

Oracle® Communications

EAGLE Element Management System

Release Notice



Release 46.6

E93345-08

April 2022

The Oracle logo, consisting of the word "ORACLE" in white, uppercase letters, centered within a solid red square.

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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.

EMS 46.6 Introduction

Oracle Communications EAGLE Element Management System (OCEEMS) consolidates real-time management at a centralized point within the signaling network to provide a consistent approach for configuring and monitoring the client's network.

2

Feature Descriptions

This chapter provides a summary of each feature released in EMS 46.6.

Decoupling of OCEEMS from EAGLE (Release 46.6)

The Decoupling of OCEEMS from EAGLE makes the OCEEMS independent of various EAGLE releases or versions. The OCEEMS is not coupled with a single EAGLE release or version; it is compatible with any EAGLE release 46.3 and later, but only one EAGLE release at a time. For instructions for OCEEMS users to update their EAGLE command HTML help files for future releases, see *Interface User's Guide*.

Decoupling of the Command Manager Interface (CMI) from EAGLE

This feature makes the OCEEMS independent of the EAGLE release. The user can access the command set of any EAGLE release 46.3 and later from OCEEMS, but only one EAGLE release at a time.

Decoupling of the Measurement Schema from EAGLE

From OCEEMS 46.6.0 and later, the user can access the new measurement reports introduced in EAGLE 46.x.x from OCEEMS 46.x.x without upgrading OCEEMS from one version to another.

LDAP Client on OCEEMS (Release 46.6)

The LDAP Client on OCEEMS feature implements the Lightweight Directory Access Protocol (LDAP) client interface on the OCEEMS system to allow centralized user management and authentication. The LDAP protocol allows the authenticated clients to access the LDAP database and use the information to in turn authenticate users based on the information retrieved from the LDAP servers.

Virtual Machine (VM) Support in OCEEMS 46.6.4.0.0 and Later

From OCEEMS 46.6.4.0.0 and later, the user can run OCEEMS on a VM based system. OCEEMS has been tested on Oracle Linux 7.8 based VM. For more details, refer to Appendix "OCEEMS running on Virtual Machine" in the Install/Upgrade document.

Figure 2-1 Sample Call Flow for LDAP Authentication



OCEEMS supports the following modes of user authentication:

- OCEEMS local authentication: In this mode, the LDAP interface is not used and all information about the user is locally stored, including encrypted passwords.
- LDAP authentication: In this mode, the LDAP interface is used for authentication. In case the LDAP server is unreachable, authentication is not allowed.

See *Security Guide* for more information.

Enhancement Bugs

OCEEMS 46.6 supports the following enhancement bug:

Bug Number and Title	Description
27276254 OCEEMS 46.6 to support SLICv2	OCEEMS Release 46.6 supports the SLICv2 card.

Operational Changes

OCEEMS Release 46.6 does not contain new alarm messages.

OCEEMS 46.6.4 was tested with Java Runtime Environment version jre1.8.0_261 (JRE 1.8.0 Update 261 – 64 bit).

OCEEMS 46.6 uses i-net 17.x Clear Reports version.

3

EMS Release 46.6 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.

Media Pack

All components available for download from the Oracle Software Delivery Cloud (<https://edelivery.oracle.com/>) are in [Table 3-1](#).



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 46.6.x

Description
Oracle Communications EAGLE Element Management System (46.6.5.0.0), Linux x86-64
Oracle Communications EAGLE Element Management System (46.6.4.0.0), Linux x86-64
Oracle Communications EAGLE Element Management System (46.6.3.0.0), Linux x86-64
Oracle Communications EAGLE Element Management System (46.6.2.0.0), Linux x86-64
Oracle Communications EAGLE Element Management System (46.6.1.0.0), Linux x86-64
Oracle Communications EAGLE Element Management System (46.6.0.0.0), Linux x86-64

Installed Patches

OCEEMS 46.6.3.0.0-46.6.4.0.0 uses Zoho (WebNMS) release 5.2 patch SP1.50.

