

Oracle® Enterprise Communications Broker Release Notes



Release P-Cz4.0.0

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The Oracle logo, consisting of the word "ORACLE" in white, uppercase, sans-serif font, centered within a solid red square.

ORACLE®

Oracle Enterprise Communications Broker Release Notes, Release P-Cz4.0.0

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About This Guide

The Oracle Enterprise Communications Broker (OECB) Release Notes provides the following information about the ECB hardware and software.

- Specifications and requirements
- Upgrades and downgrades
- New features and enhancements
- Known issues, caveats, and limitations

Documentation Set

The following table describes the documentation set for the OECB.

Document Name	Document Description
Release Notes	Contains information about the current release, including specifications, requirements, new features, enhancements, inherited features, known issues, caveats, and limitations.
Administrator's Guide	Describes how to deploy the system.
User's Guide	Describes how to configure SIP signaling management and how to tailor the system to specific needs.
Help system	Contains task-oriented topics for configuring, administering, maintaining, and troubleshooting the ECB hardware and software.
SBC Family Security Guide	Provides information about security considerations and best practices from a network and application security perspective for the Session Border Controller family of products.

Related Documentation

The following table describes related documentation for the OECB.

Document Name	Document Description
Installation and Platform Preparation Guide	Contains conceptual and procedural information for system provisioning, software installations, and upgrades.

Revision History

The following table lists changes to this document and the corresponding dates of publication.

Date	Description
June 2022	<ul style="list-style-type: none"> • Initial Release

Date	Description
August 2022	<ul style="list-style-type: none"> Updates the section Supported Hypervisors.
October 2022	<ul style="list-style-type: none"> Updates "Resolved Issues and Known Issues" for PCz4.0.0p1.
January 2023	<ul style="list-style-type: none"> Updates "Resolved Issues and Known Issues" for PCz4.0.0p2.
July 2024	<ul style="list-style-type: none"> Updates "Known Issues and Resolved Known Issues" for PCz4.0.0p8.

My Oracle Support

My Oracle Support (<https://support.oracle.com>) is your initial point of contact for all product support and training needs. A representative at Customer Access Support (CAS) can assist you with My Oracle Support registration.

Call the CAS main number at 1-800-223-1711 (toll-free in the US), or call the Oracle Support hotline for your local country from the list at <http://www.oracle.com/us/support/contact/index.html>. When calling, make the selections in the sequence shown below on the Support telephone menu:

1. Select 2 for New Service Request.
2. Select 3 for Hardware, Networking, and Solaris Operating System Support.
3. Select one of the following options:
 - For technical issues such as creating a new Service Request (SR), select 1.
 - For non-technical issues such as registration or assistance with My Oracle Support, select 2.

You are connected to a live agent who can assist you with My Oracle Support registration and opening a support ticket.

My Oracle Support is available 24 hours a day, 7 days a week, 365 days a year.

Emergency Response

In the event of a critical service situation, emergency response is offered by the Customer Access Support (CAS) main number at 1-800-223-1711 (toll-free in the US), or call the Oracle Support hotline for your local country from the list at <http://www.oracle.com/us/support/contact/index.html>. The emergency response provides immediate coverage, automatic escalation, and other features to ensure that the critical situation is resolved as rapidly as possible.

A critical situation is defined as a problem with the installed equipment that severely affects service, traffic, or maintenance capabilities, and requires immediate corrective action. Critical situations affect service and/or system operation resulting in one or several of these situations:

- A total system failure that results in loss of all transaction processing capability
- Significant reduction in system capacity or traffic handling capability
- Loss of the system's ability to perform automatic system reconfiguration
- Inability to restart a processor or the system
- Corruption of system databases that requires service affecting corrective actions
- Loss of access for maintenance or recovery operations

- Loss of the system ability to provide any required critical or major trouble notification

Any other problem severely affecting service, capacity/traffic, billing, and maintenance capabilities may be defined as critical by prior discussion and agreement with Oracle.

Locate Product Documentation on the Oracle Help Center Site

Oracle Communications customer documentation is available on the web at the Oracle Help Center (OHC) site, <http://docs.oracle.com>. You do not have to register to access these documents. Viewing these files requires Adobe Acrobat Reader, which can be downloaded at <http://www.adobe.com>.

