



# Avaya Session Border Controller for Enterprise 8.0 Release Notes

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## Overview

This document provides information about the new features/enhancements in ASBCE Release 8.0.0.0

## Documentation

No.	Title	Link
1	Avaya Session Border Controller for Enterprise Overview and Specification	<a href="https://downloads.avaya.com/css/P8/documents/101055494">https://downloads.avaya.com/css/P8/documents/101055494</a>
2	Deploying Avaya Session Border Controller for Enterprise	<a href="https://downloads.avaya.com/css/P8/documents/101055502">https://downloads.avaya.com/css/P8/documents/101055502</a>



3	Deploying Avaya Session Border Controller in Virtualized Environment	<a href="https://downloads.avaya.com/css/P8/documents/101055496">https://downloads.avaya.com/css/P8/documents/101055496</a>
4	Upgrading Avaya Session Border Controller for Enterprise	<a href="https://downloads.avaya.com/css/P8/documents/101055506">https://downloads.avaya.com/css/P8/documents/101055506</a>
5	Administering Avaya Session Border Controller for Enterprise	<a href="https://downloads.avaya.com/css/P8/documents/101055492">https://downloads.avaya.com/css/P8/documents/101055492</a>
6	Troubleshooting and Maintaining Avaya Session Border Controller for Enterprise	<a href="https://downloads.avaya.com/css/P8/documents/101055504">https://downloads.avaya.com/css/P8/documents/101055504</a>
7	Deploying Avaya Session Border Controller on AWS	<a href="https://downloads.avaya.com/css/P8/documents/101055500">https://downloads.avaya.com/css/P8/documents/101055500</a>
8	Working with Avaya Session Border Controller for Enterprise Multi-tenancy	<a href="https://downloads.avaya.com/css/P8/documents/101055577">https://downloads.avaya.com/css/P8/documents/101055577</a>
9	Working with Avaya Session Border Controller for Enterprise Geographic-redundant deployment	<a href="https://downloads.avaya.com/css/P8/documents/101055579">https://downloads.avaya.com/css/P8/documents/101055579</a>

## Build Download Location

File Name	PLDS ID	MD5SUM	Remarks
sbce-8.0.0.0-19-16991.ova	SBCE0000131	df9f8062ebd715da16e90671d956e0a1	OVA for fresh Installation on VMWare
sbce-8.0.0.0-19-16991.iso	SBCE0000130	5d5fa8a4f1255465889f1de99a97939b	ISO image for fresh install on hardware
sbce-8.0.0.0-19-16991.qcow2	SBCE0000132	99d55540bdcbbd0853e87fb23bcc1f5c	KVM image for fresh installation
sbce-8.0.0.0-19-16991-aws-004.ova	SBCE0000138	cb9f5d030edeb76c17b160e864512ffb	AWS OVA for fresh installation on AWS
sbce-8.0.0.0-19-16991-22670e1f3da5de373f3499cdc486adb7.tar.gz	SBCE0000134	22670e1f3da5de373f3499cdc486adb7	Upgrade package to upgrade to 8.0 release
sbce-8.0.0.0-19-16991-22670e1f3da5de373f3499cdc486adb7.tar.gz.asc	SBCE0000135	f8bea216935d84704614c9409b44f226	Signature file to be used to upgrade to 8.0 release
sbce-8.0.0.0-19-16991-signatures.tar.gz	SBCE0000136	17eda51fb0c1a3e5a3ff8d8be4528d36	Key Bundle to validate RPM signatures
sbce-8.0.0.0-19-16991_dd2d918aac49f8b5f88b021a3c19cd5f.img	SBCE0000133	dd2d918aac49f8b5f88b021a3c19cd5f	Image file for creating USB Installer for fresh install on hardware
sbce-8.0.0.0-19-16991_uberutility-6877de4dea78191f9fadb9ae824f041.tar.gz	SBCE0000136	6877de4dea78191f9fadb9ae824f041	Uber utility to be used to validate whether platform is supported for upgrade-restore and to take backup and restore when migration is done
AVAYA-SBCE-MIBP_v113.mib	SBCE0000128	87f633cc9ff0b5a268d0e059c370876c	MIB File for ASBCE8.0



## New Features and Enhancements

### SIP Resiliency

ASBCE 8.0 release supports SIP call Reconstruction, to ensure the signaling path and media stream(s) are restored in case of intermediate proxy failure (Session Manager) or network outage/interruption problems, with this ASBCE recover/reestablish an end-to-end SIP call that may have been broken.

