Oracle® Session Border Controller

Known Issues and Caveats

Release S-Cz9.0.0

F41628-11
December 2023

Oracle Session Border Controller Known Issues and Caveats, Release S-Cz9.0.0

F41628-11

Contents

About this Guide

The Oracle Session Border Controller (SBC) family of products are designed to increase security when deploying Voice over IP (VoIP) or Unified Communications (UC) solutions. Properly configured, Oracle's SBC family helps protect IT assets, safeguard confidential information, and mitigate risks—all while ensuring the high service levels which users expect from the corporate phone system and the public telephone network.

Documentation Set

The following table lists related documentation.

Document Name	Document Description
Acme Packet 3900 Hardware Installation Guide	Contains information about the components and installation of the Acme Packet 3900.
Acme Packet 4600 Hardware Installation Guide	Contains information about the components and installation of the Acme Packet 4600.
Acme Packet 4900 Hardware Installation Guide	Contains information about the components and installation of the Acme Packet 3950 and Acme Packet 4900.
Acme Packet 6100 Hardware Installation Guide	Contains information about the components and installation of the Acme Packet 6100.
Acme Packet 6300 Hardware Installation Guide	Contains information about the components and installation of the Acme Packet 6300.
Acme Packet 6350 Hardware Installation Guide	Contains information about the components and installation of the Acme Packet 6350.
Release Notes	Contains information about the current documentation set release, including new features and management changes.
Known Issues & Caveats	Contains known issues and caveats
Configuration Guide	Contains information about the administration and software configuration of the Service Provider Session Border Controller (SBC).
ACLI Reference Guide	Contains explanations of how to use the ACLI, as an alphabetical listings and descriptions of all ACLI commands and configuration parameters.
Maintenance and Troubleshooting Guide	Contains information about SBC logs, performance announcements, system management, inventory management, upgrades, working with configurations, and managing backups and archives.

Document Name	Document Description
MIB Guide	Contains information about Management Information Base (MIBs), Oracle Communication's enterprise MIBs, general trap information, including specific details about standard traps and enterprise traps, Simple Network Management Protocol (SNMP) GET query information (including standard and enterprise SNMP GET query names, object identifier names and numbers, and descriptions), examples of scalar and table objects.
Accounting Guide	Contains information about the SBC's accounting support, including details about RADIUS and Diameter accounting.
HDR Guide	Contains information about the SBC's Historical Data Recording (HDR) feature. This guide includes HDR configuration and system-wide statistical information.
Admin Security Guide	Contains information about the SBC's support for its Administrative Security license.
Security Guide	Contains information about security considerations and best practices from a network and application security perspective for the SBC family of products.
Platform Preparation and Installation Guide	Contains information about upgrading system images and any pre-boot system provisioning.
Call Traffic Monitoring Guide	Contains information about traffic monitoring and packet traces as collected on the system. This guide also includes WebGUI configuration used for the SIP Monitor and Trace application.
HMR Guide	Contains information about configuring and using Header Manipulation Rules to manage service traffic.
REST API	Contains information about the supported REST APIs and how to use the REST API interface.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Revision History

This section provides a revision history for this document.

Date	Revision
June 2021	• Initial release
December 2021	• Updates Resolved Known Issues table.
April 2022	• Updates for release S-Cz9.0.0p3. • Adds caveat on performing acquire-config • Adds caveat on conflicting local-policy settings • Removes KI on unsupported OVM platform • Adds a resolved known issue applicable for Scz9.0.0p2 and newer. • Adds KI about IPv4 and IPv6. • Removes H.323 signaling or H.323-SIP inter-working from Virtual Network Function (VNF) Limitations. • Adds KI about running SIPREC on the Acme Packet 4600. • Adds Acme Packet Platform Monitoring Caveats. • Adds a resolved KI related to local-port-match. • Adds IPSec trunking tunnel caveat.
July 2022	• Updates for release S-Cz9.0.0p4.
September 2022	• Updates for release S-Cz9.0.0p5. • Updates Known Issues and Resolved Known Issues tables. • Fixes typographical errors in Caveats topic.
November 2022	• Adds "VNF in HA Mode" caveat.
February 2023	• Re-adds H.323 in VNF limitations section. • Adds T.39 caveat.
May 2023	• Updates hide-egress-media-update known issue.
August 2023	• Updates for release S-Cz9.0.0p10. • Moves "Fax over IP on Acme Packet 3950/4900" caveat to fixed KI
December 2023	• Updates for release S-Cz9.0.0p12. • Adds Intel limitation for software transcoding. • Adds caveat about playback headers and hairpin calls.

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Known Issues and Caveats

The following topics list the known issues and caveats for this release. Oracle updates this document to distribute issue status changes. Check the latest revisions of this document to stay informed about these issues.

Known Issues

The following table lists the known issues in version S-Cz9.0.0. You can reference known issues by Service Request number and you can identify the issue, any workaround, when the issue was found, and when it was fixed using this table. Issues not carried forward in this table from previous Release Notes are not relevant to this release. You can review delivery information, including defect fixes in the S-Cz9.0.0 Build Notes.

ID	Description	Severity	Found In
35649015	When Teams places a call on hold, SBC is not generating an RTCP, causing Teams endpoint to drop the call after 3 minutes.	3	S-Cz9.2.0p2
33600407	When IPv4 and IPv6 addresses are added consecutively on the hip-ip-list and icmp-address of same network-interface, followed by save/activate, the configuration change is eventually activated but the SBC will get into unsteady state, followed by below events on the console: unregister_netdevice: waiting for <interface:id> to become free.Usage count = 1 Workaround: Add IPv4 and IPv6 address on the hip-ip-list and icmp-address separately and activate them individually i.e. activate the first config change/addition and then add and activate the second config change.	2	S-Cz8.4.0

ID	Description	Severity	Found In
33190562	On the AP3950 and AP4900, in < 0.1% of reboots, the platform gets stuck and does not reach the ACLI prompt. Workaround: perform a power cycle to successfully reboot the system.	2	S-Cz9.0.0p1
33059603	On the AP3900, AP3950, and AP4900, when performing quickly successive switchovers, an active system system may not synchronize and go OOS after a failover. Workaround: Set the gateway heartbeat interval timeout value to 10 seconds with 3 gateway heartbeat retries.	3	S-Cz9.0.0p1
32742216	The Acme Packet 1100, 3900 and 4600 as well as all software-only deployments do not support any Media Policing configuration.	3	S-Cz8.4.0
32077115	For Hairpin/Spiral call scenarios, the hide-egress-media-update parameter under media-sec-policy is not supported. In addition, you must reboot the SBC when you change the hide-egress-media-update parameter under the media-sec-policy, inbound subelement. This parameter is not RTC supported. Oracle recommends you use the hide-egress-media-update parameter under the realm-config only.	3	S-Cz9.0.0

