# Oracle® Communications

# LSMS Release Notes



Release 14.1
G63357-01
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Oracle Communications LSMS Release Notes, Release 14.1

G63357-01

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# What’s New in This Guide

**Release 14.1 - G63357-01 - October 2026**

- Updated the following sections with the details of LSMS release 14.1:
  - Feature Descriptions
  - Media Pack
  - Resolved Bug Listing
  - Customer Known Bug Listing
- Added the Security Certificate Declaration


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# 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 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.


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# Feature Descriptions

This chapter summarises features and enhancements released in LSMS 14.1.

## 2.1 APPD Deployment Support

LSMS 14.1 introduces support for deployment on the APPD platform. This includes configuration updates for LSMS installation, networking, and high-availability operation on the supported APPD deployment.

## 2.2 Dual Image Upgrade Support

LSMS 14.1 introduces Dual Image Upgrade (DIU) support. The release includes LSMS-specific migration and configuration handling as part of the DIU process. Refer to the LSMS Upgrade Guide for supported upgrade paths, prerequisites, and detailed procedures.

## 2.3 MySQL Uplift to 8.4.9

LSMS 14.1 upgrades the MySQL database software from MySQL 8.4.3 to MySQL 8.4.9. LSMS database interfaces and supporting components are updated for compatibility with the upgraded database version.

## 2.4 Java 25 and GUI Launcher Updates

LSMS 14.1 updates the LSMS GUI to use Java 25. The GUI is launched using platform-specific scripts instead of the previous JNLP/Java Web Start mechanism. Users download the GUI launcher package and run the appropriate launch script on a supported client system.

## 2.5 Platform and Supporting Software Updates

LSMS 14.1 incorporates updated TPD 8.10 software based on Oracle Linux 8.10. Supporting components, including COMCOL and ACE, are also updated to align with the release platform and application requirements.

## 2.6 Security Hardening

LSMS 14.1 includes security improvements addressing identified issues involving input handling, memory management, command execution, and logging. The release also updates selected third-party packages and removes obsolete package dependencies.


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# 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 14.1**

| Description |
|---|
| Oracle Communications LSMS 14.1.0.0.0-141.6.0 ISO |
| Oracle Communications LSMS 14.1.0.0.0-141.6.0 APPB DIU ISO |
| Oracle Communications LSMS 14.1.0.0.0-141.6.0 APPD DIU ISO |
| Oracle Communications LSMS 14.1.0.0.0-141.6.0 MIBS |
| Oracle Communications LSMS 14.1.0.0.0-141.6.0 DIU Script |
| Oracle Communications LSMS 14.1.0.0.0-141.6.0 Temporary License Keys |
| Oracle Communications LSMS Query Server 14.1.0.0.0-141.3.0 |
| Tekelec Platform Distribution 8.10.1.16.0-150.39.0 |

## 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 3-2.

> **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 3-2 Documentation Pack Contents**

| Release Notices and Licensing Information User Manuals |
|---|
| LSMS 14.1.x Release Notice |
| LSMS 14.1.x Licensing Information User Manual |


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**Table 3-2 (Cont.) Documentation Pack Contents**

| |
|---|
| **Core LSMS Documentation** |
| LSMS 14.1 Configuration Guide |
| LSMS 14.1 Database Administrator's Guide |
| LSMS 14.1 Administration and LNP Feature Activation Guide |
| LSMS 14.1 Security Guide |
| LNP Database Synchronization User's Guide |
| **Hardware, Installation, and Maintenance Documentation** |
| LSMS 14.1 Alarms and Maintenance Guide |
| EAGLE Application B Card Hardware and Installation Guide |
| EAGLE Application D Card Hardware and Installation Guide |
| LSMS 14.1 Full Upgrade Guide |
| LSMS 14.1 Migration Guide |
| LSMS 14.1 System Health Check Guide |
| **LSMS Query Server Documentation** |
| LSMS Query Server Licensing Information Reference |
| LSMS Query Server on Linux Installation and Upgrade Guide |
| LSMS Query Server Security Guide |

# 3.3 Marben OSI and TMN Toolkit License Key Files

LSMS 14.1 works on OL8.x and needs license key files for Marben OSI and TMN Toolkit from Artifex for successful communication between LSMS and NPAC. Follow the below procedure to request these license key files.

