# Oracle® AI Database
# Release Notes

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G49010-03
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ORACLE®

Oracle AI Database Release Notes, 26ai

G49010-03

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# Preface

This document describes the new features, major changes, and known issues for this release of Oracle GoldenGate.

## Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

**Access to Oracle Support**

Oracle customer access to and use of Oracle support services will be pursuant to the terms and conditions specified in their Oracle order for the applicable services.

## Related Information

Oracle GoldenGate Documentation

Oracle GoldenGate for Distributed Applications and Analytics

OCI GoldenGate

Oracle Database High Availability

## 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. |
| *italic*<br>`italic` | Italic type indicates placeholder variables for which you supply particular values, such as in the parameter statement: `TABLE table_name`. Italic type also is used for book titles and emphasis. |
| `monospace`<br>`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`). |

| Convention | Meaning |
|---|---|
| LOWERCASE | Names of processes to be written in lower case. Examples: `ADD EXTRACT exte`, `ADD EXTRAIL ea`. |
| {} | Braces within syntax enclose a set of options that are separated by pipe symbols, one of which must be selected, for example: {*option1* \| *option2* \| *option3*}. |
| [] | Brackets within syntax indicate an optional element. For example in this syntax, the `SAVE` clause is optional: `CLEANUP REPLICAT` *group_name* [, `SAVE` *count*]. Multiple options within an optional element are separated by a pipe symbol, for example: [*option1* \| *option2*]. |
| Sample Locations | Compass directions such as east, west, north, south to be used for demonstrating Extract and Replicat locations.<br><br>Datacenters names to use the standard similar to `dc1`, `dc2`. |
| Group names | Prefixes for each process, as follows:<br>• Extract: ext. Usage with location: `extn`, where **n** indicates 'north' compass direction.<br>• Replicat: rep. Usage with location: `repn`, where **n** indicates 'north' compass direction.<br>• Distribution Path: `dp`. Usage with location: `dpn`, where **n** indicates 'north' compass direction.<br>• Checkpoint table: `ggs_checkpointtable`<br>• Trail file names: e or d depending on whether the trail file is for the Extract or distribution path. Suffix derived in alphabetical order. Usage for an Extract trail file: `ea`, `eb`, `ec`.<br>• Trail file subdirectory: The name will use compass directions to refer to the trail subdirectories. Example for trail subdirectory name would be `/east`, `/west`, `/north`, `/south`. |

# 1
# Introduction

This chapter introduces the Release Notes for Oracle GoldenGate.

**Topics:**

## 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

## Purpose of this Document

This document contains the release information for Oracle GoldenGate.

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

## Certification Information

To see versions of platforms and related software for which Oracle GoldenGate is certified and supported, go to https://www.oracle.com/integration/goldengate/certifications/

## Product Documentation

For complete documentation on Oracle GoldenGate, go to https://docs.oracle.com/en/database/goldengate/core/26/index.html.

## Oracle Support

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

Lifetime Support Policy for Oracle GoldenGate

## Licensing Information

Detailed information regarding license compliance for Oracle GoldenGate is available here:

Licensing Information in the *Oracle GoldenGate Licensing Information* guide.

# 2

# New Features

This section highlights new features available with the current release of Oracle GoldenGate.

## Release 26ai (23.26.1.0.0): January 2026

### Support for Capture and Delivery of YugabyteDB and YugabyteDB Anywhere

Oracle GoldenGate supports capture and delivery for YugabyteDB and Yugabyte DB Anywhere version 2024.2.7.0 and higher. See Prepare YugabyteDB.

### Support for Capture and Delivery for EDB Postgres Advanced Server

Oracle GoldenGate supports capture and delivery for EDB Postgres Advanced Server versions 13, 14, 15, 16, and 17.

### Embeded AI Service Providers and Models

Oracle GoldenGate web interface provides the option to embed various AI service providers and models, including Gemin, OpenAI, OCI Generative AI, and Voyager AI. See About Oracle GoldenGate AI Service.

## Release 26ai (23.26.1.0.1) Preview: January 2026

> ⓘ **Note**
>
> Preview features are provided for evaluation purposes only and may be subject to change before general availability. If you are interested in evaluating this feature, then contact Oracle Support for supplemental documentation and configuration guidance specific to the preview implementation.

### Automatic Schema Evolution (Preview)

Automatic Schema Evolution is available as a preview feature in Oracle GoldenGate 26ai. This capability enables Oracle GoldenGate to automatically detect and propagate supported schema changes as part of the replication flow, reducing manual intervention during schema evolution scenarios.

### Google Spanner Delivery Support (Preview)

Google Spanner Delivery support is available as a preview capability, allowing Oracle GoldenGate to apply replicated data to Google Spanner database.

# Release 23.10: January 2026

### Support special number types including +/-INFINITY and NaN for non-Oracle databases

Oracle GoldenGate supports special number types including `+/-INFINITY`, `sNaN` and `NaN` for Extract and Replicat processes for non-Oracle databases. See Supported Special Values by Data Type.

# Release 23.9: September 2025

### Oracle recommends creating Extract for per-PDB capture rather than Root Level Extract

Setting up Extract with root level access using common user `c##ggadmin` is not recommended, except when configuring Extract for downstream mining.