ID	Description	Severity	Found In
32565921	The acquire-config process fails if your configuration includes an acp-tls-profile. The system does, however, successfully synch this profile after HA is established. Workaround: Disable your acp-tls-profile on the active system before performing an aquire-config procedure. Re-enable this profile after aquire-config completes successfully.	3	S-Cz9.0.0
None	This version's enhancement to SMP-Aware Task Load Limiting, which adds a second parameter to the sip-config load-limit option, is currently not supported.	N/A	S-Cz7.4.0
None	Re-balancing is unavailable on the OCSLB when running an Acme Packet 6300 as a cluster member. Set the SLB **cluster-config**, **auto-rebalance** parameter to **disabled** to use an Acme Packet 6300 as a cluster member from that SLB.	N/A	S-Cz730
None	The system does not support SIP-H323 hairpin calls with DTMF tone indication interworking.	N/A	S-CZ720

ID	Description	Severity	Found In
None	The SBC stops responding when you configure an H323 stack supporting SIP-H323-SIP calls with the **max-calls** parameter set to a value that is less than the **q931-max-calls** parameter. Workaround: For applicable environments, configure the H323 stack **max-calls** parameter to a value that is greater than its **q931-max-calls** parameter.	N/A	S-CZ7.4.0
None	The system does not support HA Redundancy for H.323 calls.	N/A	N/A
27699451	Oracle qualified the QSFP interface for the OCSR operating over the Oracle X7-2 platform for a single QSFP port operating in 4-port mode. Specifically, 4 media interfaces successfully map to the second port of the QSFP interface using a Hydra cable as physical connections to 10G switch ports.	3	S-Cz8.1.0
26316821	When configured with the 10 second QoS update mechanism for OCOM, the SBC presents the same codec on both sides of a transcoding call in the monitoring packets. You can determine the correct codecs from the SDP in the SIP Invite and 200 OK.	3	S-Cz8.0.0p1
	The SBC dead peer detection does not work with IKEv1.	3	S-Cz8.4.0

ID	Description	Severity	Found In
28539190	When operating as a VNF and using Mellanox interface cards, the OCSBC does not use the Host In Path (HIP) configuration to restrict management traffic, Instead the system allows any traffic over the interface.	3	S-Cz8.2.0
28617865	This version of the OCSBC is not supported as a VNF over VMware using Mellanox interface cards.	3	S-Cz8.2.0
29170419	In long call scenarios, the SBC is not sending the expected refresh before the Session-Expires: header value time is up for SUBSCRIBE messages.	2	S-Cz8.2.0
30643522	Starting with S-Cz8.3.0m1p2, Lawful Intercept users cannot modify LI configuration with the Session Delivery Manager. Workaround: LI Configuration must be performed through the ACLI.	4	S-Cz8.3.0m1p2

Resolved Known Issues

The following table provides a list of previous Known Issues that are now resolved.

ID	Description	Severity	Found In	Fixed In
35614646	Certain RFC2833/ telephone-event sequences generated by customer endpoints may not be properly detected, reported, or re-transmitted by the SBC, resulting in missing DTMF digit(s).	2	S-Cz9.0.0p10	S-Cz9.0.0p12

ID	Description	Severity	Found In	Fixed In
32709550	When operating over the Azure platform, the SBC displays an inordinate number of kernel messages during the bootup process. You can safely ignore these messages.	3	S-Cz9.0.0	S-Cz9.0.0
26323802	The 10s QoS interim feature includes the wrong source IP address as the incoming side of a call flow. The issue does not prevent successful call and QoS monitoring. For monitoring and debugging purposes, you can find the source IP in the SIP messages (INVITE/200OK).	3	S-Cz8.0.0p1	S-Cz9.0.0p5
26497348	When operating in HA mode, the SBC may display extraneous "Contact ID" output from the **show sipd endpoint-ip** command. You can safely ignore this output.	3	S-Cz8.0.0	S-Cz9.0.0p5
28658810	When operating as a VNF and using Mellanox interface cards, the OCSBC does not support any other type of card for media interfaces. (If any media interface uses a Mellanox card, all media interfaces must use a Mellanox card.)	3	S-Cz8.2.0	S-Cz9.1.0

ID	Description	Severity	Found In	Fixed In
34022202	It is possible that the system (active or standby) can experience cores reaching 100% CPU utilization when running periodic scripts which connect/ disconnect via SSH to the SBC. This is observed in the display-alarm output. Workaround: • Do not run two scripts from two different users simultaneously . • Do not run the save/activate on the ACLI when period script is running on the system. • Do not exit from the SSH session when save/activate is being run on another session. • Do not exit from the SSH session on the standby when save/activate is being run on the active. If the issue is encountered on an active system: 1. Execute forced switch-over. 2. Reboot the new standby. If the issue is encountered on the standbysystem: 1. Reboot the standby.	2	S-Cz9.0.0p3	S-Cz9.0.0p4

ID	Description	Severity	Found In	Fixed In
33434641	If local-port-match value is set under security-policy, and local-port-match-max is not set, then SBC processes traffic considering full port range. SBC considers the default value of local-port-match-max (i.e. 65535) and applies the specific action mentioned under security-policy to full port range. Configure the local-port-match-max or remote-port-match-max value to set a new port range or set same value for local-port-match and remote-port-match-max to configure a single port.	2	S-Cz8.4.0p4	S-Cz8.4.0p9
32181987	Do not copy/paste characters into a configuration menu and attempt to edit the copied text. This applies to both console and SSH sessions. Workaround: Edit the data before copy/paste.	3	S-Cz8.4.0	S-Cz9.0.0p3

ID	Description	Severity	Found In	Fixed In
33454565	The AWS SPL NAT does not function with Scz9.0.0p1, hence you need to load all SPL files by default but not activate them using the spl-autoload-for-sbc option at global spl-config level. You can also activate a specific SPL. There can be issues if you select multiple preloaded SPLs or enable the spl-autoload-for-sbc option with a bulky configuration. With Scz9.0.0p2 and newer, you need not configure these options.	3	S-Cz9.0.0p1	S-Cz9.0.0p2
32535426	The show temperature output will display different values compared to releases older than S-Cz8.3.0. Starting with S-Cz8.3.0, the temperature queries via ACLI and SNMP are reporting more accurate values. • Similar components may not correspond between different platforms due to physical differences in each system.	3	S-Cz8.1.0	S-Cz8.3.0

