

# Oracle® Communications

## LSMS Release Notes



Release 13.5

F42039-05

April 2024

ORACLE®

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# What's New in This Guide

## **Release 13.5.1.2.0 - F42039-05 - April 2024**

Updated the following sections with the details of LSMS release 13.5.1.2.0:

- [Media Pack](#)
- [Resolved Bug Listing](#)
- [Customer Known Bug Listing](#)

## **Release 13.5.1.1.0 - F42039-04 - October 2023**

Updated the following sections with the details of LSMS release 13.5.1.1.0:

- [Media Pack](#)
- [Resolved Bug Listing](#)
- [Customer Known Bug Listing](#)

# 1

## Introduction

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.

### 1.1 LSMS 13.5.x Introduction

Oracle Communications LSMS (Local Service Management System) 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.

# 2

## Feature Descriptions

This chapter provides a summary of each feature released in LSMS 13.5.

### 2.1 Support 756 Million LNP Database

The LNP capacity is increased from 504 million to 756 million Telephone Number (TN) or Number Pool Block (NPB) records, where NPBs represent a block of 1000 pooled numbers.

The overall architecture of the LNP Solution remains unchanged. The LNP provisioning instructions are received and stored at the LSMS and distributed to the ELAP pair associated with an EAGLE. The ELAP provides persistent storage for the data and provides database update and data loading services for the EAGLE LNP application.

# 3

## Media and Documentation

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.

### 3.1 Media Pack

All components available for download from the Oracle Software Delivery Cloud (<https://edelivery.oracle.com/>) are listed below.



#### 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 3-1 Media Pack Contents for LSMS 13.5.1.2.0**

Description
Oracle Communications LSMS 13.5.1.2.0-135.24.0 (includes upgrade to TPD 7.8.10.0.0-89.34.0)
Oracle Communications LSMS 13.5.1.2.0 MIBs
Oracle Communications LSMS 13.5.1.2.0 Temporary License Keys
Oracle Communications Tekelec Platform Distribution 7.8.10.0.0-89.34.0

**Table 3-2 Media Pack Contents for LSMS 13.5.1.2.0 Query Server**

Description
Oracle Communications LSMS Query Server 13.5.1.2.0-135.22.0

**Table 3-3 Media Pack Contents for LSMS 13.5.1.1.0**

Description
Oracle Communications LSMS 13.5.1.1.0-135.21.0 (includes upgrade to TPD 7.8.8.0.0-89.31.0)
Oracle Communications LSMS 13.5.1.1.0 MIBs
Oracle Communications LSMS 13.5.1.1.0 Temporary License Keys
Oracle Communications Tekelec Platform Distribution 7.8.8.0.0-89.31.0

**Table 3-4 Media Pack Contents for LSMS 13.5.1.1.0 Query Server**

Description
Oracle Communications LSMS Query Server 13.5.1.1.0-135.21.0

**Table 3-5 Media Pack Contents for LSMS 13.5.1.0.0**

Description
Oracle Communications LSMS 13.5.1.0.0-135.18.0 (includes upgrade to TPD 7.8.1.0.0-89.13.0)
<b>Note:</b> "Oracle Communications LSMS 13.5.1.0.0-135.16.0 (includes upgrade to TPD 7.8.1.0.0-89.13.0)" has been replaced with LSMS 13.5.1.0.0-135.18.0.
Oracle Communications LSMS 13.5.1.0.0 MIBs
Oracle Communications LSMS 13.5.1.0.0 Temporary License Keys
Oracle Communications Tekelec Platform Distribution 7.8.0.0.0-89.5.0

**Table 3-6 Media Pack Contents for LSMS 13.5.0.0.0**

Description
Oracle Communications LSMS 13.5.0.0.0-135.11.0 (includes upgrade to TPD 7.8.0.0.0-89.5.0)
Oracle Communications LSMS 13.5.0.0.0 MIBs
Oracle Communications LSMS 13.5.0.0.0 Temporary License Keys
Oracle Communications Tekelec Platform Distribution 7.8.0.0.0-89.5.0

**Table 3-7 Media Pack Contents for LSMS 13.5.1.0.0 Query Server**

Description
Oracle Communications LSMS Query Server 13.5.1.0.0-135.16.0

**Table 3-8 Media Pack Contents for LSMS 13.5.0.0.0 Query Server**

Description
Oracle Communications LSMS Query Server 13.5.0.0.0-135.11.0

## 3.2 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 3-9.



### 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 3-9 Documentation Pack Contents**

Release Notices and Licensing Information User Manuals
LSMS 13.5.x Release Notice
LSMS 13.5.x Licensing Information User Manual
Core LSMS Documentation



**Table 3-9 (Cont.) Documentation Pack Contents**

LSMS 13.5 Configuration Guide
LSMS 13.5 Database Administrator's Guide
LSMS 13.5 Administration and LNP Feature Activation Guide
LSMS 13.5 Security Guide
LSMS 13.5 Incremental Upgrade/Installation Guide
LNP Database Synchronization User's Guide
<b>Hardware, Installation, and Maintenance Documentation</b>
LSMS 13.5 Alarms and Maintenance Guide
EAGLE Application B Card Hardware and Installation Guide
<b>LSMS Query Server Documentation</b>
LSMS Query Server Licensing Information Reference
LSMS Query Server on Linux Installation and Upgrade Guide
LSMS Query Server Security Guide

# 4

## LSMS Release 13.5.x 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.

### 4.1 Supported Upgrade Paths

The possible upgrade paths to LSMS Release 13.5.x are listed in [Table 4-1](#).

