

Oracle Cloud Infrastructure GoldenGate

Simple. Intuitive. Managed. A real-time fabric platform with
Oracle Cloud Infrastructure GoldenGate

January 2026, Version 1.11.03
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Public

Introduction

Leading business practices continue to demand more information and to make better, faster, deeper use of that information. Trusting your increasingly diverse and global transaction and knowledge fabric has become essential to innovation and competitiveness. Real-time use cases now include analyzing data-in-motion, and enabling real-time GenAI large language models.

Used by many of the world's largest organizations for over 20 years, GoldenGate has been a leader for highly availability, as well as real-time heterogeneous data replication and integration, streaming analytics, and online database migrations.

Oracle Cloud Infrastructure (OCI) GoldenGate extends these capabilities into a fully managed cloud service. OCI GoldenGate connects your event-driven, hybrid and multicloud data fabric for conventional operational and analytical use cases to next generation real-time GenAI knowledge experiences.

Foundation for a Real-Time Data Fabric

With minimal impact on source systems, OCI GoldenGate supports a real-time heterogeneous data fabric that connects and unifies five styles of data integration processing:

- Real-time changed data (CDC) with transactional integrity
- Real-time connectors for highspeed big data ingest
- Real-time continuous integration (CTL) with no source impact
- Bulk ETL/ELT with Data Transforms
- Real-time streaming analytics for data-in-motion
- Validation of data synchronization

In addition, OCI GoldenGate supports connectivity to the most popular SaaS applications allowing real-time or batch SaaS data integration with downstream systems.

Extensive Enterprise Connectivity

OCI GoldenGate connects to 100s of databases, data stores, messaging services, applications, internet business services, and more. See the [GoldenGate and Data Transforms](#) documentation for the latest connectors.



Figure 1: OCI GoldenGate supports 100s of connectors across clouds, databases, technologies, and application services.

Key Capabilities

- Change data capture database replication
- Optimized for Oracle AI Autonomous Databases
- Data propagation to non-Oracle and big data technologies
- Capture real-time streaming events and process pipelines
- Streaming visualizations and geolocation analytics
- Generate and feed real-time data products
- Enables real-time enterprise data fabric
- Continuous stream processing and transformation
- Transform and shape data at scale

Key Use Cases

- Transaction replication
- Data warehouse and data lakehouse ingest
- Database high availability
- Real-time data transformation
- Batch data transformation
- Oracle and non-Oracle SaaS integration
- Database migrations
- Big Data sources and targets
- Validation of data synchronization

Broad Topology Support

- On-prem to Oracle Cloud
- Oracle SaaS to Oracle Cloud
- Oracle Cloud Cross Region
- On-prem to Oracle AI Autonomous Databases
- Oracle AI Autonomous Databases to Oracle AI Autonomous Databases
- Non-Oracle Cloud to Oracle Cloud
- Oracle Cloud to non-Oracle Cloud



