

Oracle® Enterprise Manager Cloud Control Release Notes



13c Release 5

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Preface

Oracle Enterprise Manager Cloud Control Release Notes provides information specific to this release.

Audience

Oracle Enterprise Manager Cloud Control Release Notes is intended for systems administrators who want to install or upgrade to Enterprise Manager 13c Release 5.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1

Oracle Enterprise Manager Cloud Control Release Notes 13c Release 5

Oracle Enterprise Manager Cloud Control is a management solution providing centralized monitoring, administration, and lifecycle management functionality for the complete IT infrastructure. This document provides information specific to this release to assist you in installing or upgrading to Enterprise Manager Cloud Control 13c Release 5.

Updates to this document may occur after its original release. Check for updates to this document and view other Oracle documentation, including other versions of documentation at [Enterprise Manager Documentation](#).

This document contains the following sections:

- [Acquiring the Software](#)
- [Plug-ins Included In This Release](#)
- [Installation and Upgrade References For This Release](#)
- [Installing Oracle Enterprise Manager Cloud Control 13c Release 5](#)
- [Upgrading To Oracle Enterprise Manager Cloud Control 13c Release 5](#)

Acquiring the Software

You can get the installation software from the product DVD or from Oracle Software Downloads at:

<http://www.oracle.com/downloads/>

For more details on how you can obtain the Enterprise Manager Cloud Control software, refer to the Procuring Enterprise Manager Cloud Control Software section of the *Enterprise Manager Cloud Control Advanced Installation and Configuration Guide*.

Note:

Verify that the file size of your downloaded installation software matches the file size displayed on Oracle Software Downloads. After downloading the software, run the `cksum` command against the downloaded file to ensure that the file size of the downloaded software is the same as the file size on Oracle Software Downloads.

Plug-ins Included In This Release

The following plug-ins are deployed by default with Oracle Enterprise Manager Cloud Control 13.5.0.0.0:

- Oracle Cloud Framework 13.5.1.0.0
- Oracle Database 13.5.1.0.0
- Oracle Exadata 13.5.1.0.0
- Oracle Fusion Middleware 13.5.1.0.0
- Systems Infrastructure 13.5.1.0.0

In addition, the following plug-ins are also available with Oracle Enterprise Manager Cloud Control:

- Apache Tomcat 13.2.1.0.0
- Microsoft IIS 13.1.1.0.0
- Oracle Audit Vault and Database Firewall 13.5.1.0.0
- Oracle Big Data Appliance 13.5.1.0.0
- Oracle Cloud Application 13.5.1.0.0
- Oracle Consolidation Planning and Chargeback 13.5.1.0.0
- Oracle Fusion Applications 13.5.1.0.0
- Oracle ORAchk Healthchecks 13.5.1.0.0
- Oracle Siebel 13.5.1.0.0
- Oracle Storage Management Framework 13.5.1.0.0
- Oracle Virtual Infrastructure 13.5.1.0.0
- Oracle Virtualization 13.5.1.0.0
- Zero Data Loss Recovery Appliance 13.5.1.0.0
- Oracle Cloud Services Management 13.5.1.0.0

You can deploy the latest plug-ins as part of the process of installing or upgrading to Enterprise Manager Cloud Control 13c Release 5. To deploy plug-ins during installation, follow the process outlined in the Installing an Enterprise Manager System for a Production Site (Advanced Configuration) chapter in the *Enterprise Manager Cloud Control Basic Installation Guide*.

Installation and Upgrade References For This Release

The following documents are related to installing and/or upgrading to Enterprise Manager Cloud Control 13c Release 5.

All of these documents can be downloaded from the Enterprise Manager Cloud Control Documentation Library at the following URL:

<http://docs.oracle.com/en/enterprise-manager/>

- [Oracle Enterprise Manager Cloud Control Release Notes](#), 13c Release 5 (this document):
The Release Notes document includes reference material and known issues related to installation and upgrade.
- [Oracle Enterprise Manager Cloud Control Basic Installation Guide](#), 13c Release 5:
This document provides detailed instructions on performing a fresh installation of Enterprise Manager Cloud Control and Management Agents.

