

**Oracle® Communications Application
Session Controller**

Release Notes

Release 3.7.1

Revision 1

December 2018

Copyright ©2018, 2005, Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information on content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.

Contents

NNOS-E

Release Notes, Version 3.7.1

Technical Documentation	1-10
Release Note Revision History	1-11
OS-E Virtual Machine	1-12
Software Download and Commissioning Process	1-12
OS-E System Files Available for Download	1-12
Installing and Upgrading Release 3.7.1	1-13
Supported Upgrade Paths for Release 3.7.1	1-13
Special Considerations After Running the Upgrade	1-14
Release 3.7.1	1-15
Resolved Bug List	1-15
Customer Known Bug Listing	1-17
Patch Release 3.7.1.0.1	1-19
Resolved Bug List	1-19

NNOS-E

Release Notes, Version 3.7.1

This notice describes the current release of the Oracle OS-E® software. Systems running the OS-E software provide we-based application integration with IP communications as well as application level security, control, monitoring, and interoperability services for SIP-based Unified Communications.

Note: For existing customers who are upgrading from a prior release, the Covergence software components have been renamed under Oracle, Inc., as follows:

- Covergence—Now **Oracle**
- Session Manager—Now **Oracle Communications OS-E (OS-E)**
- CMS Web—Now **OS-E Management System**
- CXC-354—Now **OS-E**
- CXC-554—Now **OS-E**
- CVA—Now **Net-Net OS-E Virtual Machine (OS-E VM)**
- CLI prompt—Now **NNOS-E** (default)

You should review this notice for details about Release 3.7.1, information about operational considerations and known issues from prior releases, and for instructions on installing and upgrading to this release.

Technical Documentation

The Net-Net OS-E references in this documentation apply to the Net-Net OS-E operating system software that is used for Oracle Communications Application Session Controller (ASC).

Unless otherwise stated, references to Net-Net OS-E in this document apply to all of the Oracle and third-party vendor products that use Net-Net OS-E software.

Oracle provides the following documentation set in PDF format, viewable using Adobe Reader 5.0 or later. These PDF files are available when you download OS-E software from Oracle, from your customer Web portal, as well as from docs.acmepacket.com.

- *Oracle Communications Application Session Controller System and Installation Commissioning Guide*
- *Oracle Communications Application Session Controller System and Installation Commissioning Guide Release 3.7.0M4*
- *Oracle Communications Application Session Controller Management Tools*
- *Oracle Communications Application Session Controller System Administration Guide*
- *Oracle Communications Application Session Controller Session Services Configuration Guide*
- *Oracle Communications Application Session Controller Objects and Properties Reference*
- *Oracle Communications Application Session Controller System Operations and Troubleshooting*
- *Oracle Communications Application Session Controller Release Notes*
- *Oracle Communications Application Session Controller Single Number Reach Application Guide*
- *Oracle Communications Application Session Controller Web Services SOAP REST API*
- *Oracle Communications WebRTC Session Controller Installation Guide*

Note: Oracle provides updates to the manuals on a regular basis. Go to your Oracle Web portal for the latest files in PDF format.

Release Note Revision History

This section contains a revision history for this document.

Date	Revision Number	Description
June 28, 2013	Revision 1.00	<ul style="list-style-type: none"> Initial Release of 3.7.0 software.
December 30, 2013	Revision 1.01	<ul style="list-style-type: none"> Provides a list of the OS-E system files available for download.
October 20, 2015	Revision 1.02	<ul style="list-style-type: none"> Adds "Diffie-Hellman Logjam Attack Defense" to the "Known Problems, Restrictions, and Operational Considerations in 3.7.0" section.
May 17, 2016	Revision 1.03	<ul style="list-style-type: none"> Removes an unnecessary step from the "Upgrading To Release 3.7.0 From Release 3.6.0M5" section. Adds the <i>Oracle Communications Application Session Controller System Installation and Commissioning Guide Release 3.7.0M4</i> to the 3.7.0 doc set. Adds "Installing and Upgrading Release 3.7.0M4" section. Adds a note to the list of "OS-E System Files Available For Download" regarding the files available for release 3.7.0M4. Removes the following sections which are all available in the <i>Oracle Communications Application Session Controller System Installation and Commissioning Guide</i>: "Assigning a Management IP Address", "Using the Setup Script", "Logging on Using the OS-E Management System", "Building the Configuration File", "Creating Cluster Networks", "Installing the OS-E Software Updates", "Information on OS-E Licensing", and "Interoperating With SIP Vendors". Removes the "CDR Field Descriptions and Data Types" and "RADIUS Attributes, CDRs and RADIUS Servers" sections which are available in the <i>Oracle Communications Application Session Controller System Administration</i> guide. Removes the "New Event Log Messages" and "Downloading Optional Management Files" sections which are available in the <i>Oracle Communications Application Session Controller Management Tools</i> guide.
November 2018	Revision 2.0	<ul style="list-style-type: none"> GA release of OS-E 3.7.1 software.
December 2018	Revision 2.1	<ul style="list-style-type: none"> GA release of OS-E 3.7.1.0.1 software

OS-E Virtual Machine

The OS-E software, available as a VMware® or KVM, runs on x86-based servers.

