

Oracle® Communications
EAGLE LNP Application Processor

Release Notice

Release 10.1.x

E76227 Revision 8

July 2020

ORACLE®

Oracle Communications, EAGLE LNP Application Processor Release Notice, Release 10.1.x

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Table of Contents

Table of Contents	iii
List of Tables	iv
Chapter 1: Introduction	1
ELAP Introduction	2
Revision History	2
Chapter 2: Feature Descriptions	3
504 Million LNP Entries	4
Hardware Requirements	4
Enhancement Bugs	5
Chapter 3: ELAP Release 10.1.x Media and Documentation.....	6
Media Pack	7
Documentation Pack.....	8
Chapter 4: ELAP Release 10.1.x Supported Upgrade Paths.....	9
Supported Upgrade Path.....	10
Chapter 5: Product Compatibility	11
Product Compatibility	12
Chapter 6: Resolved and Known Bugs	13
Severity Definitions.....	14
Resolved Bug List	15
Customer Known Bug List.....	18
Chapter 7: Oracle References and Services	20
My Oracle Support (MOS).....	21
Emergency Response	21
Customer Training.....	22
Locate Product Documentation on the Oracle Help Center Site	22
Locate Product Release Software on the Oracle Software Delivery Cloud Site	23

List of Tables

Table 1: Max Data.....	4
Table 2: Media Pack Contents for 10.1.....	7
Table 3: Documentation Pack Contents.....	8
Table 4: ELAP Release 10.1.x Upgrade Path.....	10
Table 5: ELAP Release 10.1.x Compatibility with EAGLE and LSMS.....	12
Table 6: ELAP Release 10.1.5.0.0-101.19.0 Resolved Bugs (April 2020).....	15
Table 7: ELAP Release 10.1.4.0.0-101.16.0 Resolved Bugs (April 2019).....	16
Table 8: ELAP Release 10.1.3.0.0-101.15.0 Resolved Bugs (January 2019).....	16
Table 9: ELAP Release 10.1.2.0.0-101.14.0 Resolved Bugs (February 2018).....	16
Table 10: ELAP Release 10.1.1.0.0-101.13.0 Resolved Bugs (October 2017).....	16
Table 11: ELAP Release 10.1.0.0.0-101.10.0 Resolved Bugs (August 2016).....	17
Table 12: ELAP Release 10.1 Customer Known Bugs (April 2020).....	18

Chapter 1: Introduction

Topics:

ELAP Introduction
Revision History

This Release Notice includes feature descriptions, supported hardware, and media and documentation pack contents; and identifies the supported upgrade paths. This document includes listings for both the resolved and known bugs for this release. Directions for accessing key Oracles sites and services are also identified in the Oracle References and Services chapter.

Release Notices are included in the documentation pack made available with every software release.

ELAP Introduction

Oracle Communications EAGLE LNP Application Processor (ELAP) is application software that runs on each Multi-Purpose Server (MPS).

Revision History

Date	Revision	Description
01/14/2019	5	Updated with 10.1.3 changes
04/05/2019	6	Update with 10.1.4 changes
04/05/2020	7	Update with 10.1.5 changes
07/01/2020	8	Updated the Compatibility section with the reference to EAGLE Compatibility Matrix

Chapter 2: Feature Descriptions

Topics:

- 504 Million LNP Entries
- Hardware Requirements
- Enhancement Bugs

This chapter provides a summary of each feature released in ELAP 10.1.x.

504 Million LNP Entries

This feature increases the capacity from 384 Million to 504 Million Telephone Number (TN) or Number Pool Block (NPB) records. This feature also removes incremental capacity control in ELAP. This feature increases the TN count; the maximum allowed count for all other data types remains unchanged.

Table 1. Max Data

Value	LNP 384M Solution	LNP 504M Solution
TN	384,000,000	504,000,000
NpaNxx	350,000	350,000
Lrn	200,000	200,000
Mr	2,000,000	2,000,000
LrnMr	2,000,000	2,000,000
OGTT	200,000	200,000

The default system capacity is 120M. The user is able to configure the system capacity to 504M by setting the MAX_RECORDS feature value to 504 on the LSMS.

See *Administration and LNP Feature Activation User's Guide* for more information on configuring quantity keys.

Hardware Requirements

This feature requires the following hardware:

- Two (2) E5-APP-B cards (either -01 or -02) to make an ELAP pair
- Two (2) E5-APP-B -02 cards to make an LSMS pair
- SMxG card(s) at the EAGLE

Enhancement Bugs

ELAP 10.1 supports the following enhancement bugs:

Bug Number and Title	Description
20326475 Remove ELAP incremental capacity control	Removes capacity control from the ELAP product suite.
20714535 ELAP Integration with mainstream TPD as supported on the E5-APP-B card	The operating platform for ELAP is upgraded from TPD 5.5.x to TPD 7.0.x with the ELAP 10.1 release.

