

**Oracle® Communications  
EAGLE Application Processor**

Feature Notice

Release 16.0

**E52481-01 Revision 2**

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Oracle Communications EAGLE Application Processor Feature Notice, Release 16.0

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# Chapter 1

## EAGLE Application Processor

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## Feature Notice

### Introduction

Feature Notices are distributed to customers with each new release of software.



This Feature Notice provides an overview of the features included in Oracle Communications EAGLE Application Processor (EPAP) Release 16.0. This Feature Notice also includes information about locating the Release Notice and other customer documentation on the Customer Support Site. See [Locate Product Documentation on the Oracle Help Center Site](#).

### New Features for EPAP Release 16.0

EPAP Release 16.0 includes the following features:

- [Core Software Version Updates](#)
- [EPAP Feed to External Query Server](#)
- [Extended EPAP DN Block Capacity](#)
- [File Complete Alarm after Completion of PDB Export](#)
- [IMSI Change with Single PDBI Command](#)
- [RTDB Reload from Remote Time Interval](#)
- [Secure GUI Access](#)
- [SNMP Interface on EPAP](#)
- [Standalone PDB on EPAP](#)
- [Supported Java Client](#)

### Compatibility

EPAP Release 16.0 is fully compatible with EAGLE Release 46.0 and EAGLE Element Management System (E5-MS) Release 46.0. Real-Time Database (RTDB) backup files created prior to EPAP 16.0  cannot be directly used  to restore the RTDB in EPAP 16.0. Contact My Oracle Support for assistance in restoring RTDB backup files created prior to EPAP 16.0.

Provisioning Database (PDB) backup files created in EPAP 15.0 can be used to restore the PDB in EPAP 16.0.

**Table 1: Compatibility Matrix - EPAP 16.0**

Product	Release	Compatibility
EAGLE	45.0 or older	NC
	46.0	FC
E5-MS	45.0	N/A
	46.0	FC

Legend:

FC - Fully Compatible

NC - Not Compatible

N/A – Not Applicable

## Core Software Version Updates

The underlying operating system for EPAP is updated to CentOS Version 5.10, and the underlying database is updated to MySQL Version 5.6.

## EPAP Feed to External Query Server

The EPAP Feed to External Query Server feature allows the EPAP to provide a copy of the EPAP Provisioning Database (PDB) to an External Query Server to allow offline query support of the Number Portability database. The Query Server data is synchronized using MySQL 5.6 Replication. A Query Server can connect to only one EPAP. More than one Query Server can be deployed in the system in a master-slave relationship, also known as daisy-chained Query Servers.

## Extended EPAP DN Block Capacity

The EPAP DN Block capacity is extended from 100,000 ranges to 200,000 ranges. A new table is added to support this capacity increase.

## File Complete Alarm after Completion of PDB Export

A File Complete alarm (*Export PDB to file completed successfully*) is generated after the PDB file export operation is finished.

## IMSI Change with Single PDBI Command

The `upd_sub` command creates a new IMSI and deletes the previous IMSI associated with a specific DN. The `upd_sub` parameters are `iid nnn`, `imsi`, and `nimsi`.

The `upd_sub` command is issued to modify the IMSI with one command instead of the previous method of requiring two commands: one command to create a new IMSI entry, and a second command to delete the old IMSI entry.

Previously when an IMSI was reported as lost or stolen, the `ent_sub` command was used to create a new IMSI and associate the existing DN to this new IMSI. The old IMSI was left without an associated DN and was not automatically deleted from the Provisioning Database. These orphan IMSIs required deletion by a manual process to erase the unassigned entries.

## RTDB Reload from Remote Time Interval

Reloading the Real-Time Database (RTDB) from the remote EPAP server and reloading the Service Module cards completes within one hour.