### Extended Host Name Validation – SNI

Extended Host Name Validation (EHV) is validating the host name of the server against the subject or subjectAltName (SAN) field in the identity certificate presented by the server during TLS handshake. A client supporting EHV will include the server's name in the SNI extension of the request. The server, before presenting the certificate, will look for the optional SNI extension in the message. If present, the server will present the certificate matching the contents of the SNI field; otherwise, it will present the IP address-based certificate

### MAC-based LDAP authentication

ASBCE query LDAP server for authenticating the endpoints on receiving SIP REGISTER messages from the endpoints. ASBCE creates LDAP search filter based on the configured macAddress attribute and sends the search query to the LDAP server. ASBCE checks whether MAC address present in LDAP query response or not, if present ASBCE continues processing the SIP REGISTER message after successful authentication of the endpoint else drop the REGISTER message and raise incidence and syslog

### Simplified Backup/Restore

In 8.0 release ASBCE supports device specific backup/restore in addition to single operation backup/restore for complete system (EMS+SBC's). It will allow snapshot from one system to be restored on other system with similar configuration hardware/virtual resources.

Supports clone configuration independent of EMS. The configuration can be cloned for SBC where the build version, number of network interfaces same

### CLI based configuration

Starting from 8.0 release user can take a configurable snapshot from one of the pertinent master configuration and restore it on newly created instance via CLI commands. CLI commands will further allow customer to customize a subset of parameters.

### Simplified user interface

Starting from 8.0 release Configuration data will be segmented into device specific configuration. There will not be any global data on EMS specific to SBC's

### Simplified Certificate Management

While uploading third party certificate using EMS GUI, in addition to asking for the existing fields, we have a provision to mention passphrase used for the private key. After installing the certificate no need to run certsnc and certinstall commands manually

### Improved Multi-Tenancy

Starting from 8.0 release restart/reboot is not required when an IP address from Network Management is changed and when an existing tenant deleted or added



## ASBCE OVA profiles

In previous releases ASBCE supports four OVA profiles for deployment - EMS, small SBC, medium SBC and large SBC. In 8.0 we have EMS and SBC profiles only.

## LDAP based call routing

Starting from 8.0 release SBC will query the LDAP server for user data that the SBC uses to route incoming calls from a SIP trunk within enterprise network. When SBC receives incoming call (SIP INVITE) from a SIP Trunk, SBC initiates a LDAP query towards LDAP server based on LDAP configuration on SBC. On receiving the query response from LDAP server, SBC picks up appropriate next hop based on the configured routing profiles.

## Upgrade Procedure

Before starting the upgrade, we must run pre-upgrade-check on each setup, to check whether upgrade works fine or not in that setup/platform. If pre-upgrade-check is passed, we can start upgrading, otherwise we need to follow Migration procedure. Upgrade and Migration procedure can be found on "Upgrading Avaya Session Border Controller for Enterprise" document.

## Upgrade Supported Platforms

Below are the platforms which are supported for upgrading or Installing ASBCE 8.0 release.

1. Dell R320
2. Dell R330
3. Dell R620
4. Dell R630
5. HP DL360 G8
6. HP DL 360 G9
7. Portwell CAD-0230
8. VM 6.x
9. AWS
10. Nutanix

## Upgrade Not-Supported Platforms

Below are the platforms which are not supported for upgrading or Installing ASBCE 8.0 release.

1. CAD 0280
2. VMware 5.x

## Upgrade Path

An SBCE/EMS which is on a pre-7.2.2.0 version and not on 7.1 SP2, needs to first upgrade to 7.2.2.0 or 7.2.2.1 version and then upgrade to ASBCE 8.0 release.

## Supported Upgrade path

ASBCE 7.1 SP2 → ASBCE 8.0  
ASBCE 7.2.2.0 → ASBCE 8.0  
ASBCE 7.2.2.1 → ASBCE 8.0



## List of known issues with workarounds

S. No.	Issue Summary	Workaround
1	SBC on AWS: SBC does not allow configuring FQDN for NTP server.	Use IP address as NTP server instead of FQDN
2	EASG is not working after upgrading to 8.0 if EMS is in down state while SBC upgrading	EASG must be manually enabled if EMS is in down state while SBC is upgrading
3	After successful upgrade of EMS, GUI displays in text box "INVALID_SESSION"	Please ignore this GUI error.
4	After upgrading to 8.0 sometimes Transcoding doesn't work	Reboot the SBC to make this work
5	Upgrade Failure message doesn't display on GUI when it failed on Pre-upgrade check	Verify upgrade.log file and if upgrade is failed in pre-check, please proceed with Migration procedure