This feature supercedes the feature introduced in [Release 23.4: May 2024](#).

# Release 23.7: January 2025

### Oracle GoldenGate supports capture from standby from PostgreSQL 16 onwards

Oracle GoldenGate supports capture from PostgreSQL standby database from PostgreSQL version 16 and higher.

### Oracle GoldenGate Extract supports capture from OCI PostgreSQL

Oracle GoldenGate Extract supported for OCI PostgreSQL.

# Release 23.6: October 2024

### Support for JSON Relational Duality

Oracle GoldenGate supports replicating full-featured business objects in an event-based, pub/sub architecture with Oracle JSON Relational Duality and GoldenGate Data Streams. This is implemented by combining two new Oracle technology features: Oracle AI Database JSON Relational Duality Views and Oracle GoldenGate Data Streams.

For more information, see the following:

*   Replicating Business Objects with Oracle JSON Relational Duality and GoldenGate Data Streams
*   Support for JSON-Relational Duality Views and JSON Collection Tables
*   Enable Supplemental Logging for JSON Relational Duality Views and JSON Collection Tables
*   ADD TRANDATA and ADD SCHEMATRANDATA

### Support for Database Password Plugin

Oracle GoldenGate (starting with 23.5 and higher) includes a user-friendly plugin that enables writing custom code to retrieve database credentials from a third-party vault and then return it in a predefined API to Oracle GoldenGate.

For more information, see Authenticate the Database Connection Using the Database Password Plugin.

# Release 23.5.2: August 2024

**Oracle GoldenGate for Sybase supports Microservices Architecture**

Oracle GoldenGate for Sybase now supports Microservices Architecture.

**Support for MySQL Releases 9.0 and 8.4**

Oracle GoldenGate for MySQL now supports releases 9.0 and 8.4.

**Support for VECTOR datatype in Oracle GoldenGate for MySQL**

Oracle GoldenGate (23.5 onwards) for MySQL 9.0 and higher supports the vector data type.

# Release 23.5: July 2024

**Oracle GoldenGate for Db2 for i and Oracle GoldenGate for Db2 LUW support Microservices Architecture**

Oracle GoldenGate for Db2 for i and Oracle GoldenGate for Db2 LUW now support Microservices Architecture.

**Oracle GoldenGate for Oracle TimesTen supports Microservices Architecture**

Oracle GoldenGate for Oracle TimesTen now supports Microservices Architecture.

# Release 23.4.2: June 2024

**Oracle GoldenGate supports direct connectivity (DSN-less) for SQL Server database connections**

Oracle GoldenGate adds direct connectivity support for SQL Server connections, allowing server host/IP and instance port entries for database connections.

For more information see, Add Database Connections.

# Release 23.4.1: June 2024

**Oracle GoldenGate for Teradata supports Microservices Architecture**

Oracle GoldenGate for Teradata now supports Microservices Architecture.

For more information, see the Installation Requirements for Teradata and Configure Teradata topics in the *Oracle GoldenGate Microservices Architecture Documentation.*

# Release 23.4: May 2024

**Oracle GoldenGate support for database artificial intelligence (AI)**

Oracle GoldenGate adds artificial intelligence support with the following data types:

- Oracle AI Database uses the new `vector` data type to store vector embeddings, which are mathematical vector representations of data. Oracle GoldenGate supports capture and delivery of the `vector` data type for Oracle AI Database to enable real-time vector processing for embedding flow. For more infromation, see Oracle: Details of Support for Oracle Data Types and Objects.

- Oracle GoldenGate can replicate vector data heterogeneously and homogeneously if the embedding algorithm is same in terms of type and dimension, across the databases, allowing migration of vector data from one database to another.

- Oracle GoldenGate also supports the capture and delivery of `array`, `pgvector` extension, `tsquery` and `tsvector` for PostgreSQL and most vendor derivatives. For more information, see PostgreSQL: Supported Data Types.

**Configuration service to store critical configuration data**

Oracle GoldenGate now supports a new Configuration Service for managing the configuration files of Oracle GoldenGate for high availability (HA) purposes. For more information, see Configuration Service.

**Data streaming service**

Oracle GoldenGate introduces the data streaming service. This service enables simplified access to database change records, provides continuous ETL, and real-time analytics over a web socket connection. For more information, see About Data Streaming Service.

**Monitor Oracle GoldenGate statistics**

Oracle GoldenGate supports StatsD, which is an open-source network daemon that listens for statistics, like counters and timers, sent over TCP and sends aggregates to one or more pluggable backend services. Oracle GoldenGate Microservice Architecture sends metrics to the Performance Metrics Service and writes metrics in StatsD format to a StatsD daemon or a time series databases that supports ingestion of StatsD metrics.

For more information, see Using StatsD with OGG

**Trail file management**

Oracle GoldenGate has introduced the ability to manage trail files directly, including the ability to create archive tasks and delete trail files.

For more information, see Trail File Management.

