

# Oracle GoldenGate Management Pack



## ORACLE GOLDENGATE MANAGEMENT PACK

### KEY FEATURES

- Web-based interfaces for event monitoring and managing Oracle GoldenGate components
- Integration with Oracle Enterprise Manager
- Alerting via email, SNMP and third party integration
- Near zero impact implementation that retains high-performance capabilities of Oracle GoldenGate

### KEY BENEFITS

- Achieve real-time visibility into service health of your Oracle GoldenGate deployments
- Consolidate information from multiple instances of Oracle GoldenGate to improve process management
- Minimize the time to troubleshoot and resolve replication issues

Oracle GoldenGate Management Pack provides components that enable monitoring and management of Oracle GoldenGate components implemented across your business landscape. It has intuitive and graphical user interface options that helps you to improve productivity of your IT staff, leverage existing infrastructure to maximize return on investment, and reduce time to value for continuous availability, real-time data integration and zero downtime migration solutions.

## Oracle GoldenGate Management Pack Overview

The Oracle Management Pack for Oracle GoldenGate license includes 3 products:

- **Oracle GoldenGate Plug-In for Oracle Enterprise Manager.** Provides secure viewing, management, and alerting capabilities for Oracle GoldenGate while leveraging the Oracle Enterprise Manager framework.
- **Oracle GoldenGate Monitor.** A standalone product that provides secure viewing, management, and alerting capabilities for Oracle GoldenGate with end-to-end topology solution displays and customizable topology views.
- **Oracle GoldenGate Director.** A stand-alone product for basic configuration, management, monitoring, and alerting for legacy Oracle GoldenGate deployments.

## Oracle GoldenGate Monitor 12c

The Oracle GoldenGate Monitor communicates with core Oracle GoldenGate components to provide a complete, real-time view of all your real-time data integration and replication solutions with Oracle GoldenGate. Oracle GoldenGate Monitor is designed to take advantage of the low-impact monitoring agent that is included with Oracle GoldenGate. The agent collects information — such as status, lag, number of inserts, updates, and deletes— from an Oracle GoldenGate replication instance and sends those metrics to the GoldenGate Monitor Server. Using this data, Oracle GoldenGate Monitor graphically displays your end-to-end replication solutions and provides sophisticated server side alerting logic. The product provides users with the following:

**Automatic end-to-end solution discovery.** When you start your Oracle GoldenGate processes, the agent registers with the Oracle GoldenGate Monitor Server. The server uses information provided by the agent to link the loosely coupled components into end-to-end solutions, which are displayed as flow diagrams.

## ORACLE GOLDENGATE MANAGEMENT PACK

Oracle GoldenGate Management Pack simplifies the management and monitoring of Oracle GoldenGate processes to achieve fast time to value for high availability and real-time data integration solutions.

## RELATED PRODUCTS

The following products support and complement Oracle Management Pack for Oracle GoldenGate

- Oracle GoldenGate
- Oracle GoldenGate Veridata
- Oracle GoldenGate for Big Data
- Oracle GoldenGate Application Adapters

**Comprehensive set of metrics.** The solution provides a comprehensive list of metrics including process status, lag, number of inserts, updates, and deletes, and checkpoint position.

**Customizable views.** Complementing the automatic solution discovery capability are customizable views. You can drag and drop various GoldenGate components onto a single view and share them with the rest of your team.

**Customizable alert notifications.** Oracle GoldenGate Monitor alerts can automatically notify you and external programs when a specified condition exists for a GoldenGate component. Oracle GoldenGate Monitor alerts are viewable from the graphical UI and highlighted in the Solutions screen. Alerts can be integrated with your existing alerting infrastructure based on SNMP, email and command line integration (CLI) for third-party call outs. Users can define suppression intervals so that the product sends an alert's notification only once for a given time interval. Oracle GoldenGate Monitor gives users full control over defining alert conditions on dozens of metrics, allows definitions to be based on specific Oracle GoldenGate error codes and severities, and provides for compound conditions.

**Drill into process monitoring points.** Checking the status of your customized views and automatically generated end-to-end solutions is a fast and easy way to see the health of your Oracle GoldenGate infrastructure at a glance. Clicking each component brings up several critical metrics, such as current number of inserts, updates, and deletes, checkpoint information, and last error log message. You can further drill down into each metric's history.