Chapter 3: ELAP Release 10.1.x Media and Documentation

Topics:

Media Pack
Documentation Pack

Oracle Communications software is available for electronic download on the Oracle Software Delivery Cloud (OSDC). Documentation is delivered electronically on the Oracle Help Center (OHC). Both the software Media Pack and Documentation Pack are listed in this chapter.

Media Pack

All components available for download from the Oracle Software Delivery Cloud (<https://edelivery.oracle.com/>) are in Table 2: Media Pack Contents.

Note: This list is accurate at the time of release, but is subject to change. See the Oracle Software Delivery Cloud website for the latest information.

Table 2: Media Pack Contents for 10.1

Description
Oracle Communications EAGLE LNP Application Processor (10.1.5.0.0-101.19.0)
Oracle Communications EAGLE LNP Application Processor (10.1.4.0.0-101.16.0)
Oracle Communications EAGLE LNP Application Processor (10.1.3.0.0-101.15.0)
Oracle Communications EAGLE LNP Application Processor (10.1.2.0.0-101.14.0)
Oracle Communications EAGLE LNP Application Processor (10.1.1.0.0-101.13.0)
Oracle Communications EAGLE LNP Application Processor (10.1.0.0.0-101.10.0)
Oracle Communications Tekelec Platform Distribution 7.0.3-86.40.0 - 64-bit

Documentation Pack

All documents available for download from the Oracle Help Center (OHC) site (<http://docs.oracle.com/en/industries/communications/>) are listed in Table 3: Documentation Pack Contents.

Note: This list is accurate at the time of release, but it is subject to change. See the Oracle Help Center for the latest information.

Table 3: Documentation Pack Contents

ELAP Core Manuals
Release Notice
Administration and LNP Feature Activation Guide
LNP Database Synchronization User's Guide
Security Guide
System Health Check Guide
Hardware, Installation, and Maintenance
Alarms and Maintenance
Application B Card Hardware and Installation Guide
Installation/Upgrade Documentation
Full Upgrade Guide
Incremental Upgrade/Installation Guide
Reference Documentation
Licensing Information User Manual
TPD Licensing Information User Guide

Chapter 4: ELAP Release 10.1.x Supported Upgrade Paths

Topics:

Supported Upgrade Path

This release has been tested for upgrade from specific prior releases. This chapter contains the exact paths for upgrade. Please verify your current installed release is listed on a valid upgrade path.

Supported Upgrade Path

The possible upgrade path to ELAP 10.1.x is listed Table 4.

Table 4: ELAP Release 10.1.x Upgrade Path

From	To
ELAP Release 10.0	ELAP Release 10.1.x

Chapter 5: Product Compatibility

Topics:

Product Compatibility

This section shows release-specific compatibility with other related products.

Product Compatibility

Refer to EAGLE Compatibility Matrix for the product compatibility between this product release and the releases of other products. The compatibility table shown below is retained only for historical purposes.

Table 5 shows ELAP 10.1.x compatibility with other products.

Table 5: ELAP Release 10.1.x Compatibility with EAGLE and LSMS

Product	Release	Compatibility
EAGLE	<46.0	NC
	46.0, 46.1, and 46.2	NC
	46.3 and later	FC
LSMS	<13.0	NC
	13.0 and 13.1	NC
	13.2 and 13.3	FC

Note: Customers should upgrade EAGLE to release 46.3 and later before ELAP is upgraded to release 10.1.x.

Legend:

- FC – Fully Compatible
- NC – Not Compatible

Chapter 6: Resolved and Known Bugs

Topics:

Severity Definitions
Resolved Bug List
Customer Known Bug List

This chapter lists the resolved and known bugs for ELAP release 10.1.x

These lists are distributed to customers with a new software release at the time of General Availability (GA) and are updated for each maintenance release.

Severity Definitions

The problem report sections in this document refer to bug severity levels. Definitions of these levels can be found in the publication, *TL 9000 Quality Management System Measurement Handbook*.

Problem Report: A report from a customer or on behalf of the customer concerning a product or process defect requesting an investigation of the issue and a resolution to remove the cause. The report may be issued via any medium.

Problem reports are systemic deficiencies with hardware, software, documentation, delivery, billing, invoicing, servicing, or any other process involved with the acquisition, operation, or performance of a product. An incident reported simply to request help to bring back the service or functionality to normal without the intent to investigate and provide a resolution to the cause of the incident is not a problem report.