**Support for new TRANLOGOPTIONS parameter**

Oracle GoldenGate adds support for the new `TRANLOGOPTIONS EXCLUDEFILTERTABLE` parameter. This parameter replaces the `TRANLOGOPTIONS FILTERTABLE` parameter but supports the same functionality. For more information, see TRANLOGOPTIONS.

**Support for Db2 version 13 for z/OS**

Oracle GoldenGate now supports Db2 version 13 for z/OS.

**Support for new DISTINCT data type**

Oracle GoldenGate now supports the new `DISTINCT` data type for Db2 for i, Db2 LUW, and Db2 z/OS.

**New user interface for Oracle GoldenGate Microservices Architecture**

The Oracle GoldenGate Microservices Architecture web interface has been renewed with improved capabilities and enhanced user experience.

**Oracle GoldenGate features for Oracle AI Database**

- **Oracle GoldenGate supports Lock-free Reservable Columns**

  Lock-free reservable columns are supported with Oracle GoldenGate. For more information, see Support for Lock-free Reservation.

- **Oracle GoldenGate supports Blockchain and Immutable Tables**

  Blockchain and immutable tables are supported. For more information, see Tables, Views, and Materialized Views.

- **Support for Oracle SQL Domains**

  Oracle GoldenGate supports Oracle SQL Domains. For more information, see Details of Support for Oracle Data Types and Objects.

- **Support for Boolean data type**

  Oracle GoldenGate supports Boolean data type. For more information, see Details of Support for Oracle Data Types and Objects.

- **Oracle GoldenGate supports tables with 4K columns for Oracle AI Database**

  Oracle GoldenGate supports tables with 4K columns for Oracle AI Database. For more information, see Tables, Views, and Materialized Views.

- **Support for Oracle AI Database online DDL**

  Oracle GoldenGate Extract and Replicat processes can manage replication for DDL operations in cases where minimal supplemental logging is enabled. This provides more flexibility for online application upgrades using Edition Based Redefinition.

  For more information, see Using Edition-Based Redefinition section in *Oracle GoldenGate Microservices Documentation*.

- **JSON diff data type is supported with Oracle GoldenGate**

  JSON diff data type is supported with Oracle GoldenGate. For more information, see Details of Support for Oracle Data Types and Objects.

- **Oracle GoldenGate works with per-PDB Extract level users only**

  Oracle GoldenGate captures using per-PDB Extract only. Root level access using common user (`c##ggadmin`) is not available. For more information, see Configure Multitenant Container Database in the *Oracle GoldenGate Microservices Documentation*.

  This feature has been updated. See [Release 23.9: September 2025](#) for details.

- **Support for `VECTOR` data type**

  Oracle GoldenGate now supports `VECTOR` data type to store vector embeddings.

**Integrated health checks and alerts for integrated Replicat and Extract in Oracle GoldenGate Microservices**

Diagnose and troubleshoot integrated Replicat and Extract processes in Oracle AI Database from Oracle GoldenGate Microservices.

**DDL notification on target tables for Replicat**

Starting with Oracle GoldenGate, Replicat uses efficient table DDL change notification to invalidate any cached metadata when you perform a DDL operation on the target table.

For details, see DDL Notification on Target Tables .

**Support coexistence of Oracle GoldenGate with Data Guard Pluggable Database (DGPDB)**

Oracle AI Database functionality has been extended to allow using Oracle GoldenGate in a PDB-based Data Guard (DGPDB) environment in parallel. See Support for DGPDB.

**New CHKPTDUMP utility**

Oracle GoldenGate includes a new utility called `chkptdump`, which enables dumping content from checkpoint files. For details, see Location of Programs and Utilities Accessible from the Admin Client.

# 3

# Enhancements

This section highlights the enhancements available with this release of Oracle GoldenGate.

## Release 26ai (23.26.1.0.0) - January 2026

**Bug 38158029: Db2 z/OS - Oracle GoldenGate password character length allowed up to 100 characters**

Enhanced the Oracle GoldenGate password character length from 15 to 100 characters.

## Release 23.10.3.25.11- December 2025

**Bug 30374642: MySQL - Support remote capture for MySQL for Oracle GoldenGate on Windows**

Oracle GoldenGate supports remote capture for MySQL on Windows.

## Release 23.10.1.25.10- October 2025

**Bug 38311660: PostgreSQL - Capture and delivery supported with OCI PostgreSQL16**

Capture from and and deliver to OCI PostgreSQL 16 is supported.

**Bug 38508298: PostgreSQL - PGOUPUT plugin is supported**

`PGOUTPUT` plugin for PostgreSQL is supported.

## Release 23.10- October 2025

**Bug 38306045: Generic - Unable to update the source and target URI of the DISTPATH post DR xregion activity**

Enhanced the web interface to allow editing target URI for DISTPATH, and source URI in target-initiated DISTPATH (RECVPATH).

**Bug 37356801: Generic - Allow SHOWSTYNTAX to write SQL logs to output file**

Added the `LOGNAME` option to the `SHOWSYNTAX` parameter to provide a record of the SQL logs applied to a target in a log file of an Oracle GoldenGate Microservices deployment.

**Bug 37806542: Generic – Option added to view tcpKeepAliveTimeout value for Distribution Paths**

Enahnced the Distribution Path to view the current setting of `tcpKeepAliveTimeout` from the Admin Client.

