

# Oracle® Enterprise Manager

## Oracle GoldenGate System Monitoring Plug-In Installation and Upgrade Guide



(13.2.2.0.0)

E99375-01

August 2018

The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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Oracle Enterprise Manager Oracle GoldenGate System Monitoring Plug-In Installation and Upgrade Guide, (13.2.2.0.0)

E99375-01

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# Contents

	<b>Preface</b>	
	<hr/>	
	Audience	iv
	Documentation Accessibility	iv
	Related Documents	iv
	Conventions	iv
<b>1</b>	<b>Getting Started with Enterprise Manager Plug-In for Oracle GoldenGate</b>	
	<hr/>	
	What is Oracle Enterprise Manager Plug-In for Oracle GoldenGate	1-1
	Supported Platforms and Releases	1-1
	Before You Begin with Enterprise Plug-In for Oracle GoldenGate	1-2
<b>2</b>	<b>Deploying the Plug-In</b>	
	<hr/>	
	Downloading the Plug-In	2-1
	Importing the Plug-in Archive	2-1
	Deploying the Plug-In to the Management Agent	2-2
<b>3</b>	<b>Upgrading the Enterprise Plug-In for Oracle GoldenGate</b>	
	<hr/>	
	Upgrading the Enterprise Plug-In for Oracle GoldenGate on Oracle Management Service	3-1
	Upgrading the Enterprise Plug-In for Oracle GoldenGate on Oracle Management Agent	3-1

# Preface

This document describes how to set up the Enterprise Manager Plugin for Oracle GoldenGate and use the plug-in to discover and monitor Oracle GoldenGate targets.

## Audience

This document is intended for administrators who want to use the Enterprise Manager Plug-in for Oracle GoldenGate to monitor and manage Oracle GoldenGate processes.

## 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>.

### Accessible Access to Oracle Support

Oracle customers who 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.

## Related Documents

For more information, see the following documents:

- Introduction to Plug-In Manager in *Oracle Enterprise Manager Cloud Control Administrator's Guide*.
- Security Overview in *Oracle Enterprise Manager Cloud Control Security Guide*.
- Upgrading Oracle Management Agents in *Oracle Enterprise Manager Cloud Control Upgrade Guide*.
- Introduction to Oracle GoldenGate Monitor in *Installing and Configuring Oracle GoldenGate Monitor*.
- Introduction to Oracle GoldenGate in *Oracle Fusion Middleware Understanding Oracle GoldenGate*.
- Deploying the Enterprise Manager Plug-in in *Oracle GoldenGate System Monitoring Plug-In Installation and Upgrade Guide*.

## Conventions

The following text conventions are used in this document:

<b>Convention</b>	<b>Meaning</b>
<b>boldface</b>	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

## Getting Started with Enterprise Manager Plug-In for Oracle GoldenGate

This document provides a brief description of the Enterprise Manager Plug-in for Oracle GoldenGate, details on the releases the plug-in supports, downloading, deploying, and upgrading the plug-in.

### Topics

- [What is Oracle Enterprise Manager Plug-In for Oracle GoldenGate](#)
- [Supported Platforms and Releases](#)
- [Before You Begin with Enterprise Plug-In for Oracle GoldenGate](#)

## What is Oracle Enterprise Manager Plug-In for Oracle GoldenGate

The Oracle GoldenGate Enterprise Manager Plug-In extends the Oracle Enterprise Manager (EM) Cloud Control to support monitoring and managing Oracle GoldenGate processes. By deploying it in your Cloud Control environment, you gain the following features:

- Visually monitor current Oracle GoldenGate metrics and historical trends.
- Generate automatic alerts and incidents when thresholds are breached.
- Start, stop, kill, and resume individual processes.
- View and modify existing configuration files.
- View error logs, Oracle GoldenGate error logs, report files, and discard files.
- Audit user access of privileged EM Plug-in features and instance-level security for user creation.

## Supported Platforms and Releases

This topic discusses the platforms and releases that are supported by Enterprise Manager Plug-In for Oracle GoldenGate.

### Supported Platforms

- Ensure that you are installing your product on a supported hardware or software configuration.