## Secure GUI Access

As an enhancement to system security, the default protocol for GUI access to the EPAP is changed from HTTP to HTTPS protocol. EPAP uses TCP port 443 for HTTPS and port 80 for HTTP. The customer must reconfigure the existing installation for HTTPS prior to upgrading the EPAP software to EPAP Release 16.0. During this reconfiguration, if the customer uses a firewall, the firewall must be configured to allow traffic on the HTTPS port 443.

## SNMP Interface on EPAP

With the SNMP Interface on EPAP feature, the EPAP can be managed directly by an Element Management System (EMS) in the standard SNMP interface. The SNMP Interface on EPAP feature supports the following:

- Configuration of EMS is allowed with various parameters from the `epapconfig` utility.
- The EPAP sends SNMPv2c trap messages to the configured EMS on the basis of the configurable parameter SNMP Alarm Feed. If SNMP Alarm Feed is set to *on*, the traps are sent to the EMS. If SNMP Alarm Feed is set to *off*, the traps are not sent to the EMS. SNMP trap messages can be sent to a maximum of five EMSs.
- The EMS can receive and set the value of one MIB element *resyncVar*.
- The EMS can resynchronize its alarm database with the active alarms on the EPAP by sending a SET request to the EPAP to set the object value of *resyncVar* to 1.

All alarms can be reported via this SNMP Northbound Interface. Visual alarms are allowed in the GUI, and also reported via the SNMP Northbound Interface.

## Standalone PDB on EPAP

This enhancement allows the EPAP to operate in a standalone mode with only the Provisioning Database (PDB). An EPAP operating in standalone or PDB-only mode runs on a single E5-APP-B server. Geographical redundancy is permitted, which allows the Active and Standby PDB in different locations. An EPAP can operate without a local mate. This enhancement also increases the PDBI performance.

EPAP operating both PDB and Real-time Database (RTDB), or Mixed EPAP, continues to be available. EPAP operating in standalone mode, or PDB-only mode, is optional and must connect to a non-provisioning EPAP with RTDB to load the EAGLE Service Module cards. The PDB-only EPAP



software supports all interfaces currently available in Mixed EPAP configurations related to PDB or Operations and Maintenance (O & M). Both mixed EPAP mode and standalone (PDB-only) mode support a maximum of 22 non-provisioning sites (44 servers). When PDB and RTDB coexist on the provisioning EPAP pair, the limit increases to 48 servers.

## Supported Java Client

The EPAP GUI supports Java 1.7 client.

## My Oracle Support (MOS)

MOS (<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 MOS 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 MOS, Select **2**

You will be connected to a live agent who can assist you with MOS registration and opening a support ticket.

MOS is available 24 hours a day, 7 days a week, 365 days a year.

## Related Specifications

For information about additional publications that are related to this document, refer to the Oracle Help Center site. See [Locate Product Documentation on the Oracle Help Center Site](#) for more information on related product publications.

## Customer Training

Oracle University offers expert training on Oracle Communications solutions for service providers and enterprises. Make sure your staff has the skills to configure, customize, administer, and operate your communications solutions, so that your business can realize all of the benefits that these rich

solutions offer. Visit the Oracle University web site to view and register for Oracle Communications training: [education.oracle.com/communication](http://education.oracle.com/communication). To reach Oracle University:

- In the US, please dial 800-529-0165.
- In Canada, please dial 866-825-9790.
- In Germany, please dial 0180 2000 526 (toll free) or +49 8914301200 (International).
- In Spain, please dial +34 91 6267 792.
- In the United Kingdom, please dial 0845 777 7 711 (toll free) or +44 11 89 726 500 (International).

For the appropriate country or region contact phone number for the rest of the world, please visit Oracle University's web site at <http://www.oracle.com/education/contacts>.

## 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 subheading, click the **Oracle Communications documentation** link.

The Communications Documentation page appears. Most products covered by these documentation sets will appear under the headings "Network Session Delivery and Control Infrastructure" or "Platforms."

4. Click on your Product and then the 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.