**Bug 38409126: MySQL - Added a new DBOPTIONS DELETE_CHECKPOINT_RECS option for the Parallel Replicat's checkpoint table cleanup**

Added a new `DBOPTIONS` parameter option, `DELETE_CHECKPOINT_RECS`, which deletes rather than truncates parallel Replicat's checkpoint records as part of normal operation. This option may be useful if encountering deadlock errors on the checkpoint tables by a parallel Replicat, such as with a MySQL Heatwave target.

**Bug 37892045: MySQL – Automatically set Extract's time zone to that of the MySQL database server**

Enhanced Oracle GoldenGate for MySQL on Linux to automatically set the time zone of the Extract tothat of the source database, negating the need to use `SETENV (TZ)`.

> ⓘ **Note**
>
> This feature is only available for Oracle GoldenGate for MySQL on Linux.

# Release 23.9.2.25.08- October 2025

**Bug 37763033: Generic - Microsoft Azure EntraID Supported for external identity authentication**

Oracle GoldenGate supports creating authorization profiles for Microsoft Azure EntraID as an external identity provider.

# Release 23.9- July 2025

**Bug 38013716: Generic - Support Iceberg tabletype for Snowflake streaming handler**

Starting with this version of Oracle GoldenGate, `Iceberg` table type for Snowflake streaming handler is supported.

**Bug 37680251: Generic - Data Streaming start by timestamp must start from the beginning of the transaction**

Enhanced data streaming to start from the beginning of a transaction for data streaming by timestamp.

**Bug 37817335: Generic - Print authusername in IAM deployment REST API logs authorization section**

Enhanced the restapi.log to include the user name for Bearer authorization requests.

**Bug 37945691: Oracle - Add an option to allow integrated Replicat to be created without a checkpoint table**

Oracle GoldenGate supports adding integrated Replicat without checkpoint table, in special cases.

**Bug 37807752: Oracle - Invalid or incorrect Auth Code received**

Enhanced JWK time-to-live functionality to prevent services from becoming unresponsive when the JWK time-to-live expires.

# Release 23.8.0.25.04- April 2025

**Bug 37275192: Db2 z/OS - Enhanced the memory manager to use Operator Commands, STOP and MODIFY**

Enhanced the memory manager to use operator commands `STOP` and `MODIFY` to shut down the Extract process gracefully.

**Bug 37465578: MySQL - Change the default capture for Extract CDC to be remote capture**

Changed the default capture of Oracle GoldenGate for MySQL from local to remote capture for Linux-x64 platform.

**Bug 35938413: SQL Server - Start the SQL Server CDC Capture automatically from Extract**

Enhanced the functionality for Oracle GoldenGate for SQL to start the SQL Server CDC Capture automatically from Extract.

**Bug 37468430: SingleStoreDB - Add Certification with SingleStoreDB (on-prem) for versions 8.1, 8.5, 8.7, and 8.9**

Added certification for on-premises SingleStoreDB for versions 8.1, 8.5, 8.7, and 8.9.

**Bug 37468442: SingleStore Helios- Add Certification with SingleStore Helios (Cloud DB)**

Added certification for SingleStore Helios - Current version available.

# Release 23.7- January 2025

**Bug 37090212: PostgreSQL - Add SSL support for the native driver**

Enhanced Oracle GoldenGate for PostgreSQL to provide SSL support for the native driver.

**Add support for PostgreSQL version 17**

Oracle GoldenGate supports PostgreSQL version 17.

# Release 23.4- May 2024

**Added new features to Oracle GoldenGate Configuration Assistant (OGGCA)**

Oracle GoldenGate added the following new features for better user experience:

- OGGCA is enhanced to allow configuring the following features for the Service Manager and deployment:
  - Enable and configure the StatsD server for the deployment and Service Manager
  - Enable and configure the Configuration Service for the deployment

- – Enhanced security configuration from OGGCA
- Default environment variables are set for `OGG_HOME` and `LD_LIBRARY_PATH`
- Additional configuration options have been provided for the following:
  - – Integration with external IDP providers
  - – Customization of authentication modes
  - – Availability of a sample template of the response file

**Added encryption support for user data in cache files and Bounded Recovery Persisted Data Files (PCDFs)**

Oracle GoldenGate provides encryption support for user data included in cache files and Bounded Recovery persisted data files (PCDFs). For more information, see Secure Data in Transit.

**Added support for automatic reconnection of parallel Replicat for application continuity**

Added support for automatic reconnection of parallel Replicat with databases on connection failures to maintain application continuity.

**Integrated OAuth/SSO with identity domains in OCI Identity and Access Management (IAM)**

Added the following to improve and simplify the integration of OAuth/SSO with identity providers (IDP):

- New OAM profile type
- Validate and enable the authorization profile to automatically configure the confidential application and self-register the redirect URIs

**Improved failure detection for distribution and target-initiated paths**

Added WebSocket protocol and asynchronous receive thread to improve the network failure detection process for distributed and target-initiated paths.