ID	Description	Severity	Found In	Fixed In
33059603	On the AP3900, AP3950, and AP4900, when performing quickly successive switchovers, an active system system may not synchronize and go OOS after a failover. Workaround: Set the gateway heartbeat interval timeout value to 10 seconds with 3 gateway heartbeat retries.	3	S-Cz9.0.0p1	S-Cz9.0.0p2
ACMECSBC-35051	The SBC does not support HA replication of a Wildcard PAU.	3	S-Cz9.0.0	S-Cz9.0.0p1

ID	Description	Severity	Found In	Fixed In
32939208	You cannot set the SBC **ikev2-ipsec-wancom0-params** parameters using SDM due to issues with the configuration of the **rekeyfuzz** and **localip** parameters. Note these parameters have defaults or "0" and "empty" respectively. You can, however, configure these values from the SBC . You cannot set the OCSBC ikev2-ipsec-wancom0-params via SDM due to issues in configuration of parameters rekeyfuzz and localip, which have defaults or "0" and "empty" respectively, using OCSDM. Furthermore, if you change the values for **rekeyfuzz** and **localip**, you cannot change them back to their defaults. Workaround for changing these parameters' values back to their defaults: 1. remove the **ikev2-ipsec-wancom0-params** element from your configuration. 2. Add the element again and set your values.	3	S-Cz9.0.0	S-Cz9.0.0p1

ID	Description	Severity	Found In	Fixed In
24574252	The **show interfaces brief** command incorrectly shows **pri-util-addr** information in its output.	3	S-Cz7.4.0	S-Cz9.0.0
ACMECSBC-38270	Do not configure STIR over TLS. This configuration causes the system to crash.	3	S-Cz9.0.0	S-Cz9.0.0p1
32939113	Do not configure the **auth-user-lookup** parameter within the **local-policy**, **policy-attribute** without already having: • A configured **sip-interface** or, • If that **sip-interface** does not point to a configured **realm** If either of these conditions are true, the SBC crashes when you perform a **save-config** or a **verify-config**. Workaround: Configure the applicable **sip-interface** and associated realms before you configure the **local-policy**, **policy-attribute**, **auth-user-lookup** parameter.	3	S-Cz9.0.0	S-Cz9.0.0p1
29439964	ACLI Users will receive an error on the output of the show registration sipd by-user command.	4	S-Cz8.2.0	S-Cz8.4.0

ID	Description	Severity	Found In	Fixed In
32534935	Media is not resumed after RBT playback for transcoded calls on vSBC. Avoid upgrading to releases where this bug is open if your deployment uses a vSBC with Transcoding and is configured to use Ringback-Trigger values.	3	S-Cz8.4.0M0P4	S-Cz9.0.0
31163030	In VOLTE deployments with registration refreshes, you may see unusually large numbers in the **alloc** and **usage** count fields while executing the **show buffers** command. This is a known statistics accounting issue.	4	S-Cz8.3.0	S-Cz9.0.0

ID	Description	Severity	Found In	Fixed In
31315823	When running IMS-AKA over UDP on virtual SBCs, IMS-AKA registrations may not succeed. Registration failure can also cause associated calls to fail. Oracle has observed this only happens after a system reboot. Oracle has also observed that performing a Save and Activate command sequence after a reboot ensures these registrations are successful. If you are running IMS-AKA over UDP on virtual SBCs, perform a Save and Activate command sequence after system reboot to ensure successful IMS-AKA registrations.	3	S-Cz8.4.0	S-Cz9.0.0
31828563	While using STIR/SHAKEN, Acme Packet 4600 performance is capped at 330 CPS, and Acme Packet 6350 performance is capped at 1200 CPS for both dual and quad NIU cards.	3	S-Cz8.4.0M0P2	S-Cz9.0.0

ID	Description	Severity	Found In	Fixed In
	Do not upgrade to S-Cz9.0.0 directly from S-Cz8.4.0p4, S-Cz8.4.0p5 or any S-Cz8.4.0p5 OOC patches up to S-Cz8.4.0p5B. If running these versions, upgrade to S-Cz8.4.0p5C before upgrading to S-Cz9.0.0. Upgrading directly from these versions may cause the system to crash. When upgrading from these versions, upgrade to S-Cz8.4.0p5C first.	3	S-Cz8.4.0M0P4	S-Cz8.4.0M0P5
29881449	The DSP used by the OCSBC has a vendor firmware defect that causes failures with the T.38 codec. If you are using the T.38 codec, you may experience minimal media losses on those calls. This problem may also cause the OCSBC to reboot.	3	S-Cz8.1.0m1p9	S-Cz8.4.0p4
32517222	Media is not resumed after RBT playback for transcoded calls on vSBC. Avoid upgrading to releases where this bug is open if your deployment uses a vSBC with Transcoding and is configured to use Ringback-Trigger values.	3	S-Cz8.4.0M0P4	S-Cz8.4.0P4A

ID	Description	Severity	Found In	Fixed In
	Please see the section on Upgrades For Configurations that Include Signaled IPSec Tunnels and LI Configurations in Upgrade Downgrade Caveats in this document for an explanation of this issue.	3	S-Cz8.4.0	S-Cz9.0.0
32243204	STIR/SHAKEN entitlement is not available when system is set up as a Peering Session Border Controller product.	2	S-Cz8.4.0p2	S-Cz8.4.0p4
32056356	While performing VoLTE Accounting on a 3G-to-4G MT call, the SBC incorrectly populates VSA ID 69 with the P-Asserted-Identity (PAI) retrieved from the response. This identifies the called side. Within the context of a mobile terminating call, the SBC should be identifying the caller, populating this VSA with the PAI retrieved from the INVITE. Workaround—You can correct this by setting the **unidirectional-p-asserted-id** option in the applicable **account-config** to **yes**.	2	S-Cz8.4.0	S-Cz8.4.0p4

ID	Description	Severity	Found In	Fixed In
31812964 31926021 31918592	The SBC incorrectly exhibits the following 3 incorrect behaviors with the PCRF during Register and Message call flows: 1. The SBC sends an STR to the PCRF in response to a de-register even though PCRF does not consider the session established, having sent an AAA with a 3xxx. 4xxx or 5xxx error in response to the corresponding Register. 2. The SBC keeps the hold timer active and holds an SMS message even though the PCRF has sent an ASR telling the SBC to abort the diameter session. 3. The SBC does not send an STR to the PCRF during Register flows that fail because of an error from the core, even though the Diameter session between the SBC and PCRF was established.	3	S-Cz8.4.0	S-Cz8.4.0p4

