

Oracle® GoldenGate

Installing, Configuring, and Upgrading Oracle GoldenGate
Monitor Agent

12c (12.2.1)

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This document describes how to install, configure, and
upgrade Oracle GoldenGate Agent.

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Preface

This document describes how to install and configure standalone Oracle GoldenGate Monitor Agent 12c (12.2.1). This document also provides detailed requirements and various design considerations when installing and configuring Oracle GoldenGate Monitor Agent as a standalone component.

Audience

This document is intended personnel installing, configuring, and running Oracle GoldenGate Monitor.

Documentation Accessibility

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<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 in the Oracle GoldenGate Monitor 12c (12.2.1) documentation set:

- *Administering Oracle GoldenGate Monitor*
- *Oracle GoldenGate Monitor Console Online Help*
- *Installing and Configuring Oracle GoldenGate Monitor Server*
- *Upgrading to Oracle GoldenGate Monitor 12.2.1*
- *Release Notes for Oracle GoldenGate Monitor*

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.

About Oracle GoldenGate Monitor Agent

This chapter helps to prepare you for your Oracle GoldenGate Monitor Agent installation. Various topics are covered that should be reviewed thoroughly to help ensure that you do not encounter any problems either during or after the product installation and configuration. It contains the following sections:

- [Section 1.1, "Introduction to Oracle GoldenGate Monitor Agent"](#)
- [Section 1.2, "Installation Roadmap"](#)
- [Section 1.3, "Prerequisites"](#)
- [Section 1.4, "Downloading Oracle GoldenGate Monitor Agent"](#)

1.1 Introduction to Oracle GoldenGate Monitor Agent

Oracle GoldenGate Monitor Agent (formerly JAgent) collects information about an associated instance and sends it to the Oracle GoldenGate Monitor Server. For Oracle GoldenGate release 11.2.1 and later, the Oracle GoldenGate Monitor Agent is a separate Java agent (sometimes referred to as a standalone agent) and has no C sub-agent.

The agent is a separate download and requires a separate installation process described in this document. You must install Oracle GoldenGate Monitor Agent 12c (12.2.1) to ensure full functionality and take advantage of all command and control features (for example, edit, stop, and display logs).

1.2 Installation Roadmap

Oracle GoldenGate Monitor Agent as a separate product from other components on the Oracle GoldenGate Management Pack. For all non-z/OS platforms, you will use the Oracle Universal Installer (OUI). For the z/OS platform you will use a set of separate binaries provided with the distribution and use these sections:

- [Section 2.1, "Installing Oracle GoldenGate Monitor Agent"](#)
- [Section 3.1, "Installing Oracle GoldenGate Monitor Agent for z/OS"](#)

Once the Oracle GoldenGate Monitor Agent product installation is successful, you need to create instances and configure their properties, based on the operating system and platform, as described in these sections:

- [Creating and Configuring an Oracle GoldenGate Monitor Agent Instance](#)
- [Creating and Configuring an Oracle GoldenGate Monitor Agent Instance for z/OS](#)

1.3 Prerequisites

Before installing Oracle GoldenGate Monitor Agent ensure that the following prerequisites are met:

- Install the Oracle GoldenGate Core product. For database-specific installation instructions, see the Oracle GoldenGate for Windows and UNIX documentation library.
- Install and configure Oracle GoldenGate Monitor if you are planning to monitor your Oracle GoldenGate instance using Oracle GoldenGate Monitor. For instructions, see *Installing and Configuring Oracle GoldenGate Monitor Server*.
- Install a supported Java Runtime Environment (JRE), such as JRE 1.7; Oracle GoldenGate Monitor Agent releases 12.1.3.0.0 and 12.1.3.0.1 do *not* support JRE 1.8. For instructions, see the Java documentation for the release you are installing.

1.4 Downloading Oracle GoldenGate Monitor Agent

Download the Oracle GoldenGate Monitor Agent product from the Oracle Software Delivery Cloud website as follows:

1. Enter the Oracle Software Delivery Cloud link into a web browser:
<http://edelivery.oracle.com/>
2. Click **Sign-in/Register**.

Note: If you are not already logged in, the Oracle Single Sign-On page appears. Enter your Oracle user id and password and click **Sign In**.

The Terms & Restrictions page appears.

3. Select the **Oracle Software Delivery Cloud Trial License Agreement** and the **Export Restrictions** check boxes, and then click **Continue**.

The Media Pack Search page appears.

4. On the Media Pack Search page, do the following:
 - a. From the **Select Product Pack** drop-down list, select **Oracle Management Pack for Oracle Goldengate Product**.
 - b. From the **Platform** drop-down list, select the platform on which you are installing Oracle GoldenGate Monitor Agent.
 - c. Click **Go**.

The Results list expands to show all available media packs that include your search criteria.

5. Locate and select **Oracle Fusion Middleware 12c Media Pack**, and then click **Continue**.
6. Click the **Download** button next to **Oracle Fusion Middleware 12c (12.2.1.0.0) GoldenGate Monitor and Veridata**.
7. Browse to the directory where you want to save the file. Click **Save** to start the file download. A ZIP file is downloaded.
8. Extract the ZIP file to a temporary directory.

Installing and Configuring Oracle GoldenGate Monitor Agent

This chapter walks you through the process of installing and configuring Oracle GoldenGate Monitor Agent for all non-z/OS platforms (if you are installing Oracle GoldenGate Monitor Agent on a z/OS platform, see [Chapter 3, "Installing and Configuring Oracle GoldenGate Monitor Agent for z/OS"](#)).

This chapter contains the following sections:

- [Section 2.1, "Installing Oracle GoldenGate Monitor Agent"](#)
- [Section 2.2, "Creating and Configuring an Oracle GoldenGate Monitor Agent Instance"](#)

2.1 Installing Oracle GoldenGate Monitor Agent

Use the Oracle Universal Installer (OUI) to install Oracle GoldenGate Monitor Agent for all non-z/OS platforms. Perform the following steps:

1. [Start the Installer](#)
2. [Install the Product](#)
3. [Install Available Patches](#)

2.1.1 Start the Installer

To start the installation program:

1. Log in to your system.
2. Go to the directory where you downloaded the installation program.
3. Launch the installation program by invoking `java -jar` from the JDK directory on your system, as shown in the following table:

For this Operating System	Use this command
Unix	<code>\$ java -jar -Xmx1024m /path/to/jar/file/ogg_generic.jar</code>
Windows	<code>C:\ java -jar -Xmx1024m ogg_generic.jar</code>

Where *ogg_generic.jar* is the name of the file that you downloaded for your operating system.

