Oracle® Fusion Middleware

Introduction

This document introduces Oracle GoldenGate Monitor 12c (12.2.1.2). It comprises the following:

- What's New in this Release
- Prerequisistes
- Corrected Problems
- Known Issues
- Documentation

What's New in This Release?

General Features

- Oracle GoldenGate Monitor doesn't support MySQL database as RCU database. Oracle GoldenGate for MySQL support is present in Oracle GoldenGate Monitor from a monitoring perspective.

- Oracle GoldenGate Monitor supports monitoring OGG for Informix from Oracle GoldenGate Monitor release 12.2.1.0.0 onwards.

- A new Java agent for Oracle GoldenGate Monitor 12c (12.2.1.2) with iSeries support was added in Release 12.2.1.2.170425, May 2017.

- Support for Monitor JAgent to withstand the Oracle GoldenGate Manager RESTful API unavailability was added.

- Support for monitoring instances of Oracle GoldenGate for Big Data was added.

Simplification

- The Monitor UI layout was redesigned for improved information conveyance as follows:

  Monitor Home Page Enhancements

- Data and Alerts View is renamed to Metrics and Alerts
- Historical Data and Alert History Tabs are consolidated as the History Tab
- Alert Definition is renamed to Alert Management

Metrics and Alerts Enhancements

Clicking on an Instance node results in the following tabs displaying in right-hand panel replacing the 'Instance' diagram, Attributes table, and Alerts table:

- Process Metrics Tab
- Manager Metrics Tab
- Logs Tab
- Configuration Tab
- Alerts Tab
- GGSCI Tab

Capture Node Enhancements

Clicking on a Capture node results in the following tabs displaying in right-hand panel replacing the Capture diagram, Attributes table, and Alerts table.

- Metrics Tab
- Logs Tab
- Configuration Tab
- Alerts Tab

Delivery Node Enhancements

Clicking on Delivery node results in the following tabs displaying in right-hand panel replacing the Delivery diagram, Attributes table, and Alerts table.

- Metrics Tab
- Logs Tab
- Configuration Tab
- Alerts Tab

Database Node Enhancements

Clicking on a Database node results in the Metrics tab displaying in right-hand panel replacing the Database's diagram, Attributes table, and Alerts table.

Trial Node Enhancements

Clicking on a Trial node results in the Metrics tab displaying in right-hand panel replacing the Trial diagram, Attributes table, and Alerts table.

Instance Node Enhancements

Clicking on an Instance Node results in the Configuration tab displaying in right-hand panel replacing the Trial diagram, Attributes table, and Alerts table.

The mgr.prm and GLOBALS subtabs are displayed on the Configuration Tab. The `mgr.prm` subtab displays the contents of this file. You can refresh the contents of the `mgr.prm` file using the Refresh button and edit it using the Edit button.

Capture' Node/Delivery Node – 'Configuration' Tab

The Capture process related parameter file is displayed on the Configuration' Tab You can refresh the contents of this file using the Refresh button and edit it using the Edit button.

- The configuration of Email, SNMP, and CLI for alert actions was redesigned so that the User Interface (UI) is used.

- The Solution Graph was enhanced to bookend databases.

- The instance diagram is replaced by a tabular layout.

- The Problem Summary and Solution title icon were removed.

- The UI tab and subtabs appearance was modified to condense the information for better classification and ease of use.

- Compact domain support was replaced with Extended Domain support for SQL Server.

Manageability

- Ability to run GGSCI commands from the UI was added.

- Ability to alert on more Monitor Points was added.

- In addition to the `Message.Code` and `Message.Severity` attributes, you can now configure alerts using the `Message.Text` attribute. This new metric was added in the Metrics drop-down list on the Alert Definition Tab.

- Monitor Alerts now include additional existing monitoring points. By default, all Monitor Alerts include the following Oracle GoldenGate Monitor instance Metrics for the 'Instance', 'Capture', and 'Delivery' object types :

```
OGG Instance Details:
OGG Hostname =abc.host.com
OGG Working Directory = /root/core
OGG Manager Port = 7650
```

Security

- Instance Level security for the Alert Module.

Extensibility

- Ability to run multiple Monitor Agents to services both Oracle GoldenGate Monitor and Oracle GoldenGate Monitor Enterprise Management Plug-In.

For more information on these feature and additional links to their documentation elsewhere in the product library, see "What's New?" in *Administering Oracle GoldenGate Monitor*.

Oracle GoldenGate With a Sharded Database

Oracle GoldenGate provides a cohesive platform for a sharded Oracle Database.

Sharding is only available with Oracle Database 12.2.0.1 or later, over a secure MA deployment. You need to make sure that you setup your SSL certificate before you setup sharding. To configure a sharded Oracle Database with Oracle GoldenGate, see Configuring Sharding for Oracle GoldenGate.