1. Access the Oracle Help Center site at <http://docs.oracle.com>.
2. Click **Industries**.
3. Under the Oracle Communications sub-header, click the **Oracle Communications documentation** link.
The Communications Documentation page appears. Most products covered by these documentation sets appear under the headings "Network Session Delivery and Control Infrastructure" or "Platforms."
4. Click on your Product and then Release Number.
A list of the entire documentation set for the selected product and release appears.
5. To download a file to your location, right-click the **PDF** link, select **Save target as** (or similar command based on your browser), and save to a local folder.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

1

Specifications and Requirements

Oracle recommends that you review the following information before installing the software.

Supported Platforms

Platforms

- Oracle X7-2 — You must install the Operating System and software from a USB memory device.
- Oracle X8-2 — You must install the Operating System and software from a USB memory device.
- Go to My Oracle Support (MOS) at <https://support.oracle.com> to download the Operating System and software. See "Download Software from MOS."
- See the Software Installation information in the [Oracle Enterprise Session Border Controller Installation and Platform Preparation Guide](#) for installation instructions.

Image and Boot Loader Files

The P-CZ 4.0.0 release uses the following image and boot loader files:

- Image—nnPCZ400.bz
- Boot loader—nnPCZ400.boot

Cores and Threads

The following list shows the recommended number of cores and the expected number of SIP threads per platform. Note that the number of SIP threads may vary, depending on the configuration of your deployment.

- VM—Recommended 8 cores. Yields 3 SIP threads.
- Oracle Servers X7-2, and X8-2—Recommended 16 cores. Yields 9 SIP threads.

Memory

Oracle recommends at least 16G memory for all P-CZ 4.0.0 deployments.

While the above presents standard recommendations, optimum OECS resource sizing depends individual deployments. Oracle recommends that you work with consulting and/or sales teams to determine the best sizing for your deployment.

Supported Hypervisors

Supported Hypervisor for Private Virtual Infrastructures in P-CZ 4.0.0: P-CZ 4.0.0 supports:

- VMware vSphere ESXi 6.x.
- VMWare vSphere ESXi 7.0.

Browser Requirements

The P-CZ 4.0.0 version of the Oracle Enterprise Communications Broker supports the following browser versions for navigating and configuring the GUI:

- Edge: 102.0.1245.30 and later
- Firefox 91.9.0esr and later
- Google Chrome (Recommended)—101.0.4951.67 and later

Download Software from MOS

When you want to get a software release or a patch from Oracle, go to My Oracle Support (MOS) and download it to your system or to a USB memory device.

- Establish an account with My Oracle Support.

The following procedure requires you to enter your MOS credentials to log on.

1. Go to <https://support.oracle.com> and log on.
2. Click the **Patches & Updates** tab.
3. On the Patch Search pane, click the **Search** tab.
4. On the Search dialog, do the following:
 - a. Product is—Select a product from the drop-down list.
 - b. Release is—Select a release from the drop-down list.
5. Click **Search**.
6. On the Patch Advanced Search Results page, click the patch that you want.

The system displays information about the patch, and a dialog where you can open the Read Me file and download the software.
7. In the dialog, do the following:
 - Read Me—Click to see the build notes.
 - Download—Click to download the software.
8. Log off.

Platform Boot Loaders

The Oracle Enterprise Communications Broker (OECB) platforms require a boot loader to load the operating system and software.

All ECB platforms require that the boot loader and the software image match per release. For example, if the software image filename is OECB nnPCZ400.bz, use the corresponding boot loader file named nnPCZ400.boot.

You can install the boot loader file as `/boot/bootloader` on the target system. You can also upload the boot file from the Web GUI using the **Upgrade Software** option. When you plan to upgrade the system image, upgrade the boot loader before booting the new system image.

Upgrade Paths

The following in-service (hitless) upgrade and rollback paths are supported by both the OECB:

-
- P-CZ3.1.0 -> P-CZ4.0.0
- P-CZ3.2.0 to P-CZ4.0.0
- P-CZ3.3.0 to P-CZ4.0.0

 **Note:**

If you want to rollback or downgrade, ensure that you backup the configuration before performing the upgrade. After rollback, manually restore the saved backup.

All paths require that you meet recommended resource requirements before you upgrade. If necessary, upgrade to supported path versions prior to your upgrade.

When upgrading to P-CZ 4.0.0 release from a release older than the previous release, read all intermediate Release Notes documents for notification of incremental changes.