When the installation program appears, you are ready to begin the installation. See [Section 2.1.2, "Install the Product"](#) for a description of each installation program screen.

2.1.2 Install the Product

To install the product, navigate through the Installer screens, providing the necessary information as described on the following table. This table lists the screens in the order they will appear and provides instructions for completing any necessary fields. If you want further information on any screen, click its name in the left-hand column.

Screen	Description
Welcome	This screen introduces you to the product installer. Click Next .
Installation Location	Use this screen to specify the location of your Oracle home directory. <ol style="list-style-type: none"> 1. Type or browse and select the Oracle Home location (that is, the path where you have installed WebLogic Server+JRF) and Coherence. 2. Click View to see the products installed under the selected Oracle Home. 3. Click Next.
Installation Type	Use this screen to select an installation type. <ol style="list-style-type: none"> 1. Select Oracle Golden Gate Monitor Agent. 2. Click Next.
Prerequisite Checks	This screen verifies that your system meets the minimum necessary requirements. If there are any warning or error messages, you can refer to one of the documents referenced in "Verifying Certification, System Requirements, and Interoperability" in <i>Planning an Installation of Oracle Fusion Middleware</i> . Click Next .
Installation Summary	Use this screen to verify the installation options you selected. Note: To display an individual component's approximate installed size, click its name. Click Install .
Installation Progress	This screen shows the progress of the installation. When the progress bar reaches 100%, the installation is complete. Be aware that the Generating Libraries process can take up to 70% of the total installation time on some systems. When the installation progress is 100%, click Next .
Installation Complete	This screen appears at the conclusion of the installation and provides a summary of the products and features that were installed. Click Finish . With this step, OUI installs the Oracle GoldenGate Monitor Agent binaries and configuration files, along with OUI specific file set, in the <code>OGG_AGENT_INST_HOME</code> directory.

2.1.3 Install Available Patches

1. Enter the My Oracle Support link into a web browser:

<http://support.oracle.com>

2. Click **Sign In....**

Note: If you are not already logged in, the Oracle Single Sign-On page appears. Enter your Oracle user id and password and click **Sign In**.

The Dashboard page appears.

3. Click the **Patches & Updates** tab.
4. Search for **Management Pack for Oracle GoldenGate** patches for your operating system.
5. Download at least Patch 19916072.
6. Unzip the downloaded file.
7. Follow the instructions in the `README.txt` file, from the patch ZIP file, to verify that the patch is needed for your system and how to install the patch.

2.2 Creating and Configuring an Oracle GoldenGate Monitor Agent Instance

This section describes the procedures for creating and configuring an Oracle GoldenGate Monitor Agent instance for non-z/OS platforms. This process requires these six steps:

1. [Create the Instance](#)
2. [Update the Configuration Properties](#)
3. [Create Wallet Credentials](#)
4. [Copy the SSL Certificate Files](#)
5. [Start the Oracle GoldenGate Monitor Agent](#)
6. [Check Oracle GoldenGate Monitor Agent Instance Log Files](#)

Note: These procedures are for non-z/OS applications. If you are installing Oracle GoldenGate Monitor Agent for the z/OS platform, see [Section 3.3, "Creating and Configuring an Oracle GoldenGate Monitor Agent Instance for z/OS"](#).

2.2.1 Create the Instance

1. Go to the directory that contains the Oracle GoldenGate Monitor Agent creation script, `createMonitorAgentInstance.sh`. For example:

```
cd /u01/app/oracle/product/wls/oggmon/ogg_agent
```

2. Run the script:

For this Operating System	Use this command
Unix	<code>\$./createMonitorAgentInstance.sh</code>
Windows	<code>C:\ createMonitorAgentInstance.bat</code>

The system responds:

Please enter absolute path of Oracle GoldenGate home directory :

3. Enter the absolute path to your Oracle GoldenGate home directory. For example, `/u01/ogg/replication/oggcore1`.

The system responds:

Please enter absolute path of OGG Agent instance :

4. Enter the directory that contains your Oracle GoldenGate Monitor Agent instance, which can be an existing directory. For example, `/u01/ogg/agents/oggmon/agent1`. This directory should be different than the Oracle GoldenGate home directory to avoid overwriting your Oracle GoldenGate Monitor Agent JAR and configuration files the next time you install or patch Oracle GoldenGate.

Note: For Windows, you must ensure that you provide the absolute JDK8 directory path explicitly or the Monitor Agent cannot connect to the Monitor server. This directory path can also be defined in the `jagent.prm` file.

The Oracle GoldenGate Monitor Agent Instance directory can be an existing folder location. In that case, you are prompted:

OGG Agent instance directory already exists, do you want to overwrite the contents (yes | no)".

If you choose yes, the execution of the script will continue and all the contents related to Oracle GoldenGate Monitor Agent will be overwritten on that location. If you choose no, the execution of the script will stop.

The system responds:

Please enter unique name to replace timestamp in startMonitorAgent script.

5. Enter the unique name that you want to replace the timestamp in the `startMonitorAgent.sh` script file.

You can create additional instances using this same process though you *must* ensure that you create them in unique directories. For example, you can point a new Monitor Agent instance to the same Oracle GoldenGate Instance directory (such as, `/u01/ogg/replication/oggcore1`) or a different Oracle GoldenGate Monitor Agent Instance, and the Oracle GoldenGate Monitor Agent Instance directory must always be a new directory (such as, `/u01/ogg/agents/oggmon/agent2`). The Oracle GoldenGate Monitor Agent reports Oracle GoldenGate monitoring statistics to the Oracle GoldenGate Monitor Server based on how it is configured.