**Table 4-1 LSMS Release 13.5.x Upgrade Paths**

From	To
LSMS 13.4.x	LSMS 13.5.x



#### Note:

Any upgrade other than listed above is not recommended or supported. Version 13.5.x is also supported as a new or fresh installation.

# 5

## LSMS Release 13.5.x Resolved and Known Bugs

This chapter lists the resolved and known bugs for LSMS release 13.5.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.

### 5.1 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.

## 5.2 Resolved Bug Listing

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

- LSMS 13.5.1.2.0-135.24.0
- LSMS 13.5.1.1.0-135.21.0
- LSMS 13.5.1.0.0-135.18.0
- LSMS 13.5.1.0.0-135.16.0
- LSMS 13.5.0.0.0-135.11.0



### Note:

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

**Table 5-1 LSMS Release 13.5.1.2.0-135.24.0 Resolved Bugs (April 2024)**

Bug Number	SR	Severity	Title	Customer Impact
36158175	N	4	Update MySQL to 5.7.44	
36213714	N	4	Update Perl-PAR package to 1.019	
36213915	N	4	Update Perl-PAR-Packer package to 1.061	
36312522	N	4	TPD update	

**Table 5-2 LSMS Release 13.5.1.1.0-135.21.0 Resolved Bugs (September 2023)**

Bug Number	SR	Severity	Title	Customer Impact
35661350		4	LSMS MR 13.5.1.1:Update TPD	
35661359		4	LSMS MR 13.5.1.1: Update third party packages	
35712726		4	Update Xerces-j Tar File	
35781286		4	Update MySQL to 5.7.43	

**Table 5-3 LSMS Release 13.5.1.0.0-135.18.0 Resolved Bugs (June 2022)**

Bug Number	SR	Severity	Title	Customer Impact
34192699		3	Fix StartNode Issue After Upgrade On Secondary Node	

**Table 5-4 LSMS Release 13.5.1.0.0-135.16.0 Resolved Bugs (December 2021)**

Bug Number	SR	Severity	Title	Customer Impact
33199554		3	Upgrade Flexera FlexNet Publisher package to take care of issue reported	
33530948		3	Revert DSGRT rpm package in LSMS	
33429463		4	Update TPD to latest available version	
33597976		4	Update MySQL to 5.7.36 in Query Server	

**Table 5-5 LSMS Release 13.5.0.0.0-135.11.0 Resolved Bugs (July 2021)**

Bug Number	SR	Severity	Title	Customer Impact
31775118	Y	3	npacagent will not stay up and stopped by user	The customer is unable to receive new updates from the NPAC while the region continues to restart.
32504126	Y	3	Blank lsms.jnlp file on LSMS	Customer is unable to administer the LSMS from the LSMS GUI.
32593761	Y	3	Sentry status view shows Eagle regions associated with NPAC , when regions have been stopped.	Customer does not see correct status in output of sentry status command.
28829054		4	LSMS 13.3.1_MR: Unexpected errors observed on starting SNMP services.	
31504002		4	LSMS-13.4.1: Issue with Query Results from NPAC on LSMS GUI under NPAC Tab	
31946922		4	uplift ACE open source software to latest version	
32282130		4	Uplift 3rd party perl components for LSMS	
32282136		4	Uplift 3rd party Xerces components for LSMS	
32439448		4	Support 756M LNPDB in LSMS	

**Table 5-5 (Cont.) LSMS Release 13.5.0.0-135.11.0 Resolved Bugs (July 2021)**

Bug Number	SR	Severity	Title	Customer Impact
32535687		4	Update number of backups that can stored on NAS	
32599692	Y	4	Upgrade TMN DSG package	
32928576		4	Restrict mysql to use only TLS 1.2v for connection	
32969186		4	Upgrade TPD to latest release of 7.8 in LSMS	
32972764		4	Update xerces jar to latest available	
32979510		4	Update Mysql To 5.7.34	
33008424		4	Update Mysql To 5.7.34 In LSMS Query Server	

## 5.3 Customer Known Bug Listing

Please find below the known bugs and associated Customer Impact Statements. This information is provided for information purposes only.

**Table 5-6 LSMS Release 13.5.x Customer Known Bugs (April 2024)**

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.
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.
32645547		3	LSMS13.5: Alarm LSMS-NAS-MIB::volumeNearlyFull is not getting cleared	A false alarm will be displayed on the LSMS that a volume is full on the NAS.
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	LSMS13.2.1: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.

**Table 5-6 (Cont.) LSMS Release 13.5.x Customer Known Bugs (April 2024)**

Bug Number	SR	Severity	Title	Customer Impact
33143482	Y	4	SR: Server Disk Space Shortage Error alarm	Customer must remove core files to free up space and to clear the alarm.

# 6

## Oracle References and Services

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

### 6.1 My Oracle Support (MOS)

My Oracle Support (<https://support.oracle.com>) is your initial point of contact for all product support and training needs. A representative at Customer Access Support can assist you with My Oracle Support registration.

Call the Customer Access Support 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:

- For Technical issues such as creating a new Service Request (SR), select **1**.
- For Non-technical issues such as registration or assistance with My Oracle Support, select **2**.
- For Hardware, Networking and Solaris Operating System Support, select **3**.

You are connected to a live agent who can assist you with My Oracle Support registration and opening a support ticket.

My Oracle Support is available 24 hours a day, 7 days a week, 365 days a year.

### 6.2 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.



## 6.3 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 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** in the top right corner.