ID	Description	Severity	Found In	Fixed In
	Workaround—You can correct this by setting the **diam-rx-strict-compliance** option to the applicable **ext-policy-server** to **enabled**. When you set this option, you can correct the three issues above so that the SBC performs the following: 1. For Register flows that do not establish a diameter session with the PCRF due to a 3xxx. 4xxx or 5xxx error from the PCRF, the SBC does not send an STR to tear down the session when it receives a De-Register. 2. For Message flows, when the SBC receives an ASR from PCRF, it stops the hold timer, forwards the MESSAGE to the core, and sends an ASA with success. 3. For unsuccessful Register flows that include an established diameter session with the PCRF, the SBC sends an STR to tear down the session after			

ID	Description	Severity	Found In	Fixed In
	the Register has failed due to, for example, responses from the core.			
28618563	The system is not populating the Username AVP in Accounting Requests (ACRs) correctly. When triggered by an INVITE, these AVPs contain only the "@" sign. They do not include the username and domain name portion of the URL.	3	CZ8.1.0m1	S-Cz8.4.0
31726575	Do not configure sip-advanced-logging if you expect any auth-invite call flows (401/407). If you are upgrading to S-Cz8.4.0p2 or later, and your configuration includes conditional logging (session-router, sip-advanced-logging, state=enabled), you must first remove sip-advanced-logging from the config, otherwise calls will fail. • Setting the state to disabled does not work and removing it is required.	2	S-Cz8.4.0p2	S-Cz8.4.0p4
32049267	Do not configure AEAD_AES_256_GCM cipher in the sdes-profile, crypto-list parameter, or the system will crash.	3	S-Cz8.4.0p3	S-Cz8.4.0p4

ID	Description	Severity	Found In	Fixed In
31384643	During the testing of this release Oracle identified a pre-existing issue in the code where adding an LI warrant during a period of heavy SIP load may cause the system to stop responding, which results in a switchover. This issue exists in prior releases and will be addressed in an upcoming 8.4 patch. If you have not encountered this issue in the past, it is unlikely that you will encounter it now. System Impact: If you add an LI warrant while the SBC is under heavy load from SIP traffic, a mid-call intercept operation may not occur after the addition (causing the SBC to stop responding). If the SBC stops responding a switchover will occur, but the warrant will have been added correctly. The issue can be mitigated by performing addition of LI warrants during off-peak times, such as maintenance windows.	3	S-Cz8.4.0	S-Cz8.4.0p2

ID	Description	Severity	Found In	Fixed In
30520108	Upon registering 100k or more IMS-AKA user registrations, and handling large numbers of VoLTE calls and registration refreshes, in excess of 8k for example, a vSBC may hang. At this point, you would find the vSBC unresponsive and inaccessible. An example of conditions when this may occur includes: • 100k IMS-AKA registrations with 100 registrations per second and an expiry timer of 18.0.0 seconds. • Forwarding cores at 60% or above utilization. • New calls at 50 registrations per second and 10 second hold timers. Reboot the system from the hypervisor to recover from this issue.	N/A	N/A	S-Cz8.3.0m1p5

ID	Description	Severity	Found In	Fixed In
30364057	Do not use DNS for multiple services on the OCSBC simultaneously. DNS service operates on the OCSBC normally when you configure it for a single purpose. When you configure it for multiple purposes, however, lookups do not complete correctly. Workaround: An example of this would be configuring DNS for both PCRF and ENUM services. You can mitigate this issue by configuring the local routing table with ENUM lookups.	3	S-Cz8.3.0p7	S-Cz8.3.0m1p5
29862440	When transcoding from T.38 to G711FB, the OCSBC includes multiple (for example 2) m-lines in the SDP when there are multiple (for example 2) c-lines in the source SDP. This happens even if you have set the fax-single-m-line parameter in the applicable codec-policy to present a single m-line. Workaround: Configure an ingress HMR to remove all but 1 c-line from the incoming SDP.	3	S-Cz7.4.0m1p8	S-Cz8.3.0m1p3

ID	Description	Severity	Found In	Fixed In
30158557	Under high media loads that include AMR/AMR-WB to PCMA transcoding, the 10G port on the Acme Packet 6300 is experiencing packet loss and, therefore media MOS degradation.	2	S-Cz8.1.0m1p16	S-Cz8.4.0
30444535	When configured for the minimum TCP disconnect time, the default for network-parameters, the OCSBC takes an unexpectedly long time before attempting to create a socket and connect. When using the defaults to create and connect using the minimum amount of time, this process takes 18 seconds instead of 9.	3	N/A	S-Cz8.3.0m1p3
29846828	The OCSBC stops generating registration refreshes after 12 hours for Surrogate Agents. After a reboot, the OCSBC attends to registration and refreshes correctly using the new Call ID for 12 more hours.	2	E-Cz8.1.0m1p8	S-Cz8.1.0m1p22

ID	Description	Severity	Found In	Fixed In
30330778	The OCSBC cannot forward a call that uses a TEL-URI and includes the routing number (rn) parameter. Depending on your routing configuration, the OCSBC may reject these call with a 404 Not Found/No Route to Destination. The OCSBC forwards these portability scenarios properly when they present an R-URI.	1	S-Cz7.4.0m2p4;8.1.0m1p18	S-Cz8.1.0m1p23
29779932	The OCSBC uses a Diffie Hellman algorithm that conflicts with that of the 10.4 Solaris SFTP server. As a result, both CDR and HDR transfers to these servers fail. Do not use the Solaris 10.4 SFTP server with the OCSBC.	1	S-Cz8.1.0m1p9, S-Cz8.3.0p7	S-Cz8.3.0m1p4
29913123	NMC causes the Acme Packet 6350 to switchover when NMC gets its first traffic match.	2	S-Cz8.1.0M1P9	S-Cz8.3.0m1p3
29403076	When generating HDR reports and SNMP output on resource utilization that includes threads, the OCSBC omits the thread name, leaving the applicable field and OID empty.	3	S-Cz8.1.0M1P9	S-Cz825p3

ID	Description	Severity	Found In	Fixed In
310398.2.0	When mid-call Lawful Intercept is enabled, and the SBC has not started intercepting particular sessions, those sessions will not be replicated on the standby. If a switchover occurs, affected calls could be dropped.	3	S-Cz8.3.0m1p2	S-Cz8.4.0
28157960	When setting up a SIPREC session, the SBC sets up 1-way audio if the far end offers an odd port number in the m line.	2	S-Cz8.0.0	S-Cz8.3.0m1p8
26669090	The SBC dead peer detection does not work with IPv4.	3	S-Cz8.0.0	Could not reproduce - S-Cz8.4.0
22322673	When running in an HA configuration, the secondary SBC might go out of service (OoS) during upgrades, switchovers, and other HA processes while transitioning from the "Becoming Standby" state. Oracle observes such behavior in approximately 25% of these circumstances. You can verify the issue with log.berpd, which can indicate that the media did not synchronize. Workaround: Reboot the secondary until it successfully reaches the "Standby" state.	3	S-Cz7.3.0P1	S-Cz8.0.0

