

Avaya Session Border Controller for Enterprise 6.3 SP5 Release Notes

> Release 6.3 SP5 Issue 1 October 2015

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# **Overview**

This document provides information about the features/enhancements and fixes from prior releases included in ASBCE Release 6.3 SP5 (6.3.5) and instructions for upgrading from 6.3 GA, 6.3 SP1, 6.3 SP2 and 6.3 SP3 to 6.3 SP5.

# **Documentation**

Go to <u>support.avaya.com</u> to get the latest 6.3 "Avaya Session Border Controller for Enterprise" documentation.

Also visit <u>https://sales.avaya.com/en/pss/avaya-session-border-controller-for-enterprise?view=collateral</u> for more Avaya SBCE documentation

# **List of Issues Fixed**

| Key                | Summary  |
|--------------------|--|
| AURORA-2199        | TH does not handle Request-Line of SUBSCRIBE message causing SM to reply to external SBC IP  |
| AURORA-3050        | Lync IOT : [PstnEndPt]1 makes a secure call to [LyncEndPt] that forwards the call to<br>[PstnEndPt]2 with Media Bypass OFF                       |
| AURORA-3641        | Statistics not working getting " Can not populate error"   |
| <u>AURORA-6478</u> | SBC not able to register with the SIP trunk provider, when Service provider sends 401 Unauthorized response with \r\n in www-Authenticate Header |
| AURORA-6539        | user not able to edit the interfaces of SBC after upgrade from 6.3sp1 to 6.3sp2  |
| AURORA-6552        | GUI went blank after starting the rollback from 6.3sp3 to 6.3-4338 and Rollback failed from 6.3.5-02-7086 to 6.3 GA load                         |
| AURORA-6564        | Tomcat responds to PUT/DELETE methods under JspServlet   |
| AURORA-6743        | Active Call Stats say 0 call in summary never changes  |
| AURORA-6780        | [RHSA-2015:1482-01] Important: libuser security update   |
| AURORA-6781        | [RHSA-2015:1457-2] gnutls security and bug fix update  |
| AURORA-6866        | Audit log doesnt show changes made in database   |
| AURORA-6880        | SBC crash for MU test  |
| AURORA-6925        | SBC handled the 2nd ACK as the ACK message of re-invite and updated Cseq to 3 when the 2nd ACK is slower than shuffling Invite                   |
| AURORA-6942        | [RHSA-2015-1254] Update curl and libcurl RPMs  |
| AURORA-6943        | [RHSA-2015-1447] Update rhel package "grep"  |
| AURORA-6944        | [RHSA-2015-1447] Update "wireshark" RPM  |
| AURORA-6945        | [RHBA-2015-1614] Update "sudo" package on sbc  |