See the Certifications tab on [My Oracle Support](#) for details.

**NOT\_SUPPORTED:**

Oracle has tested and verified the performance of your product on all certified systems and environments; whenever new certifications occur, they are added to the proper certification document right away. New certifications can occur at any time, and for this reason the certification documents are kept outside of the documentation libraries and are available on Oracle Technology Network.

- The Enterprise Manager Plug-In for Oracle GoldenGate supports monitoring of all platforms where both Oracle GoldenGate Release 11.2.1 and later and Oracle Enterprise Manager Cloud Control 13c Agent and later instances can run.
- DB2 z/OS and DB2 for i don't support the installation of the Enterprise Manager and EM Agent. Monitoring of Oracle GoldenGate instances is achieved through remote Enterprise Manager Agent and Oracle GoldenGate Monitor Agent installed on these operating systems (supported with changes in the OEM and Oracle GoldenGate configuration).
- For DB2 for i, the Java Platform Standard Edition (Java SE) Development Kit (JDK) 7 Update 2 or later is required to support Transport Layer Security (TLS) 1.2 specification (supported with changes in the OEM and Oracle GoldenGate configuration).
- Oracle GoldenGate for HP NonStop is *not* supported.

**Supported Releases**

The Oracle GoldenGate Enterprise Manager Plug-In supports the following product releases:

- Enterprise Manager Cloud Control 13c Release 2 (13.2.x) and later.
- Oracle GoldenGate versions supported include:
  - Oracle GoldenGate Monitor Agent 12c (12.1.3.0.x) and later is required and is the minimum version required to support Start, Stop, Kill, and Edit features.
  - Oracle GoldenGate 11.2.1.0.x - 12.3.0.1.x
  - Oracle GoldenGate Microservices 12.3.0.1.4

For more information about the supported releases see Oracle GoldenGate Interoperability with Other Fusion Middleware Products in *Understanding Interoperability and Compatibility*.

## Before You Begin with Enterprise Plug-In for Oracle GoldenGate

Oracle Enterprise Manager for Oracle GoldenGate has a number of prerequisites that must be performed before you can get started with deploying and using the product.

**Software Requirements**

- The following must be installed and running:

- Oracle GoldenGate to support monitoring by Enterprise Manager Cloud Control.
- Oracle GoldenGate Monitor Agent for monitoring 11.x to 12.3.x Oracle GoldenGate classic instances (not required for Oracle GoldenGate Core Microservices Architecture (MA) instance monitoring); the installation location you chose is referred to as `OGG_AGENT_ORA_HOME` in this document. This location is not necessarily the Oracle GoldenGate installation location.
- Oracle Enterprise Manager (OEM) Cloud Control (Oracle Management Service (OMS)) and Oracle Management agent).

 **Note:**

On the system, where OMS is installed, ensure to keep the `ulimit` value (Max. No. of processes) to unlimited.

- Ensure that an Oracle Management agent is installed on each system, which are hosting Oracle GoldenGate instances, and you wish to monitor.

For more information about the supported releases see Oracle GoldenGate Interoperability with Other Fusion Middleware Products in *Understanding Interoperability and Compatibility*.

- To configure the Software Library, see Configuring a Software Library in *Enterprise Manager Cloud Control Administrator's Guide*.

### Verify Your Environment Meets Certification Requirements

Make sure that you are installing your product on a supported hardware or software configuration. For more information, see the certification document for your release on the Oracle Fusion Middleware Supported System Configurations page.

 **Caution:**

If you set the `LD_LIBRARY_PATH` for monitoring for Oracle GoldenGate Release 11.1.1 instances, you must remove the setting when monitoring 11.2.1 and later instances.



# 2

## Deploying the Plug-In

This topic describes how to import the plug-in into Oracle Enterprise Manager Cloud Control and how to deploy the plug-in to the management agent.

For more information about plug-ins, see *Managing Plug-ins in Oracle Enterprise Manager Cloud Control Administrator's Guide*.

### Topics

- [Downloading the Plug-In](#)
- [Importing the Plug-in Archive](#)
- [Deploying the Plug-In to the Management Agent](#)

## Downloading the Plug-In

You can download plug-ins in online or offline mode. *Online* refers to an environment where you have Internet connectivity to the Enterprise Manager Store. *Offline* refers to an environment where you don't have Internet connectivity.

