

Oracle® GoldenGate

Release Notes for Oracle GoldenGate for Distributed Applications and Analytics



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Preface

Oracle GoldenGate for Distributed Analytics and Applications (GG for DAA) streams transactional data into various technologies in real time, raising the quality and timeliness of business insights. This document contains the release notes for the 26*ai* release of GG for DAA.

- [Documentation Accessibility](#)
- [Conventions](#)
- [Related Information](#)

Documentation Accessibility

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Accessible Access to Oracle Support

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Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, such as "From the File menu, select Save ." Boldface also is used for terms defined in text or in the glossary.
<i>italic</i> <i>italic</i>	Italic type indicates placeholder variables for which you supply particular values, such as in the parameter statement: <code>TABLE <i>table_name</i></code> . Italic type also is used for book titles and emphasis.
monospace MONOSPACE	Monospace type indicates code components such as user exits and scripts; the names of files and database objects; URL paths; and input and output text that appears on the screen. Uppercase monospace type is generally used to represent the names of Oracle GoldenGate parameters, commands, and user-configurable functions, as well as SQL commands and keywords.
UPPERCASE	Uppercase in the regular text font indicates the name of a process or utility unless the name is intended to be a specific case. Keywords in upper case (ADD EXTRACT, ADD EXTTRAIL, FORMAT RELEASE).
LOWERCASE	Names of processes to be written in lower case. Examples: ADD EXTRACT exte, ADD EXTRAIL ea.

Convention	Meaning
{ }	Braces within syntax enclose a set of options that are separated by pipe symbols, one of which must be selected, for example: { <i>option1</i> <i>option2</i> <i>option3</i> }.
[]	Brackets within syntax indicate an optional element. For example in this syntax, the <i>SAVE</i> clause is optional: <code>CLEANUP REPLICAT <i>group_name</i> [, <i>SAVE count</i>]</code> . Multiple options within an optional element are separated by a pipe symbol, for example: [<i>option1</i> <i>option2</i>].
Sample Locations	Compass directions such as east, west, north, south to be used for demonstrating Extract and Replicat locations. Datacenters names to use the standard similar to <code>dc1</code> , <code>dc2</code> .
Group names	Prefixes for each process, as follows: <ul style="list-style-type: none"> • Extract: <code>ext</code>. Usage with location: <code>extn</code>, where <i>n</i> indicates 'north' compass direction. • Replicat: <code>rep</code>. Usage with location: <code>repn</code>, where <i>n</i> indicates 'north' compass direction. • Distribution Path: <code>dp</code>. Usage with location: <code>dpn</code>, where <i>n</i> indicates 'north' compass direction. • Checkpoint table: <code>ggs_checkpointtable</code> • Trail file names: <code>e</code> or <code>d</code> depending on whether the trail file is for the Extract of distribution path. Suffix derived in alphabetical order. Usage for an Extract trail file: <code>ea</code>, <code>eb</code>, <code>ec</code>. • Trail file subdirectory: The name will use compass directions to refer to the trail subdirectories. Example for trail subdirectory name would be <code>/east</code>, <code>/west</code>, <code>/north</code>, <code>/south</code>.

Related Information

- [Oracle GoldenGate Product Documentation Libraries](#)
- [Oracle GoldenGate for Distributed Applications and Analytics](#)

1

Introduction

This chapter introduces the Release Notes for Oracle GoldenGate for Distributed Analytics (GG for DAA).

Topics:

- [Latest Release Information](#)
- [Purpose of this Document](#)
- [System Requirements and Specifications](#)
- [Bugs Fixed and Enhancements](#)
This chapter describes the bugs fixed and enhancements at the time of release.
- [Product Documentation](#)
- [Oracle Support](#)
- [Licensing Information](#)
- [Downloading and Applying Required Patches](#)

1.1 Latest Release Information

This document is accurate at the time of publication. Oracle will update the release notes periodically after the software release. You can access the latest information and additions to these release notes on the Oracle Technology Network at:

<http://www.oracle.com/technetwork/indexes/documentation/index.html>

1.2 Purpose of this Document

This document contains the release information for Oracle Fusion Middleware Release for Oracle GoldenGate for Distributed Analytics and Applications (GG for DAA).

Oracle recommends you review its contents before installing, or working with the product.

1.3 System Requirements and Specifications

Oracle GoldenGate follows the Fusion Middleware system requirements and certifications for production environments. For more information, see [GoldenGate Certifications](#).

1.4 Bugs Fixed and Enhancements

This chapter describes the bugs fixed and enhancements at the time of release.

The Bug number is the number of the BugDB ticket. For questions on specific tickets or issues, consult Oracle Support.

1.5 Product Documentation

For complete documentation on Oracle GoldenGate, go to <https://docs.oracle.com/en/middleware/goldengate/index.html>.

1.6 Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support at <https://support.oracle.com>

1.7 Licensing Information

Licensing information for Oracle Fusion Middleware is available at:

<https://shop.oracle.com>

Detailed information regarding license compliance for Oracle Fusion Middleware is available at:

[Licensing Information User Manual](#).

1.8 Downloading and Applying Required Patches

Downloading Patches

Go to My Oracle Support to download the latest software patches.

<https://support.oracle.com>

See the `README` file in the patch distribution for up-to-date information on the software fixes provided by the patch.

To download and install the latest software patch:

1. Login to My Oracle Support.
2. Click the **Patches & Updates** tab.
3. Under the Patch Search tab, select **Product or Family (Advanced Search)**, and select the **Include all patches in a product family** check box.
4. Enter **Oracle GoldenGate** as the product, select the platform and release, and click **Search**.

The list of currently available patches for Oracle GoldenGate is returned.

2

What's New in this Release

This chapter describes the features, enhancements, and changes made to Oracle GoldenGate for Distributed Applications and Analytics (GG for DAA). Oracle updates the release notes periodically after the software release. This document is accurate at the time of publication.