**Improved token-based authentication**

Oracle GoldenGate now supports token-based authentication for IDP-enabled deployments. For this, token-access parameter has been added to the `CONNECT` and `ADD CREDENTIALS` commands. In addition, `INFO CREDENTIALS` command has been updated to display the token related information. For more information, see CONNECT, ADD CREDENTIALS, and INFO CREDENTIALS.

**Improved performance monitoring**

Added Integrated Diagnostics REST API to obtain performance data to diagnose performance issues related to integrated Extract, integrated Replicat, and parallel integrated Replicat. This is a replacement over the previously used Replication Performance Advisory Utility (UTLRPDAV).

For more information, see Integrated Diagnostics

**Enhanced Functionality for Automatic Conflict Detection and Resolution (ACDR)**

Automatic Conflict Detection and Resolution provides improved functionality for the following tasks:

- Removing ACDR entirely from the table or removing ACDR column groups has less impact on the table as the ACDR related columns are marked as UNUSED columns. The decision to drop the columns can be made at a later time.

- Starting with Oracle AI Database, using `DBMS_REDEFINITION` for ACDR related tables is supported. The `DBMS_REDFINITION` package can be used to remove unused columns or any other purpose for which the table needs to be reorganized.

See the following topics for details, Configure Latest Timestamp Conflict Detection and Resolution, Support for Online Redefinition, Removing Conflict Detection and Resolution From a Table, and Removing a Column Group.

**Oracle Key Vault 21.8 is supported for trail file encryption**

Oracle GoldenGate supports trail file encryption with Oracle Key Vault 21.8. See Using Oracle Key Vault with Oracle GoldenGate.

# 4

# Default Behavior Changes

This section describes the default behavior changes made to Oracle GoldenGate in relation to the last release.

## Release 26ai (23.26.1.0.0) - January 2026

**Oracle GoldenGate Microservices are available from a single console**

Oracle GoldenGate web interface displays all Oracle GoldenGate processes and Microservices from a single console. Logging in to each Microservice separately, is not required. This implies that you can access Extract, Replicats, Distribution Service Paths, Receiver Service Paths, Data Streams, and performance metrics from a single window console.

## Release 23.10.0.25.10- October 2025

**Bug 37236254: Generic - Change default trail file size from 500MB to 2GB**

Updated the default trail file size from 500MB to 2GB.

## Release 23.9- July 2025

**Bug 38080969: Generic - Extract should fail with Parse error when second BRDIR is present in the Extract param file**

Extract will not allow multiple `BRDIR` entries in the parameter file. If more than one `BRDIR` parameter is defined, then Extract will exit with a parse error.

**Bug 37909236: MariaDB - Remove the requirement for MariaDB binlog_annotate_row_events=OFF**

Starting with this version of Oracle GoldenGate, the requirement to set `binlog_annotate_row_events` to `OFF` has been removed for MariaDB.

## Release 23.8.0.25.04- April 2025

**Bug 37757820: Generic - Enable NOCHECKUNIQUEKEYS as default for BATCHSQL for all Non-Oracle AI Databases**

Enabled `NOCHECKUNIQUEKEYS` as default for `BATCHSQL` for all non-Oracle AI Database.

**Bug 29709965: MySQL - Extract to skip XA transactions and log a Warning instead of Abend**

Changed the functionality in Oracle GoldenGate Extract for MySQL to skip XA transactions with a warning, instead of abending.

**Bug 37465578: MySQL - Change the default capture for Extract CDC to be remote capture**

Changed the default capture of Oracle GoldenGate for MySQL from local to remote capture for Linux-x64 platform.

# Release 23.7.1.25.02- February 2025

**Bug 37581809: Oracle - Allow IR to run with nodbcheckpoint**

All Replicats are required to create and maintain a database checkpoint table, which serves as a mechanism for ensuring data consistency and facilitating recovery processes. The only exception to this requirement is the integrated Replicat. However, it is strongly recommended that you create and maintain a checkpoint table for the integrated Replicat.

**Bug 37643197: SQL Server - Upgrade odbcinst.ini contents to the absolute path and driver descriptions**

When upgrading an Oracle GoldenGate deployment for SQL Server to Oracle GoldenGate 23.7 from the previous versions or the 21c release using OPATCH, you must reset the contents of the `odbcinst.ini` file. For details on performing this task, see Upgrading Oracle GoldenGate Microservices GUI.

> ⓘ **Note**
>
> You do not need to follow this step if upgrading from Oracle GoldenGate 23.7 to later releases.

# Release 23.6.0.25.05- May 2025

**Bug 36862037: SQL Server - Standardize the SQL Server driver string in odbcinst.ini**

Beginning with Oracle GoldenGate 23.6, the provided ODBC driver for SQL Server changed from `libmsodbcsql-18.3.so.2.1` to `libmsodbcsql.so` and the driver's name in the `odbcinst.ini` file has changed from ODBC Driver 18 for SQL Server to Microsoft ODBC Driver for SQL Server.

When patching an Oracle GoldenGate deployment for SQL Server from version 23.4 or 23.5 to Oracle GoldenGate 23.6 or later, you must update the contents of the `odbcinst.ini` and `odbc.ini` (if exists) files.

For details on performing this task, see Patching Oracle GoldenGate for SQL Server.