For complete information on downloading and running the VM on compatible x86-based servers, refer to the Oracle Communications OS-E Installation and Commissioning Guide.

Software Download and Commissioning Process

The software download mechanism allows new and existing customers to acquire OS-E software directly from Oracle. Using secure URLs that can be accessed over the internet, Oracle provides all necessary software downloads for USB creation, product licensing, and commissioning of your selected hardware.

As part of each download, and depending on your actual requirements, Oracle provides the following:

- Oracle Boot Media Creator and the OS-E Release 3.7.1 software.
- Feature licenses.
- Documentation on how to create a OS-E USB stick for commissioning the software on your selected hardware.
- Standard set of OS-E technical publications.

If not included in the shipment, you will need to provide a USB stick not less than 2GB storage to handle OS-E software downloads. Oracle has tested a variety of USB sticks available from current suppliers and manufacturers. Most USB sticks manufactured today will work.

For complete information on accessing the Oracle download server, creating an installation USB, and commissioning a OS-E device, refer to the Oracle Communications OS-E Installation and Commissioning Guide.

OS-E System Files Available for Download

The OS-E system files available for individual download are as follows:

- Oracle Communications Application Session Controller E3.7.1m0 Installation ISO image
- Oracle Communications Application Session Controller E3.7.1m0 License Document

Note: This list applies to 3.7.1 release except for 3.7.0M4. For an accurate list of 3.7.0M4 OS-E system files available for individual download, see the *Oracle Communication Application Session Controller 3.7.0 Maintenance Release Guide*.

Installing and Upgrading Release 3.7.1

For release 3.7.1, as 3.7.0M4, the OS-E runs on Oracle Linux and uses yum to install and update RPM files. In the releases prior to 3.7.0M4, the OS-E install package came with its own custom kernel.

ASC 3.7.1 needs to be installed on Oracle Linux Release 7.5. Refer *Oracle Communications Application Session Controller System Installation and Commissioning Guide Release 3.7.1* for installation instructions.

Supported Upgrade Paths for Release 3.7.1

Two direct upgrade paths to 3.7.1 are supported:

- From the latest available patch release of the 3.7.0M3 release.
- From the latest available patch release of the 3.7.0M4 release.

Note: To upgrade to 3.7.1 from a release prior to either 3.7.0M3 or 3.7.0M4, you must first upgrade the OS-E to the corresponding latest available patch of 3.7.0M3 or 3.7.0M4. For information on upgrading to 3.7.0M3 or 3.7.0M4, see the *Oracle Communications Application Session Controller Release Notes Release 3.7.0*.

Special Considerations After Running the Upgrade

OS-E creates an alternate, inactive directory that captures the files associated with the release from which you are upgrading. This inactive directory holds customer-created configuration files and phone configurations. You may need to access this directory to copy these custom files to the new active release directory. Otherwise, for example, SIP phones may not work properly.

The release files associated with the older release are moved to a directory of the form:

```
/cxc_rel/app-<slot 1-3>
```

where "app" is a literal text string, followed by the version and release numbers that are explicit to the release software.

Oracle recommends that you place a copy of any uploaded configuration or phone files into a common directory for easy access when upgrades are completed. For example, copy the files into the `/cxc_common/` directory so that the files remain there after any upgrade.

Release 3.7.1

This section lists the resolved and known bugs for this release.

Resolved Bug List

The following table summarizes the critical resolved bugs in this release:

Bug#	Severity	Title
28849989	2	Crashes impacting services. Customer had to downgrade p9d due to issues in p9k
28248253	2	NICE recording failures with 0.0.0.0
28137451	1	Web Service process restarted
27706216	2	after the upgrade to M3P9H version, NICE Voice recording are failing
27462887	3	UUI header not modified if ASC hunts to next server after 503
27235606	2	2 segementation faults ~1 hour apart
27227421	2	PB Buffers still exhausted in 37m3p12
27130329	2	CRM issue reported with workspace - call recording and playback issue
27025145	2	SIP Segmentation Fault - Instruction Pointer Symbol not found
26795470	2	Exception - Assertion: 0 && "outstanding blocks in MemArenaCacheReset()"
26451640	4	Call log missing large/fragmented INVITE
26330109	2	NICE call reinvite causes crash in SIP Process.
26314742	3	IntfNetlinkPacket + 0x94 intf/intf.c:313