2.2.2 Update the Configuration Properties

Oracle GoldenGate Monitor Agent operates in one of two modes, Oracle GoldenGate Monitor Server or Oracle GoldenGate Enterprise Management Plug-In. You set the configuration properties for the mode you want to operate in using the following steps:

1. If you are using Oracle GoldenGate Monitor Server (*not* Oracle GoldenGate Enterprise Management Plug-In), copy the `oggmon.properties` file from the `OGG_MONITORSERVER_DOMAIN/config/monitorserver/cfg` directory to the `OGG_AGENT_INST_HOME/cfg` directory of all of your Oracle GoldenGate Monitor Agent Instances, where `OGG_AGENT_INST_HOME` is the absolute path to your Oracle GoldenGate Monitor Agent Instance.
2. Edit the `OGG_AGENT_INST_HOME/cfg/Config.properties` file.
3. Review and set the properties for one of the following modes:

Oracle GoldenGate Monitor (OGGMON):

jagent.host=

Use the default or change to the complete hostname or IP of the machine where Oracle GoldenGate Monitor Agent (jagent) is running.

jagent.jmx.port=

Use the default or change to your preferred port.

monitor.host=

Set to the hostname you set during your Oracle GoldenGate Monitor Server installation in `monitor.properties`.

monitor.jmx.port=

Set to the port you set during your Oracle GoldenGate Monitor Server installation in `monitor.properties`.

monitor.jmx.username=

Set to the user name you provided during your Oracle GoldenGate Monitor Agent installation

jagent.username=

Set a jagent user name.

agent.type.enabled=

Ensure it is set to OGGMON.

jagent.backward.compatibility=

Ensure it is set to false.

jagent.ssl=

Ensure it is set to false.

Or

Oracle GoldenGate Enterprise Management Plug-In (OEM):

jagent.host=

Use the default or change to the complete hostname or IP of the machine where Oracle GoldenGate Monitor Agent (jagent) is running.

jagent.username=

Set a jagent user name.

jagent.rmi.port=

Use the default or change to a specific port.

agent.type.enabled=

Set it to OEM.

jagent.backward.compatibility=

Ensure it is set to false.

jagent.ssl=

Ensure it is set to false.

4. Close and save the file.

The `oggmon.properties` file is required to create the wallet. For instructions, see "Edit Monitor Properties" in *Installing and Configuring Oracle GoldenGate Monitor Server*.

2.2.3 Create Wallet Credentials

Navigate to the `OGG_AGENT_INST_HOME/bin` directory, and then use one of the following sections to create the Oracle Wallet for your operating mode, Oracle GoldenGate Monitor *or* Oracle GoldenGate Enterprise Management Plug-In.

2.2.3.1 Creating an Oracle GoldenGate Monitor Wallet

1. Delete any existing `dirwlt` directory.
2. Ensure that the `oggmon.properties` file is copied into the `cfg` directory.
3. Start creating the wallet credentials:

For this Operating System	Use this command
Unix	<code>\$./pw_agent_util.sh -create</code>
Windows	<code>C:\ pw_agent_util.bat -create</code>

4. Enter and confirm a user password for your `jagent.username` property.

Please create a password for Java Agent:

Please confirm password for Java Agent:

5. Enter and confirm a user password for your `monitor.jmx.username` property.

Please enter Monitor Server JMX password:

Please confirm Monitor Server JMX password:

The system responds:

```
Jan 06, 2014 5:17:22 PM oracle.security.jps.JpsStartup start
INFO: Jps initializing.
```

```
Jan 06, 2014 5:17:24 PM oracle.security.jps.JpsStartup start
INFO: Jps started.
```

Wallet is created successfully.

This creates the wallet `cwallet.sso` and `cwallet.sso.lck` files in `dirwlt` in the `OGG_AGENT_INST_HOME/cfg` directory.

2.2.3.2 Creating an Oracle GoldenGate Enterprise Management Plug-In Wallet

1. Start creating the wallet credentials:

For this Operating System	Use this command
Unix	<code>\$./pw_agent_util.sh -jagentonly</code>
Windows	<code>C:\ pw_agent_util.bat -jagentonly</code>

2. Enter and confirm a user password for your `jagent.username` property.

Please create a password for Java Agent:
Please confirm password for Java Agent:

The system responds:

```
Jan 06, 2014 5:17:22 PM oracle.security.jps.JpsStartup start
INFO: Jps initializing.
Wallet is created successfully.
```

This creates the wallet `cwallet.sso` and `cwallet.sso.lck` files in `dirwlt` in the `OGG_AGENT_INST_HOME` directory.

2.2.4 Copy the SSL Certificate Files

Note: This step is required only if the Oracle GoldenGate Monitor Agent is running in SSL mode.

Go to the `OGG_AGENT_INST_HOME/dircert` and copy the Keystore and Truststore files.

After copying the keystore and truststore files, do the following:

1. Using the `pw_agent_util.sh` (or `.bat`, on Windows) utility, update the wallet with keystore and truststore passwords, as described in "Updating Oracle GoldenGate Monitor Agent Passwords" in *Administering Oracle GoldenGate Monitor*.
2. Update the `jagent.keystore` and `jagent.truststore` values in the `config.properties` file; for example:

```
jagent.keystore.file=jagentKeyStore
jagent.truststore.file=jagentTrustStore
```

Note: If you are using a self-signed certificate, you can use the same file for both keystore file and truststore. If you are using a third-party signed certificate, you need to update your property file with the appropriate keystore and trust store files.

2.2.5 Prepare the Oracle GoldenGate Monitor Agent Instance for Monitoring

1. Create a file named `GLOBALS` in the `OGG_AGENT_INST_HOME` directory, if this file does not exist.

2. Edit the GLOBALS file.
3. Add ENABLEMONITORING on a new line.
4. Close and save the file.

2.2.6 Start the Oracle GoldenGate Monitor Agent

Go to the Oracle GoldenGate GGSCI console and start Oracle GoldenGate Monitor Agent by executing the **start jagent** command:

```
GGSCI> start jagent
```

2.2.7 Check Oracle GoldenGate Monitor Agent Instance Log Files

Once you have completed the preceding steps and Oracle GoldenGate Monitor Agent is running, the Oracle GoldenGate Monitor Agent log details will be written to `ogg_agent.log`, which is in `OGG_AGENT_INST_HOME/logs`.