| AURORA-6946   | [RHSA-2015-1419] Update "libxml2", "libxml2-python" packages  |
|---|---|
| AURORA-6973   | [RHSA-2015-1459] Update ntp, ntpdate RPMs on SBC  |
| AURORA-6975   | [RHSA-2015:1699-01] Moderate: nss-softokn security update   |
| AURORA-6984   | [RHSA-2015-1705] Update bind-libs, bind-utils RPMs  |
| AURORA-6985   | [RHSA-2015-1694] Update gdk-pixbuf2 RPM   |
| AURORA-6986   | [RHSA-2015-1623] Update kernel, kernel-firmware RPMs  |
| AURORA-6988   | [RHSA-2015-1640] Update pam RPM   |
| AURORA-6989   | [RHSA-2015-1634] Update sqlite RPM  |
| AURORA-7013   | After EMS switchover, the data is lost in both primary and secondary EMS  |
| AURORA-7032   | Upgrade failed from SP3 to SP5  |
|   |   |
| AURORA-7037   | ASBCE 6.3.3: Not properly processing MIME contents  |
| AURORA-7037<br>AURORA-7084  | ASBCE 6.3.3: Not properly processing MIME contents<br>OAMPSERVER process core after reboot, due to reading some SNMP config file  |
| AURORA-7037<br>AURORA-7084<br>AURORA-7089   | ASBCE 6.3.3: Not properly processing MIME contents<br>OAMPSERVER process core after reboot, due to reading some SNMP config file<br>PCF ICMP Ratelimit Fix  |
| AURORA-7037<br>AURORA-7084<br>AURORA-7089<br>AURORA-7096  | ASBCE 6.3.3: Not properly processing MIME contents<br>OAMPSERVER process core after reboot, due to reading some SNMP config file<br>PCF ICMP Ratelimit Fix<br>No default value for "Record Routes" in Server Interworking profile   |
| AURORA-7037<br>AURORA-7084<br>AURORA-7089<br>AURORA-7096<br>AURORA-7097   | ASBCE 6.3.3: Not properly processing MIME contents<br>OAMPSERVER process core after reboot, due to reading some SNMP config file<br>PCF ICMP Ratelimit Fix<br>No default value for "Record Routes" in Server Interworking profile<br>Getting Noise then Call drop with AST2 transfer with DM on   |
| AURORA-7037<br>AURORA-7084<br>AURORA-7089<br>AURORA-7096<br>AURORA-7097<br>AURORA-7102  | ASBCE 6.3.3: Not properly processing MIME contents<br>OAMPSERVER process core after reboot, due to reading some SNMP config file<br>PCF ICMP Ratelimit Fix<br>No default value for "Record Routes" in Server Interworking profile<br>Getting Noise then Call drop with AST2 transfer with DM on<br>CLONE - SBC crash for MU test  |
| AURORA-7037<br>AURORA-7084<br>AURORA-7089<br>AURORA-7096<br>AURORA-7097<br>AURORA-7102<br>AURORA-7115                               | ASBCE 6.3.3: Not properly processing MIME contents<br>OAMPSERVER process core after reboot, due to reading some SNMP config file<br>PCF ICMP Ratelimit Fix<br>No default value for "Record Routes" in Server Interworking profile<br>Getting Noise then Call drop with AST2 transfer with DM on<br>CLONE - SBC crash for MU test<br>audit logs does not show addition and deletion of server-config   |
| AURORA-7037<br>AURORA-7084<br>AURORA-7089<br>AURORA-7096<br>AURORA-7097<br>AURORA-7102<br>AURORA-7115<br>AURORA-7132                | ASBCE 6.3.3: Not properly processing MIME contents<br>OAMPSERVER process core after reboot, due to reading some SNMP config file<br>PCF ICMP Ratelimit Fix<br>No default value for "Record Routes" in Server Interworking profile<br>Getting Noise then Call drop with AST2 transfer with DM on<br>CLONE - SBC crash for MU test<br>audit logs does not show addition and deletion of server-config<br>[ASBCE-Automation]DTMF INFO/NOTIFY not working in trunk interworking.                                  |
| AURORA-7037<br>AURORA-7084<br>AURORA-7089<br>AURORA-7096<br>AURORA-7097<br>AURORA-7102<br>AURORA-7115<br>AURORA-7132<br>AURORA-7148 | ASBCE 6.3.3: Not properly processing MIME contents<br>OAMPSERVER process core after reboot, due to reading some SNMP config file<br>PCF ICMP Ratelimit Fix<br>No default value for "Record Routes" in Server Interworking profile<br>Getting Noise then Call drop with AST2 transfer with DM on<br>CLONE - SBC crash for MU test<br>audit logs does not show addition and deletion of server-config<br>[ASBCE-Automation]DTMF INFO/NOTIFY not working in trunk interworking.<br>ASG lacfile permission change |

# List of Known Issues and Workarounds

Not able to add the '+' character in the registration string used for user ID (<u>AURORA-6463</u>): For fixing this issue, download patch sbc635-special\_server\_conf-20151027.tar using from PLDS and install on Avaya SBCE. Use the following details:

- Download ID: SBCE0000041
- md5sum: e3a068b95b818621ea5fb34d40af2b91

# **Installing the patch**

# Procedure

- 1. Create a temporary directory in /archive.
- 2. Untar the main <patch>.tar file in the temp directory.
- 3. Install the patch by typing ./sbce-patch.sh -i <patch-name>.tar.bz2
- 4. To verify the patch installation, use the **./sbce-patch.sh -l** command.

# Uninstalling the patch

# Procedure

- 2. Uninstall the patch by typing ./sbce-patch.sh -u <patch-name> Note: You can find the patch name by using the ./sbce-patch.sh -l command.

# **Deployment Instructions**

# Installation

# Hardware deployment

ASBCE Release 6.3 SP5 does not support direct installation using a DVD or a USB flash drive on any of the hardware supported for ASBCE. Instead the user must install ASBCE 6.3 software on the servers, and then proceed to upgrade it to 6.3 SP5.