ID	Description	Severity	Found In	Fixed In
29931732	The embedded communications monitor probe does not send IPv6 traffic to the Oracle Communications Operations Monitor's mediation engine.	3	S-Cz8.0.0	S-Cz8.3.0m1p4
30375697	Infrequently during race conditions, the number of SIP registration entries on the active and standby SBCs differs, with the standby SBC containing fewer entries. When this happens and a switchover occurs, some endpoints are unable to receive calls until the endpoint re-registers. Increase Journal index size and optimize the Journal management code to avoid this.	2	S-Cz8.1.0m1p18	S-Cz8.1.0m1p18b

ID	Description	Severity	Found In	Fixed In
30544663	When a session add action is executed and the session is not found in the sipProxy, a new Sip Session and two Sip Dialogs are created and cross referenced and the buffer from the active is loaded. If the load fails, the update function exits and the SipSession and SipDialogs are left dangling and create a memory leak. Workaround: To avoid this memory leak, successfully load the buffer BEFORE creating the session and dialogs. Monitor the standby SBC's memory usage and reboot as needed.	3	S-Cz8.1.0m1	S-Cz8.1.0m1p18b

ID	Description	Severity	Found In	Fixed In

30498837	A sipd process crash occurs with a signature containing the following:
	
	`ZNSt8_Rb_tree ISsSt4pairIKS s4SptrI10SipC ontactEESt10* _Select*1stIS 5_ESt4lessIS sE SaIS5_EE11equ al_rangeERS1_ (+ 0x67) - sp = 0x7f334938d38 0, ip = 0x1f1b117`
	
	The SBC can leak File Descriptors in cases where there are certain process errors. For example:
	
	`[MINOR] (0) Selector::do_ select() - epoll_ctl(DEL , 409) failed with errno=9:Bad file descriptor)`
	
	This does not trigger proper closure of sockets. This is avoided by closing the socket that was opened and then setting an error identifying exact error code.
		2	S-Cz8.1.0m1p18	S-Cz8.1.0m1p18b

ID	Description	Severity	Found In	Fixed In
29403076	The "thread-event" and "thread-usage" HDR categories are displaying incorrectly due to MBCD and SIPD thread names not properly writing into the files and OID output. MBCD and SIPD now properly assign and pass the proper names.	3	S-Cz8.1.0m1p9	S-Cz8.1.0m1p18b
29633588	During certain configuration activities, the SBC restarts due to an issue caused by improper configuration steps being processed in the **sip-manipulation**, **header-rules**. The SBC now returns an error message stating "Invalid Selection" instead of failing.	3	S-Cz8.1.0m1p11	S-Cz8.1.0m1p18b
29937232	GW unreachable and NetBufCtrl MBUFF errors - This can result in system instability including crash, gw-unreachable and redundancy issues. System will switchover if in HA. Show Buffers output will normally show an increase of errors reported in the NetBufCtrl field due to mbuf's not being freed.	2	S-Cz8.3.0	S-Cz8.3.0p6

ID	Description	Severity	Found In	Fixed In
288.2.0258	On VNF platforms, when running TLS Chat on VMware-PV 4core (SSFD) + 16GB, TLS Chat sessions are gradually decreasing. When looking in Wireshark at EXFO, EXFO forwards a wrong TLS MSRP Chat payload to EXFO UAS. TCP Chat does not have this error.	3	S-Cz8.0.0	S-Cz8.3.0m1p2
	For Advanced Media Termination deployments using the 4600, 6300, 6350 platforms, the SBC is generating RTP and RTCP on the ports 20000 and 20001, instead of generating both on the same port 20000.	3	S-Cz8.3.0	S-Cz8.3.0m1p2
29522609	Some calls that are configured to generate ring back tones result in one-way audio.	2	S-Cz8.3.0	S-Cz8.3.0m1p2
29558827	IMS-AKA calls running over IPv6 networks which utilize VLANs on systems with Mellanox network interfaces may experience one-way audio.	3	S-Cz8.3.0p3	S-Cz8.3.0m1p2
29580506	SBCs running on virtual platforms or the Acme Packet 3900 could switch over when running IMS-AKA calls involving refresh registrations.	2	S-Cz8.3.0p3	S-Cz8.3.0m1p2

ID	Description	Severity	Found In	Fixed In
29607573	The SBC is unable to successfully initiate a TCP connection to configured Diameter Accounting (Rf) servers.	2	S-Cz8.3.0	S-Cz8.3.0m1p2
30114764	When presenting the content type for SPIROU during SIP to SIPI interworking, the SBC is displaying the text **base=spirou**. Based on relevant standards, it should display **base=itu-92+** as the content type.	4	S-CZ8.3.0m1	S-Cz8.3.0m1p2
30127762	When performing SIP to SIPI interworking, the SBC is not including an ISUP REL in the interworked body of its **400 Missing CSeq** message when it rejects applicable calls from the SIPI side.	4	S-CZ8.3.0m1	S-Cz8.3.0m1p2
30240798	The OCSBC closes connections when using some SFTP clients, including WinSCP and MOBA, to upload files over 200KB. Workaround - Use the Linux or Filezilla SFTP client when uploading files greater than 200k.	3	S-CZ8.3.0p6	S-Cz8.3.0m1p2

ID	Description	Severity	Found In	Fixed In
30289027	Azure does not always properly reset media interfaces after the OCSBC reboots. Instead, Azure sometimes tries to process a non-existent packet as soon as the OCSBC comes back up, resulting in a kernel panic. Workaround - If you experience a kernel panic after OCSBC reboot, stop and restart the vSBC from the Azure UI.	3	S-Cz8.3.0	S-Cz8.3.0m1p2
30453532	The Web GUI available in the S-Cz8.3.0M1 release cannot adequately be used to configure the Enterprise SBC. Workaround: For Web GUI support, use releases either prior to S-Cz8.3.0M1, or releases S-Cz8.3.M1p2 and later.	2	S-Cz8.3.0m1	S-Cz8.3.0m1p2
26258705	The **show sipd srvcc** command does not display the correct number of unsuccessful aSRVCC calls.	3	S-Cz8.0.0	S-Cz8.3.0