- [Release 26ai \(23.26.2\) — May 2026](#)
- [Release 26ai \(23.26.1.0.1\) — March 2026](#)
- [Release 26ai \(23.26.1\) — February 2026](#)
- [Release 23ai \(23.10\) — November 2025](#)
- [Release 23ai \(23.9.1\) — September 2025](#)
- [Release 23ai \(23.9\) — September 2025](#)
- [Release 23ai \(23.8\) — May 2025](#)
- [Release 23ai \(23.7\) — March 2025](#)
- [Release 23ai \(23.6.0.24.11\) — November 2024](#)
- [Release 23ai \(23.5\) — August 2024](#)
- [Release 23ai — July 2024](#)
- [Deprecated Items](#)
- [Deferred Items](#)

2.1 Release 26ai (23.26.2) — May 2026

Iceberg Handler with ADLS EntraID Support

Oracle GoldenGate for Big Data now supports Azure EntraID authentication for the Iceberg handler when connecting to Azure Storage endpoints. Users can configure authentication using tenantId, clientId, and clientSecret, enabling more secure and flexible access management for Azure-based deployments.

Support for SQL based operation aggregation for AI Data Platform

Oracle Intelligent Data Lake now supports SQL-based aggregation capabilities, enabling users to perform advanced data aggregation and analysis using SQL. This enhancement provides greater flexibility for processing large-scale data sets and supports improved analytics and data-driven decision-making workflows.

Need to support OATH authentication in GGS for Kafka

Oracle GoldenGate for Big Data now supports OAUTH authentication for Kafka connections, enabling secure connectivity to Kafka environments that require token-based authentication. This enhancement improves security and expands compatibility with modern Kafka deployments and authentication standards.

Support for Mapping to Boolean in GGDAAsnowflake streaming handler

Oracle GoldenGate for Big Data includes enhancements to the Snowflake streaming handler to improve support for BOOLEAN data mappings. These updates address issues related to replication of BOOLEAN values from source databases to Snowflake, improving data consistency and reliability for streaming replication workflows.

Apache Iceberg v3 Support

Oracle GoldenGate for Big Data now supports Apache Iceberg v3, enabling improved compatibility with modern data lake environments. This enhancement provides support for the latest Iceberg table format capabilities, helping improve interoperability, scalability, and performance for big data integration workflows.

Support `primarykeysmap` metacolumns keyword

Oracle GoldenGate for Big Data now supports the `primarykeysmap` metacolumn keyword, enabling primary key column names and values to be generated in JSON map format. This enhancement improves structured metadata handling and simplifies downstream data integration and processing workflows.

Kafka Connect Handler to produce the Kafka message key as a record

Oracle GoldenGate for Big Data now supports structured Kafka message keys through the new `keyMetaColumnsTemplate` configuration parameter for the Kafka Connect Handler. This enhancement enables primary key values to be generated as structured records instead of strings when integrating with Confluent Schema Registry, improving schema flexibility, data consistency, and downstream application compatibility.

Delivery to Pub/Sub fails unless scopes are explicitly

Oracle GoldenGate for Big Data includes enhancements to the Google Pub/Sub handler to improve authentication and connectivity reliability. These updates add support for explicit `OAuth` scope configuration, helping resolve authentication and connection timeout issues when delivering data to Google Pub/Sub environments.

GGDAA | Stage/Merge targets to support column names with any character (/, \$, #, @ or non-Ascii) supported by the target database

Oracle GoldenGate for Big Data now includes enhanced support for column names containing special characters in stage/merge replication workflows for supported targets such as Snowflake. This enhancement improves compatibility with existing source schemas and helps ensure reliable replication for environments using non-standard column naming conventions.

Caching issue with special character support enhancement#37985126

Oracle GoldenGate for Big Data includes enhancements to improve handling of special characters in column names during Avro formatting and replication workflows. These updates help improve replication reliability and compatibility for multi-table environments and targets such as Snowflake when source schemas contain non-standard column naming conventions.

New Section for Kafka Document: Configuration Considerations and Best Practices

Introduces a dedicated Kafka best practices section covering configuration tuning, deployment guidance, operational recommendations, and production considerations for Kafka integrations.

GGDAA | Doc | Iceberg | REST Catalog based on AWS S3 Tables

Adds documentation for Apache Iceberg REST Catalog integration using AWS S3 Tables, including configuration examples and deployment guidance.

Best Practices for Cloud Object Storage Replication

Adds a new best practices section describing optimal configuration, scalability, and operational recommendations for Cloud Object Storage replication deployments.

Add documentation for Iceberg Uniform Table Format support for AI Data Platform

Documents support for Iceberg Uniform Table Format integration with AI Data Platform environments and associated configuration guidance

Oracle GoldenGate Java Delivery

Introduces or expands Oracle GoldenGate Java Delivery documentation, including architecture, configuration, and usage guidance.

2.2 Release 26ai (23.26.1.0.1) — March 2026

Support encryption of sensitive data in Iceberg REST Catalog properties file

The Oracle GoldenGate for DAA targets now supports encryption of sensitive data in Iceberg REST Catalog properties file.

Support COPY INTO in AWS Redshift using Parquet file

The Oracle GoldenGate for DAA now supports `COPY INTO` in AWS Redshift using Parquet file.

2.3 Release 26ai (23.26.1) — February 2026

Azure Synapse Microsoft Entra ID Authentication support

Oracle GoldenGate for Distributed Analytics and Applications (GG for DAA) now supports the Azure Synapse handler with Microsoft Entra authentication as a secure option.

Apache Iceberg Table Type support in Google BigQuery Storage Write

GG for DAA now support the Google Storage Write API that can create external Iceberg Table format. It also enable the Iceberg Table Format creation with BigQuery Storage Write API Handler.

Support special character in Avro staging file

Oracle GoldenGate for Distributed Analytics and Applications (GG for DAA) now supports the special characters in Avro staging file.

Additional support for multipart upload in AWS S3

Oracle GoldenGate for Distributed Analytics and Applications (GG for DAA) now provides additional support for the multipart upload in AWS S3.

OCI Object Storage support with Iceberg Catalog

Oracle GoldenGate for Distributed Analytics and Applications (GG for DAA) now supports the OCI Object Storage support with Iceberg Catalog.

Support Microsoft Fabric Eventstreams as source and target

The eventstreams feature in the Microsoft Fabric Real-Time allows to use real-time events into Fabric, transform them, and then route them to various destinations without writing any code (no-code). Additionally, with Apache Kafka endpoints available on the Eventstream item, it allows to external applications to send or consume real-time events using the Kafka protocol. Oracle GoldenGate for Distributed Analytics and Applications (GG for DAA) now supports the Microsoft Fabric Eventstreams as source and target.