- Oracle Enterprise Manager Cloud Control Advanced Installation and Configuration Guide, 13c Release 5:

This document provides detailed instructions on advanced installation scenarios, including silent installation and deinstallation of Cloud Control components. It also provides guidelines on post-installation configuration tasks, including high availability configuration.

- Oracle Enterprise Manager Cloud Control Upgrade Guide, 13c Release 5:

This document provides detailed instructions on upgrading an existing Enterprise Manager installation to the latest release.

Installing Oracle Enterprise Manager Cloud Control 13c Release 5

These instructions assume that you will install a complete Enterprise Manager Cloud Control system using an existing certified Oracle Database on which the Oracle Management Repository can be configured.

See the Installing Enterprise Manager System chapter in the *Enterprise Manager Cloud Control Basic Installation Guide 13c* for installation and post-install configuration instructions.

Generic Known Installation Issues

This section covers issues related to installing Enterprise Manager Cloud Control 13c Release 5.

Creating the SYSMAN User Account Password

The SYSMAN account password must begin with a letter. It can only contain uppercase or lowercase letters, numbers, and the characters like \$, #, _.

Examples of valid passwords:

Yourpw1, oracle_User

Examples of invalid passwords:

Welcome!, 123oracle, #Oracle

(Bug 22879000)

Nm2user Limitation in IBswitch Firmware Version 2.2.7 and Above

Starting from Enterprise Manager 13c Release 3, if IBSwitch (FW 2.2.7 +) is discovered as `nm2user`, the following metrics will throw the metric collection errors and will not be collected:

- Switch InfiniBand PKey-GUID Membership
- Switch InfiniBand PKey Configuration
- Network Datalinks

You must use `ilom-admin` user to get data for these above mentioned metrics.

(Bug 27880372)

Installation Prerequisite Checks

The installation prerequisite checks does not explicitly check for Fusion Middleware 12.2.1.4 operating system requirements. Be sure to first check the Enterprise Manager 13c Release 5 My Oracle Support (MOS) certification matrix to see the supported OS platforms for install or upgrade. Also, check the requirements listed in: [System Requirements for Fusion Middleware 12.2.1.4](#)

(Bugs: 30771732, 30771756, 30328481)

Installation of Additional OMS Fails If Primary OMS Was Installed in Silent Mode

If you installed the primary OMS in silent mode, adding another OMS using the graphical interface (using a deployment procedure) will fail.

The workaround is to install an additional OMS, on a secondary host, in silent mode and add the parameter `COLLECTOR_IGNORE_CONFIGURATION=true` in silent install RSP (response) file.

(Bug 30682423)

Microsoft Windows x64 Known Installation Issues

This section covers issues related to installing Enterprise Manager Cloud Control 13c Release 5.

Silent Agent Deployment on Windows 10 is Currently Not Supported

For Enterprise Manager 13.5 silent agent deployment on Windows 10 is currently not supported.

(Bug: 32495766)

Restart Installation Updates Not Supported On Windowsx64

Restart installation updates are not supported on the Windows x64 platform. Due to this issue, any restart install patches available on My Oracle Support cannot be applied during installation time on WindowsX64.

There is no workaround for this issue.

(Bug 22142768, 22071620)

Oracle Solaris on x86-64 (64-bit) Known Installation Issues

This section covers issues related to installing Enterprise Manager Cloud Control 13c Release 5.

Setting UDP and TCP Kernel Parameters Manually

Enterprise Manager Cloud Control 13c has specific Solaris Kernel requirements for the TCP/IP ephemeral port range. This range is configured using the NDD. Ensure that the lower range is set to at least 11000 or higher, to avoid ports used by Enterprise Manager Cloud Control 13c. The highest range must also be set maximum to 65000. If the lower value of the range you have is greater than 11000, or the upper range is greater than 65000, then these values must be changed.

Use the following commands to check your current range for ephemeral ports:

On Oracle Solaris 11, use the following `ipadm` command:

```
# ipadm show-prop -p smallest_anon_port,largest_anon_port tcp
```

PROTO	PROPERTY	PERM	CURRENT	PERSISTENT	DEFAULT	POSSIBLE
tcp	smallest_anon_port	rw	11000	--	11000	1024-65535
tcp	largest_anon_port	rw	65000	--	65000	32768-65535

In the preceding examples, the ephemeral ports are set to the default range to the minimum requirements for Enterprise Manager Cloud Control 13c.