See *Downloading Plug-Ins in Oracle Enterprise Manager Cloud Control Administrator's Guide*.

## Importing the Plug-in Archive

If you manually downloaded the plug-in, then you must manually import the plug-in archive into Oracle Enterprise Manager Cloud Control. This topic tells you how to complete this task.

To import the plug-in archive:

1. Download the Enterprise Manager Plug-In for Oracle GoldenGate from the [Oracle GoldenGate Downloads](#) page, located in the **Management Pack for Oracle GoldenGate** section.
2. Select **Setup, Command Line Interface** and follow the instructions outlined on the Enterprise Manager Command Line Interface Download page to set up the Enterprise Manager Command Line (EM CLI) utility.
3. Import the plug-in archive:

```
emcli login -username=your user ID-password=password
emcli sync
emcli import_update -file=<../oracle.fmw.gg_xxx.opar -omslocal
emcli get_plugin_deployment_status -plugin_id=oracle.fmw.gg -omslocal
```

4. Log in to Enterprise Manager Cloud Control to complete the deployment:
  - a. Select **Setup, Extensibility, Plug-ins** to open the Plug-ins page.
  - b. Expand the **Middleware** folder.

- c. Select **Oracle GoldenGate, Deploy on, Management Servers...** to start the deployment process.
- d. Enter the **Repository SYS password** and click **Continue**.  
A series of prerequisite system checks begins. As each system check completes,
- e. Click **Next** after each system check completes to continue to the next check. Do this until all of the prerequisite checks are complete.
- f. Click **Next** and then **Deploy**.

 **Tip:**

Deployment usually takes about 10 minutes to complete. During this time, all connected users are disconnected from Enterprise Manager. Even though the confirmation page displays, clicking **Show Status** displays *This webpage is not available* while deployment of the plug-in progresses.

- g. Check the status of Enterprise Manager Plug-In for Oracle GoldenGate deployment. After 10 minutes, you can check the status through the `emcli` command: `emcli get_plugin_deployment_status -plugin_id=oracle.fmw.gg -omslocal`.

 **Note:**

If you haven't enabled the `-omslocal` flag, then make sure you specify the host and all the necessary credentials.

## Deploying the Plug-In to the Management Agent

After you've completed the plug-in deployment on the management server, you must deploy the plug-in to the management agent.

To deploy the plug-in to the management agent:

1. Select **Setup, Extensibility, Plug-ins** to open the Plug-ins page.
2. Expand the **Middleware** folder.
3. Select **Oracle GoldenGate, Deploy on, Management Agent...** to start the deployment process.
4. Select the required version of plug-in, then click **Continue**.
5. Select all the EM Agents where you want to install plug-in.
6. Click **Continue** then click **Deploy**.

Once the Enterprise Manager Plug-In for Oracle GoldenGate is deployed, an Oracle GoldenGate item appears under **Targets** in Enterprise Manager Cloud Control.

# 3

## Upgrading the Enterprise Plug-In for Oracle GoldenGate

You should upgrade the plug-in deployed to Oracle Management Service and Oracle Management Agent.

This topic discusses how to upgrade your Enterprise Plug-In for Oracle GoldenGate.

### Topics

- [Upgrading the Enterprise Plug-In for Oracle GoldenGate on Oracle Management Service](#)
- [Upgrading the Enterprise Plug-In for Oracle GoldenGate on Oracle Management Agent](#)

## Upgrading the Enterprise Plug-In for Oracle GoldenGate on Oracle Management Service

See [Upgrading Plug-Ins Deployed to Oracle Management Service](#) in *Enterprise Manager Cloud Control Administrator's Guide* for details about how to upgrade the plug-in deployed on Oracle Management Service.

## Upgrading the Enterprise Plug-In for Oracle GoldenGate on Oracle Management Agent

See [Upgrading Plug-Ins Deployed to Oracle Management Agent](#) in *Enterprise Manager Cloud Control Administrator's Guide* for details about how to upgrade the plug-in deployed on Oracle Management agents.