## List of fixed issues

Key	Summary
AURORA-14127	CFD: SBC is going for crash, when customer ran asci scripts to validate the health check on SBCE
AURORA-11978	CFD: RFC 4028 compliance- SBC not handling Invalid refresher parameter in Session Expires header - SBCE trying to change the refresher role from 'uac' to 'uas' in reINVITE and observed call transfer fail
AURORA-14857	ssyndi crashed on 7.1 Sp2 on blind transfer with 504 Server Time-out.
AURORA-14507	CFD: B2B SBC Setup: RW Equinox Client on IOS: user not able to logout when second user logged in when MDA configuration is set to 1
AURORA-14182	CFD: 7.2.2 GA Load: SBC Stopped processing calls and require a reboot for every three days. Max call legs 100000 reached, failed to create a new leg
AURORA-13216	CFD: VM SBC kernel panic and not able to boot
AURORA-13906	INVITE rejected if the server is not supporting the codecs and if ASBCE added with dummy sdp.
AURORA-12778	CFD: Restarting nginx-data Alarm after upgrade from 7.2 GA to 7.2.1 blocks WebRTC portal
AURORA-14479	AACC transferred Call to local agent, that call get dropped in about 8 min.
AURORA-14812	CFD: One-way Media observed for Half SRTP Early Media Call
AURORA-14803	Reinitiate the TCP connection towards Call Server if it is in stale state
AURORA-15006	CFD: SSYNDI process restarting with core dump for every 3 days on 7.2.2 GA
AURORA-15124	CFD: SSYNDI process keep restarting with core dump during call transfer
AURORA-15037	Multiple Ssyndi restart after installing the Cumulative patch on 7.2.2.1.





	SBC Failover due to missing contact header in 200OK (REGISTER)
AURORA-13421	
AURORA-15187	SBCE is crashing while parsing the SDP in re-invite
AURORA-14713	CFD: Avaya SBCE isn't responding to service provider PRACK messages resulting in intermittent call disconnects
AURORA-14341	CFD: If the ASBCE's *egress* Server Configuration uses a Server Interworking profile whose Min-SE timer is set to a value *greater* than the Min-SE CM/SM sends, the call fails.
AURORA-14744	CFD: Incoming call from Service Provider and SBC sends 503 service unavailable towards SP.
AURORA-14664	CFD: SBCE not sending register message to Service provider after upgrading to 7.2.2 GA load.
AURORA-14411	CFD: Inbound and outbound calls fail after 30 minutes
AURORA-15034	CFD: No ring back tone when call is transferred from AACC to transfer target
AURORA-15041	CFD: 302 Moved temporarily not handled properly when primary ASM is down
AURORA-14451	J179 phone do not automatically re-register when IPO reset through manager.
AURORA-14397	CFD: SBCE 7.2.2 security scan reporting TLS Server supports TLSv1.0 port 5432/TCP over SSL
AURORA-15020	On Avaya #130: SBC Turn component automatic restart/crash on a live system
AURORA-15024	OnAvaya #133: SBC Ssyndi process crashed/restarted
AURORA-13769	CFD: Need to elaborate the Refer handling feature on SBCE
AURORA-11889	upgrade failed on secondary SBCE from 6.3 Sp6 to 7.1 GA
AURORA-11769	"noSuchObject" displayed under SIP Summary (SIP Statistics)
AURORA-14149	ENUM call not working
AURORA-12841	SBCE keeps sending 491 Request Pending to re-invite.
AURORA-13624	SBC cannot block the OPTIONS using signaling Rule -> Request
AURORA-14886	oamp process keep on crashing, fill up the disk space, due to localhost missing in /etc/hosts
AURORA-13433	SBC sends 503 for REGISTER due to Dial plan URI match failed
AURORA-14369	DNS response (No such name) cause SBC crash
AURORA-13908	race condition SBCE transmitted BYE, even after getting 200 OK from SP
AURORA-12994	SNMP stops sending traps after "ipcs-init restart" with authNoPrev user.
AURORA-13684	CFD: Application relay stops working after failover of the SBCE.
AURORA-10419	CFD; SBC is exposing the internal IP in 200OK for OPTIONS
AURORA-14968	CFD: Audio is lost one-way after 10mins into the call following UPDATE and Re-INVITE from Provider.
AURORA-14767	CFD: Signaling rules for "Responses code" 2XX didn't work and when I've replaced them by 200 the rules were working.
AURORA-14672	CFD: SBCE unable to send to send CANCEL towards Transfer Target if Transferee disconnect the call



AURORA-15065	J179 phone in multi-tenancy get frozen after 2 min, due to re-register send out IP as domain
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## List of known issues

Key	Summary
AURORA-14833	CFD: SBCE is not passing the traffic after app restart/Reboot for some trunks to IPO.
AURORA-12867	Oamp service get restarted with core for snmp
AURORA-13610	interface naming logic problem in VM with vMotion enabled
AURORA-12758	CFD: ipv6 addresses are not working if management and data interfaces both are configured with dual_stack address
AURORA-11647	Device config pages shows error on GUI if cloning is failed.
AURORA-11137	Restrict database port 5432 access for only EMS and SBC
AURORA-14422	vi: "AMS Transcoding service is Unavailable" after HA pair went down
AURORA-15301	ssyndi memory continuously increasing for remote worker traffic on ACP5 Hardware