Coproduct Support

The following products and features run in concert with the Oracle Enterprise Communications Broker for their respective solutions. Contact your Sales representative for further support and requirement details.

Oracle Communications Session Delivery Manager

This release can interoperate with the following versions of the Oracle Communications Session Delivery Manager:

- FCAPS support from SDM 9.0.1

 **Note:**

SDM 9.0.1 has not been released yet. However, you can find the .xsd under the following patch: NNC-OCSDM XSD for ECB Release PCZ400 with SDM 8.2.5 and later 34251277.

Behavioral Changes

The following information documents the behavioral changes to the Oracle Enterprise Communications Broker (OECB) in this software release.

Storage Location for LST Files

You can no longer specify a path when defining an LST name. The location for LST files is now fixed at /code/lst. LST files in any other location do not work.

Schema Upgrade

The Oracle Enterprise Communications Broker (OECB) requires P-CZ 4.0.0 a configuration schema upgrade after upgrading the software to P-CZ 4.0.0. The system prompts you to upgrade the configuration schema the first time you log on as the administrator.

Important:

The upgrade configuration schema is performed when you log on to ECB for the first time after completing an upgrade from a lower version to higher version. You will be prompted to update the config schema **ONLY** if your upgrade path is any one of the following:

- P-CZ 3.1.0 -> P-CZ 3.3.0
- P-CZ 3.1.0 -> P-CZ 4.0.0
- P-CZ 3.2.0 -> P-CZ 3.3.0
- P-CZ 3.2.0 -> P-CZ 4.0.0

If your upgrade path is P-CZ3.3.0 GA (or later releases) -> P-CZ 4.0.0, you will **NOT** be prompted to update the config schema. It happens without user intervention.

LDAP Configuration

P-CZ 4.0.0 exposes the RealmID parameter in the LDAP configuration. The configuration upgrade sets Realm ID to "ecb" for existing LDAP configurations.

Note:

Only the "ecb" realm can support LDAP.

ENUM Configuration

P-CZ 4.0.0 exposes the RealmID parameter in the ENUM configuration. The configuration upgrade sets Realm ID to "ecb" for existing ENUM configurations. You can set the Realm ID, as needed, for newly added VLANs.

SPL Support

The Oracle Enterprise Communications Broker supports the following Session Plug-in Language (SPL) engines.

- C2.0.0
- C2.0.1
- C2.0.2
- C2.0.9
- C2.1.0
- C2.1.1

- C2.2.0
- C2.2.1
- C2.3.2
- C3.0.0
- C3.0.1
- C3.0.2
- C3.0.3
- C3.0.4
- C3.0.5
- C3.0.6
- C3.0.7
- P1.0.0
- P1.0.1
- C3.1.0
- C3.1.1
- C3.1.2
- C3.1.3
- C3.1.4
- C3.1.5
- C3.1.6
- C3.1.7
- C3.1.8
- C3.1.9
- C3.1.10
- C3.1.11
- C3.1.12
- C3.1.13
- C3.1.14
- C3.1.15
- C3.1.16
- C3.1.17
- C3.1.18
- C3.1.19
- C3.1.20
- C3.1.21

TLS Cipher Updates

Note the following changes to the DEFAULT cipher list.

Oracle recommends the following ciphers, and includes them in the DEFAULT cipher list:

- ECDHE-ECDSA-AES256-GCM-SHA384
- ECDHE-ECDSA-AES128-GCM-SHA256
- ECDHE-RSA-AES256-GCM-SHA384
- ECDHE-RSA-AES128-GCM-SHA256
- ECDHE-RSA-AES256-SHA384
- ECDHE-RSA-AES128-SHA256
- DHE-RSA-AES256-GCM-SHA384
- DHE-RSA-AES256-SHA256
- DHE-RSA-AES128-GCM-SHA256
- DHE-RSA-AES128-SHA256
- AES256-SHA256
- TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384
- TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256
- TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384
- TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256
- TLS_DHE_RSA_WITH_AES_256_GCM_SHA384
- TLS_DHE_RSA_WITH_AES_128_GCM_SHA256

Oracle supports the following ciphers, but does not include them in the DEFAULT cipher list:

- TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384
- TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256
- TLS_DHE_RSA_WITH_AES_128_CBC_SHA256
- TLS_DHE_RSA_WITH_AES_256_CBC_SHA256
- TLS_RSA_WITH_AES_256_CBC_SHA256
- TLS_RSA_WITH_AES_256_GCM_SHA384
- TLS_RSA_WITH_AES_128_CBC_SHA256
- TLS_RSA_WITH_AES_128_CBC_SHA
- TLS_RSA_WITH_3DES_EDE_CBC_SHA
- TLS_RSA_WITH_AES_128_GCM_SHA256

Oracle supports the following ciphers for debugging purposes only:

- TLS_RSA_WITH_NULL_SHA256 (debug only)
- TLS_RSA_WITH_NULL_SHA (debug only)
- TLS_RSA_WITH_NULL_MD5 (debug only)

Oracle supports the following ciphers, but considers them not secure. They are not included in the DEFAULT cipher-list, but they are included when you set the **cipher-list** attribute to **ALL**. When you configure the **cipher-list** to **ALL**, the system provides a **verify-config** message warning you that you are using these insecure ciphers.

- TLS_DHE_RSA_WITH_AES_256_CBC_SHA
- TLS_RSA_WITH_AES_256_CBC_SHA
- TLS_DHE_RSA_WITH_AES_128_CBC_SHA
- TLS_DHE_RSA_WITH_3DES_EDE_CBC_SHA

To configure TLS ciphers, use the **cipher-list** attribute in the **tls-profile** configuration element.

 **WARNING:**

When you set **tls-version** to either **tlsv1** or **tlsv11** and you want to use ciphers that Oracle considers not secure, you must manually add them to the **cipher-list** attribute.

Documentation Changes

The following information lists and describes the changes made to the Enterprise Communications Broker documentation set for release 4.0.0

Documentation Updates for the ECB 4.0.0 Release

Table 1-1 Documentation Updates

Feature	Description
Active Directory Support for ECB 4.0.0	<ul style="list-style-type: none">• ECB 4.0.0 Web Help• ECB 4.0.0 User Guide
High Availability Interface Redundancy	<ul style="list-style-type: none">• ECB 4.0.0 Web Help• ECB 4.0.0 Administrator's Guide
SIP Digest Authentication For INVITE	<ul style="list-style-type: none">• ECB 4.0.0 Web Help• ECB 4.0.0 Administrator's Guide
GUI changes and screenshots	<ul style="list-style-type: none">• ECB 4.0.0 Web Help• ECB 4.0.0 User Guide• ECB 4.0.0 Administrator's Guide

2

New Features in ECB 4.0.0

The ECB 4.0.0 release delivers the following enhancements and new features to improve the functionality, look, and behavior of the Oracle Enterprise Communications Broker (OECB) software.

1. [TCP Timers](#)
2. [Global SIP Timers](#)
3. [Configuration to Establish Authentication by TACACS Only](#)
4. [AD Routing Support on ECB](#)
5. [HA Interface Redundancy](#)
6. [SIP Digest Authentication For INVITE](#)

TCP Timers

The OECB includes timing capabilities for inbound connections that the remote peer initiated, meaning that the remote peer sent the first SYN message. You can configure timers that define timing surrounding TCP connections, including maximum idle time for a connection before the system consider the connection inactive. This support is available in software versions P-Cz3.3.0p1 and above.

Global SIP Timers

Global SIP Timers The OECB includes SIP timers that define the transaction expiration times, retransmission intervals when UDP is used as a transport, and the lifetime of dynamic TCP connections. These retransmission and expiration timers correspond to timers defined in RFC 3261. This support is available in software versions P-Cz3.3.0p1 and above.

Configuration to Establish Authentication by TACACS Only

You can configure the OECB to restrict access authentication to the TACACS function, thereby enhancing system security. This support is available in software versions P-Cz3.3.0p1 and above.

AD Routing Support on ECB

This feature extends ECB's LDAP and Active Directory behavior in an environment where ECB needs to validate the numbers associated to the same attribute such as msRTCSIP-Line. This behavior is seen in environments where you have a IPBX and are integrating with Skype for Business (SfB) or Microsoft Teams. This feature enables ECB 4.0.0 :

- Performs a request to the LDAP AD, to route the incoming calls to SfB, Teams or any UC Service and compare it with IPBX based on the response from the AD.
- Allows you to perform a multi-stage validation of the msRTCSIP-OptionFlags field to know if the user has a Microsoft Lync Voice account.
- Allows you to configure lookup queries using the « msRTCSIP-Line » and « "msRTCSIP-OptionFlags" with regular-expression to check the active status of the connection.