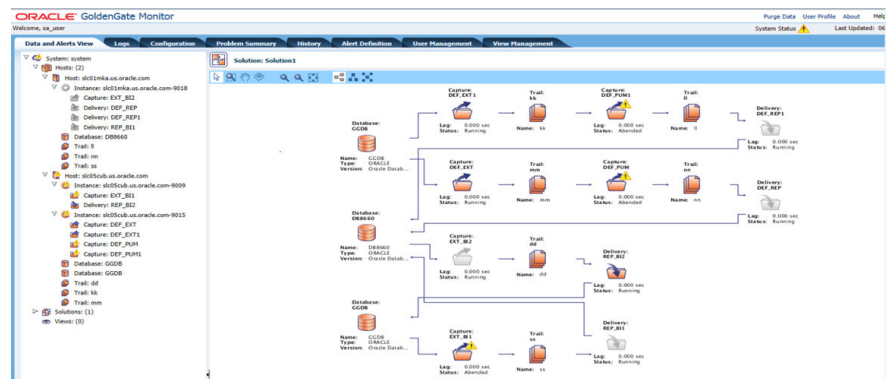


Figure 1: Oracle GoldenGate Monitor enables to view your end-to-end solutions as flow diagrams.

## Key New Features in Oracle GoldenGate Monitor 12c

Oracle GoldenGate Monitor 12.2.1 has a lot of simplicity enhancements such as simplified solution graph, simplified metrics table instead of instance diagram, simplified tab layout for improved productivity and improving overall display area for better visibility and usability. GGSCI commands can be now remotely executed from an internet browser. This save a lot of time and effort for the administrators to check the GGSCI response from remote nodes without logging into those machines physically. Metrics history is now available as a configurable graph for better analytics.

Oracle GoldenGate Monitor 12.2.1 also provides improved manageability enhancements such as creating and managing templates for SMTP, Email and CLI using Monitor UI. New metric alert called Message Text is being supported in addition to Message Severity and Code metrics. This new version also can run multiple JAgent for multiple monitoring solutions for the same Oracle GoldenGate instance. Additionally, the JAgent and server communication has been improved for optimized and faster communication.

Oracle GoldenGate monitor 12.2.1 now integrates with Oracle WebLogic Server 12.2.1 with JRF. It now brings in support for monitoring Informix and iSeries end points as well

## Architecture

Oracle GoldenGate Monitor uses industry standard technologies to deliver a robust and lightweight Web-centric solution to monitor Oracle GoldenGate modules throughout the enterprise.

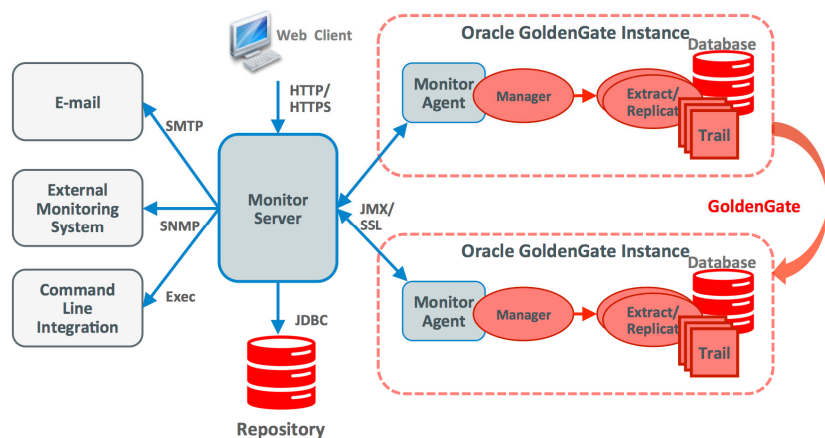


Figure 2: Oracle GoldenGate Monitor product uses a standards-based architecture

Oracle GoldenGate Monitor consists of the following components:

**Oracle GoldenGate Monitor Server.** The Oracle GoldenGate Monitor Server coordinates the monitoring of multiple Oracle GoldenGate instances. The Oracle GoldenGate Monitor Server processes information from Oracle GoldenGate Monitor agents and communicates it to the Web browser as well as manages users, history, the display of information, and notifications triggered by events. GoldenGate Monitor is now integrated with latest Oracle Web Logic Server with the Oracle Application Development Framework's Application Development Runtime (formerly known as Java Resource Files, or JRF). It supports single sign on (SSO) and provides additional security roles to manage new command and control features.

**Oracle GoldenGate Monitor Agent.** The Manager process for each Oracle GoldenGate instance is associated with an Oracle GoldenGate Monitor Agent that supplies information about the GoldenGate instance to the Oracle GoldenGate Monitor Server. In previous versions, an Oracle GoldenGate Monitor Agent was installed with each Oracle GoldenGate instance.

