Oracle® Communications

Local Service Management System

Release Notice

Release 13.4.x

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ORACLE®

Oracle Communications, LSMS Release Notice, Release 13.4.x

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Chapter 1: Introduction

Topics:

This Release Notice includes feature descriptions, media and documentation pack contents, and product compatibility; and identifies the supported upgrade paths and migration paths (if applicable). 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.

LSMS 13.4.x Introduction

Oracle Communications Local Service Management System (LSMS) receives data broadcast from the NPAC/SMS. The LSMS provisions the service provider's downstream systems, such as its Local Number Portability (LNP) call routing database. The LSMS is a mechanized system used.

Revision History

Date	Revision	Description
01/13/2020	01	Initial release for LSMS 13.4
01/30/2020	02	Updated Product Compatibility
06/24/2020	03	Updated Resolved Bug List, Customer Known Bug List, NANC 528 topic, and Media Pack Contents for LSMS 13.4.1 Updated Compatibility Section.

Chapter 2:
Feature Descriptions

Topics:

NANC 528 - Rebuild NPAC interface
Managing Deprecation of Java Applet
    Plugin Support from Browsers and
    Use of WebStart Java Technology
Support for both the NPAC Agent
    Versions without Re-installing
    LSMS

This chapter provides a summary of each feature released in LSMS 13.4.

NANC 528 - Rebuild NPAC interface

Objects, notifications, and behavior description for the lnpNPAC-SMS-Operational-Information notification and for the lsmsFilterNPA-NXX object are removed from GDMO. Several references to lnp-npac-sms-operational-information are removed from the ASN.1 interface. Additionally, since the log object functionality defined for CMIP is not used, all log objects are removed from the CMIP interface.

The NANC 528 interface is only used by iConectiv. It is not supported by Neustar for the Canada region.

Note: The NPAC interface testing with iConectiv concluded in June 2020. In addition, to use the NANC 528 interface, LSMS 13.4.1 or later is required.

Managing Deprecation of Java Applet Plugin Support from Browsers and Use of WebStart Java Technology

The existing LSMS GUI is implemented using Java Applets, which require Java Applet plugin support in browsers. The support for Java Applet plugin for browsers is going to be deprecated by Oracle in JDK 9 and support will be completely removed for Java plugins in a future release.

In order to maintain the LSMS GUI, LSMS has started using the WebStart Java technology. This is independent of the web browser. Now, the LSMS login page is displayed outside the browser as a separate window using WebStart. After a successful login, the LSMS GUI operates similar to the way it is operated in previous releases.

Note: AWS JDK uses Open JDK, which is the base for Oracle JDK (licensed version). Oracle JDK consists of extra plugin and java WebStart support. LSMS GUI uses jnlp files instead of Java Applet, (as it is deprecated) which uses Java WebStart.

To execute the jnlp files (Java WebStart) with AWS Java, users will have to use ice tea binaries by following Include IcedTea-Web in Corretto .

Support for both the NPAC Agent Versions without Re-installing LSMS

The user have the ability to switch back and forth between the current NPAC agent and the new NPAC agent (that supports the NANC 528 interface). For more information, refer to *Configuration Guide, Chapter 5, section Switching NPAC Agent Versions.*

Chapter 3:
LSMS Release 13.4.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 1: 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 1: Media Pack Contents for LSMS 13.4.0.0.0

Description
Oracle Communications LSMS 13.4.0.0.0-134.9.0 (includes incremental upgrade to TPD 7.6.2.0.0-88.58.0)
Oracle Communications LSMS 13.4.0.0.0-134.9.0 MIBS
Oracle Communications LSMS 13.4.0.0.0 Temporary License Keys
Oracle Communications Tekelec Platform Distribution 7.6.0.0.0-88.54.0

Table 2: Media Pack Contents for LSMS 13.4.0.0.0 Query Server

Description
Oracle Communications LSMS Query Server 13.4.0.0.0-134.9.0

Table 3: Media Pack Contents for LSMS 13.4.1.0.0

Description
Oracle Communications LSMS 13.4.1.0.0-134.11.0 (includes incremental upgrade to TPD 7.6.2.0.0-88.60.0)
Oracle Communications LSMS 13.4.1.0.0-134.11.0 MIBS
Oracle Communications LSMS 13.4.1.0.0 Temporary License Keys
Oracle Communications Tekelec Platform Distribution 7.6.0.0.0-88.54.0

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 2: 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 4: Documentation Pack Contents

Release Notices and Licensing Information User Manuals
LSMS 13.4.x Release Notice

LSMS 13.4.x Licensing Information User Manual
Core LSMS Documentation
LSMS 13.4 Configuration Guide
LSMS 13.4 Database Administrator's Guide
LSMS 13.4 Administration and LNP Feature Activation Guide
LSMS 13.4 Security Guide
LSMS 13.4 Incremental Upgrade/Installation Guide
LNP 10.1 Database Synchronization User's Guide
Hardware, Installation, and Maintenance Documentation
LSMS 13.4 Alarms and Maintenance Guide
EAGLE Application B Card Hardware and Installation Guide
LSMS Query Server Documentation
LSMS Query Server Licensing Information Reference
LSMS Query Server on Solaris Installation and Upgrade Guide
LSMS Query Server on Linux Installation and Upgrade Guide
LSMS Query Server Security Guide

Chapter 4:
LSMS Release 13.4.x Supported Upgrade Paths

Topics:

Supported Upgrade Paths

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 Paths

The possible upgrade paths to LSMS Release 13.4.x are listed Table 3.