Installing and Configuring Oracle GoldenGate Monitor Agent for z/OS

This chapter walks you through the process of installing and configuring Oracle GoldenGate Monitor Agent for the z/OS platforms (if you are installing Oracle GoldenGate Monitor Agent on a non-z/OS platform, see [Chapter 2, "Installing and Configuring Oracle GoldenGate Monitor Agent"](#)).

This chapter contains the following sections:

- [Section 3.1, "Installing Oracle GoldenGate Monitor Agent for z/OS"](#)
- [Section 3.2, "Install Available Patches"](#)
- [Section 3.3, "Creating and Configuring an Oracle GoldenGate Monitor Agent Instance for z/OS"](#)

3.1 Installing Oracle GoldenGate Monitor Agent for z/OS

The Oracle GoldenGate Monitor Agent product distribution contains the file `ogg_agent-zos.tar`, which you will use to install Oracle GoldenGate Monitor Agent on z/OS platforms. Use this procedure:

1. Create a folder to install Oracle GoldenGate Monitor Agent binaries; for this example, we will call that folder `/apps/products/ogg-agent-zos-home/`.
2. Navigate to `/apps/products/ogg-agent-zos-home` and `untar` `ogg_agent-zos.tar`:

```
$/tar xvfz ogg_agent-zos.tar
```

You will see a new folder, `ogg_agent-zos`, under `/apps/products/ogg-agent-zos-home/`. This `ogg_agent-zos` folder contains all Oracle GoldenGate Monitor Agent binaries and its configuration and scripts files. On z/OS platforms, this folder (`/apps/products/ogg-agent-zos-home/ogg_agent-zos`) and is your `OGG_AGENT_INST_HOME` directory.

3.2 Install Available Patches

1. Enter the My Oracle Support link into a web browser:
<http://support.oracle.com>
2. Click **Sign In....**

Note: If you are not already logged in, the Oracle Single Sign-On page appears. Enter your Oracle user id and password and click **Sign In**.

The Dashboard page appears.

3. Click the **Patches & Updates** tab.
4. Search for **Management Pack for Oracle GoldenGate** patches for your operating system.
5. Download at least Patch 19916072.
6. Unzip the downloaded file.
7. Follow the instructions in the `README.txt` file, from the patch ZIP file, to verify that the patch is needed for your system and how to install the patch.

3.3 Creating and Configuring an Oracle GoldenGate Monitor Agent Instance for z/OS

This section describes the procedures for creating and configuring an Oracle GoldenGate Monitor Agent instance for non-z/OS platforms. This process is comprised of these six steps:

1. [Create the Instance](#)
2. [Update the Configuration Properties](#)
3. [Create Wallet Credentials](#)
4. [Copy the SSL Certificate Files](#)
5. [Start the Oracle GoldenGate Monitor Agent](#)
6. [Check Oracle GoldenGate Monitor Agent Instance Log Files](#)

3.3.1 Create the Instance

1. Go to the directory that contains the Oracle GoldenGate Monitor Agent creation script, `createMonitorAgentInstance.sh`. For example:

```
cd /u01/app/oracle/product/wls/oggmon/ogg_agent
```

2. Run the script:

```
./createMonitorAgentInstance.sh
```

The system responds:

```
Please enter absolute path of Oracle GoldenGate home directory :
```

3. Enter the absolute path to your Oracle GoldenGate home directory. For example, `/u01/ogg/replication/oggcore1`.

The system responds:

```
Please enter absolute path of OGG Agent instance :
```

4. Enter the directory that contains your Oracle GoldenGate Monitor Agent instance, which can be an existing directory. For example, `/u01/ogg/agents/oggmon/agent1`. This directory should be different than the

Oracle GoldenGate home directory to avoid overwriting your Oracle GoldenGate Monitor Agent JAR and configuration files the next time you install or patch Oracle GoldenGate.

The Oracle GoldenGate Monitor Agent Instance directory can be an existing folder location. In that case, you are prompted:

OGG Agent instance directory already exists, do you want to overwrite the contents (yes | no)".

If you choose *yes*, the execution of the script will continue and all the contents related to Oracle GoldenGate Monitor Agent will be overwritten on that location. If you choose *no*, the execution of the script will stop.

The system responds:

Please enter unique name to replace timestamp in startMonitorAgent script.

5. Enter the unique name that you want to replace the timestamp in the startMonitorAgent.sh script file.

You can create additional instances using this same process though you *must* ensure that you create them in unique directories. For example, you can point a new Monitor Agent instance to the same Oracle GoldenGate Instance directory (such as, /u01/ogg/replication/oggcore1) or a different Oracle GoldenGate Monitor Agent Instance, and the Oracle GoldenGate Monitor Agent Instance directory must always be a new directory (such as, /u01/ogg/agents/oggmon/agent2). The Oracle GoldenGate Monitor Agent reports Oracle GoldenGate monitoring statistics to the Oracle GoldenGate Monitor Server based on how it is configured. For example, the Oracle GoldenGate Monitor Agent and Oracle GoldenGate instance configuration and communication.

3.3.2 Update the Configuration Properties

Oracle GoldenGate Monitor Agent operates in one of two modes, Oracle GoldenGate Monitor Server or Oracle GoldenGate Enterprise Management Plug-In. You set the configuration properties for the mode you want to operate in using the following steps:

1. Once you have completed the steps in the preceding sections, copy the oggmon.properties file from the `OGG_MONITORSERVER_DOMAIN/config/monitorserver/cfg` directory to the `OGG_AGENT_INST_HOME/cfg` directory of all of your Oracle GoldenGate Monitor Agent Instances.
2. Edit the `OGG_AGENT_INST_HOME/cfg/Config.properties` file.
3. Review and set the properties for one of the following modes:

Oracle GoldenGate Monitor (OGGMON):

jagent.host=

Use the default or change to the complete hostname or IP of the machine where Oracle GoldenGate Monitor Agent (jagent) is running.

jagent.jmx.port=

Use the default or change to your preferred port.

monitor.host=

Set to the hostname you provided during your Oracle GoldenGate Monitor Agent installation.

monitor.jmx.port=

Set to the port you provided during your Oracle GoldenGate Monitor Agent installation.

monitor.jmx.username=

Set to the user name you provided during your Oracle GoldenGate Monitor Agent installation

jagent.username=

Set a jagent user name.

agent.type.enabled=

Ensure it is set to OGGMON.

jagent.backward.compatibility=

Ensure it is set to false.

jagent.ssl=

Ensure it is set to false.