**Oracle GoldenGate Monitor Repository.** The Oracle GoldenGate Monitor Server uses a database as a central repository which can be purged at a user-controlled interval. This repository stores information about users' access privileges to GoldenGate instances, process statuses, monitoring points, alerts, and additional information.

## Oracle GoldenGate Plug-In for Oracle Enterprise Manager 13c

Oracle GoldenGate is integrated with Oracle Enterprise Manager 13c for monitoring and alerting via the GoldenGate Plug-in for Enterprise Manager 13c. The license for the GoldenGate Plug-in for Oracle Enterprise Manager is included with Oracle GoldenGate Management Pack license. The following image depicts an example of Oracle GoldenGate Plug-in's capabilities in Oracle Enterprise Manager.

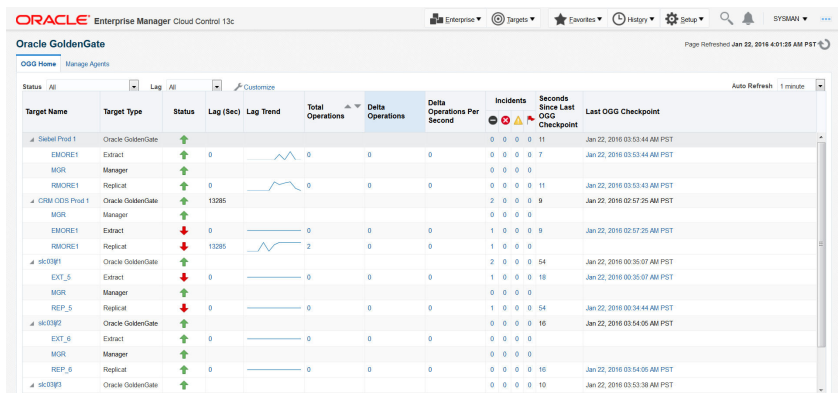


Figure 3: The Oracle GoldenGate Plug-in for Oracle Enterprise Manager allows users to have a comprehensive visibility into Oracle GoldenGate deployments

## Key New Features in Oracle GoldenGate Plug-In 13c

Oracle GoldenGate Plug-in for Oracle Enterprise Manager 13.2.1 is certified to work with Oracle Enterprise Manager 13.2. New key features in this release includes Transport Layer Security (TLS) protocol support and Internet Protocol version 6 (IPv6) support.

## Architecture

The Oracle GoldenGate Plug-in for Oracle Enterprise Manager extends the common product architecture with Oracle GoldenGate Monitor through the Monitor Agent using EM Agent.

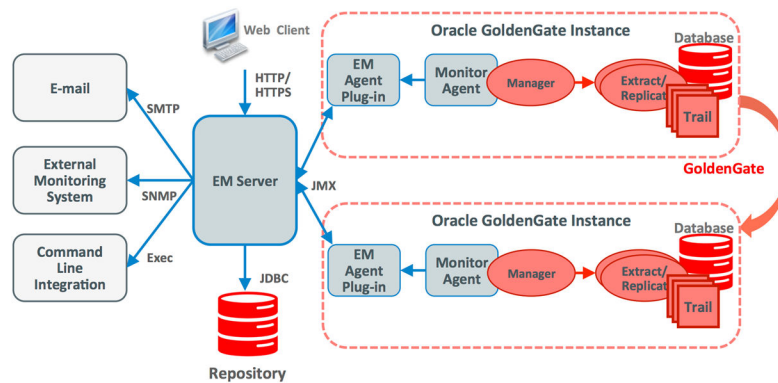


Figure 4: Overview of the architecture for the Oracle GoldenGate Plug-In for Oracle Enterprise Manager.

## Oracle GoldenGate Director – Configuration & Administration

The Management Pack for Oracle GoldenGate license also includes Oracle GoldenGate Director. GoldenGate Director is a graphical tool that supports the monitoring and basic administration of legacy GoldenGate implementations.

## Summary

Management Pack for Oracle GoldenGate includes three complementary products: the Oracle GoldenGate Enterprise Manager Plug-in for monitoring and managing GoldenGate in the context of your entire enterprise; Oracle GoldenGate Monitor for focused monitoring and managing of Oracle GoldenGate solutions only; and Oracle GoldenGate Director for managing and monitoring legacy Oracle GoldenGate components. Together they empower the new and seasoned Oracle GoldenGate users alike with enterprise level monitoring, alerting, and management of Oracle GoldenGate solutions.



## CONTACT US

For more information about Oracle Management Pack for Oracle GoldenGate, visit [oracle.com](http://oracle.com) or call +1.800.ORACLE1 to speak to an Oracle representative.

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**Hardware and Software, Engineered to Work Together**

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