- The new GUI field Operation Type allows you to change the logic of an LDAP query from "or" to "and", and also the ability to recurse through multiple LDAP look-up queries. The default value is "or".

HA Interface Redundancy

The High Availability (HA) Interface Redundancy feature in ECB 4.0.0 is an enhancement to the existing feature. ECB 4.0.0 now supports configuration of HA over the Wancom2 port. The Wancom1 and Wancom2 ports, if available in the hardware, provide redundancy if one of the two ports fail.

SIP Digest Authentication For INVITE

ECB 4.0.0 allows the SIP digest authentication for SIP INVITE and REFER in addition to the current support for the REGISTER method. The GUI field **Methods** attribute in the SIP-authentication-profile allows you to configure the authentication for the SIP INVITE and SIP REFER.

3

Web GUI Changes in ECB 4.0.0

The ECB 4.0.0 release changes the look, and some of the behavior of the Web GUI, to better align with Oracle's current styles and standards. Although most of the navigation and operations remain the same, some differences occur in the location and design of the controls you use to access and manipulate the objects on the Web GUI. The following information describes the new controls, operations, and behavior of the Web GUI.

New Web GUI Behavior

Each part of the Web GUI received updates for the ECB 4.0.0 release. The following information describes the visual and operational changes to the header and each tab.

Table 3-1 New Web GUI Features/Changes in ECB 4.0.0

New Web GUI Features/Changes in ECB 4.0.0	Description
The Show Configuration button has been enabled for all Configuration elements	The Show Configuration button has been added to all configuration elements in the top right corner of the heading section in the center content. Clicking Show Configuration displays the configuration in a new dialog. You can also view the editing configuration.
Changes to the page header	The target name is shown in the page header configured in the boot parameters. The page header displays Wancom0 IP(IPv4/IPv6) if it has been configured. Otherwise, the page header displays the management IP address.
Bootloader file upload option from Web GUI	The web GUI supports uploading the bootloader file along with software. The existing bootloader is backed up in the /code/images directory and the new uploaded bootloader file is placed in the /boot directory and renamed to 'bootloader'.
Local Subscriber Table (LST) - Manage file functionality displayed in a dialog box.	The web GUI displays the Local Subscriber Table XML file management in a separate dialog box rather than in a new screen in the Configuration tab.
Customer Error Page	The web GUI displays an error page with the message 'Attempted action unsuccessful. Please try again.' message when user tries to download or view any file that is not available in the ECB.
Show stats commands addition	Support for 300 show stats commands has been added in the web GUI. These show stats commands can be accessed as widgets in the Widgets screen and can be added to the Dashboard page.
Flexible storage of records per call	Ladder diagrams display the entire call and not is not restricted by the number of rows per call. The relationship of calls to rows is inverse. The more rows users see per call, the fewer calls the ECB can display.

Table 3-1 (Cont.) New Web GUI Features/Changes in ECB 4.0.0

New Web GUI Features/Changes in ECB 4.0.0	Description
Change look and feel of fields and icons to Redwood theme	In the web GUI, all icons and fields which take inputs, use the Redwood theme.
OJET Uplift to v11.1.6	The current OJET version uplifted to v11.16 and there is no design change compared to the from previous releases.
Destination	<ul style="list-style-type: none"> • Creating Redundancy Config > Peers > Destination now appears in a new dialog box of it's own.
Physical Interface menu option	<ul style="list-style-type: none"> • Physical Interface menu option has been added under Configuration > Network>. This allows you to add a Physical Interface
Add SIP Authentication profile	<ul style="list-style-type: none"> • Add SIP Authentication profile is a new option introduced in the SIP Registrar >> Sip Authentication >Add SIP Authentication Profile. <ul style="list-style-type: none"> – New field introduced – Methods. This allows you to select SIP methods from users (Registered or Anonymous). A blank entry means that none of the methods require authentication. You can choose any of the following options: INVITE, REGISTER, or REFER.