Or

Oracle GoldenGate Enterprise Management Plug-In (OEM):

jagent.host=

Use the default or change to the complete hostname or IP of the machine where Oracle GoldenGate Monitor Agent (jagent) is running.

jagent.username=

Set a jagent user name.

jagent.rmi.port=

Use the default or change to a specific port.

agent.type.enabled=

Set it to OEM.

jagent.backward.compatibility=

Ensure it is set to false.

jagent.ssl=

Ensure it is set to false.

4. Close and save the file.

The oggmon.properties file is required to create the wallet. For instructions, see "Edit Monitor Properties" in *Installing and Configuring Oracle GoldenGate Monitor Server*.

3.3.3 Create Wallet Credentials

Navigate to the OGG_AGENT_INST_HOME/bin directory, and then use one of the following sections to create the Oracle Wallet for your operating mode, Oracle GoldenGate Monitor or Oracle GoldenGate Enterprise Management Plug-In.

3.3.3.1 Creating an Oracle GoldenGate Monitor Password File

1. Delete any existing dirwlt directory.
2. Ensure that the oggmon.properties file is copied into the cfg directory.
3. Start creating the wallet credentials:

```
./pw_agent_util.sh -create
```

4. Enter and confirm a user password for your `jagent.username` property.

Please create a password for Java Agent:
Please confirm password for Java Agent:

5. Enter and confirm a user password for your `monitor.jmx.username` property.

Please enter Monitor Server JMX password:
Please confirm Monitor Server JMX password:

The system responds:

Password is stored successfully

This creates the `Password.properties` file in the `OGG_AGENT_INST_HOME` directory.

3.3.3.2 Creating an Oracle GoldenGate Enterprise Management Plug-In Wallet

1. Start creating the wallet credentials:

```
./pw_agent_util.sh -jagentonly
```

2. Enter and confirm a user password for your `jagent.username` property.

Please create a password for Java Agent:
Please confirm password for Java Agent:

The system responds:

```
Jan 06, 2014 5:17:22 PM oracle.security.jps.JpsStartup start
INFO: Jps initializing.
Wallet is created successfully.
```

This creates the wallet `cwallet.sso` and `cwallet.sso.lck` files in `dirwlt` in the `OGG_AGENT_INST_HOME` directory.

3.3.4 Copy the SSL Certificate Files

Note: This step is required only if the Oracle GoldenGate Monitor Agent is running in SSL mode.

Go to the `OGG_AGENT_INST_HOME/dir.crt` and copy the Keystore and Truststore files.

After copying the keystore and truststore files, do the following:

1. Using the `pw_agent_util.sh` (or `.bat`, on Windows) utility, update the wallet with keystore and truststore passwords, as described in "Updating Oracle GoldenGate Monitor Agent Passwords" in *Administering Oracle GoldenGate Monitor*.
2. Update the `jagent.keystore` and `jagent.truststore` values in the `config.properties` file; for example:

```
jagent.keystore.file=jagentKeyStore
jagent.truststore.file=jagentKeyStore
```

3.3.5 Prepare the Oracle GoldenGate Monitor Agent Instance for Monitoring

1. Create a file named `GLOBALS` in your Oracle GoldenGate home directory, if this file does not exist.
2. Edit the `GLOBALS` file.
3. Add `ENABLEMONITORING` on a new line.
4. Close and save the file.

3.3.6 Start the Oracle GoldenGate Monitor Agent

Go to the Oracle GoldenGate Core GGSCI console, and start the Oracle GoldenGate Monitor Agent by executing the `start jagent` command:

```
GGSCI> start jagent
```

3.3.7 Check Oracle GoldenGate Monitor Agent Instance Log Files

Once you have completed the preceding steps and Oracle GoldenGate Monitor Agent is running, the Oracle GoldenGate Monitor Agent log details will be written to the `ogg_agent.log` file, which is in `OGG_AGENT_INST_HOME/logs`.

Upgrading Oracle GoldenGate Monitor Agent

This chapter describes the tasks you perform to install and upgrade Oracle GoldenGate Monitor Agent from 11g to 12c or when upgrading the original JAgent that was delivered with 12c.

Note: Do *not* follow the instructions in this chapter if you have installed Oracle GoldenGate Monitor Agent 12c for the first time; the upgrade occurs automatically.

Use the following tasks to upgrade your existing Oracle GoldenGate Monitor Agent(\$OGG_HOME/dirjar) 11g to 12c:

- Task 1, "Obtain Oracle GoldenGate Monitor Agent"
- Task 2, "Backup the Existing Oracle GoldenGate Monitor Agent"
- Task 3, "Configuring the JRE"
- Task 4, "Installing Oracle GoldenGate Monitor Agent"
- Task 5, "Stopping JAgent"
- Task 6, "Copying Files to the New Agent Directories"
- Task 7, "Creating the Instance"
- Task 8, "Starting the Agent"
- Task 9, "Removing the Previous Oracle GoldenGate Monitor Agent Software"

Task 1 Obtain Oracle GoldenGate Monitor Agent

Obtain the product distribution by following the instructions in [Section 1.4, "Downloading Oracle GoldenGate Monitor Agent."](#)

Task 2 Backup the Existing Oracle GoldenGate Monitor Agent

Create a backup copy of your entire pre-upgrade Oracle GoldenGate Monitor Agent environment before you upgrade by copying the following to a backup location:

- OGG_HOME/cfg folder
- OGG_HOME/dirjar folder
- OGG_HOME/pw_agent_util.* files
- OGG_HOME/jagent.* files
- OGG_HOME/dirwlt directory

Task 3 Configuring the JRE

Configure your JRE as follows:

1. Set your `$JAVA_HOME` environment variable to use your installed JRE.
2. Set `$JAVA_HOME/bin` *first* in your `$PATH` environment variable.
3. Verify that `$JAVA_HOME` and `$JAVA_HOME/bin` are setup correctly by running the following command:

```
java -version
```

The Java version is displayed and should be similar to the following:

```
java version "1.8.0_40"  
Java(TM) SE Runtime Environment (build 1.8.0_40-b19)  
Java HotSpot(TM) 64-Bit Server VM (build 24.60-b09, mixed mode)
```

Task 4 Installing Oracle GoldenGate Monitor Agent

Install Oracle GoldenGate Monitor Agent in a separate, standalone location using the instructions in one of the following dependent on your database:

For non-z/OS platforms, use [Chapter 2, "Installing and Configuring Oracle GoldenGate Monitor Agent"](#).