# Release 23.7.0.25.01- January 2025

**Bug 37298528 - MySQL: Make TRANLOGOPTIONS TRACKSCHEMACHANGES enabled by default**

Enhanced `TRANLOGOPTIONS TRACKSCHEMACHANGES` option to be enabled by default.

**Bug 37539434: Oracle - All Replicats without checkpoints are desupported**

The creation of integrated and classic Replicat without checkpoint tables is not supported in Oracle AI Database. Additionally, any Replicats that were created without the checkpoint tables, will not start successfully.

For existing Replicats to run successfully, you must alter the Replicat to add a checkpoint table or add the checkpoint table to GLOBALS and then restart the Replicat. See `ADD REPLICAT CHECKPOINTTABLE` in the *Command Line Interface Reference for Oracle GoldenGate* for details.

**Bug 35569409: PostgreSQL - Use Microservices Architecture task scheduler to update the heartbeat tables instead of relying on cron job**

Configured an Administration Service task to update the heartbeat table to avoid replying on the cron job to do it.

# Release 23.5- July 2024

**Oracle GoldenGate does not need the OGG_SERVICEMANAGER_ID environment variable to be set for using the command line utilities that access database credentials**

In Oracle GoldenGate 23.5 release, there is no requirement to set up the `OGG_SERVICEMANAGER_ID` environment variable for using command line utilities that access database credentials. This is required in the Oracle GoldenGate 23.4 release.

**MySQL - Removed the remote (RMTTRAIL) option from the WebUI**

For MySQL, the **Remote** button that was used for adding an Extract, has been removed from the WebUI.

# Release 23.4.2- June 2024

**Behavior change in Oracle GoldenGate**

Oracle GoldenGate introduces the following feature, which impacts the behavior of configuring and using Oracle GoldenGate:

**Microsoft ODBC Driver 18 for SQL Server**

Oracle GoldenGate for SQL Server now packages the Microsoft ODBC Driver 18 along with the Oracle GoldenGate for SQL Server installation, and database connections will use this driver by default.

# Release 23.4 - May 2024

**Behavior change in Oracle GoldenGate**

Oracle GoldenGate introduces the following features, which impacts the behavior of configuring and using Oracle GoldenGate:

- In OGGCA, you must use the `#pkcs8` format to upload server, client, and rootCA certificates. Uploading wallets (`#pkcs12`) is not supported. Fore more information, see About Service Manager.

- When setting up Oracle AI Database users for Oracle GoldenGate, make sure to use Oracle GoldenGate user roles to assign privileges. Fore more information, see Grant User Privileges for Oracle AI Database and Higher.

- Support for Oracle `Boolean` and `vector` data type for Oracle AI Database. Fore more information, see Oracle: Details of Support for Oracle Data Types and Objects.

- Support for PostgreSQL `pgvector` extension, `array`, `tsquery`, and `tsvector` datatypes.

- Only per-PDB Extract is used for Extract rather than root-level Extract except for Downstream Capture, where rool-level Extract is configured.

- Using Integrated Diagnostics rather than ULT_RPADV Diagnostics integrated in Oracle GoldenGate .

**Oracle GoldenGate features for Oracle AI Database**

**User roles to grant role-based privileges for Oracle AI Database**

Oracle GoldenGate for Oracle AI Database has introduced user roles to grant role-based privileges.

For details, see the Grant User Privileges topic in *Oracle GoldenGate Microservices Documentation*.

# 5

# Deprecated and Desupported Features and Parameters

This section describes the deprecated and no longer supported features of Oracle GoldenGate.

## Release 26ai (23.26.1.0.0) - Deprecated and Desupported Features - January 2026

**Sybase ASE has been deprecated with Oracle GoldenGate**
Starting with Oracle GoldenGate, support for Sybase ASE Capture and Delivery will be deprecated, and no new features will be added. Support for Sybase ASE may be desupported in a future release of Oracle GoldenGate.

## Release 23.9 Deprecated and Desupported Features and Parameters - July 2025

**FORMATASCII, FORMATXML, FORMATSQL Parameters are Desupported**
The `FORMATASCII`, `FORMATXML`, and `FORMATSQL` Extract parameters have been desupported. Use the OUTPUTFORMAT parameter instead of these parameters in the Extract parameter file.

## Release 23.5 Deprecated and Desupported Features and Parameters - July 2024

**Oracle GoldenGate for Oracle TimesTen no longer supports the TimesTen Scaleout architecture**
Starting with Oracle GoldenGate, Oracle GoldenGate for Oracle TimesTen does not support the Scaleout architecture.
Use Oracle GoldenGate 21c for delivery to TimesTen Scaleout architecture for TimesTen versions 18.1 and 22.1.

## Release 23.4.2 Deprecated and Desupported Features and Parameters - June 2024

**Oracle GoldenGate has deprecated DBOPTIONS USEREPLICATIONUSER**
`DBOPTIONS USEREPLICATIONUSER` option has been deprecated.
All SQL Server builds automatically set the connection with `Replication=yes`, and the functionality of `DBOPTIONS USEREPLICATIONUSER` remains the same as long as SQL Server ODBC driver is version 17.8.1 or higher.