Bug#	Severity	Title
26247359	3	Introduction wav file distorted when G722 codec used
25752838	2	CDR Changes fo various fields on failed call on upgrade m3p5 to m3p8
25688715	2	CXC was unable to send REGISTERs to AS1
25612028	3	Media-scanner working now, but custom accounting not showing "long tone detected
25470296	3	SNMP Community configured but SNMP requests for comm not recognized
25450894	2	Media file play issue when Avaya shuffles and ASC Parks call
25417219	4	Memory leak related to NICE recordings
25366137	2	Custom Accounting Issues remain after Bug 24934904
25183726	4	CVE-2016-0763 Apache Tomcat upgrade required.
24789188	2	musswdc-sbc23-3700 system hung and no access
24787351	2	Sbc converts 180 ringing response to 183 session progress
24654741	2	Unsuccessful VRRP failover:Eth8 to Eth9 failover on SBC 21 was unsuccessful
24434826	3	SIP fault when interfacing with Prexip
23719650	2	ASC clusters are not staying connected to the test NFS share
23710207	2	Unidirectional audio after Nuance runs into busy endpoint

Bug#	Severity	Title
23506066	2	com.covergence.genout.share.db.DBException in ASC m4 Call Logs Page
22756105	3	TCP to UDP routing for NOTIFY causing 400 Bad Request
21749925	3	0 && "outstanding blocks in MemArenaCacheReset()"
20326809	2	Proxy-Transactions counter increments without actual proxy transactions increase
19762096	3	[PD00061210]kernel panic during restore-stick-create

Customer Known Bug Listing

The following table summarizes the customer known bugs and associated Customer Impact statement in this release:

Bug#	Severity	Title	Customer Impact
28496160	3	from-tag and to-tag of replace header incorrect in REFER replace header	Specific REFER call flow is failing in ASC. There is no workaround.
28297565	4	Secure connection to Web-Services errors with ERR_SSL_VERSION_OR_CIPHER_MISMATCH	Unable to connect to web-services with HTTPS. when issue happens, need to restart web service
24735734	3	sip fault- 084b1de7 rtp_xml_read_context_get_seek_offset + 0x7 rtp/rtp_xml.c:486	System will crash in the specific race condition scenario. There is no workaround.
24581002	3	ASC "302 Moved temporarily" and routes the call based on a contact address	Routes the call to wrong contact. There is no workaround.
28948311	3	Tools- Update software doesn't work	software upgrade is impacted.

Bug#	Severity	Title	Customer Impact
28963000	2	Insert user/show user/access user information under directory service doesn't work per PostgreSQL upgrade	Directory service doesn't work. After adding users from GUI, it cannot be inserted to database end users, nor can be generated to user.xml.
28948089	3	show system-info shows unknown product model for ASC on X7-2	Error system information creates confusion.
28980973	4	More issues found for the tomcat backflash issue.	"Call record" can't be displayed for accounting call

Patch Release 3.7.1.0.1

This section lists the resolved bugs for this patch release.

Resolved Bug List

The following table summarizes the critical resolved bugs in this release:

Bug#	Severity	Title
25394031	2	ASC sends BYE when Web Services Joins call
28496160	3	from-tag and to-tag of replace header incorrect in REFER replace header
28297565	4	Secure connection to Web-Services errors with ERR_SSL_VERSION_OR_CIPHER_MISMATCH
24735734	3	sip fault- 084b1de7 rtp_xml_read_context_get_seek_offset + 0x7 rtp/rtp_xml.c
24581002	3	ASC "302 Moved temporarily" and routes the call based on a contact address
26477388	2	NICE recording requests rejected with 480
28963565	3	some pages can not be shown correctly on Status\Trends
28948311	3	Tools- Update software doesn't work
28963000	2	Insert user/show user/access user information under directory service doesn't work per PostgreSQL upgrade
28968322	4	"Document" link reported the java NullPointerException in 371m0
28980973	4	More issues found for the tomcat backflash issue
28705088	2	ASC is failed to send sip:100 Trying message due to writing socket error

Bug#	Severity	Title
28948089	3	show system-info shows unkonwn product model for ASC on X7-2
28948068	3	show system-info shows incorrect OPENSSL version

Note: Known problems in release 3.7.1 have now been resolved in patch release 3.7.1.0.1.