For z/OS platforms, use [Chapter 3, "Installing and Configuring Oracle GoldenGate Monitor Agent for z/OS"](#).

Task 5 Stopping JAgent

Go to the Oracle GoldenGate Core GGSCI terminal and stop the Oracle GoldenGate Monitor Agent by executing the `stop jagent` command:

```
GGSCI>stop jagent
```

Verify that there are no remaining `jagent` processes after by running the following command:

```
ps -ef |grep jagent
```

Use the `kill -9` command to stop if any stray `jagent` processes.

Task 6 Copying Files to the New Agent Directories

Copy the existing `$Monitor_Server_Domain/config/monitorserver/cfg` directory, including all content, to the new Agent directory, `$AGENT_HOME/cfg_templates`.

Task 7 Creating the Instance

Use one of the following subsections to either create or upgrade your Monitor instance:

11g Upgrades: Creating a New Instance

Create a new instance using the instructions in one of the following dependent on your operating system:

For non-z/OS platforms, use [Section 2.2.1, "Create the Instance."](#)

For z/OS platforms, use [Section 3.3.1, "Create the Instance."](#)

This modifies the `$OGG_HOME/dirprm/jagent.prm` file as in the following example:

```
COMMAND java -Dconfig.dir=/home/oracle/oggmon_agent/oggmon/cfg  
-Djava.util.logging.config.class=oracle.core.ojdl.logging.LoggingConfiguration
```

```
-Doracle.core.ojdl.logging.config.file=/home/oracle/oggmon_
agent/oggmon/cfg/logging-config.xml -Doracle.core.ojdl.logging.componentId=JAGENT
-jar -Xms512m -Xmx1024m /home/oracle/oggmon_agent/oggmon/ogg_
agent/dirjar/jagent.jar
```

In this example, the jagent that will now be used is in /home/oracle/oggmon_
agent/oggmon/ogg_agent/dirjar/jagent.jar and its configuration file is in the
/home/oracle/oggmon_agent/oggmon/cfg directory.

12c Upgrades: Upgrading the Existing Instance

Run the Monitor Agent upgrade utility by entering the following command:

- 1. Go to the \$AGENT_HOME directory. For example:

```
cd /u01/app/oracle/product/wls/oggmon/ogg_agent
```

- 2. Run the upgrade script:

For this Operating System	Use this command
Unix	\$./upgradeToMonitorAgent1221.sh
Windows	C:\ upgradeToMonitorAgent1221.bat

The system responds:

Please enter absolute path of Oracle GoldenGate home directory:

- 3. Enter the absolute path to your Oracle GoldenGate home directory. For example, /u01/ogg/replication/oggcore1.

The system responds:

Please enter absolute path of OGG Agent instance :

- 4. Enter the directory that contains your Oracle GoldenGate Monitor Agent instance, which can be an existing directory. For example, /u01/ogg/agents/oggmon/agent1. This directory should be different than the Oracle GoldenGate home directory to avoid overwriting your Oracle GoldenGate Monitor Agent JAR and configuration files the next time you install or patch Oracle GoldenGate.

Note: For Windows, you must ensure that you provide the absolute JDK8 directory path explicitly or the Monitor Agent cannot connect to the Monitor server. This directory path can also be defined in the jagent.prm file.

The Oracle GoldenGate Monitor Agent Instance directory can be an existing folder location. In that case, you are prompted:

OGG Agent instance directory already exists, do you want to overwrite the contents (yes | no)".

If you choose yes, the execution of the script will continue and all the contents related to Oracle GoldenGate Monitor Agent will be overwritten on that location. If you choose no, the execution of the script will stop.

The system responds:

Please enter unique name to replace timestamp in startMonitorAgent script.

5. Enter the unique name that you want to replace the timestamp in the startMonitorAgent.sh script file.

Once the Monitor Agent upgrade completes successfully, the Monitor Agent wallet credentials are also updated.

Task 8 Starting the Agent

Go to the Oracle GoldenGate Core GGSCI terminal and restart the Oracle GoldenGate Monitor Agent by executing the following commands:

```
stop manager
start manager
start jagent
```

Monitor the new Agent log file, \$AGENT_HOME/logs/ogg_agent.log and resolve any issues.

If you are using the Oracle GoldenGate EM Plug-in, after jagent starts correctly you must restart the Oracle Enterprise Manager (OEM) Agent then login to the OEM 12c console to ensure that the out of sync status issues for Oracle GoldenGate registered targets are resolved.

Task 9 Removing the Previous Oracle GoldenGate Monitor Agent Software

Remove the previous Oracle GoldenGate Monitor Agent software that was bundled with Oracle GoldenGate Software by deleting the following:

- OGG_HOME/cfg folder
- OGG_HOME/dirjar folder
- OGG_HOME/pw_agent_util.* files
- OGG_HOME/jagent.* files
- (Optional) If you do *not* store anything related to Oracle GoldenGate Instance in Oracle Wallet, then delete the OGG_HOME/dirwlt directory.