## VMWare deployment

Unlike deployment on hardware, a user can deploy the OVA of ASBCE 6.3 SP5 on a VMware host. During deployment, the user can choose the correct profile (EMS, Small, Large). Refer Deployment Guide on Avaya Support Site.

# Upgrade

Upgrades are supported on both, Hardware deployment as well as VMware deployment.

Please make sure that the system being upgraded is at least on 6.3 GA before proceeding further.

Perform all upgrades during a maintenance window. If an upgrade is performed on a production system, it is quite likely that active/ongoing calls will be dropped.

For information about the latest Release 6.3 builds, see <u>http://support.avaya.com</u>.

**Note:** Before starting with the upgrade, ensure that Avaya SBCE servers in the deployment have unique hostnames. In case two or more servers have the same hostname, change the hostname. For more information, see *Troubleshooting and Maintaining Avaya Session Border Controller*. Also, please take a snapshot of the systems before proceeding with the upgrade.

In a multi-server deployment, the upgrade sequence is:

- 1. Secondary EMS Server
- 2. Primary EMS Server

3. Avaya SBCE Pair:

- a. Secondary Avaya SBCE
- b. Primary Avaya SBCE

You can check the upgrade status at /archive/log/icu/upgrade.log

Warning: You must install a new ASG file after upgrade.

# **Upgrading Primary EMS**

## Before you begin

Download the tar file from the PLDS website. The file should be named as sbce-6.3.5-xx-xxxx- <md5sum>.tar.gz.

## Procedure

Copy the upgrade tar file to the EMS server by using one of the following methods:

- The upgrade tar file is copied to the EMS by using the web interface.
- The upgrade tar file is manually copied to the EMS server using SFTP or SCP.

## **Upgrading EMS using a Web Browser**

## Before you begin

Download the upgrade package to a local or remote PC using Avaya Product Licensing and Delivery System (PLDS). The file should be named as sbce-6.3.5-xx-xxxx-<md5sum>.tar.gz.

## About this task

Uploading larger files using a browser can sometimes be unreliable, especially when using older browser versions such as Internet Explorer (IE7, IE8), or Firefox 3.x. Uploading large files through a browser might result in a failed upload or checksum error.

## Procedure

- 1. Log in to the EMS web interface with administrator credentials.
- 2. In the left navigation pane, click **System Management**.

The system displays the System Management screen.

- 3. Click the **Updates** tab.
- 4. In System Upgrade, click the Upgrade from uploaded file field
- 5. Select the **Browse** button and navigate to the folder containing the downloaded upgrade file.
- 6. Select the upgrade file.

## 7. Click Upgrade.

The system displays the Upgrade Confirmation screen.

## 8. Click Start Upgrade.

The system displays Upgrade Status screen with the upgrade log file in a viewable window.

After the upgrade is complete, the system displays the **Return to EMS** tab.

9. Click Return to EMS to log back in to EMS.

## **Uploading using SFTP or SCP**

## Before you begin

Download the tar file from the PLDS website. The file should be named as sbce-6.3.5-xx-xxxx- <md5sum>.tar.gz.

## Procedure

1. Log on to the EMS server as an ipcs user by using port 222.

2. Upload the upgrade tar file to the EMS server using SFTP or SCP.

3. Copy the file to /home/ipcs.

4. Log in with the root privileges and move the file from /home/ipcs to the EMS server

folder:/archive/urpackages.

# Note:

If the urpackages folder does not exist, create the urpackages folder in the exact path shown above and then proceed with Step 5.

5. On the command line, type md5sum to verify the integrity of the file. Ensure that results on the left match the string embedded within the file name.

6. Log on to the EMS web interface.

7. In the left navigation pane, click **System Management > Updates**.

The system displays the current EMS version and the available upgrade options.

8. In the Updates tab, in the **Upgrade from local file** field, select the upgrade file.

# 9. Click Upgrade.

The system displays the Upgrade Confirmation screen.

# 10. Click Start Upgrade.

The system displays a series of windows to indicate that the EMS software is upgrading.

When the upgrade is complete, the system displays the final window.

# 11. Click Return to EMS.

The system displays the System Management page.

# **Upgrading Secondary EMS**

# Before you begin

Download the tar file from the PLDS website. The file should be named sbce-6.3.5-xx-xxxx-<md5sum>.tar.gz.

