

# Oracle® Enterprise Manager

Cloud Control Release Notes

12c Release 3 (12.1.0.3) for Oracle Solaris on x86-64 (64-bit)

E26420-05

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Oracle Enterprise Manager Cloud Control 12c Release 3 (12.1.0.3) is a management solution providing centralized monitoring, administration, and lifecycle management functionality for the complete IT infrastructure.

This Release Notes document provides information about the release, as well as information to assist you in either installing or upgrading to Cloud Control and/or Management Agent 12.1.0.3.

This document contains the following sections:

- [Where To Find Installation And Upgrade Documentation](#)
- [New Features Included In This Release](#)
- [Acquiring The Software](#)
- [Installing Oracle Enterprise Manager Cloud Control 12c Release 3 \(12.1.0.3\)](#)
- [Upgrading To Oracle Enterprise Manager Cloud Control 12c Release 3 \(12.1.0.3\)](#)
- [De-installing Oracle Enterprise Manager Cloud Control](#)
- [Documentation Accessibility](#)

## 1 Where To Find Installation And Upgrade Documentation

The following documents are related to installing and/or upgrading to Enterprise Manager Cloud Control 12c Release 3 (12.1.0.3).

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

<http://www.oracle.com/pls/em121/homepage>

- *Oracle Enterprise Manager Cloud Control Release Notes, 12c Release 3 (12.1.0.3)* (this document)

The Release Notes document provides instructions on installing, upgrading or de-installing of the software. It also includes a list of known issues related to installation and upgrade, as well as post-installation configuration

- *Oracle Enterprise Manager Cloud Control Basic Installation Guide, 12c Release 3 (12.1.0.3)*

The document provides references detailed instructions on performing a fresh installation of Enterprise Manager Cloud Control and Management Agents, as well as on upgrading to this latest release.

- *Oracle Enterprise Manager Cloud Control Advanced Installation and Configuration Guide, 12c Release 3 (12.1.0.3)*

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

- *Oracle Enterprise Manager Cloud Control Upgrade Guide, 12c Release 3 (12.1.0.3)*

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

The documents noted above are referenced several times in this Release Notes document. The documents can also be downloaded from the Enterprise Manager Cloud Control Documentation Library at the following URL:

<http://www.oracle.com/pls/em121/homepage>

## 2 New Features Included In This Release

Oracle Enterprise Manager Cloud Control 12c Release 3 (12.1.0.3) contains a significant number of new features and enhancements. See "New Features In Enterprise Manager 12c" in the *Enterprise Manager Cloud Control 12c Introduction* book for a detailed overview of what's new in this latest release.

This document can be downloaded from the Enterprise Manager Cloud Control Documentation Library at the following URL:

[http://docs.oracle.com/cd/E24628\\_01/doc.121/e25353/toc.htm](http://docs.oracle.com/cd/E24628_01/doc.121/e25353/toc.htm)

## 3 Acquiring The Software

You can get the installation software from the product DVD or from Oracle Technology Network (OTN) at:

<http://www.oracle.com/technetwork/oem/enterprise-manager/downloads/index.html>

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* at the following URL:

[http://docs.oracle.com/cd/E24628\\_01/install.121/e24089/getstrtd\\_proc\\_sw.htm](http://docs.oracle.com/cd/E24628_01/install.121/e24089/getstrtd_proc_sw.htm)

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**Note:** Verify that the file size of your downloaded installation software matches the file size displayed on Oracle Technology Network (OTN). 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 OTN.

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## 4 Installing Oracle Enterprise Manager Cloud Control 12c Release 3 (12.1.0.3)

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* for installation and post-install configuration instructions:

[http://docs.oracle.com/cd/E24628\\_01/install.121/e22624/install\\_em\\_exist\\_db.htm](http://docs.oracle.com/cd/E24628_01/install.121/e22624/install_em_exist_db.htm)

### 4.1 Installing An Additional Oracle Management Service

You can install additional Oracle Management Service (OMS) instances into your existing Enterprise Manager Cloud Control environment.

Note that multiple OMS 12.1.0.3 instances cannot be installed on the same WebLogic Server host machine. Instead, each additional OMS instance must be installed on a different host. Ensure that the WebLogic Server location is the same on all OMS hosts.

