

Oracle® Communications Evolved Communications Application Server

Release Notes

Release 7.1

E66300-01

May 2016

These release notes describe the new features in release 7.1 of Oracle Communications Evolved Communications Application Server (OCECAS). They also describe updates to the documentation.

New Features

This section describes new features and feature enhancements in this release of OCECAS.

XCAP

Utilization of XML configuration access protocol (XCAP) to provide Ut interface support for managing configuration of supplementary services. Includes ability to integrate with an existing HSS for subscriber profile data and querying Supplementary Service data.

The following control flow Activities have been added in support of XCAP: XCAP Authorize, XCAP Fetch and Store Document, XCAP Process Document, XCAP Update Document.

IMS Centralized Services

Ensures that operators with existing MSCs that are not enhanced for service centralization can deliver service to legacy circuit switched networks. OCECAS integrates Oracle Communications Converged Application Service Controller (OCCAS-SC) to integrate with an MSC that is not enhanced for ICS and provide IMS centralized services.

Supports synchronisation of supplementary service (SS) data changes to both the Home Subscriber Server (HSS) and the Home Location Register (HLR).

VoWiFi Enhancements

VoWiFi support includes the following enhancements:

- Support for multiple subscriber addresses
- Detecting location change
- Support of SIP forking
- Service continuity for inter-UE transfer

Fine-Grained Authorization of User Actions

Supports fine-grained authorization of user actions through the assignment of roles, which have associated permissions. Uses the underlying Oracle Platform Security Services (OPSS) framework, which provides security to Oracle Fusion Middleware, to implement the authorization of user actions.

SIP Chaining

A standards-based mechanism that enables OCECAS to co-exist with other SIP servlets, application servers, and applications, which can often perform specialized tasks. These other application servers and applications can reside on the same node or on different nodes.

Network Function Virtualization

Network function virtualization (NFV) virtualizes network node functions into building blocks that you can connect to create communication services. One or more virtual machines run OCECAS network functions on industry-standard, high-volume servers, switches, storage, or even cloud computing infrastructure, instead of using custom hardware appliances. Employs Oracle Communications Application Orchestrator as a virtual network function (VNF) manager.

SNMP Event Management

Generates SNMP events during runtime processing. Events are converted to SNMP Traps and sent to Oracle Enterprise Manager (OEM), the Oracle solution for SNMP Trap Management. SNMP traps represent unique application events that are sent to the NMS and logged.

Bundling and Copying of Change Sets

Bundling of change sets allows you to combine change sets and deploy them as a single unit. Bundling makes deployment and rollback of a group of change sets as easy as deploying and rolling back a single change set.

Copying a change set enables you to make changes to a change set that has been deployed to the staging or production environments. Ordinarily, you cannot make changes to a change set in the staging or production environments, even if it has been retracted. You can, however, make changes to the copy.

Import and Export of Control Flows

RESTful API provides ability to import and export control flows.

Additional Control Flow Activities

Includes the following additional control flow Activities:

Table 1 *New Control Flow Activities*

Activity	Description
Delete	Deletes a context field entry.

Table 1 (Cont.) New Control Flow Activities

Activity	Description
Maths	Enables basic numerical operations such as addition, subtraction, multiplication, division and modulus.
Send Inter-Session Event	Sends an event from one SIP application session to another.
Send Subscription Notify	Sends a notification on an existing subscription notifier session.
Start Forked Session	Starts a forked session between initiating endpoint and a set of destination endpoints defined in the activity.
Start Subscription Notifier Session	Starts OCECAS running as a SIP Subscription Notifier as a result of receiving a SIP SUBSCRIBE request.
Start Timer	Starts a timer for a configurable duration.
Subscribe Event Package	Sends a SIP Subscribe request.
XCAP Authorize	Gathers the XML, HTTP method and node selector from context on which to operate.
XCAP Fetch and Store Document	Loads subscriber data as XCAP XML into the context Map.
XCAP Process Document	Processes the XCAP inbound configuration and the Subscriber data as XML documents.
XCAP Update	Updates subscriber data from XCAP XML into the context Map.

Documentation Updates

The following updates have been implemented in the Release 7.1 OCECAS documentation.

- *Oracle Communications Evolved Communications Application Server Concepts*
 - "About XCAP and Supported Supplementary Services"
 - "About SIP Chaining"
 - "About Oracle Platform Security Services"
 - "About Creating Multimedia Services" changed to "About OCECAS Services"
 - * New section: "About Service Centralization"
 - "About Session Design Center" updated to describe triggering of HTTP message control flows.
 - Updated Figure 6-1 "ECAS Components and Their InterCommunication"
 - New chapter, "About Network Function Virtualization"
- *Oracle Communications Evolved Communications Application Server System Operator's Guide*
 - New appendix, "Activities Reference", describes the Activities available for creating control flows in the Session Design Center, including their parameters and exits.
 - The "Default Subscriber Store Schema" has been updated.
 - The following section has been added to "Working with Control Flows":

- * "Creating An SNMP Event"
- The following section has been added to "Working with Change Sets":
 - * "Bundling Change Sets"
 - * "Copying Change Sets"
- The following sections have been updated in "Accessing Service Data with the RESTful API":
 - * "Exporting a Control Flow"
 - * "Importing a Control Flow"
- *Oracle Communications Evolved Communications Application Server System Administrator's Guide*
 - "About Configuring Inter-UE Transfer"
 - "About Configuring an MSC Not Enhanced for ICS"
 - "About Configuring IMS Centralized Services"
 - "About Configuring SIP Chaining"
 - "Managing Network Function Virtualization"
 - "Managing Alarms" updated to "Managing SNMP Events"
 - "Backing Up and Restoring"
 - "Alarms Reference" updated to "SNMP Events Reference"
- *Oracle Communications Evolved Communications Application Server Installation Guide* has been updated to address several issues.
 - "Installing OCCAS-SC"
 - "Initializing the OPSS Repository"
 - "Post-Configuration Tasks for Your Domains"
 - "Configuring OCECAS and OCCAS-SC Integration"
 - "Upgrading OCECAS 7.0 to 7.1"
 - "Dropping the OPSS Repository" in "Uninstalling OCECAS"
- *Oracle Communications Evolved Communications Application Server Compliance Guide* has been updated.

Compliance statements have been added for IETF document RFC 4745, "Common Policy: A Document Format for Expressing Privacy Preferences" and IETF document RFC 4825, "Extensible Markup Language (XML) Configuration Access Protocol (XCAP)."
- *RESTful API Reference* has been replaced by *SDC RESTful API Reference* and *UDR RESTful API Reference*.
- All outstanding documentation bugs have been resolved.

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