# Release 23.4 Deprecated and Desupported Features and Parameters - May 2024

**Oracle GoldenGate has deprecated Integrated Replicat**
Starting with Oracle GoldenGate, integrated Replicat has been deprecated. As an alternative, you can use parallel Replicat in Integrated mode.

**Oracle GoldenGate has desupported Oracle GoldenGate Classic Architecture**
Starting with Oracle GoldenGate, Oracle GoldenGate Classic Architecture has been desupported.

**Oracle GoldenGate has desupported the following parameters:**
Starting with Oracle GoldenGate, the following parameters have been desupported:

- FILTERTABLE

- GETREPLICATES

- GETAPPLOPS

- IGNOREREPLICATES

- IGNOREAPPLOPS

- SHOWSYNTAX

> ⓘ **Note**
>
> The `TRANLOGOPTIONS FILTERTABLE` parameter has been replaced with the `EXCLUDEFILTERTABLE` parameter, but with the same functionality.

**Oracle GoldenGate has desupported Blowfish encryption**
Starting with Oracle GoldenGate, Blowfish encryption algorithm has been desupported.

**Oracle GoldenGate has desupported the Trace Table functionality**
Starting with Oracle GoldenGate, the trace table functionality has been desupported for Oracle AI Database. Therefore, the following parameters and commands are also desupported:

- **Parameters**:
    - TRACETABLE
    - NOTRACETABLE
- **Commands**:
    - ADD TRACETABLE
    - DELETE TRACETABLE
    - INFO TRACETABLE

**Oracle GoldenGate has desupported six-digit trail file**
Starting with Oracle GoldenGate, the six-digit trail file has been desupported.

**Oracle GoldenGate has desupported the use of userid and password in Extract and Replicat parameter files**

Starting with Oracle GoldenGate, the use of `userid` and `password` in the Extract and Replicat parameter files has been desupported. Alternatively, you need to use the `useridalias` option.

# 6

# Known Issues and Workarounds

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

## Release 26ai (23.26.1.0.0) - January 2026

**Bug 38829679: SQL Server - Unable to edit heartbeat due to stale object error**

When you try to alter an existing Heartbeat from the Oracle GoldenGate for SQL Server web interface, the console displays a notification message and the Heartbeat values do not change. As a result, you may not be able to alter the Heartbeat directly.

**Workaround**

If the you want to modify the existing heartbeat, then you must follow these steps in the web interface:

1. Delete the existing heartbeat.

2. Add a new heartbeat table with the required parameters.

Alternatively, you can alter the heartbeat using the `ALTER HEARTBEATTABLE` command from the Admin Client.

**Bug 38829042: Teradata - Autofill for new DB connection uses port 5432 instead of Teradata Default (1025)**

On **DB Connections** page, when you click on the **Add** button, the Port number field is auto-populated with 5432 by default, instead of 1025.

**Workaround**

If user wants to use the default port for Teradata in the new **DB Connection**, then you must manually delete 5432 and enter 1025 in the port number.

**Bug 38829062: Teradata - Connection creation fails when port is left empty but UI says default (1025) will be used**

On the **DB Connections** page, when you clear the port number and click **Submit** after adding values for other mandatory fields, the web interface throws an error and does not allow adding the new DB Connection.

**Workaround**

You must specify the correct port number for the DB Connection. If you want to use the default port number in the **DB Connection**, then you need to manually specify 1025 as the port number.

**Bug 38829010: Teradata - Copy/Edit DB connection doesn't populate DB Name (DSN-Based Connections)**

For an existing DSN-based connection, if you click on the **Edit** button, you will observe that the **Database Name** field remains blank.

**Workaround**

The **Database Name** field must be left blank. The **DB Connection** will utilize the Database Name from the settings in the DSN file.

# Release 23.10.3.25.11- December 2025

### Bug 38526643: SQL Server - Extract abends with Error in COLMAP clause

The SQL Server Extract displays error when using the `COLMAP` clause in the Extract to perform target column mappings.

### Workaround

Use the `COLMAP` clause in the Replicat rather than an Extract to remap from source columns to different target columns.

# Release 23.10.1.25.10- October 2025

### Bug 37859560: PostgreSQL - Initial Load extract ExtFile name required 3 characters instead of two

While creating an initial load Extract, Oracle GoldenGate requires 3 characters to be used for filename instead of standard two characters.

### Workaround

Provide 3 characters to by-pass the step and then change it manually in the parameter file in the next step.

# Release 23.10.0.25.10- October 2025

### Bug 38544821: Generic - Register Service Manager as a service/daemon in interactive mode (OUI) throws error- 'cannot stop deployment'

When running OGGCA for the first time to create the first deployment and setup the Service Manager to run as a service or system daemon, the deployment creation may return several errors.

### Workaround

To avoid this issue while still being able to apply the Oracle GoldenGate 23.10.x patch:

1. Install a version of Oracle GoldenGate prior to 23.10.x.
2. Create the Service Manager as a service/daemon using that earlier version of Oracle GoldenGate.
3. Apply the Oracle GoldenGate 23.10.x patch build using OPatch.