OCEEMS 46.6.0.0.0-46.6.2.0.0 uses Zoho (WebNMS) release 5.2 patch SP1.17.

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
EMS 46.6.x Release Notice
EMS 46.6.x Licensing Information User Manual
Reporting Studio Licensing Information User manual
EAGLE Compatibility Matrix
Core OCEEMS Documentation
Interface User's Guide
Security Guide
System Health Check Guide
Hardware, Installation, and Maintenance Documentation
Installation/Upgrade Guide
Reporting Studio Installation/Upgrade Guide

4

EMS Release 46.6 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 OCEEMS Release 46.6.x are listed in [Table 4-1](#).

Table 4-1 OCEEMS Release 46.6.x Upgrade Paths

From	To
OCEEMS Release 46.3	OCEEMS Release 46.6.x
OCEEMS Release 46.5	OCEEMS Release 46.6.x
OCEEMS Release 46.6	OCEEMS Release 46.6.x



Note:

Any upgrade other than listed above is not recommended or supported. Version 46.6.x is also supported as a new or fresh installation.

5

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.

6

EMS Release 46.6 Resolved and Known Bugs

This chapter lists the resolved and known bugs for EMS Release 46.6.

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:

- OCEEMS 46.6.5.0.0-466.31.0
- OCEEMS 46.6.4.0.0-466.21.0
- OCEEMS 46.6.3.0.0-466.19.0
- OCEEMS 46.6.2.0.0-466.15.0
- OCEEMS 46.6.1.0.0-466.13.0
- OCEEMS 46.6.0.0.0-466.10.0

The resolved bug tables list the severity 1 and 2 bugs as well as severity 3 bugs associated with a SR.

Table 6-1 OCEEMS Release 46.6.5.0.0-466.31.0 Resolved Bugs (April 2022)

Bug Number	SR	Severity	Title	Customer Impact
33822539		3	Resync Failed	
33997713		3	SSH port forwarding Sleep timer addition	
34033347		4	Update Log4j to latest version	

Table 6-2 OCEEMS Release 46.6.4.0.0-466.21.0 Resolved Bugs (December 2020)

Bug Number	SR	Severity	Title	Customer Impact
32136665		2	Measurement data parsing failure	EAGLE measurement data is not getting parsed into the OCEEMS database. This does not impact the normal Reporting functionality. The measurement reports generated with Oracle EAGLE EMS Reporting Studio are completed correctly but no data is printed on report since relevant data is unavailable in database.
31168883		4	VM Support for OCEEMS	

Table 6-3 OCEEMS Release 46.6.3.0.0-466.19.0 Resolved Bugs (October 2020)

Bug Number	SR	Severity	Title	Customer Impact
31101260		2	Unable to discover Eagle	Eagle Discovery GUI is not functional. Unable to discover Eagle in the network and use OCEEMS to manage Eagle for Alarm, Measurement operations, Discovery of inventory and Configuration.
28871747	Y	3	OCEEMS46.6.2:Unable to discover LSMS and EPAP in addition to STP connection issues	Discovery of LSMS and EPAP devices is not functional.
29350485		3	CDS: Incorrect Version Information is Presented atTop of Main GUI Window	
30702801		3	Annotation Text In Alarm Viewer Is Not Reflected	
28046145		4	The remote host allows SSL/TLS connections with one or more Diffie-Hellman	
31046719		4	WebNMS framework version 17 to 50(official) migration	
31382246	Y	4	SSL key generation settings should be modified	

Table 6-4 OCEEMS Release 46.6.2.0.0-466.15.0 Resolved Bugs (March 2019)

Bug Number	SR	Severity	Title	Customer Impact
28501432		2	R46.7: EMS client unable to establish connection with EAGLE when SSH=ON	Connection to systems running EAGLE Release 46.7 via the SSH are not being properly established.
28922252		2	CS: Traps are not getting sent to NMS	SNMP northbound trap service is not sending traps to the configured servers.
28994444	Y	2	Both E5MS servers become PRIMARY	The configuration instructions need clarification to ensure the failover operation will perform in a correct manner.
28866038		3	OCEEMS46.6.2:Unable to fetch EAGLE command set with SSH ON	
29279389	Y	4	Percentage_Utilization_Each_Linkset.rpt	The RX Utilization field in the Linkset report is displaying an invalid value for the utilization.

