

# Powering Real-Time Data for Modern Apps and Analytics

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GoldenGate for Distributed Applications and Analytics 26ai

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## Introduction

In today's experience-driven landscape, micro-services architectures are a cornerstone for delivering exceptional customer experiences. These architectures leverage distributed analytics platforms to unlock valuable insights from customer data, fostering the agility needed to respond to real-time customer needs. However, integrating real-time data into this complex ecosystem, especially for micro-service based applications, remains a significant challenge. Traditional data pipelines struggle to keep pace with the high-throughput, low-latency demands of micro-services.

GoldenGate for Distributed Applications and Analytics (GG for DAA) is a solution tailored for the challenges of micro-services. This single, user-friendly package empowers data engineers and application developers by reducing integration complexity and streamlining data flow specifically for micro-service architectures. GG for DAA guarantees high-performance, lossless data delivery to its designated targets, including cloud warehouses for in-depth analytics, message streaming platforms for real-time communication, and NoSQL data stores for flexible storage – all without impacting the source system's performance.

## Foundation for Micro-Services and Distributed Analytics

Built for the demands of today's data landscape; GG for DAA empowers you to build a high-performance, real-time data integration layer for modern applications and analytics architectures.

Unlike generic data integration tools, GG for DAA is specifically designed with micro-services architectures in mind. It provides distributed transaction coordinator services and uses AsyncAPI standards for publishing source DDL operations in several formats. It also offers seamless integration with cloud warehouses and lakehouses for delivering faster insights and a data-driven edge. In the same package, native message streaming connectors enable users delivering real-time data to leading message streaming platforms.

**Focus on Micro-Services and Distributed Applications:** GG for DAA enables developers to use distributed transactions to ensure data consistency across microservices based apps. You can empower phased modernization initiatives to safely migrate off legacy monoliths by keeping business processes in sync between legacy & modern apps during the migration lifecycle. In many cases, it is as easy as modifying a few lines of code modified or added to an existing microservice.

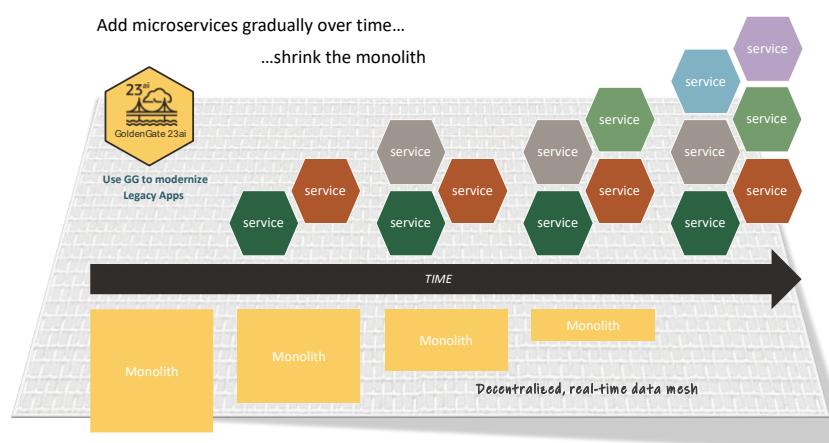


Figure 1: Application Modernization with GG for DAA

**Providing a standard specification for event-driven APIs:** New GoldenGate AsyncAPI (GoldenGate Data Streams) allows customers to ingest transactional data straight from capture processes and supports several formats for interaction with

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## Key Capabilities

- Optimized for micro-services and analytics data stores
- Data capture from NoSQL data stores
- Capture real-time streaming events and process pipelines
- Streaming visualizations and geolocation analytics
- Enables real-time data products
- Enables real-time distributed transactions
- Continuous stream processing and transformation
- Transform and shape data at scale

## Key Use Cases

- Transaction replication
- Data warehouse and data lakehouse ingest
- NoSQL data store migrations
- Real-time data transformation
- Oracle and non-Oracle SaaS integration
- Transaction Outbox pattern
- Big Data sources and targets

## Broad Topology Support

- On-prem to Oracle Cloud
- Oracle SaaS to Oracle Cloud
- Oracle SaaS to 3<sup>rd</sup> Party Cloud
- Oracle Cloud Cross Region
- On-prem to Autonomous Database
- Non-Oracle Cloud to Oracle Cloud
- On-prem to non-Oracle Cloud
- Oracle Cloud to Non-Oracle Cloud

## Key Benefits



other products in a Pub/Sub model. It supports exactly once semantics and allows the user applications to retrieve the data, in user specified format, from Oracle GoldenGate Microservice deployments directly through dedicated websocket channels.

