CA).
- If required, store the third-party certificate and subordinate CA certificates in a PKCS#12 container with the corresponding private key.

About this task

To install and use the third-party certificate for System Manager Web interface, perform the following high level steps:

Procedure

1. Replace the System Manager Web server certificate with a third-party certificate.
2. Update the trust stores for internal services, clients, or managed elements with third-party root and subordinate CA certificate.

For more information, see *Application notes for supporting third-party certificate in Avaya Aura® System Manager 6.1* on the Avaya Support Site at <http://support.avaya.com>.

Chapter 6: Bulk import and export errors

Import utility fails to import the users of specific time zone

Symptoms that identify the issue Using the import utility, when you import the users with the (+01:00) Amsterdam, Berlin, Rome, Belgrade, Prague, Brussels, Sarajevo time zone, the system fails to import the user data.

Cause of the issue Bulk import feature does not take the timezone string that the User Management page displays. Also, the bulk import feature expects the timezone offset information to be present for the timezone attribute in import XML file.

Related topics:

[Proposed solution](#) on page 19

Proposed solution

The system does not display the timezone information of the user that you import on the User View profile page. Therefore, for each imported user, you must manually update the timezone information.

Before you begin

- Log on to the System Manager Web Console.
- Import the user data.

To import the user data, click **Users > User Management > Manage Users** and click **More Actions > Import Users**.

Procedure

To successfully import the users, perform one of the following procedures:

- Click **Users > User Management > Manage Users** and perform the following:
 - i. Select the user and click **View**.

- ii. On the User Profile View page, ensure that the timezone offset information in the **Time Zone** field. For example, (+01:00) Amsterdam, Berlin, Rome, Belgrade, Prague, Brussels, Sarajevo.
- For each user, in the import XML file, remove the timeZone attribute tag. For example, remove:

```
<timeZone>(+01:00) Amsterdam, Berlin, Rome, Belgrade, Prague, Brussels, Sarajevo</timeZone>
```

Chapter 7: Miscellaneous errors

Authentication of the LDAP user to System Manager fails

Symptoms that identify the issue

Authentication of the LDAP user to System Manager fails.

Cause of the issue

The customer LDAP has login names with DN in the format, cn=<loginname>,oc=<oc-value>,dc=<dc-value>,dc=<dc-value>. The login name does not have the domain information.

Related topics:

[Proposed solution](#) on page 21

Proposed solution

Using the Subject Mapping table, you can map an LDAP user to a System Manager user. Therefore, System Manager authenticates the LDAP username without @domain and then maps to the correct user in System Manager.

Before you begin

- Obtain the System Manager login name and the corresponding identities.
- Log on to System Manager.

Procedure

1. To map the users in the User Management and the LDAP, enter the user name in the **CSSecurityIdentity** table.
2. To populate the **CSSecurityIdentity** table, use the bulk import functionality as shown in the sample XML file.

```
<?xml version="1.0" encoding="UTF-8"?>
<delta:deltaUserList xmlns:delta="http://xml.avaya.com/schema/deltaImport" xmlns:tns="http://xml.avaya.com/schema/import"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://xml.avaya.com/schema/deltaImport
userdeltaimport.xsd ">
  <delta:userDelta>
    <loginName>janedoe@avaya.com</loginName>
```

Miscellaneous errors

```
<securityIdentity>  
  <identity>janedoe</identity>  
  <realm>admin</realm>  
  <type>principalname</type>  
</securityIdentity>  
</delta:userDelta>  
</delta:deltaUserList>
```

Chapter 8: Element Manager errors

Removed Communication Manager reappears on the System Manager Web Console

Symptoms that identify the issue Communication Manager that was removed earlier, reappears on the System Manager Web Console.

Cause of the issue In System Manager, the problem occurs when:

- Two Communication Manager systems with the same name exists.
- Out of the two Communication Manager systems, you manually add one system and the other system gets added from **Elements > Inventory > Inventory Management > Discovery**.
- You remove the two Communication Manager systems.

The system removes the entry of Communication Manager from **Elements > Inventory > Manage Elements**. However, System Manager still displays the two Communication Manager voice systems on the **Elements > Inventory > Synchronization > Communication System** page.