ID	Description	Severity	Found In	Fixed In
28617938	The **anonymize-invite** option for CommMonitor is not RTC. To see a change, you must either reboot or toggle the admin state. The following is a general admin state toggle procedure: 1. Set admin state to disabled. 2. Save and activate. 3. Set admin state to enabled. 4. Save and activate.	4	CZ8.1.0m1	S-Cz8.3.0
29556215	The SBC does not send SIPREC data to a remote call server.	2	S-Cz8.3.0	S-Cz8.3.0p5
29608499	In all documents except for the Release Notes and Installation guide, the printed version of this release (S-Cz8.3.0) is incorrectly displayed as S-Cz8.2.0.	4	S-Cz8.3.0	S-Cz8.3.0p3
28539155	When operating as a VNF and using Mellanox interface cards, the OCSBC does not support ICMP over IPv6.	3	S-Cz8.2.0	S-Cz8.3.0
29322490	The SBC intermittently does not process the registration (Event: reg) of a SUBSCRIBE with Expires header=0 that should be created after receiving a NOTIFY with a termination request from a UE.	2	S-Cz8.2.0	S-Cz8.3.0

ID	Description	Severity	Found In	Fixed In
28526228	Maximum SRTP capacity on VNF platforms is 25% lower than in the S-Cz8.1.0 release. Expected capacity will be restored in a follow up patch.	3	S-Cz8.2.0	S-Cz8.3.0
28679339	When supporting SRVCC roaming calls, the OCSBC is handling SRVCC end-station de-registration events by properly including associated URIs in the 200 OK. It is not, however, saving those associated URIs in its registration cache. This causes the OCSBC to respond to calls to those URIs with 404 not found messages until the end-station re-registers.	2	S-Cz8.0.0	S-Cz8.3.0
26313330	In some early media call flows, the SBC may not present the correct address for RTP causing the call to terminate.	3	S-Cz8.0.0	S-Cz8.2.0

ID	Description	Severity	Found In	Fixed In
26281599	The system feature provided by the **phy-interfaces overload-protection** parameter and **overload-alarm-threshold** sub-element is not functional. Specifically, enabling the protection and setting the thresholds does not result in trap and trap-clear events based on the interface's traffic load. The applicable ap-smgmt.mib SNMP objects include: • apSysMgmtPhyUtilThresholdTrap • apSysMgmtPhyUtilThresholdClearTrap	3	S-Cz720	S-Cz8.2.0
25144010	When an SBC operating on an Acme Packet 6300 switches over, the secondary can successfully add new ACL entries, but it also retains old ACL entries that it should have deleted.	3	S-Cz7.4.0p1	S-Cz8.2.0
26183767	When operating in HA mode and handling large traffic loads, the active SBC stops responding when you restore large configurations that are different from the configuration the active is currently running. The system subsequently goes out of service.	3	S-Cz8.0.0	S-Cz8.2.0

ID	Description	Severity	Found In	Fixed In
21975038	The Acme Packet 4600, 6100, 6300, and 6350 platforms do not support MSRP File Transfer.	3	S-Cz8.1.0	S-Cz8.2.0
27539750	When trying to establish a connection between the SBC and your network, while using TLS version 1.2, the SBC may reject the connection. Workaround: You may need to adjust your cipher list.	3	S-Cz8.1.0	S-Cz8.1.0
28062411	Calls that require SIP/PRACK interworking as invoked by the 100rel-interworking option on a SIP interface do not work in pooled transcoding architectures.	2	S-Cz7.4.0	S-Cz8.2.0
28071326	Calls that require LMSD interworking, as invoked by the lmsd-interworking option on a SIP interface, do not work in pooled transcoding architectures. During call establishment, when sending the 200 OK back to the original caller, the cached SDP is not included.	2	S-Cz7.4.0	S-Cz8.2.0

ID	Description	Severity	Found In	Fixed In
None	The CZ8.1.0 release does not support IPSec on the Acme Packet 3900 and VNF. You must upgrade to CZ8.1.0p1 to get this support. After you upgrade to CZ8.1.0p1, do the following: 1. Run **setup entitlements**, again. 2. Select **advanced** to enable advanced entitlements, which then provides support for IPSEC on Acme Packet 3900 and VNF systems.	N/A	S-Cz8.1.0	S-Cz8.2.0
28.3.05575	On VNFs, the system erroneously displays the IPSEC entitlement under "Keyed (Licensed) Entitlements." The error does not affect any functionality and you do not need to do anything.	4	S-Cz8.1.0	S-Cz8.2.0
28659469	When booting CZ8.1.0M1 on any virtual platform, not all system processes start. This known issue only occurs on initial boot, and not in an upgrade scenario. Workaround: Reboot the SBC a second time, after it initially starts.	3	SCz8.1.0m1	S-Cz8.2.0

ID	Description	Severity	Found In	Fixed In
	If you configured the ims_aka option, you must also configure sip-interfaces with an ims-aka-profile entry.	3	E-Cz7.4.0	E-Cz7.4.0m1
27811129	When upgrading an OCSBC from a version that uses License Keys to enable CODECs, you must reboot the system after setting any CODEC entitlements to override the License Keys.	3	S-Cz8.1.0	S-Cz8.3.0

ID	Description	Severity	Found In	Fixed In
30152019	Oracle has identified a Potential tSipd crash when configured for a VOLTE w/SRVCC scenario. When the issue is encountered, there is a sipd crash and, if configured, an HA switchover. This is a race condition that is relatively rare, but has been seen in internal testing. System Impact of HA Switchover: • The Registration cache and existing media sessions are replicated to the standby OCSBC. • During the switchover, transient calls/ registrations are lost. • After the switchover, TCP connections to and from the UE's must become re-established in order to make a new call out /refresh register / reregister. • The UEs is able to receive calls from the IMS-core because the setup message reestablishes the TCP connection towards the UE.	3	S-Cz8.3.0p7	S-Cz8.3.0m1

ID	Description	Severity	Found In	Fixed In
28610095	In some circumstances, and with **add-sdp-invite** and **add-sdp-profile** configured, the SBC does not include the original SDP in a Re-INVITE that has no SDP. This does not comply with RFC 3264. Instead, the SBC inserts the negotiated media information from the last successful negotiation as the ReINVITE's SDP offer and sends this ReINVITE with inserted SDP to the next hop signaling entity. This issue is evident by the contents of the SDP o line.	3	S-Cz7.4.0	S-Cz8.3.0m1
29541242	*Installation and Platform Preparation* guide incorrectly includes information about setting up HA on Oracle Cloud platforms. These platforms do not support HA deployments at this time.	3	S-Cz8.3.0	S-Cz8.3.0m1
34233796	T.38 transcoding is not available on the Acme Packet 3950 and Acme Packet 4900 platforms.	2	S-Cz9.0.0	S-Cz9.0.0p5

The following Known Issues and Caveats do not occur in this release. They are listed here for tracking purposes.

ID	Description
30612465	On Virtual platforms, the OCSBC is not forwarding traffic transcoded to EVS or Opus codecs if you have configured the applicable policy with a forced ptime of 60ms.