Advantages of Oracle GoldenGate Sharding

Oracle GoldenGate provides a complete data replication platform for sharded databases.

This is a powerful capability with the following advantages:

- Horizontally partitions data and workload across numerous discrete Oracle databases that do not share hardware or software

- Enables automatic partitioning and replication, elastic scaling, rebalancing, data-dependent routing for single-shard and cross-shard queries

- Provides an enterprise-class database platform for new generation developers who:

  - Explicitly design applications to scale linearly with fault tolerance

  - Assume schema flexibility with JSON

  - See benefits in the power of relational SQL and ACID

- Active replication within and across shardgroups

- Flexible Deployment, which could have single shardgroup for high availability, multiple shardgroups with varying replication factors

- Different shardgroups can have different replication factors, different number of shards, different hardware platforms and OS versions, or different database versions and patch sets.

Prerequisites

Oracle GoldenGate Monitor 12c (12.2.1.2.0) requires that the following are installed:

- Java SE, JDK 8u40 and greater

- WebLogic Server 12c (12.2.1) with JRF

- One of the following supported databases:

  - Oracle 11gR2, 12c

  - Microsoft SQL Server 2008, 2012

For more information, see "Preparing to Install" in *Installing and Configuring Oracle GoldenGate Monitor*.

Corrected Problems

This section contains information about bugs that have been corrected. For questions on specific bugs or ticket numbers, consult Oracle Customer Support. SR is the Oracle Support SR number, and BugDB is the bug identification number. The information in this section is divided into the following releases:

Release 12.2.1.2.171115 — November 2017

Bug 22179784 - Edit Big Data Handler Properties Files from Monitor

The issue of editing the Big Data parameter properties files was fixed.

Bug 20714185 - Improve Oracle GoldenGate Monitor Server's Data Purging Options

The issue with the data purging options has been fixed. After applying the Oracle GoldenGate Monitor patch 12.2.1.2.171115 (PS2 BP3), optionally, you can execute a table re-partition script to optimize the history purging feature when the Oracle GoldenGate Monitor uses the Oracle database. Once the script execution is completed, it reduces the time needed to purge historical data by using the Oracle GoldenGate Monitor server user interface.

You need to do the following :

1. Stop the Oracle GoldenGate Monitor Server.

2. Apply patch 12.2.1.2.171115 (PS2 BP3) if you have not yet applied it.

3. Run the following script as SYSDBA user and enter the Oracle GoldenGate Monitor Repository User Name when asked for parameter 1 — `<ORACLE_HOME>/oggmon/plugins/upgrade/scripts/grant_permission_oracle.sql`.

4. Run the following script as Monitor Repository User — `<ORACLE_HOME>/oggmon/plugins/upgrade/scripts/oracle_partitions.sql`.

5. Start the Oracle GoldenGate Monitor Server.

BUG 26630294 - OEM Plug-in Support for Non-default Report and Parameter File Directory Location

The issue with the Oracle GoldenGate Monitor Java Agent parameter files not being visible to the customers was fixed.

Bug 25798253- Need to Make JAgent Compatible with Oracle GoldenGate 12.3 Classic Mode

Starting with the Oracle GoldenGate Monitor patch 12.2.1.2.171115 and for the upcoming releases, JAgent is compatible with the Oracle GoldenGate 12c (12.3.0.1) Classic Architecture.

Bug 25507045 - The goldengate.jar script hangs, unable to discover OGG/sql server targets OEM 13c

A reentrant lock was added for an MBeans update to correct this issue.

Release 12.2.1.2.170425 — May 2017

No new bugs were added in the 12.2.1.2.170425 release.

Release 12.2.1.2.170215 — February 2017

Bug 21909349 - Unable to create alerts after upgrading MSSQL MON121300 to 122100

An issue where alerts were not created after upgrading from **MSSQL MON121300** to **MSSQL MON122100** was fixed.

Bug 21943985 - Pre-upgrade alerts throwing "An unresolvable error " after upgrading to 122100

An issue where the pre-upgrade alert **An unresolvable error** was thrown after upgrading to **122100** was fixed.

Bug 22004103 - Handling of missing metric by JAgent

An issue with JAgent and missing metric in Oracle GoldenGate Core was fixed.

Bug 23564507 - JAgent should stop if RMI/JMX ports are not available

An issue where JAgent continued to run without available RMI/JMX ports was fixed.

Bug 23756494 - Unavailability of Manager process by JAgent

An issue with unavailability of the Manager process was fixed.

Bug 24324655 - MON:ogg_agent.log includes warning related to monitor.jmx.port even in OEM mode

An issue where the `MON:ogg_agent.log` included warnings related to `monitor.jmx.port` in OEM mode was fixed.

Bug 24477119 - Instance status changing from "Stopped" to "Running" after Re-login

An issue where the status of Oracle GoldenGate Monitor instance was changed from **Stopped** to **Running** after re-login was fixed.