## Procedure

1. Copy the tar file to the Secondary EMS server using ipcs user on port 222.

You can use SFTP or SCP tools to access the Secondary EMS server.

2. Connect to the system using VGA or Serial console.

3. Using root permissions, move the upgrade tar file from the ipcs user home directory to /archive directory.

4. Ensure that the md5sum of the upgrade tar file matches the checksum given in the name of the file.

You can use the **md5sum** command to verify whether the md5sum and the checksum match.

5. At the command prompt, type mkdir /archive/*temp\_upgrade*, where *temp\_upgrade* is the name of the temporary directory.

The system creates a temporary directory in the archive directory.

6. At the command prompt, type rm —rf /archive/temp\_upgrade/\*.

This command removes all content in the temporary directory.

7. At the command prompt, type tar xzf /archive/sbce-6.3.5-xx-xxxx-<md5sum>.tar.gz -C

/archive/temp\_upgrade, where xx-xxxx is the build number.

The system extracts the upgrade tar file in the temporary directory.

8. At the command prompt, type cd /archive/*temp\_upgrade*, where *temp\_upgrade* is the name of the temporary directory.

9. At the command prompt, type chmod +x ursbce.py.

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10. At the command prompt, type ./ursbce.py -U --daemonize.

This step reboots the system.

11. Wait for the system to reboot.

12. Type cat /etc/sbce-version and verify the version of the system.

The file /archive/log/icu/upgrade.log contains upgrade related logs.

# **Upgrading HA Pairs**

# Before you begin

Ensure that EMS servers are upgraded before upgrading HA pairs.

# About this task

With this procedure, you can upgrade Avaya SBCE devices that are in HA pairs. For more than one Avaya SBCE pair in HA, repeat the procedure for each HA pair.

# Procedure

1. In the Updates tab, click System Management and then click Upgrade.

The system displays the Upgrade Devices window.

2. Select the Secondary HA-SBC device check box.

Whenever you first upgrade the primary SBC, the secondary SBC takes over as the primary and then the existing primary becomes the secondary SBC.

## 3. Click Next.

The system displays a window that states that the Device is upgraded.

4. Click Finish.

The system displays the Upgrade Devices window.

5. Select the **Primary HA-SBC** check box.

6. Click Next.

The system displays the message that the Device is upgraded.

7. Click Finish.

After the EMS software has been upgraded, the system displays the following message for SBC boxes and HA pairs on the **Updates** tab:

One or more devices are in an orphan state. If you would like to upgrade these devices now, please click the Upgrade button below. You may also choose to rollback your EMS at this point.

HA system pairs and all other SBC systems must be upgraded before this message is resolved.

# **Upgrading Avaya SBCE Servers**

# Before you begin

Ensure that the EMS servers are upgraded before upgrading Avaya SBCE servers.

# About this task

This procedure upgrades Avaya SBCE servers that are not in an HA pair. When more than one Avaya SBCE server is available, repeat this step for each Avaya SBCE server.

## Procedure

1. In the left navigation pane, click **System Management > Upgrade**.

The system displays the Upgrade Devices message box.

2. Select the check box next to the devices that you want to upgrade.

The devices can be upgraded one at a time or as a group. If you select more than one device, the devices are put in a queue and upgraded one at a time.

3. Click Next.

The system displays a message box indicating that the device is upgraded.

4. Click Finish.

After the EMS software has been upgraded, the following message is displayed for SBC boxes and HA pairs on the Updates tab:

One or more devices are in an orphan state. If you would like to upgrade these devices now, please click the Upgrade button below.

You may also choose to rollback your EMS at this point.

HA system pairs and all other SBC servers must be upgraded before this message is resolved.

# **Rolling Back Using Web Interface**

## About this task

When you upgrade from a 6.3GA build to the next version of the 6.3 build i.e. a service pack, then the rollback option is available.

## Procedure

1. From the left navigation pane, click **System Management**.

The system displays the System Management screen.

2. Select the **Updates** tab.

The system displays the current EMS version and the available upgrade and rollback options.

3. Click Rollback.

The system displays the Rollback Status screen during rollback, and displays the **Return to EMS** tab after the upgrade is complete.

4. Click the **Return to EMS** tab to log back on to the EMS web interface.

5. Similarly perform Rollback on HA system pairs and all other Avaya SBCEs from the **Updates** tab. Otherwise, SBCE would go into Orphan state. For HA SBCE, roll back the secondary SBCE first, followed by the primary SBCE.