Related topics:

[Proposed Solution](#) on page 23

Proposed Solution

Assume the IPTCM database has two entries of Communication Manager systems with rtsappids 50 and 100. Use this procedure to remove the Communication Manager system with the rtsappid 100 and reinstate the entry of the legitimate Communication Manager with rtsappid 50.

Procedure

1. To set the rtsappid to null and the name to any arbitrary value for Communication Manager that has rtsappid 100, run the following query:

```
update ipt_cm set cmname='ABC',rtsappid= null where id = 100;
```

2. To modify the IP addresses in the **ipt_cm_conn** table, run the following query:

```
update ipt_cm_conn set ipaddress1='1.1.1.1' , ipaddress2='1.1.1.1' where id = 100;
```

3. To run the maintenance job for Communication Manager, on the System Manager Web Console, click **Services > Scheduler > Pending Jobs**.

The system removes the entry cm_id=100 from the tables **ipt_cm** and **ipt_cm_conn**.

4. To add the entry of the Communication Manager system again, from Runtime Topology System (RTS), provide the IP address and the name of the legitimate Communication Manager system.

*** Note:**

If the details you enter does not match with the legitimate Communication Manager, the system adds a new entry for the Communication Manager in the **ipt_cm** table.

5. To retrieve the ID of Communication Manager that you entered in step 4, from the **rts_applicationsystem** table, run the following query:

```
select id,name from rts_applicationsystem;
```

The Communication Manager ID is the rtsappid for the **ipt_cm** table.

6. To update the rtsappid in the **ipt_cm** table with the ID you retrieved from the previous step, run the following query:

```
update ipt_cm set rtsappid=? where id = 50;
```

Verify if the synchronization is working for Communication Manager.

The system modifies the rtsappid for Communication Manager.

Deletion of Communication Manager from RTS fails

Symptoms that identify the issue	Deletion of Communication Manager from Runtime Topology System (RTS) fails if the Communication Manager system is part of an Uniform Dialing Plan (UDP) Group.
Cause of the issue	When you attempt to delete Communication Manager from RTS, the system checks for the resource name UDP Group instead of

UDP_Group. If the system fails to find UDP_Group, Communication Manager does not get deleted from RTS.

Related topics:

[Proposed solution](#) on page 25

Proposed solution

Procedure

1. On System Manager Web Console, click **Elements > Inventory**.
2. In the left navigation pane, click **Manage Elements**.
3. To delete Communication Manager from RTS that is part of a UDP group:
 - a. Select the check box for the Communication Manager system that has the **Type** field set to `UDP_Group`.
You set the **Type** field to `UDP_Group` from **Users > Groups & Roles** on the Group management page.
 - b. Click **Delete**.

*** Note:**

Do not search for the GLS Group **UDP Group**.

Index

A

Alarms fail to reach ADC through SAL[11](#)
alarms fail to reach ADC through SAL Gateway[11](#)
Authentication of the LDAP user to System Manager fails
.....[21](#)

C

Communication Manager[23](#), [24](#)
reappears after its removal from as managed
element[23](#), [24](#)

D

delete Communication Manager from RTS that is part of
UDP[24](#), [25](#)

F

fails to detect the short hostname[15](#)

H

hundreds of alarms generated[12](#)

I

import utility fails to import the users of specific time zone
.....[19](#)

L

LDAP user authentication[21](#)

to System Manager fails[21](#)
legal notice[2](#)

P

proposed solution[9](#), [12](#), [15](#), [17](#), [19](#), [21](#), [24](#), [25](#)
unable to access the System manager Web console
.....[9](#)
proposed solution for LDAP user authentication failure [21](#)

R

Removed Communication Manager[23](#), [24](#)
reappears on the System Manager Web Console ...
[23](#), [24](#)

S

SAL Gateway[11](#)
alarms fail to reach ADC[11](#)
System Manager[7](#), [12](#), [17](#)
does not support third-party certificates[17](#)
generates hundreds of alarms[12](#)
System Manager does not support third-party certificates
.....[17](#)
System Manager fails to detect the short hostname [12](#), [15](#)
System Manager troubleshooting[7](#)
System Manager Web Console fails to open[9](#)

T

troubleshooting[7](#)

U

Unable to access System Manager Web Console[9](#)
Unable to access the System Manager Web console ...[9](#)
Unable to delete Communication Manager from RTS ...
[24](#), [25](#)