Bug 24525589 - JAgent needs to print its version in the ogg_jagent.log with any debug level

An issue where the JAgent version was not updated in the `ogg_jagent.log` was fixed.

Bug 25101869 - MON:ogg.agent.log is not generated if JAgent is started by startMonitorAgtInstance.sh

An issue where the `MON:ogg.agent.log` was not generated when JAgent was started using **startMonitorAgtInstance.sh** was fixed.

Bug 25289835 - JAgent support for remote monitoring using JMX

You can use JAgent to remotely monitor in OEM mode using static ports. By default, remote monitoring is disabled. You can enable this by changing the two properties `jmx.enable.remote.monitoring=true`, and `jmx.broker.port=default (any valid port number)`.

Release 12.2.1.2.0 — October 2016

Bug 23285087 - Issue with Query String, unable to discover OGG

An issue with the query string where Oracle GoldenGate Monitor was not able to discover Oracle GoldenGate targets was fixed.

Bug 22593701 - Spelling issue in StartMonitorAgent Script

A spelling issue in `startMonitorAgentInstance.sh` was fixed.

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

An issue where JAgent was not functioning properly with Oracle GoldenGate for Java adapter was fixed.

Release 12.2.1.0 — October 2015

Initial Release.

Known Issues

This chapter describes issues that are known to exist in Oracle GoldenGate Monitor. The information in this section is divided into the following releases:

Version 12.2.1.2.111715 — November 2017

The following is a Known Issue in this version:

- **Bug 26577251 - Monitor Server writes too many logs in Archive log**.

  Ensure not to install monitor server with the Archive log mode on. If you install the Monitor server with the Archive mode on, then the archive log growth is relatively higher. Therefore, you need to clean up archive log periodically. To avoid this, it is recommended that you to install the Monitor server with no archive mode.

Release 12.2.1.2.170425 — May 2017

No known issues were added in the 12.2.1.2.170425 release.

Release 12.2.1.2.170215 — February 2017

Bug 25507045 - goldengate.jar script stops responding and is unable to discover OGG/SQL Server targets in OEM 13c

You may encounter intermittent thread deadlock issue with Oracle GoldenGate Monitor Agent during target discovery on Windows platform.

Release 12.2.1.2.0 — October 2016

Bug 24735971 - Jagent log display "Invalid username/password" after upgrade to 12.2.1.2.0

JAgent log can display "Invalid username/password after upgrade to 12.2.1.2.0. As a workaround, after Oracle GoldenGate Monitor Server upgrade, copy the following three property values from `monitor.properties.bak` to `monitor.properties` file located in `<Monitor-Domain>/config/monitorserver/cfg/` directory.

The property values to be replaced are:

- `monitor.jmx.server.host`
- `monitor.jmx.server.port`
- `monitor.jmx.server.user`

Next, manually verify all the other property values in `monitor.properties` file and replace them with the older values from `monitor.properties.bak` file.

Release 12.2.1.2 — August 2016

Schema upgrade not required for Oracle GoldenGate Monitor

Schema upgrade from 12.2.1.0.0 to 12.2.1.2.0 is not required and messages **ALREADY_UPGRADED** and **Upgrade not necessary** are displayed during readiness check. This is the standard functionality.

Release 12.2.1.0 — October 2015

No `oggmon.properties` in the WebLogic Server Domain After T2P

After T2P, if the target machine does not have the `oggmon.properties` file in the `WLS_DOMAIN_HOME`/cfg directory, then you must run the `updateOGGMonitorConfig` script on target machine in T2P.

Jagent on Windows Does Not Connect to the Monitor Server.

For Windows, if the JAgent s not connecting to the Monitor Server, then you need to add the absolute Java JDK8 path explicitly in the `jagent.prm` file.

For DB2 on Z/OS: JAgent Stops Unexpectedly

If JAgent should stop unexpectedly, modify the memory options in the `jagent. prm` file using these steps:

1. Edit the `jagent.prm` file in the `OGG_AGENT_INST_HOME`/dirprm directory.

2. Locate the `Xms` and `Xmx` memory options then change them to `-Xms512m -Xmx550m`.

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

   ```
   GGSCI> stop jagent
   ```

4. Backup your `ogg_agent.log` file.

5. Start JAgent from GGSCI:

   ```
   GGSCI> start jagent
   ```

Oracle GoldenGate Monitor Documentation

For more information, see the following documents in the Oracle GoldenGate Monitor 12*c* (12.2.1.2.170215) documentation set:

- *Administering Oracle GoldenGate Monitor*
- *Using Oracle GoldenGate Monitor*

- *Installing and Configuring Oracle GoldenGate Monitor*

- *Upgrading to Oracle GoldenGate Monitor 12.2.1*

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