Table 6-5 OCEEMS Release 46.6.1.0.0-466.13.0 Resolved Bugs (August 2018)

Bug Number	SR	Severity	Title	Customer Impact
26564617		3	CDS: DSMFL: Commands not added as described in bug 20387017.	
27401617	Y	3	java process for OCEEMS is taking up all available memory.	
27514379	Y	3	MTCD-LINK reports not getting parsed due to "Out of range value for column."	Under certain conditions, the application may run out of memory and necessitate the process being restarted.
27555720		3	CDS: fetchEagleCommandSets.s h runs only when connection with Eagle is telnet.	MTCD-LINK report records with the LNKTYPE of "MTP2-UNCH" are not properly parsed and are not inserted into the database.
27571960		3	CDS: New group emsadmuser created after execution of fetchEagleCommandSets.s h.	
27577089		3	CDS: Notification window does not open in front but hidden in task bar.	
27577103		3	CDS: OCEEMS Notification settings window opens but hidden.	
27660909		3	CDS: All card images are not available with the default installation.	
26610122		4	CDS: Once adm user is created, root user need not have stop/ status on e5msService.	
27682713		4	OCEEMS 46.6: ST_AlertSourceIP not displayed randomly for autonomous traps at NMS.	
27717095		4	Commands zip file needs updating.	
27762325		4	Upgrade Beanshell jar (bsh jar) to latest version.	

Table 6-6 OCEEMS Release 46.6.1.0.0-466.10.0 Resolved Bugs (January 2018)

Bug Number	SR	Severity	Title	Customer Impact
26643042		3	CDS: DSMFL: Remove all reference to PASS command on the OCEEMS 46.5 GUI.	
27540209	Y	3	OCEEMS NBI MIB is missing new/current bindings.	New Trap bindings are missing from the MIB file. This impedes the processing of SNMP traps on 3rd party systems.
24390214	Y	4	Remove test DB from E5-MS.	
26861098		4	Decoupling of OCEEMS from Eagle release version.	
27111901		4	EMS 46.6 to support SLICv2.	
27112021		4	LDAP authentication.	
27202922		4	Upgrade MySQL version to latest available version.	
27461242		4	Migration of i-net Clear Reports from version 15.x to 17.x.	
27497260		4	Bug to update the existing EMS MIB files.	

Customer Known Bug List

Please find below the known bugs and associated Customer Impact Statements in [Table 6-7](#). This information is provided for information purposes only.

Table 6-7 OCEEMS Release 46.6 Customer Known Bugs (April 2022)

Bug Number	SR	Severity	Title	Customer Impact
31293567	Y	2	SR: The database cleanup script is causing delays in replication causing failovers	The nightly cleanup process may impact the replication database updates, causing a failover failure to a dual Primary/Primary state.
31293691	Y	2	SR: Nightly Backup job is causing failover issues.	The nightly backup process may impact the replication database updates, causing a failover failure with a dual Primary/Primary state.
22126601		3	OCEEMS_46.2_ST: Redundancy lost in failover setup.	There is no impact to the system unless the failover is initiated rapidly from system to system multiple times. If the failover is switched multiple times in series, the failover replication may need to be reconfigured on the system.