1. **Critical:** Conditions that severely affect the primary functionality of the product and because of the business impact to the customer requires non-stop immediate corrective action regardless of time of day, or day of the week as viewed by a customer on discussion with the organization such as:
 - Product inoperability (total or partial outage),
 - A reduction in the capacity capability, that is, traffic/data handling capability, such that expected loads cannot be handled,
 - Any loss of emergency capability (for example, emergency 911 calls), or
 - Safety hazard or risk of security breach.
2. **Major:** Product is usable, but a condition exists that seriously degrades the product operation, maintenance, or administration, etc., and requires attention during pre-defined standard hours to resolve the situation.

The urgency is less than in critical situations because of a less immediate or impending effect on product performance, customers, and the customer's operation and revenue such as:

- Reduction in product's capacity (but still able to handle the expected load),
 - Any loss of administrative or maintenance visibility of the product and/or diagnostic capability,
 - Repeated degradation of an essential component or function, or
 - Degradation of the product's ability to provide any required notification of malfunction.
3. **Minor:** Other problems of a lesser severity than “critical” or “major” such as conditions that have little or no impairment on the function of the system.
 4. **Minor, No Loss of Service:** Oracle severity beyond what is defined by TL 9000.

The numbered severity levels in the tables below correspond to these definitions of 1–Critical, 2–Major, 3–Minor, 4–Minor, No Loss of Service.

Resolved Bug List

The tables in this section list bugs resolved in the following builds:

- ELAP 10.1.5.0.0-101.19.0
- ELAP 10.1.4.0.0-101.16.0
- ELAP 10.1.3.0.0-101.15.0
- ELAP 10.1.2.0.0-101.14.0
- ELAP 10.1.1.0.0-101.13.0
- ELAP 10.1.0.0.0-101.10.0

The resolved bug table shows an impact statement for the severity 1 and 2 bugs as well as severity 3 bugs associated with an SR.

Note: Resolved bugs are sorted in ascending order by severity and then by bug number.

Table 6: ELAP Release 10.1.5.0.0-101.19.0 Resolved Bugs (April 2020)

Bug Number	S R	Severity	Title	Customer Impact
30155885		3	CS: ELAP GUI Automatic RTDB Backup Return Internal Error	
30310106	Y	3	SR: translog tar file contains data which is one day older than the filename suggests	Before the fix, it was possible for data in the file to be one day older than the file name.
30328197	Y	3	SR: ELAP translog rolls late causing new days data to be written to old log.	Before the fix, it was possible for data in the file to be one day newer than the file name.
30452294		3	ELAP PROV Process utilizing high memory resources	
30586713		3	Update to TPD 7.6.2 to include security updates.	
30615417		3	Syscheck not running from elapdev user in ELAP after TPD upgrade to 7.6.2	
30660304		4	ELAP Password Aging expansion to 180 days maximum	
30697753		4	E5-APP-B ELAP Security Hardening	
30738096		4	Upgrade MySQL to latest available version	
30759223		4	Upgrade perl-TermReadkey DRBD and jsch	

Table 7: ELAP Release 10.1.4.0.0-101.16.0 Resolved Bugs (April 2019)

Bug Number	SR	Severity	Title	Customer Impact
29269703		3	Not able to load all 18 SCCP cards simultaneously with latest TPD 7.6.0.0.0_88.54.0-OracleLinux6.9	

Table 8: ELAP Release 10.1.3.0.0-101.15.0 Resolved Bugs (January 2019)

Bug Number	SR	Severity	Title	Customer Impact
27267659	Y	3	BinOS permissions incorrectly set for switch configuration	The switch configuration may fail when the firmware of the switch needs to be updated as part of the configuration.
27407643	Y	3	Voltage errors reported on systems	The system occasionally reports false voltage error alarms.
28458822		3	Update to TPD 7.6 to include security updates	
28746305		4	Upgrade all 3rd party packages to latest versions	

Table 9: ELAP Release 10.1.2.0.0-101.14.0 Resolved Bugs (February 2018)

Bug Number	SR	Severity	Title	Customer Impact
27233270	Y	2	cmha process is consuming all of the system memory	Memory leak in the cmha process is consuming all available system memory resulting in an eventual system lockup.