The following steps must be performed by the customer:

1. Go to https://store-oracle.custhelp.com/app/LC_CP
2. Enter the required details.

> **Note**
>
> - In the "Product Name and Version" field, enter "LSMS 14.0".
> - If this is a new LSMS 14.X system, complete the "Oracle Sales Representative" and "Sales Order Number" fields.
> - If this is an LSMS 13.X system being upgraded to LSMS 14.X, in the "Support Identifier" field, enter the Support Identifier number or the Support Contract number.
> - In the "Subject" field, enter "Request for 3rd party license".
> - In the "What can we help you with?" field, enter "Request for OL8-based 64-bit LSMS 3rd party license - Marben OSI and TMN Toolkit".

3. If upgrading from LSMS 13.X to LSMS 14.X or performing a fresh installation of LSMS 14.X, obtain the following information (sample output provided below) from both primary


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and secondary customer servers and paste it in the "What can we help you with?" field textbox. Be sure to clearly indicate which hostname the ifconfig output corresponds with:

```
# ifconfig eth0
eth0 Link encap:Ethernet HWaddr 00:00:17:0F:2C:9D
inet addr:10.75.140.10 Bcast:192.168.61.255  Mask:255.255.255.0
inet6 addr: 2606:b400:605:b915:200:17ff:fe0f:2c9d/64 Scope:Global
inet6 addr: fe80::200:17ff:fe0f:2c9d/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:5154 errors:0 dropped:0 overruns:0 frame:0
TX packets:6943 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:546690 (533.8 KiB) TX bytes:732196 (715.0 KiB)
Memory:fdee0000-fdefffff
```

**Note**

If you have access to a Linux terminal, open a terminal like PuTTY. Then, connect to the LSMS primary and secondary servers one after another using the following command:

```
ssh admusr@<lsms IP addres>
```

For example, ssh admusr@10.75.140.10

Input the required credential and run the following command:

```
ifconfig eth0
```

If there is no provision of a Linux session (for examle, PuTTY), a laptop can be directly connected to the first serial port (console port) of the LSMS server. On the backside of the E5-APP-B card, look for the connector with part number 830-1407-01. The top serial port is the console port and it is labeled 'S1' on the adaptor. Remove the serial cable at ‘S1’ and connect your laptop through a serial cable. The cable part number is 830-1220-x.

Then, run the following command in the windows terminal. After successfully retrieving the output, connect the serial cable (that was removed earlier) back in the ‘S1’ slot.

```
ifconfig eth0
```

4. Run the following command on both the LSMS primary and secondary servers. Provide both hostnames in the "What can we help you with?" textbox:

```
# hostname
lsmspri
```


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> **Note**
>
> If you wish to change the hostnames from the standard lsmspri/lsmssec, provide the new hostnames instead of lsmspri/lsmssec.

5. Click **Submit**.

> **Note**
>
> Allow 24-48 hours for your request to be processed.

> **Note**
>
> Temporary license keys that are valid for a maximum of 60 days are available on the Oracle Software Delivery Cloud (edelivery.oracle.com) with the LSMS 14.X software. There are primarily two reasons for using these temporary license keys:
>
> 1. Getting a fresh installation of an LSMS system installed and configured: The MAC addresses may not be known until during the installation process. Customers may wish to use the temporary license keys to proceed with getting the new LSMS system running before going live. The permanent license keys should be requested while system configuration continues using the temporary license keys. When the permanent license keys are available, they should be installed. Ideally, this should happen before going live.
> 2. Recovering from an unplanned hardware replacement: In the case of disaster recovery when one or both of the E5-APP-B cards must be replaced, the temporary license keys should be used in order to get the LSMS system up and operational as quickly as possible. Once the system is operational, permanent license keys should be requested and installed when they are available.