Table 6-7 (Cont.) OCEEMS Release 46.6 Customer Known Bugs (April 2022)

Bug Number	SR	Severity	Title	Customer Impact
22126630		3	OCEEMS_46.2_ST: Dynamic update is not working properly.	If a user updates the NBI configuration, this change is not updated in the open GUI screens for other users. The new configuration information will be reflected when the GUI screen is reopened.
22157264		3	OCEEMS_46.2_ST: OCEEMS sends traps twice after upgrade.	This issue has not been reproduced. There is no impact to customer operations.
27536593		3	OCEEMS46.6:FT_Data is not automatically populated in prompts in I-Net 17	The default values for some reports are not populated when running the report.
29304325	Y	3	CS: Truncated lsn shown in Link utilization measurement reports	This is a display issue only. A few characters at the end of the lsn field may be truncated. It does not impact the report performance or data in other fields.
30712442		3	The space availability check in the BackupDB.sh is not correct	Automatic/Manual database backup is not functional when /var partition does not have enough disk space for the backup files. The customer would need to manually free up disk space in /var partition.
31053643	Y	3	SR: Alarms set to Maintenance are re-activated after E5-MS restart for MPS related EPAP alarms	Alarm Maintenance Mode for EPAP is not functional. The maintenance mode will unset after the restart of OCEEMS services. The customer would need to reset the Maintenance mode for the alarm again.
29421208		4	OCEEMS 46.6.2:Asterix missing from a mandatory parameter when we create a new user.	This is a display issue only. The user can still enter the password while creating a new user. It does not impact the Security Admin module.
29440213		4	OCEEMS46.6:Script 'addHelpFiles.sh' fails to execute	This is an issue with cursor adjustment. Workaround: The user can create a new script with the same name, content, and permissions as the "addHelpFiles.sh" script. The new script will execute successfully and the cursor will be at the end of the string.

Table 6-7 (Cont.) OCEEMS Release 46.6 Customer Known Bugs (April 2022)

Bug Number	SR	Severity	Title	Customer Impact
29445804		4	OCEEMS46.6:Unable to open links from command help files.	No impact to the core functionality of the Commands Management Interface. The user can refer to the EAGLE Commands User's Guide if required.
31919533		4	OCEEMS46.6.3_ST:SNMP V3 protocol not getting displayed when alarms sent from EPAP in SNMPv3 mode.	No Impact on Alarms.
31919709		4	OCEEMS46.6.3_ST:UIM/UAM/MRN Number seen as negative value for alarms sent from EPAP.	No impact to customer operations. From GUI Events/Alarms viewer, the customer may see an invalid negative value in column "UIM/UAM/MRN" for EPAP alarms.
31919750		4	OCEEMS46.6.3_ST:Excel/CSV format i-Net report getting generated on 3rd password input.	When generating a report in Excel CSV format, the user is prompted for the username/password three times. This does not impact the functionality of the report.
31919772		4	OCEEMS46.6.3_ST:Reports on OCEEMS are getting generated with name as 'Tekelec E5-MS Reporting Studio'.	No impact to normal Reporting operation. The report name is not consistent. Some reports generated with "Oracle EAGLE EMS Reporting Studio" while other reports with "Tekelec E5-MS Reporting Studio".

7

Oracle References and Services

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

My Oracle Support (MOS)

[My Oracle Support \(MOS\)](#) is your initial point of contact for any of the following requirements:

- **Product Support:**
The generic product related information and resolution of product related queries.
- **Critical Situations**
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 notificationAny other problem severely affecting service, capacity/traffic, billing, and maintenance capabilities may be defined as critical by prior discussion and agreement with Oracle.
- **Training Need**
Oracle University offers training for service providers and enterprises.

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.

Locate Product Documentation on the Oracle Help Center Site

Oracle Communications customer documentation is available on the web at the Oracle Help Center (OHC) [Oracle Help Center \(OHC\)](#) site. 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 [OHC](#).
2. Click **Industries > Communications**.
The Communications Documentation page appears.
3. Under **Signalling and Policy** header, select **EAGLE**.
The list of entire documentation set for EAGLE Product Line and releases appears.
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. 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.