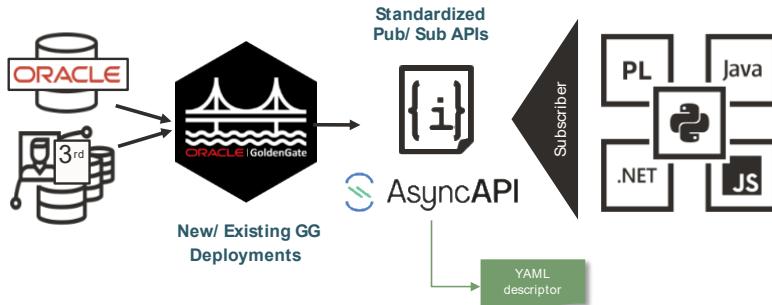


Figure 2: GG for DAAi AsyncAPI Support

**Empowered, Real-Time Decisions:** GG for DAA empowers data engineers and analysts to streamline real-time data delivery to data lakehouses. This eliminates data latency, enabling you to gain faster insights and make data-driven decisions in real-time. GG for DAA seamlessly transforms your data into industry-standard formats like JSON, XML, Avro, ORC, and Parquet, ensuring seamless integration with various analytics platforms. This unique optimization for high-volume data ingestions ensures your data lakehouses are always up to date, empowering faster and more collaborative decision-making across your organization.

**Accurate and Reliable Universal Streaming Replication:** GG for DAA serves as a central hub for universal message streaming, seamlessly delivering high-volume, low-latency real-time data to leading message streaming platforms. It ensures your data reaches its destination accurately and in the correct sequence. This means you can be confident that real-time analytics and downstream applications are working with consistent, high-fidelity data, even with high volumes. This eliminates the risk of errors or misleading insights that could impact critical decisions.

**No Downtime NoSQL Migrations:** GG for DAA enables developers to migrate data from NoSQL data stores (MongoDB, Cassandra and DataStax) to your target system without any disruption to ongoing operations. This obviates downtime and safeguards uninterrupted business continuity.

- Single real-time data ingestion platform for microservices and analytics
- Extensive source and target connectivity across Oracle and non-Oracle technologies 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
- Easy to use with enhanced user interfaces
- Disaster recovery, backup and restore
- Access and integrate mission-critical applications without disruption

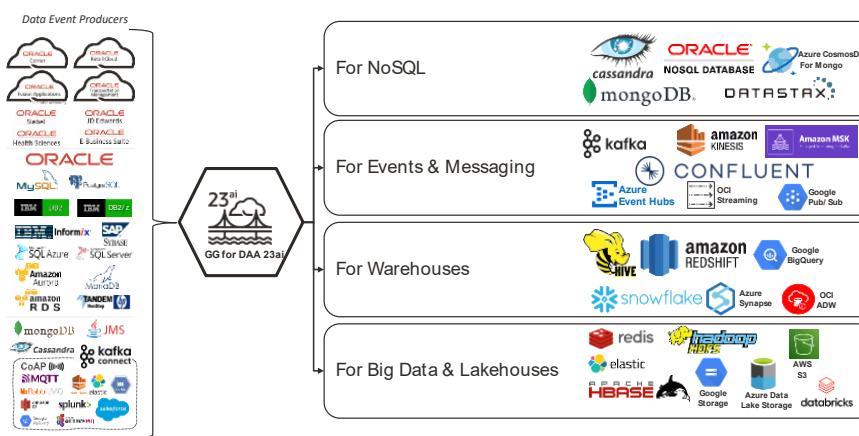


Figure 3: GG for DAA supported technologies

## Conclusion

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Traditional data pipelines struggle to keep pace with the fast-paced world of micro-services. GG for DAA emerges as a game-changer, specifically designed to bridge this gap. It empowers organizations to seamlessly integrate real-time data into their micro-service architectures, fostering a data-driven culture for faster and more informed decision-making. This translates to a significant competitive advantage by enabling businesses to transform the customer experience landscape. GG for DAA simplifies development with features like AsyncAPI support, ensures data consistency across distributed applications, and guarantees high-performance delivery without impacting source systems. By unlocking the true potential of real-time data within micro-services, GG for DAA positions you for future innovation and success.

Contact us today to learn more about GG for DAA and see how it can help you achieve your data-driven goals.

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