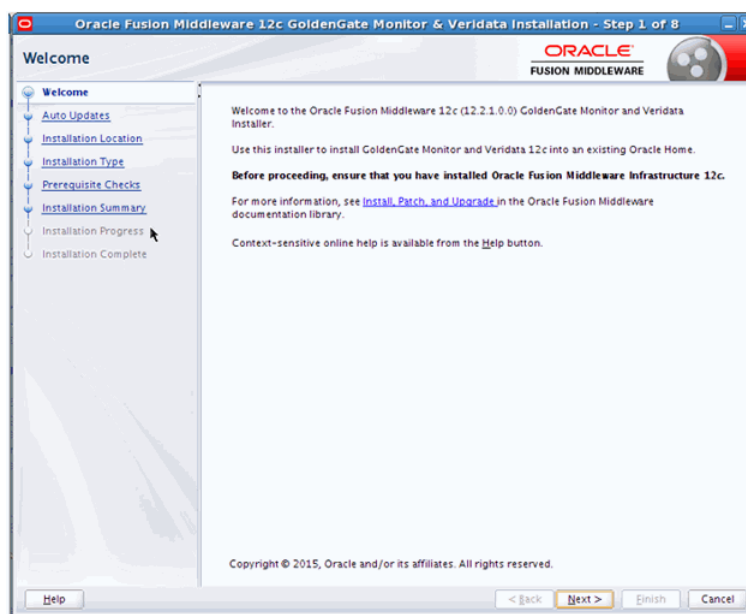
Installation Screens

This appendix contains images and descriptions of the Oracle GoldenGate-specific screens used by the Oracle Universal Installer (OUI). This information is contained in the following sections:

- [Section 5.1, "Welcome"](#)
- [Section 5.2, "Installation Location"](#)
- [Section 5.3, "Installation Type"](#)
- [Section 5.4, "Prerequisite Checks"](#)
- [Section 5.5, "Installation Summary"](#)
- [Section 5.6, "Installation Progress"](#)
- [Section 5.7, "Installation Complete"](#)

5.1 Welcome

This screen introduces you to the product installer.



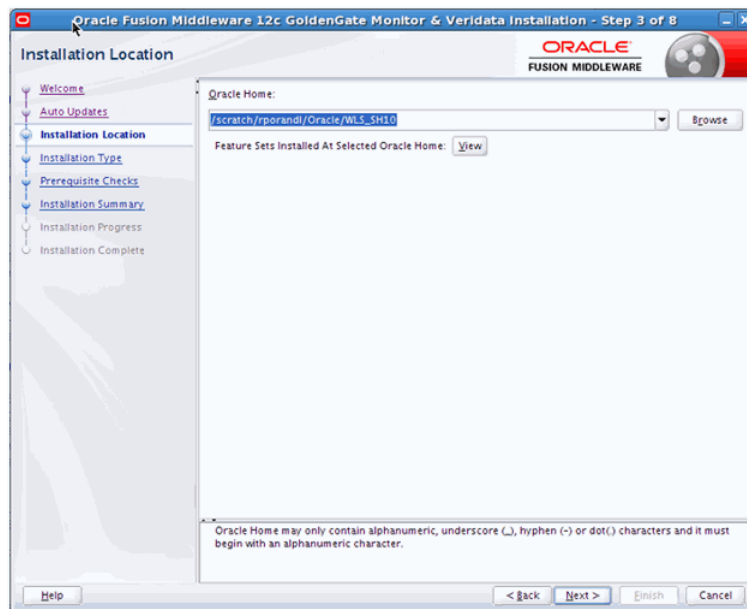
This page provides two important pieces of information:

- A navigation pane on the left that summarizes the tasks the installer will help you complete. Each item in the navigation pane represents a specific installer screen that will prompt you for information required to install the software.
- Information about any prerequisites you might need to perform before continuing with the installation.

Review the information on this screen carefully to be sure you have performed all the necessary prerequisites.

5.2 Installation Location

Use this screen to specify the location of your Oracle home directory.



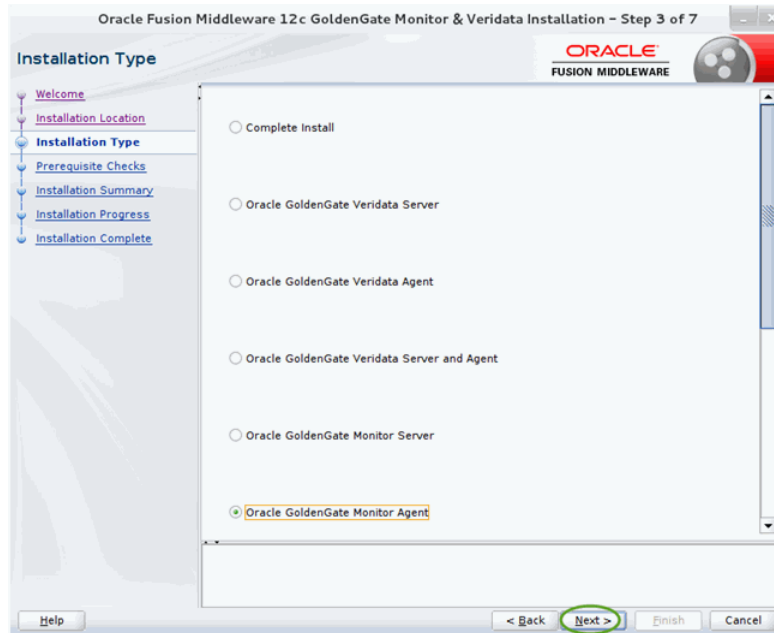
If you have an existing directory into which one or more Oracle products have already been installed, that directory can be viewed in the drop-down list. You can see which products are installed in that particular directory by clicking View next to "Features Sets Installed at Selected Oracle Home."

If you want your product to be installed in a new directory, type the full path of your new directory in the Oracle Home field; the installer will create the specified directory for you.

If you are installing Oracle Fusion Middleware Infrastructure, then the Oracle Common home (oracle_common) directory will be created inside the specified Oracle home directory. The Oracle Common home contains services that are shared across all Oracle Fusion Middleware products.