If these values are not set correctly, update the UDP and TCP ephemeral port range, For example:

On Oracle Solaris 11

```
# ipadm set-prop -p smallest_anon_port=11000 tcp
# ipadm set-prop -p largest_anon_port=65000 tcp
# ipadm set-prop -p smallest_anon_port=11000 udp
# ipadm set-prop -p largest_anon_port=65000 udp
```

Oracle recommends that you make these settings permanent. Refer to your system administration documentation for information on how to automate this ephemeral port range alteration on system restarts.

(Bug 22242417)

Oracle Solaris on SPARC (64-bit) Known Installation Issues

This section covers issues related to installing Enterprise Manager Cloud Control 13c Release 5.

Setting UDP and TCP Kernel Parameters Manually

Enterprise Manager Cloud Control 13c has specific Solaris Kernel requirements for the TCP/IP ephemeral port range. This range is configured using the NDD. Ensure that the lower range is set to at least 11000 or higher, to avoid ports used by Enterprise Manager Cloud Control 13c. The highest range must also be set maximum to 65000. If the lower value of the range you have is greater than 11000, or the upper range is greater than 65000, then these values must be changed.

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PROTO	PROPERTY	PERM	CURRENT	PERSISTENT	DEFAULT	POSSIBLE
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tcp	largest_anon_port	rw	65000	--	65000	32768-65535

In the preceding examples, the ephemeral ports are set to the default range to the minimum requirements for Enterprise Manager Cloud Control 13c.

If these values are not set correctly, update the UDP and TCP ephemeral port range, For example:

On Oracle Solaris 11

```
# ipadm set-prop -p smallest_anon_port=11000 tcp
# ipadm set-prop -p largest_anon_port=65000 tcp
# ipadm set-prop -p smallest_anon_port=11000 udp
# ipadm set-prop -p largest_anon_port=65000 udp
```

Oracle recommends that you make these settings permanent. Refer to your system administration documentation for information on how to automate this ephemeral port range alteration on system restarts.

(Bug 22242417)

Idmpower Fails to Return Expected Results on T7/M7/S7/T8/M8 based Systems

PM is disabled by default at the LDomS layer on T7/M7/S7/T8/M8 based systems with S11.3, SRU 29, and later. For these systems Enterprise Manager Cloud Control does not monitor power consumption on Oracle VM Server for SPARC.

While deploying EM agent on such systems, the prerequisite check shows a warning **Enterprise Manager will not monitor Oracle VM Server for SPARC Power consumption**. This does not affect the agent deployment process and the monitoring for the rest of the Oracle VM Server metrics.

(Bug 28561189)

Upgrading To Oracle Enterprise Manager Cloud Control 13c Release 5

Before beginning an upgrade process, Oracle recommends that you back up the Oracle Management Service (OMS) Oracle Home, the Management Agent Oracle Home, the Oracle Inventory directory, and the Software Library. You should also back up the Management Repository database, as upgrade changes made to the Repository cannot be rolled back. For details, see the Backing Up Enterprise Manager chapter in the *Enterprise Manager Cloud Control Advanced Installation and Configuration Guide*.

See the Enterprise Manager Cloud Control Upgrade Guide for upgrade prerequisites and instructions.

 **Note:**

The upgrade process will upgrade only the Management Repository (sysman) schema and will create the new Metadata Services (sysman_mds) schema within the database. It will not impact any other data within the database. Yet, a database backup is strongly recommended.

In case of Microsoft Edge browser, you may notice browser specific issues while viewing engineering system targets. It is recommended to use Internet Explorer, Firefox, Chrome, or Safari web browser.

Generic Known Upgrade Issues

This section covers issues related to upgrading to Enterprise Manager Cloud Control 13c Release 5:

Creating the SYSMAN User Account Password

The SYSMAN account password must begin with a letter. It can only contain uppercase or lowercase letters, numbers, and the characters like \$, #, _.

Examples of valid passwords:

Yourpw1, oracle_User

Examples of invalid passwords:

Welcome!, 123oracle, #Oracle

(Bug 22879000)

Oracle Home Data Not Collected Correctly After Management Agent Update

Oracle Home data may not be collected correctly for Management Agents that were deployed as Gold Images, that no longer match the Gold Image configuration after plug-ins or patches were applied.