ID	Description
25954122	Telephony fraud protection does not black list calls after a switchover. Workaround: Activate the fraud protection table on the newly active server.
31162394	Running SIPREC on the Acme Packet 4600 over 1G interfaces may result in system instability. Workaround : Do not egress traffic out of a physical interface that exceeds the bandwidth of the physical media capacity. You should determine the amount of egress media traffic and the amount of intercepted traffic on that interface. The intercepted traffic could be any recorded traffic on the interface like (SIPREC, LI, and remote packet trace).
26598075	When running on the Acme Packet 4600, the OCSBC sends a 200OK with IPv4 media address for call flows with offerless INVITES and the OCSBC configured with add-sdp-invite=invite and ALTC configured for IPv6 on the egress.
26559988	In call flows that include dual ALTC INVITEs from the callee, and subsequent Re-INVITEs that offer an ALTC with IPv6 video, the OCSBC may not include the m lines in the SDP presented to the end stations during the Re-INVITE sequence. This results in the call continuing to support audio, but not video.
26260953	Enabling and adding Comm Monitor config for the first time can create a situation where the monitoring traffic (IPFIX packets) does not reach the Enterprise Operations Monitor. Workaround: Reboot the system.
28748784	When operating as a VNF and using Mellanox interface cards, the OCSBC does not support outbound ICMP.
30794993	The SBC might display an excessive number of debug messages after an HA switchover, if you configured both X123 LI and IKEv2/IPSec with IPv6 security policies.
23756306	When you configure the session-router with an operation-mode of session, it does not correctly clear sessions.
21805139	RADIUS stop records for IWF calls may display inaccurate values.
26136553	The SBC can incur a system-level service impact while performing a switchover using "notify berpd force" with an LDAP configuration pointing to an unreachable LDAP server. Workaround: Ensure that the SBC can reach the LDAP server before performing switchover.

ID	Description
28770472	ACLI Users will receive an error on the output of the show registration sipd by-user command.
29999832 and 30194470	When deployed as a vSBC, configured for IMS-AKA, and operating with registrations exceeding 60k, the OCSBC may exhibit performance degradation, exhibited by high CPU load or system crash. Workaround - Oracle has found that disabling the **security-policy sa-lookup-exception** parameter allows IMS-AKA to function correctly while supporting a high number of registrations. This parameter is enabled by default. Disable this parameter within all applicable security policies before running IMS-AKA. This parameter, when enabled on Acme Packet hardware, works as designed.
32062551	Virtual SBC platforms may incorrectly assess link status thereby causing major health degradation and triggering a failover.
30595413	The IKEv2/IPSEC negotiation fails while using TRANSPORT MODE and different IP's for IKE and SIP interfaces.
23253731	After an HA switchover, the new standby SBC retains some IMS-AKA subscriber TCP sockets. You can clear these sockets by rebooting the SBC.
29005944	On Acme Packet hardware in an HA configuration, with a large number of IMS-AKA endpoints, the standby is unable to synchronize, and when rebooted goes OOS.
27031344	When configured to perform SRTP-RTP interworking, the SBC might forward SRTP information in the SDP body of packets on the core side, causing the calls to terminate. Workaround: Add an appropriately configured media-sec-policy on the RTP side of the call flow. This policy is in addition to the policy on the SRTP side of the call flow.
30520181	When performing large numbers of simultaneous registrations, such as during a registration flood, the OCSBC may become unstable and stop responding when it exceeds 200k IMS-AKA subscriber registrations.
ACMECSBC-23446 24809688	Media interfaces configured for IPv6, and using different VLANs that operate over different infrastructures, including VoLTE and 3GPP, are not supported.
28639227	When operating as a VNF and using Mellanox interface cards, the OCSBC does not support SCTP transport.

ID	Description
28906914	For transcoding use cases, the G711/G729 codec pair might experience unstable performance when each DSP has greater than 500 transcoding sessions.
N/A	The T.140-Baudot Relay is not excluded from supported features with pooled transcoding.
N/A	When operating as a VNF deployed in an HA configuration, the OCSBC does not support IPSec.

Caveats and Limitations

The following information lists and describes the caveats and limitations for this release. Oracle updates this Release Notes document to distribute issue status changes. Check the latest revisions of this document to stay informed about these issues.

The Web GUI Shows No Configuration Data After Clicking "View Configuration"

When you set the process level or system log level to DEBUG, the Web GUI may not display any configuration information for large configurations when you click "View Configuration".

Local Policy Conflict Between action and lookup Parameters

Do not configure a **policy-attribute**, under **local-policy**, with the **action** parameter set to 'redirect' and the **lookup** parameter set to 'multi'. These settings conflict with each other, causing unexpected results.

VNF in HA Mode

When the SBC VNF is running in HA mode, any existing IPSec tunnels do not fail over the standby SBC.

Acquire Config and acp-tls-profile

The **acquire-config** process fails if your configuration includes an **acp-tls-profile**. The system does, however, successfully synch this profile after HA is established.

Workaround: Disable your **acp-tls-profile** on the active system before performing an **acquire-config** procedure. Re-enable this profile after **aquire-config** completes successfully.

Toggling SIP Interfaces Running TCP

You must reboot the system any time you disable, then enable an active SIP interface that is using TCP.

Provisioning Transcode Codec Session Capacities

When a transcode codec was originally provisioned in an earlier software version with a license key, a capacity change using the **setup entitlements** command requires a reboot to take effect.

Virtual Network Function (VNF) Caveats

The following functional caveats apply to VNF deployments of this release:

- The OVM server 3.4.2 does not support the virtual back-end required for para-virtualized (PV) networking. VIF emulated interfaces are supported but have lower performance. Consider using SR-IOV or PCI-passthru as an alternative if higher performance is required.
- To support HA failover, MAC anti-spoofing must be disabled for media interfaces on the host hypervisor/vSwitch/SR-IOV_PF.
- You may need to enable trust mode on the host PF, when using Intel X/XL7xx [i40e] NICs with SR-IOV, before you can use VLANs or HA virtual MAC on the guest VF. Refer to the Intel X710 firmware release notes for further information.
- MSRP support for VNF requires a minimum of 16GB of RAM.
- The system supports only KVM and VMWare for virtual MSRP.
- CPU load on 2-core systems may be inaccurately reported.
- IXGBE drivers that are a part of default host OS packages do no support VLANs over SR-IOV interfaces.
- Software-based transcoding on vSBCs is not supported on servers with AMD CPUs.

Virtual Network Function (VNF) Limitations

Oracle Communications Session Border Controller (SBC) functions not available in VNF deployments of this release include:

- FAX Detection
- T.38 FAX IWF
- RTCP detection
- LI-PCOM
- H.323 signaling or H.323-SIP inter-working
- ARIA Cipher

Transcoding - general

Only SIP signaling is supported with transcoding.