See the "Adding An Additional Oracle Management Service" chapter in the *Enterprise Manager Cloud Control Basic Installation Guide* for prerequisites and instructions on installing additional OMS instances at the following URL:

[http://docs.oracle.com/cd/E24628\\_01/install.121/e22624/install\\_addln\\_oms.htm](http://docs.oracle.com/cd/E24628_01/install.121/e22624/install_addln_oms.htm)

### 4.2 Installing Additional Management Agents

You can install additional Management Agents into your environment. Several Management Agent deployment options are supported in this release.

For instructions on using the recommended Add Host Targets wizard method (also referred to as Agent push in previous EM releases), refer to "Installing Oracle Management Agent Using Agent Deployment Wizard" in the *Enterprise Manager Cloud Control Basic Installation Guide*.

[http://docs.oracle.com/cd/E24628\\_01/install.121/e22624/install\\_agent.htm](http://docs.oracle.com/cd/E24628_01/install.121/e22624/install_agent.htm)

### 4.3 Known Installation Issues

This section covers issues related to installation of Enterprise Manager Cloud Control 12c Release 3 (12.1.0.3).

#### 4.3.1 Verify Time Zone Is Correct Before Installing On Solaris x64 And Solaris SPARC Hosts Configured To Use Japanese Timezone

The Checking for Timezone prerequisite check generates a warning when installing Oracle Management Service or a Management Agent on a Solaris x64 or Solaris SPARC host.

To work around this issue, follow the steps below.

1. Ignore the timezone warning and continue with the Management Agent installation.
  2. Stop the Management Agent with the following command:  

```
<AGENT_HOME>/bin/emctl stop agent
```
  3. On the Management Agent host, set the Timezone (TZ) environment variable. For example:  

```
export TZ=Asia/Tokyo
```
  4. Reset the timezone on the Management Agent with the following command:  

```
<AGENT_HOME>/bin/emctl resetTZ agent
```
  5. Start the Management Agent with the following command:  

```
<AGENT_HOME>/bin/emctl start agent
```
- (Bug 14051789)

#### **4.3.2 Management Agent Install On Solaris Exadata Clusters Fails Or Remains In "In Progress" State Indefinitely**

When attempting to install a Management Agent using the Add Host Wizard on a Solaris Exadata Cluster, the installation process either fails or remains in the "In Progress" state indefinitely.

The reason is that the installation fails to detect a free port for use by the Management Agent. This situation occurs when:

- The target host already has a Management Agent using port 3872;
- The host is configured to listen on an Internet Protocol version 6 (IPv6) address; and
- Secure Shell (SSH) is configured to use to listen on an Internet Protocol version 4 (IPv4) address

To avoid this issue, explicitly specify a free Management Agent port in the installation interview screens in the Add Host Wizard, rather than allowing the application to search for a free port.

(Bug 14359662)

## **5 Upgrading To Oracle Enterprise Manager Cloud Control 12c Release 3 (12.1.0.3)**

You can upgrade your existing Enterprise Manager 10g Grid Control Release 5 (10.2.0.5.0), Enterprise Manager 11g Grid Control Release 1 (11.1.0.1.0), Enterprise Manager Cloud Control 12c Release 1 (12.1.0.1) (with Bundle Patch1), or Enterprise Manager Cloud Control 12c Release 2 (12.1.0.2) to Enterprise Manager Cloud Control 12c Release 3 (12.1.0.3).

If you have Enterprise Manager 10g Grid Control Release 4 (10.2.0.4.0) or lower installed, then you must first upgrade to Enterprise Manager 10g Grid Control Release 5 (10.2.0.5.0) or Enterprise Manager 11g Grid Control Release 1 (11.1.0.1.0) before you can upgrade to the new release.

Before beginning, 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 Administrator's Guide*:

[http://docs.oracle.com/cd/E24628\\_01/doc.121/e24473/ha\\_backup\\_recover.htm](http://docs.oracle.com/cd/E24628_01/doc.121/e24473/ha_backup_recover.htm)

See the *Enterprise Manager Cloud Control Upgrade Guide* for upgrade prerequisites and instructions. This document is available from the Enterprise Manager Cloud Control Documentation Library at the following URL:

[http://docs.oracle.com/cd/E24628\\_01/upgrade.121/e22625/toc.htm](http://docs.oracle.com/cd/E24628_01/upgrade.121/e22625/toc.htm)

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**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. Even so, a database backup is strongly recommended.