Table 5: LSMS Release 13.4.x Upgrade Paths

From	To
LSMS 13.2.x	LSMS 13.4.x
LSMS 13.3.x	LSMS 13.4.x

Note: Any upgrade other than listed above is not recommended or supported. Version 13.4.x is also supported as a new or fresh installation.

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 6: LSMS 13.4.x Compatibility with EAGLE Products

Product	Release	Compatibility
ELAP	10.1.X	FC
	10.0.X	PC, NC when DB is greater than 384M
EMS	46.6	FC
	46.5	FC

Note: Customers should upgrade to the fully compatible release identified in Table 4: LSMS 13.4.x Compatibility with EAGLE Products.

Legend:

- FC – Fully Compatible
- PC – Partially Compatible
  Product combinations are functional but have not undergone complete regression testing. Some feature capabilities may not be fully functional or supported.
- NC – Not Compatible

Chapter 6:
LSMS Release 13.4.x Resolved and Known Bugs

Topics:

    Severity Definitions
    Resolved Bug List
    Customer Known Bug List

This chapter lists the resolved and known bugs for LSMS release 13.4.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 build:

• LSMS 13.4.1.0.0-134.11.0

• LSMS 13.4.0.0.0-134.9.0

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

Table 7: LSMS Release 13.4.1.0.0-134.11.0 Resolved Bugs (July 2020)

Bug Number	SR	Severity	Title	Customer Impact
30542639		3	NPACAGENT code needs to updated for NANC 528 related changes for SVType enum and ServiceProviderType enum	
31354595		3	LSMS Code Changes To Support Canada Region Without NANC528	
31497860	Y	3	Blank lsms.jnlp file on LSMS after upgrade to 13.4	The customer is unable to open GUI and loses LNP administrative functions.

Table 8: LSMS Release 13.4.0.0.0-134.9.0 Resolved Bugs (January 2020)

Bug Number	SR	Severity	Title	Customer Impact
30148438	Y	2	Replication issues caused by the temporary table location running out of space	Replication fails when the tmpdir is filled. No additional impact to system operations.
23282276		3	Alarms not getting cleared on LSMS.	
27297584		3	Number of backups configured by configBackup set to 5 after upgrade	
29603320	Y	3	Alarm. Related to high CPU usage for lsmsSNMPagent	The lsmsSNMPagent utilizes an excessive amount of CPU time. If multiple SNMP destinations are enabled, the process could impact system performance.
29920860	Y	3	Logout timing not functioning and the GUI is reporting sessions exceed users	The Logout timer function is not always accurately reporting the login time.

Bug Number	SR	Severity	Title	Customer Impact
27299383		4	When using lsmsgr to configure segmented lsms 1141 is sometimes configured	
27367564		4	Remove Java Applet Support From LSMS	
29338327		4	LSMS 3rd Party package updates	
29530285		4	NANC 528 - Rebuild NPAC interface	
29540935		4	LSMSQS: Update MySQL to match LSMS 13.4	
29748334		4	Support both the NPAC agent versions in LSMS without needing to re-install LSMS.	
30117854		4	LSMSQS: Support Linux installation	
30319619		4	Update to TPD 7.6.2 to include security updates on LSMS 13.4	

Customer Known Bug List

Please find below the known bugs and associated Customer Impact Statements in Table 6: LSMS Release 13.4.x Customer Known Bugs. This information is provided for information purposes only.

Table 9: LSMS Release 13.4.x Customer Known Bugs (July 2020)

Bug Number	SR	Severity	Title	Customer Impact
27156544		3	LSMS13.3_FT: Unexpected error for module QS observed in syscheck.	Executing the syscheck command from the /root directory displays an error message in the output.
27525514		3	Possible change in BDD File Compression	No impact to Customer Operations.
30203895	Y	3	Cannot take snapshot in LSMS	If MySQL is locked, a snapshot cannot be taken on the system. A restart of MySQL should resolve the issue.

Bug Number	SR	Severity	Title	Customer Impact
30536697		3	LSMS_13.4:Default TT value is getting observed while sending different TT value on LSMS for different service names	No impact to customer operations.
26545649		4	For M-GET response ALTSPID xml tag should be NIL/NULL when data is not present	No impact to customer operations.
26576672		4	SMS13.2.1:Error must be thrown when VIP is updated to existing VIP of other EMS	No error is displayed when the VIP address is set to the IP address of another EMS system.
27298020		4	LSMS 13.3 NPAC Association Abort from GUI does not always stay down	Utilizing the GUI to abort an association does not always work. The LSMS stop command can be utilized for similar functionality.
28829054		4	LSMS 13.3.1_MR: Unexpected errors observed on starting SNMP services.	An excessive number of permission denied messages are presented at startup. There is no impact to the proper operation of the software.
31504002		4	LSMS-13.4.1: Issue with Query Results from NPAC on LSMS GUI under NPAC Tab	The customer will have difficulty reading the date of porting and date of activation of an NPANXX. This is not a new issue. The system has been working in this manner for the last 15-20 years and no one has complained.

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 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.

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.