

Oracle® Fusion Middleware

Release Notes for Oracle GoldenGate Enterprise Manager Plug-In

13.2.1.0.0

E77937-01

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This document describes the new features, major changes, and the known issues in the Enterprise Manager Plug-in for Oracle GoldenGate 13.2.1.0.0 release. It includes the following sections:

- Section 1, "Overview"
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1 Overview

The Enterprise Manager Plug-in for Oracle GoldenGate extends the Oracle Enterprise Manager (EM) Cloud Control to support for monitoring and managing Oracle GoldenGate processes including the following:

1.1 Home Page

For each process in the instance, the Oracle GoldenGate EM Plug-in home page displays:

- Target name
- Target type, such as Extract, Replicat, or Manager
- Process status
- The lag in seconds
- Sparkline graphs that display lag trends
- Total operations
- Delta operations
- Delta operations per second

- Incidents
- Time elapsed since last Oracle GoldenGate checkpoint
- Timestamp of last Oracle GoldenGate checkpoint
- Viewing summary of all Oracle GoldenGate release 11g (11.2) and later instances on a single, customizable web page.
- In depth examination into dozens of metric values and metric history.
- Automated notifications and ticket creation through incidents.
- Enhanced EM target promotion; simultaneously promoting all targets in an Oracle GoldenGate instance.

1.2 Custom Screens

The Oracle GoldenGate EM Plug-in includes custom screens for:

- Customizing the display on the home page. This allows the you to:
 - Indicate that certain Oracle GoldenGate instances should or should not be displayed on the home page.
 - Change the order of instances displayed.
 - Define an alternate display name.
 - Add a description for an instance.
- Promoting Oracle GoldenGate targets. To simplify the promotion of Oracle GoldenGate instances that may include many Extract and Replicat processes, a custom screen displays all of the processes defined for an instance and allows the user to promote all or a subset in a single action.
- To support high availability, the tab was added to Manage Agent home screen.

1.3 Supported Platforms

The Oracle GoldenGate EM Plug-in supports monitoring of the platforms where Oracle GoldenGate 11g (11.2 and later) instances can run with the following exceptions: HP NonStop and DB2 for i.

1.4 Versions Supported

The Oracle GoldenGate EM Plug-in has been certified on the following product releases:

- Enterprise Manager Cloud Control 13c Release 1 (13.2.1.0.0) and later.
- Oracle GoldenGate versions supported include:
 - Oracle GoldenGate 12c (12.2.0.1.0) and higher.
 - Oracle GoldenGate 12c (12.1.2.1.0) and higher.
 - Oracle GoldenGate 12c (12.1.2.0.1) and higher.
 - Oracle GoldenGate 11g Release 2 (11.2.1.0.20) and higher.
- Oracle GoldenGate Monitor Agent 12c (12.2.1.0.0) and later is required and is the minimum version required to support Start, Stop, Kill, and Edit features.

2 New and Changed Features

This section outlines the new features that are being introduced in Release 13.2.1.0.0.

- TLS 1.2 is enabled between Oracle GoldenGate EM Plug-in agent and Oracle GoldenGate Monitor Agent.

3 New and Changed Parameters and Commands

This section contains information about new and updated Oracle GoldenGate EM Plug-in parameters and Commands as the result of new features or functionality changes in the product for this release.

There are no new parameters or commands in this release.

4 Applicable GGSCI Commands

The following GGSCI commands are applicable to the Oracle GoldenGate:

- `START JAGENT` starts up the JAgent for the Oracle GoldenGate instance.
- `STOP JAGENT` stops the JAgent.
- `INFO JAGENT` and `STATUS JAGENT` indicate whether or not the JAgent is running.
- `CREATE DATASTORE` creates a storage area to hold monitoring information supplied by Oracle GoldenGate Extract, Replicat, and Manager processes.
- `REPAIR DATASTORE` checks that all Extract and Replicat processes are registered and attempts to resolve any internal consistency issues. This should only be used when directed by Oracle Support.
- `CREATE SUBDIRS` creates a directory.
- `START *` to start all the targets.
- `STOP *` to stop all the targets.
- `STATUS EXTRACT` or `STATUS REPLICAT` to know the status of targets.

5 Deprecations

There were no deprecations in this release.

6 Installation and Upgrades

The installation file downloaded from Oracle is not compressed using `gzip`, instead it is a standard ZIP file. To extract the download, use the following methods:

Windows

Use WinZip or another extraction method that supports ZIP files.

Linux, Mainframe, UNIX

Use the `unzip` command to extract the files from the ZIP file.

If you do not have these utilities, you can download them from the Oracle UnZip Utilities Download web site at

<http://updates.oracle.com/unzips/unzips.html>

For installation and upgrade instructions, see *Oracle Enterprise Manager Oracle GoldenGate System Monitoring Plug-In Installation Guide*.

7 Corrected Problems

For questions about specific BugDB bug identification number or Service Request (SR) ticket numbers, contact Oracle Customer Support.