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# 4
# 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 14.1 are listed in the following table.

**Table 4-1 LSMS Release 14.1 Upgrade Paths**

| From | To |
|---|---|
| LSMS 13.5 | LSMS 14.1 |
| LSMS 14.0 | LSMS 14.1 |

> **Note**
>
> Any upgrade other than listed above is not recommended or supported. Version 14.1 is also supported as a new or fresh installation.


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# Security Certificate Declaration

This section provides information on the list of security tests conducted, and the dates of their completion.

**Table 5-1 Security Certificate Declaration**

| Security Test Description | Test Completion Date | Summary |
|---|---|---|
| Static Source Code Analysis Assesses adherence to common secure coding standards | 12th Aug 2026 | Priority Critical findings addressed |
| Dynamic Analysis (including fuzz testing) Tests for risk of common attack vectors such as OWASP Top 10 and SANS 25 | 02nd Sep 2026 | All Critical and High findings addressed |
| Vulnerability Scans Scans for CVEs in embedded 3rd party components | 06th Jul 2026 | Priority Critical and High findings addressed |
| Malware Scans Scans all deliverable software packages for the presence of known malware | 05th Aug 2026 | No Findings |


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# 6
# Resolved and Known Bugs

This chapter lists the resolved and known bugs for LSMS release 14.1.

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.

## 6.1 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.


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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.

# 6.2 Resolved Bug Listing

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

- LSMS 14.1.0.0.0-141.6.0

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

**Table 6-1 LSMS Release 14.1.0.0.0-141.6.0 Resolved Bugs (October 2026)**

| Bug Number | SR | Severity | Title | Customer Impact |
|---|---|---|---|---|
| 37236212 | Y | 3 | syscheck gives "WARNING: MYSQL_OPT_RECONNECT is deprecated and will be removed in a future version." | Customer will observe these warnings on CLI of LSMS. |
| 39737326 | Y | 3 | After reboot, the server becomes standby and login is not possible | Customer will not be able to access the server with newly created user. |
| 39811893 | Y | 3 | lsms agent core dumps when running NPAC region sync with TN Range | Customer will not be able to perform range resync to maintain data sync with the NPAC. |
| 39828958 | N | 3 | lnpGenAck and lnpVerifyAck core dump | |
| 37441632 | N | 4 | DIU Upgrade support in LSMS | |
| 38544203 | N | 4 | Implement UEK Kernel in LSMS | |
| 38724617 | Y | 4 | XML Parsing Failure During Query For Self SPID | Customer will not be able to query SPID if it contains special character. |
| 38813451 | N | 4 | LSMS 14.0.0.4.0: service TKLClsmsCleanup start command needs to be updated with systmectl command | |
| 39034005 | N | 4 | APPD introduction with LSMS 14.1 | |
| 39520004 | N | 4 | Update ACE version in LSMS | |
| 39564718 | N | 4 | Upgrade MySQL version to 8.4.9 in LSMS | |
| 39823773 | N | 4 | Upgrade java to version 25 in LSMS | |
| 40131718 | N | 4 | TPD uplift to 150.39 | |
| 40187668 | N | 4 | krb5-devel, krb5-libs and libkadm5 package uplift | |


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# 6.3 Customer Known Bug Listing

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

**Table 6-2 LSMS Release 14.1 Customer Known Bugs (October 2026)**

| Bug Number | SR | Severity | Title | Customer Impact |
|---|---|---|---|---|
| 38631905 | N | 3 | Error Mate Node Not Standby Error Observed While Changing GUI User Password From GUI | Customer will not be able to change the password or log into the GUI. |
| 40125748 | Y | 3 | LSMS GUI : Delete Default GTT Using Alternate SPID Fails | Customer is unable to verify that the data has been successfully deleted. |


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# Oracle References and Services

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

## 7.1 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.

## 7.2 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.


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