Support Google Cloud Managed Service for Apache Kafka as source and target

Oracle GoldenGate for Distributed Analytics and Applications (GG for DAA) now supports the Google Cloud Managed Service for Apache Kafka as source and target. The user can establish the connection between Google Cloud Managed Service and OCI using the subnet. User can run the replicate for Apache Kafka using this connection.

Stage/Merge targets to support column names with any character (/, \$, #, @ or non-Ascii) supported by the target database

The Oracle GoldenGate for DAA targets now supports the column names with any characters.

Databricks target accesses external table data using direct path queries

Oracle GoldenGate for Distributed Analytics and Applications (GG for DAA) Databricks target now accesses staging data in the data files without creating an external table using direct path queries. This approach can simplify setup and potentially avoid external table refresh issues by directly querying AVRO files from the storage location, for example, ADLS Gen2, S3, or GCS.

2.4 Release 23ai (23.10) — November 2025

Support Delivery to Oracle AI Data Platform

GG for DAA now officially supports the Oracle AI Data Platform in 23.10.x. The Oracle AI Data Platform as a new product offering that brings together data lake, analytics, and orchestration services into one unified platform. For more information, see Oracle AI Data Platform in the Oracle GoldenGate Distributed Applications and Analytics documentation.

Support for Scaling Ingest into Fabric with Partitioning

GG for DAA now supports the partitioning feature to help scale data ingestion into Fabric more efficiently. This feature allows the use of column number in a table as partitioning keys.

Support delivery to OCI Streaming with Apache Kafka

A new connection is added in GG for DAA to support GGS for OCI Streaming with Apache Kafka. In GGS Big Data image, a drop-down target selection for OCI Streaming with Apache Kafka is added.

Support delivering array type into Google BigQuery.

GG for DAA now supports array types for Google BigQuery. Supported datatypes for arrays and UDTs are added for Oracle GoldenGate Postgres.

Support encrypting userid and password in JAAS configuration file

GG for DAA now supports to encrypt the userid and password in the `jaas.conf` file from the Oracle GoldenGate bigdata side. This feature supports the 'PLAIN', 'SCRAM-SHA-256', and 'SCRAM-SHA-512 sasl.mechanism'.

Support for vectors to JSON formatter

GG for DAA now supports vectors to JSON formatter. The vector type is converted to the typed version of the vector based on the available metadata type.

Support for Databricks Open Source JDBC Driver

GG for DAA Databricks handler is now certified with Open Source JDBC Driver.

2.5 Release 23ai (23.9.1) — September 2025

Support for Oracle AI Data Platform

GG for DAA now provides Oracle AI Data Platform as a new product offering that brings together data lake, analytics, and orchestration services into one unified platform. For more information, see Oracle AI Data Platform in the Oracle GoldenGate Distributed Applications and Analytics documentation.

2.6 Release 23ai (23.9) — September 2025

Support for OGG BigData Snowflake Streaming to Iceberg Tables

GG for DAA Snowflake Streaming handler now supports the additional parameters for writing to Apache Iceberg. For more information, see Snowflake in the Oracle GoldenGate Distributed Applications and Analytics documentation.

2.7 Release 23ai (23.8) — May 2025

Support for Snowflake Timestamps

Oracle GoldenGate for Distributed Applications and Analytics (GG for DAA) now supports Snowflake Timestamps. For more information, see Supported Snowflake Date Datatypes in the *Oracle GoldenGate Distributed Applications and Analytics documentation*.

Support for Target Selection Updates

GG for DAA now supports format selection for AWS S3, GCS, ADLS, OCI Object Storage, and local file systems. For more information, see Quickstarts-Articles in the *Oracle GoldenGate Distributed Applications and Analytics documentation*.

Support for AWS DocumentDB Capture

GG for DAA now supports AWS DocumentDB Capture. For more information, see Amazon DocumentDB in the *Oracle GoldenGate Distributed Applications and Analytics documentation*.

Support for Synapse Stage and Merge, Auto-create Target Tables

GG for DAA now supports Synapse Stage and Merge, Auto-create Target Tables . For more information, see Azure Synapse Analytics in the *Oracle GoldenGate Distributed Applications and Analytics documentation*.

Support for Add purgeTargetPathOnStartup for Databricks for Amazon S3

GG for DAA now supports `purgeTargetPathOnStartup` for Databricks for Amazon S3. For more information, see S3 Handler Configuration in the *Oracle GoldenGate Distributed Applications and Analytics documentation*.

2.8 Release 23ai (23.7) — March 2025

Support for Apache Iceberg Format

Oracle GoldenGate for Distributed Applications and Analytics (GG for DAA) now supports Apache Iceberg Format. For more information, see [Iceberg Event Handler](#) in *Oracle GoldenGate Distributed Applications and Analytics documentation*.

Support for Google BigQuery Streaming API handler

GG for DAA now supports Google BigQuery Streaming API handler with Storage Write API. This handler uses recommended Storage Write API for low latency streaming of insert records without using any staging. For more information, see [BigQuery Streaming API with Storage Write API](#) in the *Oracle GoldenGate Distributed Applications and Analytics documentation*.

Support for Iceberg table type in Snowflake target

GG for DAA now supports automatic creation of Snowflake Iceberg tables by updating certain Snowflake properties. For more information, see [Snowflake Iceberg Tables](#) in the *Oracle GoldenGate Distributed Applications and Analytics documentation*.

Support for Iceberg table type in Databricks target

GG for DAA now supports automatic creation of Databricks Iceberg tables by updating certain Databricks properties. For more information, see [Databricks Event Handler Configuration](#) in the *Oracle GoldenGate Distributed Applications and Analytics documentation*.

Support for Iceberg table type in BigQuery stage/merge target

GG for DAA now supports automatic creation of BigQuery Iceberg tables by updating certain BigQuery properties. For more information, see [BigQuery Iceberg Tables](#) in the *Oracle GoldenGate Distributed Applications and Analytics documentation*.