You can address this issue by either running the Oracle Home collections manually or waiting for the Oracle Home collections to be run automatically.

(Bug 21757085)

Transparent Data Encryption Page Unavailable After Upgrade From Previous Versions of Enterprise Manager

After performing an upgrade from either Enterprise Manager Cloud Control Release 3 (12.1.0.3) or Enterprise Manager Cloud Control Release 4 (12.1.0.4) to Enterprise Manager Release 13c, you may not be able to view or access the Transparent Data Encryption (TDE) functionality under the Security menu in the context of a target database (specifically version 11.1.0.7).

Perform the following steps to reach the Transparent Data Encryption home page:

1. From the Oracle Database page, navigate to the Security home page by choosing **Security** from the Oracle Database home page.
2. From the Security menu, choose **Home**.
3. On the Security home page, scroll down to the **Encryption, Redaction and Masking** section.

In this section you will find high level information related to Transparent Data Encryption (if the keystore was previously configured).
4. If the keystore is not configured, click on the home icon in the **Oracle Advanced Security** section to navigate to the TDE home page.

TDE home page is displayed.

This issue occurs primarily with target Database version 11.1.0.7.

(Bug 22231728)

Silent Upgrade from 13.4 RU10 to 13.5 Unable to Cancel Upgrade

If you are upgrading from Enterprise Manager 13c Release 4 Update 10 (13.4 RU10) to Enterprise Manager 13c Release 5 in silent mode, there is currently no option to cancel or abort the upgrade if the prerequisites are not fully met.

(Bug: 32617255)

Monitoring Only Support for Weblogic 14 Targets

In Enterprise Manager 13.5 Weblogic FMW1411 and FMW1412 targets will be discovered for monitoring only.

(Bug: 32458835)

Silent Upgrade To Enterprise Manager 13.5 Using EMPREREQKIT_PROPERTY_FILE Generates an Execution Error

While attempting to perform a silent upgrade to Enterprise Manager 13.5 using the `EMPREREQKIT=true` parameter and passing the response file with: `EMPREREQKIT_PROPERTY_FILE=<response_file_path>` the following error is encountered: `ERROR: Installer execution failed (1)`. The error is generated because in Enterprise Manager 13.5 the `EMPREREQKIT_PROPERTY_FILE` option is deprecated. Instead use only the `responseFile` option. For more information see: *Running the EM Prerequisite Kit in Silent Mode (Command Prompt) in Enterprise Manager Cloud Control Basic Installation Guide*.

(Bug: 31890734)

`EMPREREQKIT=TRUE` does not display existing OMS home in UI for upgrade

Running the EM Prerequisite Kit using the graphical interface during an upgrade (using `EMPREREQKIT=TRUE`) is not supported. There are two available alternatives:

- Perform a standalone `EMPREREQKIT` upgrade in silent mode. For more information see: *Running the EM Prerequisite Kit in Silent Mode (Command Prompt) in Enterprise Manager Cloud Control Basic Installation Guide*.

- Perform an END to END dry run of the Enterprise Manager 13.5 upgrade until it reaches the Prerequisite Checks portion, then exit.

(Bug: 32689178)

Enterprise Manager 13.5 Updated Using `INSTALL_SWONLY_WITH_PLUGINS` Fails

While attempting to perform an upgrade to Enterprise Manager 13.5 using the `INSTALL_SWONLY_WITH_PLUGINS=true` parameter the following error is encountered: Invalid variable(s): `INSTALL_SWONLY_WITH_PLUGINS` ERROR: Installer execution failed (1). The error is generated because in Enterprise Manager 13.5 the `INSTALL_SWONLY_WITH_PLUGINS` parameter is no longer required to be passed in the command line. This internal parameter is set by default to **TRUE**. For more information see: Installing an Enterprise Manager System Using Software Only Install Along With Plugins and Configuring Later in *Enterprise Manager Cloud Control Advanced Installation and Configuration Guide*.