5.3 Installation Type

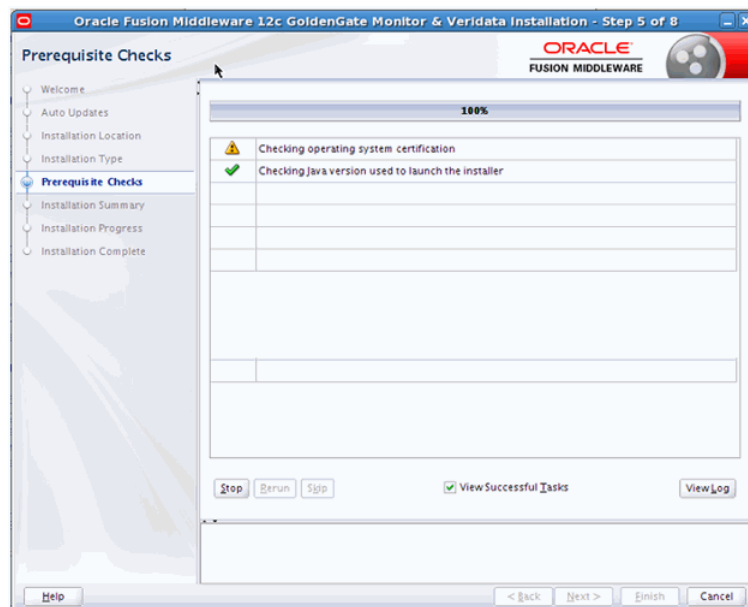
Use this screen to specify the installation type, which defines which products and features are installed.



The options you see on this screen will differ depending on the product you are installing. For this product, select **Oracle GoldenGate Monitor Agent**.

5.4 Prerequisite Checks

This screen analyzes the host computer to ensure that specific operating system prerequisites have been met.



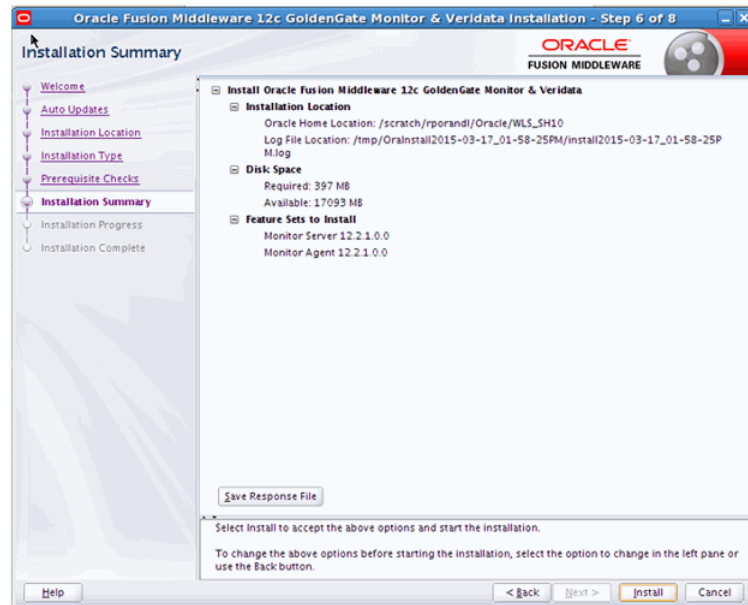
The following table describes the options on this screen:

Button	Description
Stop	Click this button to stop prerequisite checking for all components.

Button	Description
Rerun	Click this button if you have encountered any warning or error messages, addressed them appropriately, and want to try the prerequisite checking again.
Skip	Click this button to ignore any error or warning messages and continue with the installation.
View Successful Tasks	This check box is selected by default, and shows the list of tasks in the main part of the screen as they are completed. De-select this check box if you do not want to see the list of tasks.
View Log	Click this button to open a separate window containing a detailed log file of the prerequisite checking.

5.5 Installation Summary

This screen contains a list of the feature sets you selected for installation, along with the approximate amount of disk space to be used by the feature sets once installation is complete.

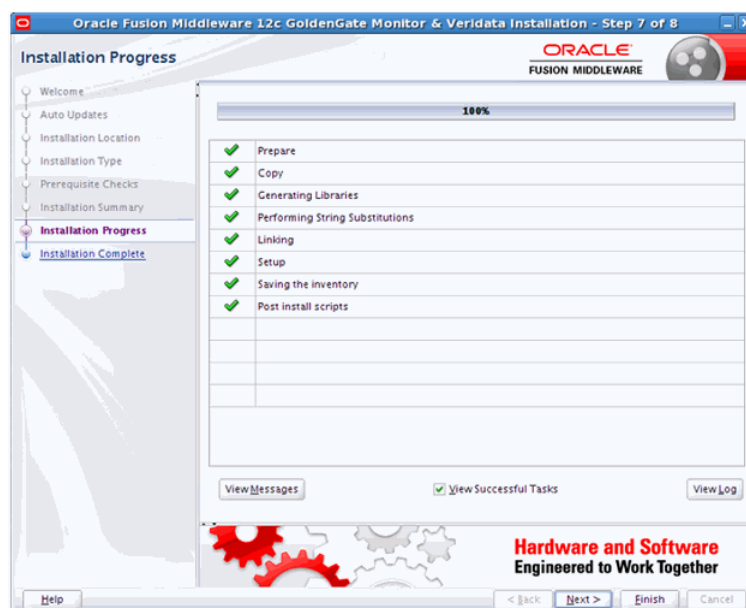


You can click an individual component to display its approximate installed size.

Click **Save Response File** to save this configuration to a response file, which can be used later in a silent install situation. See Chapter 2, "Using the Oracle Universal Installer in Silent Mode" in *Installing with the Oracle Universal Installer* for more information about response file and silent installation.

5.6 Installation Progress

This screen shows the progress of the installation. When the progress bar reaches 100%, the installation is complete.



The following table describes the options on this screen.

Button	Description
View Messages	Click View Messages to see the installer messages at the bottom of the screen, where the billboard is located. Click the button again to return to the billboard.
View Successful Tasks	This check box is selected by default, and shows the list of tasks in the main part of the screen as they are completed. De-select this check box if you do not want to see the list of tasks.
View Log	Click View Log to see the installer log; the log will be displayed in a separate window.

5.7 Installation Complete

This screen appears at the conclusion of the installation and provides a summary of the products and features that were installed.