Table 10: ELAP Release 10.1.1.0.0-101.13.0 Resolved Bugs (October 2017)

Bug Number	SR	Severity	Title	Customer Impact
26108977	Y	3	Prov process consuming excessive memory	Failures are reported for dbaudit and automatic backup due to a memory allocation issue.
19094483		4	[221883] Unnecessary menu displayed in JCTerm	
19357108	Y	4	ELAP reporting Corrupted RTDB and Automatic Backup Failure	

Bug Number	SR	Severity	Title	Customer Impact
24616671		4	Replace perl-Net-SFTP package	
25061989		4	HTTPS certificates should be using SHA-256 or SHA-512	
25597091		4	DS: Health Check document needed for use pre an post upgrade	
26093459		4	TPD 7.4 upgrade on ELAP	
26149077		4	MySQL upgrade to 5.6 latest version	
26149129		4	Update jcterm, jsch and jzlib packages	
26264600	Y	4	ELAP 10.1: Screenshots missing from Full upgrade doc	

Table 11: ELAP Release 10.1.0.0-101.10.0 Resolved Bugs (August 2016)

Bug Number	SR	Severity	Title	Customer Impact
22175030	Y	2	3-11444756541- Hostname exceeding 19 characters, updates will not be loaded	System Hostnames exceeding 19 characters will prevent the system from sending updates to the Cards.
19086317	Y	3	[209875] Heartbeat core files reported on ELAP8	Core file is generated. If this occurs on the Active server, a failover from the Active to the Standby will occur.
19098768		3	[225402] CDS ELAP10-Switch configuration file (/usr/TKLC/plat/etc/vlan.conf)has	
19098778		3	[225411] The stop/start of ELAP software using the commands "/etc/init.d/Elap sto	
19098830		3	[225451] CDS ELAP10 - Missing entries for switch1B ports 3 and 4 in switch configu	
19098969	Y	3	[225564] ELAP- 10.0.0 CDS: Snapshots not being removed from /etc/lvm/archive/	Alarms due to increasing size of /etc/lvm/archive/ directory. Manual intervening is sometimes required to clear the files from this directory.
19102832		3	[228623] Problems in transferLogsToRemote script	

Bug Number	SR	Severity	Title	Customer Impact
21038264	Y	3	Recovery from stale ELAP Eagle connectivity	After an internal loss of connectivity between the application and the STP, the SM cards will not update until the software connections are restarted.
19114667		4	[237830] LNP Support for 504M entries	
20093841		4	ELAP 10.0.1:ELAP GUI login page displays a caution when accessed via Windows 8	
20432953		4	Build and run on TPD 7.x	
20762325		4	Support Java 1.8 client	
20993953		4	Backup file name display from elapconfig is different from actual file generated	
22238855		4	ELAP_10.0.2: Copyright and license needs to be updated on ELAP server	
23263981		4	Disable root access in ELAP	
23544227		4	Upgrade Mysql to 5.6.31	
23638873		4	ELAP 10.1_ST:Display full release number on login banner	

Customer Known Bug List

Please find below the known bugs and associated Customer Impact Statements in Table 11: ELAP Release 10.1 Customer Known Bugs. This information is provided for information purposes only.

Table 12: ELAP Release 10.1 Customer Known Bugs (April 2020)

Bug Number	SR	Severity	Title	Customer Impact
29543267		3	ELAP10.1.4_MR: On ELAP B GUI,Connect to MMI Port, java error was observed and the window did not open	Users will not be able to log into the EAGLE via the ELAP GUI. They will need to open the EAGLE terminal directly.
29836543		3	ELAP_10.1.4:SCCP cards not able to load data when ELAP switchover happens.	After switchover, some of the EAGLE cards will stop taking updates from ELAP. Work Around: Initialize the cards that are not taking updates from ELAP and are in SYN_RECIEVED state.

Bug Number	SR	Severity	Title	Customer Impact
30777953	Y	3	SR: Upgrade accepts reported as failed but disks redundancy is restored.	It is possible in some cases for the system to report false alarm. There is no other impact. The customer can tell it is false as disk redundancy is restored.
31097656		3	ELAP10.1.5_MR:Copy From Remote shows no RTDB files during first SSH attempt to Remote server.	On first attempt, no files will be shown; if user tries again, files will be visible.
30792560		4	ELAP10.1.5_MR:Unwanted logs observed in /var/log/cron file.	None

Chapter 7: Oracle References and Services

Topics:

- My Oracle Support (MOS)
- Emergency Response
- Customer Training
- Locate Product Documentation on the
Oracle Help Center Site
- Locate Product Release Software on the
Oracle Software Delivery Cloud
Site

This chapter describes how to obtain help, where to find related documentation, and provides other general information.

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 are 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, and 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 by calling 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 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.

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 your business can realize all of the benefits these rich solutions offer. Visit the Oracle University web site to view and register for Oracle Communications training: <http://www.oracle.com/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 displays. 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 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, click **Save Target As** (or similar command based on your browser), and save to a local folder.

Locate Product Release Software on the Oracle Software Delivery Cloud Site

Oracle Communications software is available for electronic download at the Oracle Software Delivery Cloud (OSDC) site, <https://edelivery.oracle.com>. Only authorized customers with a valid password may download software from the site.

For directions on downloading the software and other information about using this site, click FAQ on the top right corner.