2.9 Release 23ai (23.6.0.24.11) — November 2024

Support for Mirrored Database in Microsoft Fabric

Oracle GoldenGate for Distributed Applications and Analytics (GG for DAA) enables autoconfiguration to replicate to the mirrored database target. For more information, see [OneLake Event Handler Automatic Configuration](#) in *Oracle GoldenGate for Distributed Applications and Analytics Documentation*.

Support for Lakehouse in Microsoft Fabric

Oracle GoldenGate for Distributed Applications and Analytics enables autoconfiguration to replicate to the Lakehouse target. For more information, see [OneLake Event Handler Automatic Configuration](#) in *Oracle GoldenGate for Distributed Applications and Analytics Documentation*.

Support for delivery to AWS DocumentDB

GG for DAA supports delivery to AWS DocumentDB. For more information, see [Amazon DocumentDB](#) in *Oracle GoldenGate for Distributed Applications and Analytics Documentation*.

Support for OCI Event handler authentication using resource principal

Using the OCI Java SDK an authentication can be added using resource principal.

Support for connecting to Oracle NoSQL via ResourcePrincipal

OCI configuration has been modified to connect to Oracle NoSQL via ResourcePrincipal

SHOWSYNTAX support for Stage and Merge targets.

GG for DAA provides SHOWSYNTAX support for Stage and Merge targets.

Support for retrieving credentials through Oracle GoldenGate Plugin Access Module via AUTHSTOREUSERNAME and/or AUTHSTOREPASSWORD.

GG for DAA provides Support for retrieving credentials through Oracle GoldenGate Plugin Access Module via `AUTHSTOREUSERNAME` and/or `AUTHSTOREPASSWORD`.

Support for mapping of table data into particular topic/queue in JMS delivery.

GG for DAA supports mapping of table data into into particular topic/queue in JMS delivery. For more information, see [Java Message Service - Topic/Queue Name Selection](#) in *Oracle GoldenGate for Distributed Applications and Analytics Documentation*.

Support for CloudEvents Format

CloudEvents format with Oracle GoldenGate for Distributed Applications and Analytics Kafka handler is now supported. For more information, see [Using the Cloud Event Formatter](#) in *Oracle GoldenGate for Distributed Applications and Analytics Documentation*.

2.10 Release 23ai (23.5) — August 2024

Oracle GoldenGate for Distributed Analytics and Applications (GG for DAA) now supports Mongo document formatting

JSON Mongo Document Formatter formats the MongoDB Capture processed documents into a JSON format with only payload information. For more information, see [Mongo Document Formatting Details](#) in *Oracle GoldenGate for Distributed Applications and Analytics Documentation*.

2.11 Release 23ai — July 2024

Oracle GoldenGate for Distributed Analytics and Applications (GG for DAA) now supports delivery of change events to Databricks

Oracle GoldenGate for Distributed Analytics and Applications (GG for DAA) delivers change events and merge into target tables in Databricks. For more information, see [Databricks Event Handler](#) in *Oracle GoldenGate for Distributed Applications and Analytics Documentation*.

GG for DAA supports delivery to Snowflake via Snowpipe streaming API.

The Snowflake Streaming Handler supports `INSERT`-only workloads using the Snowpipe Streaming API, which can result in lower load latencies at a lower cost for loading data into Snowflake. For more information, see [Snowflake Streaming Handler](#) in *Oracle GoldenGate for Distributed Applications and Analytics Documentation*.

Improved stage and merge framework

Various improvements were made to the Stage and Merge handlers framework for correctness and resiliency.

Support provided for automatic table creation in the Snowflake handler.

GG for DAA supports creation of target tables in Snowflake based on the incoming/source metadata. For more information, see [Using the Snowflake Event Handler](#) in *Oracle GoldenGate for Distributed Applications and Analytics Documentation*.

Oracle GoldenGate for Distributed Analytics and Applications (GG for DAA) now supports delivery of CDC changes to Google Pub Sub

Oracle GoldenGate for Distributed Analytics and Applications (GG for DAA) delivers CDC changes to Google Pub Sub. For more information, see [Google Pub Sub](#) in *Oracle GoldenGate for Distributed Applications and Analytics Documentation*.

Support for delivering change events involving boolean types correctly.

GG for DAA provides support for delivering change events involving boolean types correctly. For more information, see [Replicate Data](#) in *Oracle GoldenGate for Distributed Applications and Analytics* Documentation.

Avro formatting based on schema provided by Avro Metadata Provider is now supported in GG for DAA

Users can now create a custom metadata provider (MDP) to map to an existing Avro schema. For more information, see [Avro Metadata Provider](#) in *Oracle GoldenGate for Distributed Applications and Analytics* Documentation.

GG for DAA introduces a new Stage and Merge operation aggregator property for flush/merge interval for CDC and initial load.

A new `gg.aggregate.operations.flush.interval` Stage and Merge operation aggregator property has been introduced. For more information, see [In-Memory Operation Aggregator](#) (Snowflake, OCI Autonomous Datawarehouse, AWS Redshift, Azure Synapse, and Google Bigquery sections) in *Oracle GoldenGate for Distributed Applications and Analytics* Documentation.

2.12 Deprecated Items

The following features and properties have been deprecated in these releases of Oracle GoldenGate for Distributed Applications and Analytics (GG for DAA):

- [Release 23ai \(23.6\)— November 2024](#)
- [Release 23ai \(23.5\)— August 2024](#)

2.12.1 Release 23ai (23.6)— November 2024

Starting with the Oracle GoldenGate for Distributed Applications and Analytics 23ai (23.6) release, the Command Event handler has been deprecated.

2.12.2 Release 23ai (23.5)— August 2024

Starting with the 23ai release, the `gg.aggregate.operations.flush.interval` property is deprecated and is no longer supported. For more information, see the following topics in *Oracle GoldenGate for Distributed Applications and Analytics* documentation:

- [Amazon Redshift In Memory-Operation Aggregation](#)
- [Azure Synapse In Memory-Operation Aggregation](#)
- [OCI Autonomous Data Warehouse In Memory-Operation Aggregation](#)
- [Google Big Query In Memory-Operation Aggregation](#)
- [Snowflake In Memory-Operation Aggregation](#)

2.13 Deferred Items

The following features and properties have been deferred in these releases of Oracle GoldenGate for Distributed Applications and Analytics (GG for DAA):

- [Release 23ai \(23.6\)— November 2024](#)

2.13.1 Release 23ai (23.6)— November 2024

The **VECTOR data type support in Snowflake integration (Stage and Merge)** has been deferred in the Oracle GoldenGate for Distributed Applications and Analytics 23ai (23.6) release.