Bug 20545508 - Oracle GoldenGate Monitor agent does not work with Oracle GoldenGate for Java adapter

An issue where the Oracle GoldenGate Monitor agent was not working properly with Oracle GoldenGate for Java adapter was fixed.

8 Known Issues

This chapter describes the known issues you might encounter when you install and configure the Enterprise Manager Plug-in for Oracle GoldenGate.

8.1 Unable to start the Extract parameter in HP-UX-ias 64

If you are unable to start the Extract parameter in HP-UX-ias 64 environment, you can disable the `enablemonitoring` parameter from the `GLOBAL` file as a workaround.

8.2 JDK 7 Update 2 Requirement

For IBM i, Java Platform Standard Edition (Java SE) Development Kit (JDK) 7 Update 2 or later is required with Oracle GoldenGate Monitor Agent 12.2.1.0.0 release.

8.3 Not Able to Start JAgent from GGSCI Console

If JAgent fails to establish a connection with Oracle GoldenGate Monitor server or could not be started from GGSCI console in an Windows environment, you can add the complete Java installation path in `jagent.prm` file as a workaround.

8.4 Unable to Remove Oracle GoldenGate Core Instance from Oracle GoldenGate Enterprise Manager User Interface

If you are unable to remove Oracle GoldenGate core instances from the Oracle GoldenGate Enterprise Manager interface, you can navigate to **Add Target**, select **Configure Auto Discovery**, and then select **Managed Target**. Select the particular target to remove and click the **Remove** button.

8.5 Download Failure

When downloading the Enterprise Manager Plug-in for Oracle GoldenGate as previously described, you may encounter an error when the download is initiated. The output would look like this:

```
Downloading file in staging directory
/scratch/aime/WORKEM12104/mw2587/gcinst2587/em/EMGC_
OMS1/sysman/stage/034148593e245c3de050f00a82634a7f ...
Staging directory cleaned up.
Download failed: Exception: Error downloading file: Server returned invalid
```

```
response. Status Code = 200, Response Text = [OK | <results>
  <error>
    <id>10-013</id>
    <message>Choose valid parameters.</message>
  </error>
</results>
]
```

To solve this problem:

1. Clean up in the self update location. For example:

```
Middlewarehome/gcinst/em/EMGC_OMS1/sysman/cache/selfupdate
```

2. Check whether Enterprise Manager is pointing to *staging* or *production*. If it is pointing to *staging*, then run the following command to point to *production*:

```
emctl set property -sysman_pwd welcome1 -name oracle.sysman.emSDK.core.mos.mos_
url -value https://support.oracle.com
```

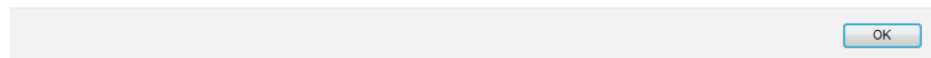
8.6 Oracle Application Development Framework (ADF) Error while Monitoring Oracle GoldenGate Instances

Clicking on **Log** and **Configuration** tab within the Enterprise Manager interface can cause ADF error while monitoring Oracle GoldenGate instances on Linux.

You can close the browser and login again to recover from the error.

Figure 1 ADF Error in Enterprise Manager Interface

ADF_FACES-60097:For more information, please see the server's error log for an entry beginning with: ADF_FACES-60096:Server Exception during PPR, #20



9 Getting Help with My Oracle Support

You can use My Oracle Support to find knowledge solutions, workarounds, and other information that is reported by customers, partners, and Oracle employees. My Oracle Support also enables you to open an SR ticket. If a patch is required to resolve an SR, you will receive instructions about how to download it from My Oracle Support.

Note: If you purchased Oracle GoldenGate and support through a distributor, contact your distributor instead of attempting to create a service request through My Oracle Support.

9.1 Viewing the Oracle GoldenGate Knowledge Base

To view the Oracle GoldenGate Knowledge Base, follow these steps:

1. Browse to the My Oracle Support web site at <http://support.oracle.com>.
2. Select your language and then log in with your email and Oracle password.
3. Click the **Knowledge** tab.

4. In the **Select a product or product line** field, enter **GoldenGate**, and then select an Oracle GoldenGate product from the context-sensitive list to narrow your results. (You may have to wait a few seconds for this list to appear).
5. In the **Enter search terms** field, enter a search keyword or multiple keywords to focus the query.

Additional information about how to use this tab is obtained by clicking **Help**.

9.2 Creating an Oracle GoldenGate SR Ticket

If you cannot find an answer to your question or problem in the Knowledge Base, you can open a support request ticket with Oracle Support by following these steps:

1. Browse to the My Oracle Support web site at <http://support.oracle.com>.
2. Select your language, and then sign in with your credentials. If you have not done so, you will have to register to use this web site.
3. Click the **Service Requests** tab.
4. Click **Create SR**.
5. Use the Create Service Request wizard to complete and submit your SR.
Additional information about how to use this tab is obtained by clicking **Help**.

10 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.

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