OCI GoldenGate Enterprise Use Cases

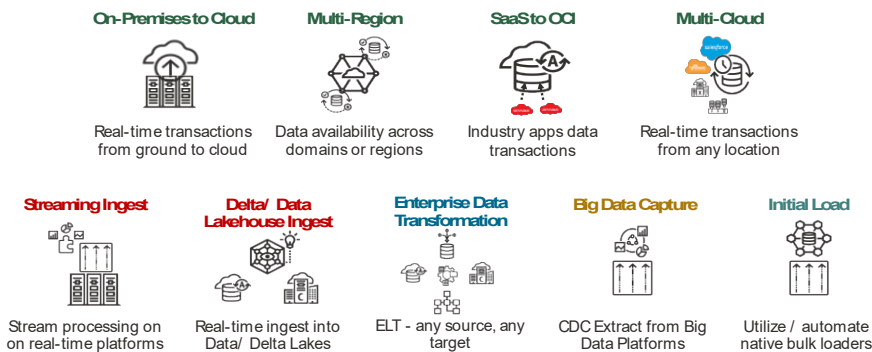


Figure 2: Comprehensive support for enterprise use cases

- Real-Time Data Warehouse.** Provide continuous, real-time capture and delivery of changed data between OLTP and data warehouse systems. It is uniquely optimized to capture from and deliver to Oracle Exadata, Autonomous Data Warehouse, and Autonomous Transaction Processing platforms to enable real-time data warehousing or data consolidation solutions.
- Data Lakehouse ingest.** Provide continuous, real-time capture and delivery of changed data between OLTP and Object Storage, Data Lake, or Data Lakehouse system. OCI GoldenGate delivers data to Oracle or non-Oracle platforms like Oracle AI Data Platform, Oracle AI Data Lakehouse, Snowflake, Azure Data Lake, Google BigQuery, Databricks, Microsoft Fabric, and other Cloud Object Store systems for this purpose, including support for Iceberg Open-Table formats.
- Oracle and non-Oracle data replication.** OCI GoldenGate can connect to many non-Oracle and open-source databases across on-premises and cloud platforms. OCI GoldenGate can also integrate across multicloud sources and targets such as Kafka, NoSQL databases (i.e. MongoDB, Cassandra), object storage, Hadoop, and more.
- Transform and shape data at scale.** OCI GoldenGate utilizes Data Transforms to build data pipelines for your analytics, data science, and data lakehouse projects. The optimized and native batch data loading capabilities are tuned for moving high volumes into Oracle and non-Oracle targets such as Exadata Cloud Service, Oracle AI Autonomous Databases, and Snowflake.
- Stream Analytics and Stream Processing.** OCI GoldenGate utilizes Stream Analytics to enable users to model, process, analyze, and act on real-time streaming information using sophisticated correlation patterns, time-series analytics, geospatial analysis, and machine learning, all with a GUI that makes building self-service data products quick and easy.
- SaaS applications.** Direct integration with Oracle and non-Oracle SaaS to deliver real-time change data capture* and batch data movement to

Key Benefits

- Single data integration platform for changed data replication, big data propagation, SaaS app integration and stream analytics
- Extensive connectivity across 100s of Oracle and non-Oracle technologies and services across on-premises and all clouds
- Enable high-performance data replication with minimal impact to production systems
- Critical foundation for a real-time, heterogeneous, and distributed enterprise data fabric
- Enhance decision-making with trusted, real-time data
- Fully Oracle managed data fabric service
- Subscription based pricing with auto-scaling compute resources
- Automated lifecycle management
- Disaster recovery, backup and restore
- Access and integrate mission-critical applications without disruption

Topologies

- OCI GoldenGate is available today in 50+ OCI regions, 15+ Azure regions (with many more pending) and plans are underway for availability in GCP and AWS!



downstream systems providing deeper analysis and business insight.

**Controlled availability for Fusion Applications. (HCM not supported)*

- **Operational reporting.** Offload data from production databases to lower cost storage and platforms for real-time reporting.
- **Operational data integration.** Integrate operational data between OLTP systems in real-time. Enable developers using service-oriented architectures to access real-time changed data and schemas.

Maintain Continuous Availability of Critical Systems

Oracle Cloud Infrastructure GoldenGate helps organizations eliminate the downtime caused by both unplanned and planned outages, while improving system performance and scalability. OCI GoldenGate can be configured to support the following scenarios:

- **Zero-downtime operations.** Enable uninterrupted business operations during system upgrades, migrations, and maintenance activities.
- **Scalable Active-Active architecture.** Synchronize changes made across two or more databases to scale out workloads, provide increased resilience and near instantaneous failover across multiple geographic regions. Supports bidirectional replication with automated collision detection and resolution.
- **Data distribution.** Replicate data for distributed applications in real time across geographies for reliable access to timely data.
- **Query offloading.** Ensure high performance for production systems while supporting read-only activities by replicating data between heterogeneous sources and targets.


Conclusion

OCI GoldenGate provides a fully managed real-time data fabric platform that helps organizations harness the value of their IT investments and improve business operations by providing continuous access to mission-critical information in real time. OCI GoldenGate addresses a wide array of continuous availability, disaster tolerance, data integration and streaming requirements. The fully managed service provides a modular foundation that easily scales to address the high-volume, low-impact data integration, streaming and replication challenges faced by enterprises today.



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