3

Bugs Fixed and Workarounds

This chapter describes the known issues at the time of release.

- [Release 26ai \(23.26.2\) — May 2026](#)
- [Release 23ai \(23.10\) — February 2026](#)

3.1 Release 26ai (23.26.2) — May 2026

Bug 38943094 - VDOM OGGDAA WEBUI: Extract/Replicat navigation entries not automatically displayed in left pane of Admin Service Page, requires manual reload

In Oracle GoldenGate Microservices Architecture (MA) that contains no existing Extracts and/or Replicats, when the user adds an extract or replicat for the first time, the left navigation menu does not automatically display the newly added extract or replicat, despite the dedicated Extract/Replicat page listing them correctly.

Workaround

After you add the first Extract and/or Replicat, refresh the page once. The left navigation menu then shows Extracts and/or Replicats correctly and continues to update as you add more.

3.2 Release 23ai (23.10) — February 2026

Bug 38797457 - Limitations on Avro-based staging tables for table and column names

In Oracle GoldenGate for Distributed Analytics and Applications (GG for DAA) Stage and Merge, if the incoming source object names contains characters that are not valid according to Avro specification, then the replication will fail.

4

Bugs Fixed and Enhancements

This chapter describes the bugs fixed and enhancements at the time of release.

The Bug number is the number of the BugDB ticket. For questions on specific tickets or issues, consult Oracle Support.

- [Release 26ai \(23.26.2\) — May 2026](#)
- [Release 26ai \(23.26.1.0.1\) — April 2026](#)
- [Release 26ai \(23.26.1.0.1\) — March 2026](#)
- [Release 26ai \(23.26.1\) — February 2026](#)
- [Release 23ai \(23.10\) — October 2025](#)
- [Release 23ai \(23.9.2\) — October 2025](#)
- [Release 23ai \(23.9.1\) — September 2025](#)
- [Release 23ai \(23.9\) — September 2025](#)
- [Release 23ai \(23.8.4\) — August 2025](#)
- [Release 23ai \(23.8.3\) — July 2025](#)
- [Release 23ai \(23.8.2\) — July 2025](#)
- [Release 23ai \(23.8.1\) — June 2025](#)
- [Release 23ai \(23.8\) — May 2025](#)
- [Release 23ai \(23.7\) — March 2025](#)
- [Release 23ai \(23.6.0.24.11\) — November 2024](#)
- [Release 23ai \(23.5\) — August 2024](#)
- [Release 23ai — July 2024](#)

4.1 Release 26ai (23.26.2) — May 2026

Bug 39278253: GGDAA | SLAPS Scan | CVE-2026-34481 CVE-2026-34480 CVE-2026-34478

This security issue has been fixed.

Bug 39247183: CVE-2025-67030: plexus-utils:3.6.0:CVSS-8.8 in OGGDAA

This security issue has been fixed.

Bug 39069592: Need to upgrade LeanSparkJDBC42-2.6.18.2069.jar driver which includes shaded jackson-core 2.19.0 which has vulnerability GHSA-72hv-8253-57qq

This security issue has been fixed.

Bug 39067662: GGDAA | Databricks | CVE fix for GHSA-72hv-8253-57qq

This security issue has been fixed.

Bug 39070733: Upgrade jetty-http to 12.0.31 for CVE-2025-11143

This security issue has been fixed.

Bug 38993751: CVE-2025-33042: APACHE AVRO UPDATE TO AT LEAST 1.12.1 OR 1.11.5

This security issue has been fixed.

Bug 38894378: Upgrade on orc-core-nohive.jar to version 1.9.8 for CVE-2024-7254

This security issue has been fixed.

Bug 38884635: Upgrade software.amazon.awssdk bundle.jar to 2.41.13 for CVE-2025-67735

This security issue has been fixed.

Bug 38884909: Upgrade nimbus-jose-jwt to 10.0.2 for CVE-2025-53864 (680aece3f, CVE-2025)

This security issue has been fixed.

Bug 38884555: Upgrade netty to 4.1.129.Final for CVE-2025-67735

This security issue has been fixed.

Bug 38695035: Upgrade mssql-jdbc to 12.6.5.jre11 for CVE-2025-59250

This security issue has been fixed.

Bug 38386614: Elasticsearch 9x Certification

Enhanced Oracle GoldenGate DAA Handler Elasticsearch integration to support Elasticsearch 9.x environments. This update resolves client library compatibility issues introduced by the migration to Apache Http Components 5.x and ensures continued interoperability with both Elasticsearch 8.x and 9.x deployments.

Bug 39233195: Apache Kafka 4.2 Source Certification

Certified Apache Kafka 4.2 as a supported source for Oracle GoldenGate for DAA deployments. Validation testing confirmed successful interoperability with Kafka 4.2.0 and Kafka Client 3.9.2 without requiring additional code changes.

Bug 39208061: Apache Kafka 4.2 Target Certification

Certified Apache Kafka 4.2 as a supported target for Oracle GoldenGate for DAA deployments. Validation testing confirmed successful data replication and interoperability with Kafka 4.2.0 and Kafka Client 3.9.2 without requiring additional code changes.

Bug 38114543 | Tracking GGDAAspecific Telemetry in Microsoft Fabric

Oracle GoldenGate has been enhanced to generate a new `partnerEvents.json` metadata file during replication to Microsoft Fabric. This file captures partner and source information, improving visibility into customer adoption and usage metrics for GoldenGate-based mirroring scenarios. The enhancement supports Oracle's strategic collaboration with Microsoft and helps drive future investments and partner-specific improvements for Microsoft Fabric integrations.

Bug 38988057 | Replicat abending with 'No space left on device' error

Resolved an issue where Oracle GoldenGate Replicat for Snowflake could fail with "No space left on device" errors due to excessive temporary `.dat` file generation. The fix improves memory and batch processing behavior, reducing uncontrolled temp file growth and improving replication stability in high-volume environments.