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## 5.1 Known Upgrade Issues

This section covers issues related to upgrading to Enterprise Manager Cloud Control 12c Release 3 (12.1.0.3).

### 5.1.1 2-System Upgrades On Same Host Not Supported

The 2-system upgrade option is not supported if upgrading from Enterprise Manager Cloud Control releases 10.2.0.5/11.1.0.1 to release 12.1.0.x on a host where an existing Oracle Management Service release 10.2.0.5 or 11.1.0.1 instance is already deployed.

(Bug 12957922)

### 5.1.2 Management Repository Upgrade Fails When Upgrading From Cloud Control Release 12.1.0.2 to Release 12.1.0.3

When upgrading the Management Repository database from Cloud Control Release 12.1.0.2 to Release 12.1.0.3, the following error may occur:

```
SEVERE: ERROR:ORA-00060: deadlock detected while waiting for
resourceFile:*/oms/sysman/admin/emdrep/sql/core/latest/failo
ver/failover_pkgdefs.sql
```

To resolve this issue using the installer:

1. Stop then re-start the Management Repository database.
2. Click the **Retry** button in the installer to re-attempt the upgrade.

To resolve this issue if you are not using the installer:

1. Start the RepManager utility in resume mode. For details on using RepManager, see Appendix D: Using RepManager Utility in the Enterprise Manager Cloud Control Advanced Installation and Configuration Guide:

[http://docs.oracle.com/cd/E24628\\_01/install.121/e24089/appdx\\_repmgr.htm](http://docs.oracle.com/cd/E24628_01/install.121/e24089/appdx_repmgr.htm)

2. Invoke runConfig to complete the upgrade.

(Bug 16308685)

### 5.1.3 Pre-Upgrade Patch Required For Sites With More Than 1 Million Rows In Management Repository Table

If your Enterprise Manager site has more than 50,000 targets and has been running Enterprise Manager Cloud Control 12c for more than one year, verify that the `em_cs_loader_eval_arg` table in the Management Repository contains less than 1 million rows before beginning the upgrade to Enterprise Manager Cloud Control 12c Release 3 (12.1.0.3). If the number of rows exceeds 1 million, contact Oracle Support to obtain and deploy the patch for Bug 16999710 before beginning the upgrade.

(Bug 16999710)

### 5.1.4 Management Repository Database Patches May Be Required

To avoid upgrade failures, you must apply patches on the Management Repository database if the following applies to your installation:

- You are upgrading from Enterprise Manager Cloud Control 12c Release 1 (12.1.0.1) (with Bundle Patch 1) or Enterprise Manager Cloud Control 12c Release 2 (12.1.0.2) to Enterprise Manager Cloud Control 12c Release 3 (12.1.0.3); and
- The Management Repository is installed on an Oracle Database 11g Release 1 (11.1.0.7) or 11g Release 2 (11.2.0.1)

For the list of required patches, refer to row (d) in "Step 2: Upgrade Oracle Management Service and Oracle Management Repository" as outlined in Table 3-1: Upgrading Primary Enterprise Manager Site in Chapter 3 of the *Enterprise Manager Cloud Control Upgrade Guide*:

[http://docs.oracle.com/cd/E24628\\_01/upgrade.121/e22625/upgrading\\_12101\\_PS1\\_gtgstrtd.htm#BABGEHCI](http://docs.oracle.com/cd/E24628_01/upgrade.121/e22625/upgrading_12101_PS1_gtgstrtd.htm#BABGEHCI)

(Bug 16181502)

## 6 De-installing Oracle Enterprise Manager Cloud Control

You can de-install existing Enterprise Manager Cloud Control components in either graphical or silent mode.

See "Deinstalling Enterprise Manager Cloud Control" in the *Enterprise Manager Cloud Control Advanced Installation and Configuration Guide* for de-installation instructions:

[http://docs.oracle.com/cd/E24628\\_01/install.121/e24089/deinstall\\_em.htm](http://docs.oracle.com/cd/E24628_01/install.121/e24089/deinstall_em.htm)

## 7 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 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.

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