(Bug: 32222992)

Oracle Analytic Server (OAS) does not support Oracle Database 21c

If configuring the reporting framework, note that Oracle Analytic Server (OAS) does not yet support Oracle Database 21c. For more information see: [Certification - Supported Data Sources](#) in *Oracle Analytics Administering Oracle Analytics Server*.

SYSMAN schema should exclusively be used by Enterprise Manager

The `SYSMAN` schema should exclusively be used by Enterprise Manager. Ensure that none of the following objects were manually created under the `SYSMAN` schema:

- Views manually created in `SYSMAN` over DB Link
- User created tables with name combinations: `<Table Name>_E`, `<Table Name>`
Example: `EXYZ_KTABLE` and `EXYZ_KTABLE_E`

If any such objects were created, drop them before an upgrade.

(Bug: 32088634)

MDS Schema Creation Fails During the First OMS Node Upgrade When the second OMS Node is Stopped

MDS schema creation fails during the first OMS upgrade when the second OMS (add OMS) is stopped using the `emctl stop oms` command with error: (java.sql.SQLException: ORA-01940: cannot drop a user that is currently connected). To avoid this error during an Enterprise Manager 13.5 upgrade be sure to stop the OMS with `emctl stop oms -all` option, for any additional OMS node upgrade.

(Bug: 32573195)

AIX Based Systems Known Upgrade Issues

This section covers issues related to upgrading Enterprise Manager Cloud Control 13c Release 5.

Set IOCP Status

While upgrading to Enterprise Manager 13c Release 5 on AIX platform, you must make sure that I/O Completion Port (IOCP) Status is shown as **Available**.

Run the following command to check the IOCP Status:

```
/usr/sbin/lsdev -c iocp -F status
```

If the IOCP Status is not **Available**, then see [Checking I/O Completion Port \(IOCP\) settings](#) to change the status.

Linux Known Upgrade Issues

This section covers issues related to upgrading Enterprise Manager Cloud Control 13c Release 5.

Execution of root.sh Script Fails During Post Agent Install Using RPM Method

The execution of `root.sh` script fails during post Agent install using RPM method.

To fix the issue with the `root.sh` script, you need to update the `gcroot.sh` path in the `root.sh` script.

The `gcroot.sh` script file path should reference to `<AGENT_HOME>/install/unix/scripts/gcroot.sh`

Update the `root.sh` script with the correct `gcroot.sh` script and rerun the `root.sh` script.

(Bug 30683450)

Microsoft Windows x64 Known Upgrade Issues

This section covers issues related to upgrading Enterprise Manager Cloud Control 13c Release 5.

Agent Patch using Agent Patch Plan with Opatch Upgrade Option Fails

Running the agent patch using agent patch plan with `opatch` upgrade option fails with the following message:

```
[23_01_2020_08_52_52]Obtaining patch information for patch(es)... from  
Software Library.  
[23_01_2020_08_52_52] Obtaining OPatch information from Software  
Library.  
Check if the applicable OPatch component exists in Software Library.  
Check complete. The overall result of this check is: Failed <<<<  
ERROR: Unable to find the OPatch component version in the Oracle Home
```

of the target " {0}" of type "{1}".

ACTION: Refresh the configuration of the Oracle Home target at which the target "hostname.example.com:1831" is installed.

The workaround is to deselect the Opatch upgrade option when running the agent patch using a patch plan during your very first agent core/platform patch.

(Bug 30800421)

Upgrade OMS and Management Repository Using Software Only Along with Plug-ins

The recommended method to upgrade the OMS and the Management Repository to 13c Release 5 on Windows platform is Upgrading the OMS and the Management Repository to 13c Release 4 Using the Software-Only Method in Graphical Mode Along With Plug-ins.

Follow these steps:

1. Installing the Enterprise Manager Cloud Control 13c Release 4 Software Binaries in Graphical Mode Along with Plug-ins
2. Running the allroot.sh Script
3. Installing Additional Plug-ins
4. Configuring the Enterprise Manager Cloud Control 13c Release 4 Software Binaries Along With Plug-ins

During this step, you need to run the `ConfigureGC.bat` script with `INSTALL_SWONLY_WITH_PLUGINS=true`.

```
ConfigureGC.bat INSTALL_SWONLY_WITH_PLUGINS=true
```

(Bug 30969819)