Bug 38831241 | Replicat not running with gg.log.level set to trace

Resolved an issue where Oracle GoldenGate for Big Data Replicat processes could hang during startup when trace-level logging was enabled. The issue was caused by excessive classpath directory inspection during trace logging, leading to high resource consumption in environments with large directory structures. The fix improves trace logging behavior and prevents Replicat startup hangs in affected deployments.

Bug 39226571 | Incorrect SHOWSYNTAX log file is generated in OGG deployment directory

Resolved an issue where DAA Replicat generated an empty `{sys:gg.log.sql.filename}.log` file when the SHOWSYNTAX parameter was not enabled. The fix improves log file handling and visibility within the deployment environment, enhancing troubleshooting and monitoring capabilities for DAA Replicat processes.

Bug 39107377 | Issues with Databricks replication without unity catalog

Resolved an issue where Replicat failed when replicating to Databricks compute instances without Unity Catalog due to incorrect handling of `information_schema.columns` queries. The fix improves JDBC configuration handling, suppresses misleading error messages, and ensures stable replication behavior in non-Unity Catalog Databricks environments.

Bug 38885661 | MONGODB-00031 Unable to process operation

Resolved a configuration-related issue in Oracle GoldenGate for MongoDB where Replicat processing failed with a `com.mongodb.MongoWriteException` and `unknown top level operator: $unset` error. The issue occurred due to incorrect bidirectional replication filter settings being used in a one-way replication configuration. Additional improvements were made to bidirectional replication handling and filter attribute processing.

Bug 39253295 | Databricks handler document updates

Updated Databricks handler documentation with corrected configuration details, behavioral clarifications, and enhanced deployment guidance.

4.2 Release 26ai (23.26.1.0.1) — April 2026

Bug 39081675 - Production patch (23.26.1.0 on the latest version 23.10.0.0) causing Trail Files purge is not working

Reverted the trail purging logic for OGGDAA to still use sequence number and RBA instead of CSN. This issue has been fixed.

4.3 Release 26ai (23.26.1.0.1) — March 2026

Bug 38850643 - Delivery to Google Pub/Sub fails unless scopes are explicitly set

This issue has been fixed.

Bug 38993751 - Upgrade Apache Avro to version 1.12.1 to fix CVE-2025-33042

This security issue has been fixed.

Bug 38767714 - (paper certification) OGGDAA supports Cloudera 7.3.1 with Kafka 3.4.1.7.

This issue has been fixed.

4.4 Release 26ai (23.26.1) — February 2026

Bug 38916592 - CVE-2025-48924 fix - Upgrade to LeanSparkJDBC42-2.6.18.2069 for AIDP JDBC Driver

This security issue has been fixed.

Bug 38894378 - CVE-2024-7254 fix - Upgrade to orc-core-nohive-1.9.8

This security issue has been fixed.

Bug 38884635 - CVE-2025-67735 fix - Upgrade to software.amazon.awssdk-2.41.13

This security issue has been fixed.

Bug 38884909 - CVE-2025-53864 fix - Upgrade nimbus-jose-jwt to 10.0.2

This security issue has been fixed.

Bug 38884555 - CVE-2025-67735 fix - Upgrade to netty-4.1.129.Final

This security issue has been fixed.

Bug 38695035 - CVE-2025-59250 fix - Upgrade mssql-jdbc to 12.6.5.jre11

This security issue has been fixed.

Bug 38345566 - Fixed unintended file deletion during startup when purgeTargetPathOnStartup is enabled

This issue has been fixed.

4.5 Release 23ai (23.10) — October 2025

Bug 38500781 - A failure occurred sending a message to Kafka to topic [prd-vpba-memelig_chg-blei-v0]

There was an issue with enabling the Kafka transactions. When the Kafka transactions are enabled a nested rollback operation is received in the trail. This issue has been fixed.

Bug 38195068 - Boolean type not supported in Redshift target table

There was an issue with the Redshift target table not supporting the Boolean type. This issue has been fixed.

Bug 38421418 - Issues related to Databricks JDBC driver (CVE-2025-48924 and CVE-2025-53864)

This security issue has been fixed.

Bug 38347485 - Issues related to reactor-netty-http (CVE-2025-22227)

This security issue has been fixed.

Bug 38033168 - Error decoding json object

There was an issue with the behavior of pretty-printed JSON document output, a new line is added to the output. This issue has been fixed.

Bug 38162256 - Replicat process should abend if gg.handlerlist is not available.

There was an issue with the replicat process that must terminate if gg.handlerlist parameter is unavailable. This issue has been fixed.

4.6 Release 23ai (23.9.2) — October 2025

Bug 38524075 - Dataloss scenario with delivery to Snowflake target

There was an issue during restart and recovery which might cause the replication to skip records. This issue has been fixed.

4.7 Release 23ai (23.9.1) — September 2025

Bug 38367611 – Upgrade bc-fips to 2.0.1 (CVE-2025-8885)

This security issue has been fixed.

Bug 38367181 – Upgrade bcpkix-jdk18, bcpkix-jdk15to18 to 1.78.1 and bcpkix-fips to 2.0.8 (CVE-2025-8916)

This security issue has been fixed.

Bug 38366950 – Upgrade netty to 4.1.124.Final (CVE-2025-55163)

This security issue has been fixed.

Bug 38319933 – Added Snowflake Streaming Ingest support in OCI GGS.

This issue has been fixed.

4.8 Release 23ai (23.9) — September 2025

Bug 38326187 CVE-2025-48924 This security issue is fixed by upgrading to commons-lang3 3.18.0

This security issue has been fixed.

Bug 38077966 CVE-2025-48734 (commons-beanutils:1.9.4) and CVE-2025-46762 (parquet-avro:1.15) security fix.

This security issue has been fixed.

Bug 37877310 CVE-2025-27820 This security issue involving httpclient5 is fixed

This security issue has been fixed.

Bug 37950984 CVE-2025-25193 This security issue involving Databricks JDBC driver is fixed

This security issue has been fixed.

Bug 38035020 CVE-2025-27496 This security issue involving Snowflake JDBC driver is fixed

This security issue has been fixed.

Bug 37912363 Replication to JSON Duality View is supported

Support the replication to JSON Duality View.