Codec policies can be used only with realms associated with SIP signaling.

The T.140 to Baudot Relay transcoding support is not available on vSBC or Acme Packet 3900 platforms.

T.38 Fax Transcoding

T.38 Fax transcoding is available for G711 only at 10ms, 20ms, 30ms ptimes.

Pooled Transcoding for Fax is unsupported.

Pooled Transcoding

The following media-related features are not supported in pooled transcoding scenarios:

- Lawful intercept
- 2833 IWF

- Fax scenarios
- RTCP generation for transcoded calls
- OPUS codec
- SRTP and Transcoding on the same call
- Asymmetric DPT in SRVCC call flows
- Media hairpinning
- QoS reporting for transcoded calls
- Multiple SDP answers to a single offer
- PRACK Interworking
- Asymmetric Preconditions

DTMF Interworking

RFC 2833 interworking with H.323 is unsupported.

SIP-KPML to RFC2833 conversion is not supported for transcoded calls.

H.323 Signaling Support

If you run H.323 and SIP traffic in system, configure each protocol (SIP, H.323) in a separate realm.

Media Hairpinning

Media hairpining is not supported for hair-pin and spiral call flows involving both H.323 and SIP protocols.

Lawful Intercept

Lawful Intercept is supported for the X123 and PCOM protocols only. PCOM support for LI is not available on virtual platforms.

Fragmented Ping Support

The Oracle Communications Session Border Controller does not respond to inbound fragmented ping packets.

Physical Interface RTC Support

After changing any Physical Interface configuration, you must reboot the system.

SRTP Caveats

The ARIA cipher is not supported by virtual machine deployments.

Packet Trace

- Output from the **packet-trace local** command on hardware platforms running this software version may display invalid MAC addresses for signaling packets.
- The **packet-trace remote** command does not work with IPv6.
- If any conflicting applications are enabled, the **packet-trace** command displays a warning. Conflicting applications are comm-monitor, call-trace, and SIP Monitor and Trace.

Trace Tools

You may only use one of these trace tools at a time:

- The **packet-trace** command
- The **communications-monitor** as an embedded probe with the Oracle Communications Operations Monitor
- call-trace

The verify-config command displays a warning if more than one of these is enabled.

RTCP Generation

Video flows are not supported in realms where RTCP generation is enabled.

SCTP

SCTP Multihoming does not support dynamic and static ACLs configured in a realm.

SCTP must be configured to use different ports than configured TCP ports for a given interface.

MSRP Support

When running media over TCP (e.g., MSRP, RTP) on the same interface as SIP signaling, TCP port allocation between media and signaling may be incompatible.

- Workaround: Set the **sip-port**, **address** parameter to a different address than where media traffic is sent/received, the **steering-pool**, **ip-address** value.

Real Time Configuration Issues

In this version of the SBC, the **realm-config** element's **access-control-trust-level** parameter is not real-time configurable.

Workaround: Make changes to this parameter within a maintenance window.

High Availability

High Availability (HA) redundancy is unsuccessful when you create the first SIP interface, or the first time you configure the Session Recording Server on theOracle Communications Session Border Controller (SBC). Oracle recommends that you perform the following work around during a maintenance window.

1. Create the SIP interface or Session Recording Server on the primary SBC, and save and activate the configuration.
2. Reboot both the Primary and the Secondary.

Offer-Less-Invite Call Flow

Call flows that have "Offer-less-invite using PRACK interworking, Transcoding, and dynamic payload" are not supported in this release.

Fragmented SIP Message Limitations

Fragmented SIP messages are intercepted but not forwarded to the X2 server if IKEv1/IPsec tunnels are configured as transport mode.

Workaround: Configure IKEv1/IPsec tunnels as "tunnel mode".

IPv6 On X1 Interface

IPv6 does not work on X1 interface.

Diameter Server Timeout during Save/Activate

When saving and activating a configuration, the SBC may disconnect from an external policy server. The cause of this disconnect is based on SCTP HEARTBEAT value configured on the Diameter policy server.

Solution: You can work around this issue by setting the policy server's SCTP HEARTBEAT to a value greater than 750ms, which exceeds the amount of time it takes to perform a save/activate on the SBC.

HA Deployment on Azure

HA deployments on Azure are not supported.

Simultaneous Use of Trace Tools

See "Trace Tools" caveat.

LI and Rx Interfaces using the same Address

Do not configure an X1, X2, or X3 TCP endpoint with the same address as an Rx interface. These configurations create conflicts between the Linux TCP stack and atcpd.

IKE

ECDSA certificates are not supported with IKEv2 configurations.

Acme Packet 3950/4900 Power Button

When running release 9.0.0 on the Acme Packet 3950 and the Acme Packet 4900, the power button may not function correctly. Upgrade to 9.0p1 or later to correct this.

Acme Packet 3950/4900 Excluded Features

The following features are not supported on the Acme Packet 3950 or Acme Packet 4900:

- VoLTE
- LI-PCOM
- IMS-AKA
- Diameter RX

Acme Packet 3950/4900 Transcoding Module Compatibility

The transcoding modules in the Acme Packet 3950 and Acme Packet 4900 are not compatible with other physical platforms.

IWF

IWF (SIP-H323) appears at the setup entitlements prompt on virtual platforms when H.323 is not supported.

SIPREC Post REFER Processing

For SIPREC calls that use the Universal Call ID SPL and also exercise SIPREC on main call flow, the SBC does not include UUID in ACK or BYE messages post REFER processing.

Acme Packet Platform Monitoring Caveats

The SFP INSERTED and SFP REMOVED Alarms and corresponding traps are not supported on the following platforms:

- Acme Packet 3900
- Acme Packet 3950
- Acme Packet 4600
- Acme Packet 4900
- Acme Packet 6100
- Acme Packet 6300
- Acme Packet 6350

IPSec Trunking Tunnel Caveat

The **setup Entitlements** command allows to set a maximum of 2500 IPSec trunking tunnels. Each IPSec trunking tunnel secures signaling and media traffic for more than one SIP session. You can either set a maximum of 2500 trunking tunnels or less, while configuring the session capacity. Setting a maximum value for trunking tunnel does not limit the configured session capacity.

Playback Headers in Hairpin Calls

Playback headers are not supported in hairpin calls.

Limitations Removed

The limitations listed in this section are no longer applicable on this version of the SBC.

Remote Packet Trace

Remote packet trace is now supported on the Acme Packet 1100, 3900, and 4900 platforms. It is also now supported over virtual platforms.

IPSec on Virtual Platforms

IPSec functionality including authentication header (AH) support is available on virtual platforms and the Acme Packet 3900.