Oracle® Communications Converged Application Server
Release Notes

Release 8.0
F43730-07
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ORACLE®

Oracle Communications Converged Application Server Release Notes, Release 8.0

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Contents

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.

Revision History

Table 1   Revision History

Date	Revision
December 2021	• Initial release • Removed Hardware Requirements section.
March 2022	• Updates for Diameter load balancing in patch 32772852
April 2022	• Updates for SCTP multihoming in patch 32856203
August 2022	• Updates software versions with OL8
January 2023	• Adds MPS in patch feature
June 2023	• Updates OCCAS variable

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New Features

Release 8.0 of the Oracle Communications Converged Application Server supports the following new features.

Cloud Native Environments

You can orchestrate the cloud-native Converged Application Server deployements using Kuberenetes with Docker containers. Docker containers bundle software and their dependencies to allow for quick deployment of bundled applications on cloud native environments. See the *Cloud Deployment Guide*.

REST APIs for Config and Runtime MBeans

You can use the new REST API to access the Config and Runtime MBeans. See the *Developer Guide*.

Dynamic Cluster for On-Prem

Dynamic Cluster domains help scale up and scale down on-prem deployments.

Third-Party Tools

The cloud native Converged Application Server may be used with two sets of third-party monitoring tools:

- The EFK stack for monitoring logs
- Prometheus and Grafana for monitoring KPI metrics

The EFK stack is the combination of Elasticsearch, FluentD, and Kibana working together to centralize log files for easy monitoring. FluentD gathers logs files from multiple nodes and sends them to Elasticsearch, which stores and indexes them, while Kibana provides the front-end web interface.

The cloud native Converged Application Serveri can also use the WebLogic Monitoring Exporter to export Prometheus-compatible metrics that are then exposed to Grafana, which visualizes the metrics over time to provide futher insights into the data.

See the *Cloud Deployment Guide*.

Features in Patches

The following features are available in patches for the Converged Application Server 8.0.

Table 1-1   Features in Patches

Feature	Available in Patch
Diameter Load Balancing	32772852
SCTP Multihoming	32856203
MPS Monitoring	33812428

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Deprecated Features

The following features have been deprecated in release 8.0.

Proxy Registrar

Configuring proxy registrars is no longer supported in release 8.0 and later.

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Software Versions

Use the following software versions when deploying the Converged Application Server.

Table 3-1   Software Versions

Software	Version
WebLogic Server	14.1.1.0.0
Java	• 1.8.0_301-b09 • 11.0.12
Oracle Linux	• 7.8 • 7.9 • 8.4

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Known Issues

The following table lists the known issues in this release and the workaround for each issue.

Table 4-1   Known Bugs in this Release

BugID	Description
20742195	The RFC 6665 specification states that proxy servers that do not add Record-Route header fields to the initial SUBSCRIBE request are then prohibited from adding Record-Route header fields to any associated NOTIFY requests. However, Converged Application Server does not check for Record-Route header fields in NOTIFY requests.
	Developers creating applications for Converged Application Server should not call Proxy.setRecordRoute(true), or proxyBranch.setRecordRoute(true) when handling notify requests that did not already set the Record-Route header field in a Register request.
20318523 / 20550145	Associating too many sessions with a single key causes performance problems.
	When using the new SipApplicationSession addIndexKey() method, ensure that the session keys you create are unique to subscribers. This strategy helps you avoid performance degradation problems.
	If your session keys are unique to subscribers and large reads still cause performance problems, try paging the result when iterating over the read index record.
	If your session keys are unique to subscribers and large writes still cause performance problems, try splitting large index records into smaller "chunks." That way you do not need to deserialize the full record to add or remove values from it.
18066581	Deploying SIP applications that declare ServletContainerInitializer can in some cases cause the onStartup() method to be called twice.
	You can prevent this by using the wlss.initializer.classes system property to specify and limit SIP specific container initializers.

Table 4-1   (Cont.) Known Bugs in this Release

BugID	Description
15957604	Applications should not try to inject a resource with the same name in both a field and method. For example, injecting a SipFactory resource with the same name into both the setMySipFactory method and the mySipFactory field is not supported. This behavior is prohibited by JavaEE specification EE.5.2.3, but this release of Converged Application Server does not specifically check for this error. Violating this rule can cause unexpected behavior.