Bug 37514934 Supports HANDLECOLLISIONS in Iceberg delivery

Supports HANDLECOLLISIONS parameter in replicat.

Bug 37882264 Enables initial load option for Amazon DocumentDB capture

Added new option for Amazon DocumentDB source.

Bug 37989210 Confluent 7.9 certification

GG for DAA now supports Confluent 7.9.

Bug 38181600 - Microsoft Fabric OneLake Updates

Microsoft Fabric OneLake has been modified for GG for DAA.

Bug 37895781-bson_append_array(): invalid array detected. first element of array parameter is not

This issue has been fixed.

Bug 37906533-Rename parameter 'batchSize' to 'streamBatchSize'

The 'batchSize' parameter is updated to 'streamBatchSize' for Google BigQuery.

Bug 38180980- BigQuery Streaming API with Storage Write API Update

GG for DAA supports the Storage Write API in buffered type.

Bug 38209372 - Snowflake Streaming Handler

Snowflake Streaming Handler for Key Pair Authentication has been modified .

Bug 38224617 - Add new parameter to the Databricks handler documentation

The Databricks handler is updated with a new parameter .

Bug 38133395 - Snowflake Document Issue

This issue has been fixed.

Bug 38118864 - GGDAAs | Databricks | Incorrect examples in external location examples

This issue has been fixed.

Bug 38306952- Update Redshift documentation to include 'Merge' changes

The Amazon Redshift has been modified to include 'Merge' changes parameter .

Bug 38340010 - OCI Streaming with Apache Kafka

GG for DAA has been updated with OCI Streaming with Apache Kafka for a new Source and Target .

Bug 38345281 - Apache Hive

Apache Hive is updated with information for creating Avro OCF.

Bug 38345287 - Automatic Heartbeat for Oracle GoldenGate for Distributed Applications and Analytics

Automatic Heartbeat has been updated for enhanced functionality.

4.9 Release 23ai (23.8.4) — August 2025

Bug 38248176 - GGS Snowflake Streaming Bigdata Replicat abending with " OGG-00869 java.lang.NullPointerException" after upgrading to label: "23.8.0.0.0_250707.1025_1289"

This issue impacts Snowflake Streaming where there is a state where the client connection which has not been correctly established is used to access Snowflake target.

Bug 38105597 -GGS - Databricks - org.apache.spark.SparkException: [FAILED_READ_FILE.FILE_NOT_EXIST] Error while reading file

There was an occasional issue when refreshing the external table used as staging table prior to merging to Databricks. For this, we introduce a configurable strategy to instead do an ALTER on the external table instead of a REFRESH. This can be controlled via `gg.eventhandler.databricks.externalTableRefreshMethod=ALTER`.

4.10 Release 23ai (23.8.3) — July 2025

Bug 38227398 - GGDA | Snowflake | Additional checks in JDBC connection validation

Added connection validation to ensure the current connection to Snowflake and its session id are valid.

Bug 37332400 - OGG BigData SnowFlake Streaming to Iceberg Tables

Support Iceberg table format in Snowflake Streaming handler.

4.11 Release 23ai (23.8.2) — July 2025

Bug 38058468 - Check Pointing Issue

The checkpointing issue that can lead to data loss has been fixed.

4.12 Release 23ai (23.8.1) — June 2025

Bug 37902876 - Bigdata Replicat not working after applying latest PSU 23.7

This issue has been fixed.

Bug 37902335 - Replicat to BigQuery slow performance after upgrade to 23.7

This is a performance fix for BigQuery. This issue has been fixed.

Enh 37834688 - Certification Request: Certify the MongoDB Shiphomes

This certification request has been fixed.

4.13 Release 23ai (23.8) — May 2025

Bug 37877310 – Upgrade httpclient5 for CVE-2025-27820

This security vulnerability has been fixed

Bug 37772146 – Need to upgrade software.amazon.awssdk:bundle to 2.31.11 for CVE-2025-24970

This security issue has been fixed.

Bug 37810335 – CVE-2025-30065: Apache Parquet Java update to at least 1.15.1

This security issue has been fixed.

Bug 37676379 – Upgrade netty-handler to 4.1.119Final for CVE-2025-25193

This security issue has been fixed.

4.14 Release 23ai (23.7) — March 2025

Bug 37616011 - MongoDB Capture , deleteMany command not recognized in CDC due to missing Isid

This issue has been fixed.

Bug 37598899 - Upgrade netty to 4.1.118Final for CVE-2025-25193

This security vulnerability has been fixed. Oracle recommends that you upgrade to this patch to include this security fix.

Bug 37127061 - Syntax error: Missing whitespace between literal and alias

This issue has been fixed.

Bug 37161040 - Trail files not getting purged for Snowflake replicat OCI if the table is not getting updated

This issue has been fixed.

Bug 37097430 - Delivery to Ctree via JDBC - Database error: Table/View/Synonym not found

This issue has been fixed.

Bug 37393918 - This GG BigData instance is replicating to Azure. We are getting multiple timeouts per hour in the replicats.

This issue has been fixed.

4.15 Release 23ai (23.6.0.24.11) — November 2024

Enh 36973965 - Support for delivery to AWS DocumentDB

GG for DAA supports delivery to AWS DocumentDB.

Enh 36908925 - Support for OCI Event handler authentication using resource principal

Using the OCI Java SDK an authentication can be added using resource principal.

Enh 36859076 - Support for connecting to Oracle NoSQL via ResourcePrincipal

OCI configuration has been modified to connect to Oracle NoSQL via ResourcePrincipal

Enh 36720586 - SHOWSYNTAX support for Stage and Merge targets.

GG for DAA provides `SHOWSYNTAX` support for Stage and Merge targets.

Enh 36174432 - Support for retrieving credentials through Oracle GoldenGate Plugin Access Module via AUTHSTOREUSERNAME and/or AUTHSTOREPASSWORD.

GG for DAA provides Support for retrieving credentials through Oracle GoldenGate Plugin Access Module via `AUTHSTOREUSERNAME` and/or `AUTHSTOREPASSWORD`.

Enh 36086174 - Support for mapping of table data into particular topic/queue in JMS delivery.

GG for DAA supports mapping of table data into into particular topic/queue in JMS delivery.