4

Caveats, Known Issues, and Limitations

Oracle provides behavioral information that you need to know about the release in the form of caveats, known issues, and limitations. A caveat describes behavior that you might not expect, and explains why the system works in a certain way. A known issue describes temporarily incorrect or malfunctioning behavior, and often includes a workaround that you can use until Oracle corrects the behavior. A limitation describes a functional boundary or exclusion that might affect your deployment.

Caveats in ECB 4.0.0

The following items describe caveats in the ECB 4.0.0 release.

LDAP SNMP Trap Support

LDAP SNMP traps are not supported in P-CZ 4.0.0. ECB 4.0.0 does not generate any LDAP failures for the following OID failures:

- 1.3.6.1.4.1.9148.2.1.8.9 apSmgmtLDAPCap
- 1.3.6.1.4.1.9148.3.2.1.6 apSysMgmtMIBLDAPServerStatusObjects
- 1.3.6.1.4.1.9148.3.2.1.6.1 apLDAPServerStatusTable
- 1.3.6.1.4.1.9148.3.2.1.6.1.1 apLDAPServerStatusEntry
- 1.3.6.1.4.1.9148.3.2.1.6.1.1.1 apLDAPConfigName
- 1.3.6.1.4.1.9148.3.2.1.6.1.1.2 apLDAPServerIpAddress
- 1.3.6.1.4.1.9148.3.2.1.6.1.1.3 apLDAPServerStatus
- 1.3.6.1.4.1.9148.3.2.4.2.10 apSysMgmtLDAPServerStatusGroup
- 1.3.6.1.4.1.9148.3.2.4.3.15 apSysMgmtLDAPServerStatusNotificationsGroup

HA Limitation

HA switchover causes TCP/TLS ports to be reset. This terminates the TCP/TLS calls that were in progress on the formerly active OECEB. New call setup over TCP/TLS, however, is successful.

Logging Limitation

Setting Logging to DEBUG simultaneously with greater than 300k configuration degrades system performance. Be sure to set Logging to WARNING or NOTICE under this condition, and only use DEBUG when absolutely required.

LDAP Support

Only the default "ecb" network can support LDAP. Additional networks cannot.

Registrar Support

Only the default "ecb" network can act as the registrar. Additional networks cannot.

ECB Sync Compatibility

ECB SYNC is supported only between nodes with the same configuration platforms. For example, X3 to X3, X5 to X5, VM to VM are supported.

Deprecated Ciphers

The system deprecates the following ciphers, adhering to recent OpenSSL changes intended to eliminate weak ciphers:

- All DES-CBC ciphers, including:
 - TLS_DHE_RSA_WITH_DES_CBC_SHA
 - TLS_RSA_EXPORT1024_WITH_DES_CBC_SHA

Oracle recommends that you remove any prior version configuration that uses these ciphers, and that you do not configure a security profile with the expectation that these ciphers are available. Note also that TLS profiles using the **ALL** (default) value for the **cipher-list** parameter no longer use these ciphers.



Note:

The ACLI may still display these ciphers when you run **cipher-list ?**, but the system does not support them.

Known Issues and Resolved Known Issues

The following tables lists Resolved Issues and Known Issues.

The Resolved Issues table provides the Service Request ID number, a description of the issue, any workaround, when the issue occurred, and when Oracle fixed the issue. The Known Issue table includes issues that remain open. Issues from previous releases that do not appear here do not apply to this release. You can also find information about resolved issues in the Build Notes for this release.

Table 4-1 Known Issues

ID Number	Description	Found In
29582306	PCZ3.1.0: ECB crashed while deleting 15k Dial plan entries.	3.2.0
33842985	ECB GUI : Sorting does not working in the Dialing Contexts page.	4.0.0
34267309	No Left-side Index/search in the browser for local Help files	4.0.0

Table 4-2 Resolved Issues

ID Number	Description	Fixed In
33683448	Session timeout/ page unresponsiveness observed on tags load	PCZ4.0.0p2

Table 4-2 (Cont.) Resolved Issues

ID Number	Description	Fixed In
34266944	The sip-manipulation cfgrules modify screen is blank. Workaround: sip-manipulation->cfgrules can be configured using the ACLI.	PCZ4.0.0p1
32928940	When invalid values are configured in SA attributes, verify-config errors are not observed. Ensure your configuration values are valid.	PCZ4.0.0

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

35395958	Unable to GET/DELETE ECB Dialing Context through REST API with name=value parameters.
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