Enh 35769412 - Support for CloudEvents Format

CloudEvents format with Oracle GoldenGate for Distributed Applications and Analytics Kafka handler is now supported.

Bug 37125207 Mongo Rep Error: Conversion from character set UTF-8 of source column payload to character set US-ASCII of target column payload failed because the source column contains a character 'd9' at offset 94 that is not available in the target character set.

This issue has been fixed.

Bug 37264335 ADW handler is missing requires dependencies libs

This issue has been fixed.

Bug 37126958 GGS: Replicat to JSON ADB abends with OGG-15051

This issue has been fixed.

Bug 37214005 GGS: NoSuchMethodError: 'void com.azure.core.credential.AccessToken' after upgrading to 21.15.0.0.4

This issue has been fixed.

Bug 37191175 SYNAPSE replicat fails with merge: Exception: com.microsoft.sqlserver.jdbc.SQLServerException: Parse error at line: 7, column: 81: Incorrect syntax near '[ORDER_DATE]'

This issue has been fixed.

Bug 37076184 Error loading Zstd native binary in GGS

This issue has been fixed.

Bug 35715223 Stage Merge: Ensure no collisions in internal columns (optype, position) used in staging table

This issue has been fixed.

Bug 36722678 Redshift: Coordinated Replicat abends due to "Invalid AVRO file found. Unexpected end of AVRO file

This issue has been fixed.

Bug 36907484 GGS: java.lang.IllegalStateException: UTIL-00271 FIPS compliant security provider class com.oracle.jipher.provider.JipherJCE is not in the classpath

This issue has been fixed.

Bug 36709925: The problem is that it does not maintain the types of the columns in the source in the destination

This issue has been fixed.

Bug 36958458: 3rd party dependency: Upgrade Jackson to 2.17.2

This issue has been fixed.

Bug 37012286: Delivery to Databricks-UK updates propagated as updates on target.

Bug 36790381: GG for DAA Kafka Replicat Abended with Error OGG-01158 Timestamp out of range

This issue has been fixed.

Bug 37203419: Upgrade Avro version to 1.11.4 to address Security Vulnerability

The following security vulnerability has been fixed: **CVE-2024-47561**. Oracle recommends that you upgrade to this patch to include these security fixes.

Bug 37149408: Upgrade GGS dependencies for CVEs

This security vulnerability has been fixed. Oracle recommends that you upgrade to this patch to include these security fixes.

Bug 36873931: Upgrade Azure Identity to address Security Vulnerability

The following security vulnerability has been fixed: **CVE-2024-35255**. Oracle recommends that you upgrade to this patch to include these security fixes.

4.16 Release 23ai (23.5) — August 2024

Bug 36873399: Replicat throws the following error: java.lang.NoClassDefFoundError: javax/xml/bind/DatatypeConverter

This issue has been fixed.

Bug 36859823: Snowflake | Enable FIPS compliant JDBC Driver

This issue has been fixed.

Bug 36838069: Stage/Merge deprecate legacy aggregation parameter [gg.aggregate.operations.flush.interval]

This issue has been fixed.

Bug 36836496: Changes to S3 Event Handler to support different credential scenarios.

This issue has been fixed.

Bug 36836410: Upgrade Jipher to latest version

This issue has been fixed.

Bug 36832779: Redshift - Enable case sensitive object names

This issue has been fixed.

Bug 36821177: Security issue found in Parquet dependency.

The following security bug was fixed:

- **CVE-2024-36114** found in aircompressor-0.21.jar dependency

Bug 36816209 : Oracle GoldenGate for Distributed Applications and Analytics (GG for DAA) GoldenGate Service UI GBQ throws error GGBQMDP-00010 Credential configurations are not set for BigQuery Metadata provider.

This issue has been fixed.

Bug 36793550: Change the log messages when Jipher JCE is loaded and not loaded

This issue has been fixed.

Bug 36759278: Remove the Command Event Handler

This issue has been fixed.

Bug 36756993: The File Writer replicat throws wrong error on JSON formatter For input string: "Inf"

This issue has been fixed.

Bug 36756990: Fortify fixes - SSL is marked as a weak transport. Use TLSv1.3 instead SSL.

This issue has been fixed.

Bug 36732532: RestartAbend event handling is not handled properly.

This issue has been fixed.

Bug 36716267: Redis Handler - Fix setting of socket timeout

This issue has been fixed.

4.17 Release 23ai — July 2024

Bug 36458275 - Oracle GoldenGate:Snowflake Initial load replicat is running slow

This issue has been fixed.

Bug 36360286 - GoldenGate for Distributed Applications and Analytics (GG for DAA) Oracle to Azure Synapse data loss event Oracle database to Azure Synapse.

This issue has been fixed.

Bug 36359065 - Kafka CDC encountered an error. java.lang.UnsatisfiedLinkError: /tmp/snappy-libsnappyjava.so: failed to map segment from shared object: Operation not permitted

This issue has been fixed.

Bug 36300149 - GG for DAA - GCS - gg.aggregate.operations.flush.interval for 5 minutes after testing with large tables. sometimes its hanging and giving the errors.

This issue has been fixed.

Bug 36281997 - Oracle GoldenGate-> Synapse ABENDED with error Cannot resolve the collation conflict between "SQL_L

This issue has been fixed.

Bug 36124720 - Handler log shows an error "handler appears to be hung", Replicat does not abend, it just keeps creating temp files

This issue has been fixed.

Bug 36087118 - GG for DAA 21.12 MA - Can't stop REPLICAT process

This issue has been fixed.

Bug 36086306 - GoldenGate Service: In-progress Snowflake queries continue running after abnormal termination of replicat session

This issue has been fixed.

Bug 35638315 - GoldenGate Solace queue count is increasing.

This issue has been fixed.

Bug 35075323 - GG for DAA for BigQuery - BigQuery to be able to turn off the primary key requirement, eliminating making all columns part of a primary key.

This issue has been fixed.

Bug 34997626 - Oracle to Snowflake - DELETE and INSERT operation is performed on the same row of a table, that the MERGE operation fails.

This issue has been fixed.

Bug 33052999 - GG for DAA | Stage and Merge | Operation Aggregator to reduce the amount of data cached in memory

This issue has been fixed.