# Release 23.9- July 2025

### Bug 37873099: Db2 z/OS - Failure to add or delete checkpoint table

If a checkpoint transaction table is improperly cleaned up, the checkpoint table may be removed but the transaction table remains. When this checkpoint table is added again, the transaction table will fail to be added because it already exists.

### Workaround

Delete the checkpoint table again. If this doesn't work, then try to manually delete the transaction table, which will be in the same schema as the checkpoint table and will have the same name with `_lox` appended.

### Bug 37710172: Db2 z/OS - Version returned as 0 if the libraries are not authorized

If the WLM `steplibs` libraries are not authorized then Extract will abend because the version number is 0.

### Workaround

Ensure that the libraries are authorized.

# Release 23.8- April 2025

### Bug 37834526: SQL Server - Extract abends on CDC and base table mismatch

Extract compares the table structure of the base table with the CDC capture instance table, causing an abend in case of mismatch.

### Workaround

Add the following to the Extract parameter file and restart it:

```
TRANLOGOPTIONS GETMETADATAFROMVAM
```

# Release 23.6- October 2024

### Bug 37152943: Db2 for i - Extract fails with core dump issue for heartbeat table

For Oracle GoldenGate Extract for Db2 for i, abends with the core dump error for heartbeat table. This results in heartbeat functionality not working .

### Workaround

None.

### Bug 37468391: Oracle - XAGTask is killing all GoldenGate processes running on a node when one Service Manager is stopped

When running Oracle GoldenGate using multiple OGG_HOME directories, and a Service Manager registered with XAG fails, or is stopped by XAG/CRS, all GoldenGate processes running on the server will be stopped, no matter what OGG_HOME they are running out of. This will cause a server wide GoldenGate outage.

**Workaround**

Only use XAG integration with Oracle GoldenGate on servers with:

- A single Service Manager.
- No other Oracle GoldenGate processes running out of a different `OGG_HOME`.

# Release 23.5- August 2024

**Parallel Replicat is not supported for Sybase**

Oracle GoldenGate for Sybase does not support parallel Replicat.

**Workaround**

Use coordinated or classic Replicat.

**Bug 36926498: Sybase - Bi-directional Extract crashes without any error**

An issue with Extract configured for bi-directional replication causes the Extract to abend.

**Workaround**:

None

**Bug 36927786: Generic - OGGCA deployment creation is not picking up SYBASE system variable/value**

When creating a Sybase deployment, the `SYBASE` system variable is not getting set automatically for the deployment.

**Workaround**

Add the `SYBASE` variable to the deployment's environment variable configuration manually, and set the path to the Sybase home directory, such as `/opt/sap`, then restart the deployment.

# Release 23.4- May 2024

**Explicitly exclude Inverted File (IVF) and Hierarchical Navigable Small Worlds (HNSW) index tables**

If you are using wildcard parameters, then IVF and HSNW vector index tables must be explicitly excluded from the Extract.

**Workaround**

None

**Extract LSN positioning does not work with 0x:8:8:4 format for the Admin Client**

For SQL Server, starting an Extract with `ATCSN` or `AFTERCSN` with the Admin Client and using a LSN value with a `0x8:8:4` format is not working as intended.

**Workaround**

Provide the LSN value in the following format: `0x8:8:4-ffffffff-8:8:4`.

For example:

```
START EXTRACT EXTPROD AFTERCSN 0x000000b3:00002240:0003-
ffffffff-000000b3:00002240:0003
```

# 7
# Bugs Fixed

This chapter describes the bugs fixed 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 (23.26.1.0.0) - January 2026

**Bug 37191068: Generic - Distribution Path fails with error "OGG-10397 : The network connection to qacaods has been closed"**

Fixed an issue with Distribution Path failing with error `OGG-10397 : The network connection to qacaods has been closed`.

**Bug 38328253: Generic - Parallel Replicat duplicates record when using the DEFERAPPLYINTERVAL parameter**

Fixed an issue with the Parallel Replicat processing the same record twice using the `DEFERAPPLYINTERVAL` parameter.

**Bug 38346873 : Generic - OGGCA.sh failing when certificate-bundles uploaded contains unrelated CA certificate**

Fixed an issue with oggca.sh command failing when certificate-bundles uploaded contained unrelated CA certificate.

**Bug 38358937 : Generic - Large number of Replicats/Extracts degrading the Administration Service performance**

Fixed an issue with the Administration Service performance getting degraded due to large number of Replicats/Extract are involved in a deployment.

**Bug 38420855 : Generic - PR limit mapper to 24**

Fixed an issue with PR mapper limited to 24.

**Bug 38572833 : Generic - Target-initiated path failing frequently with SSL connection errors and slow performance**

Fixed an issue with the target-initiated path using proxy failing frequently when source is OGG version 21 and target database is version 23.

**Bug 38693738: Generic - Adminclient -v did not display the entire banner instead of just the OGG version**

Fixed an issue with the output of adminclient -v having different format compared to other tools like Extract and Replicat.

**Bug 38712941: Generic - Parallel Replicat reporting error OGG-10178**

Fixed an issue with the parallel Replicat displaying error OGG-10178 when transactions containing table are not scheduled in parallel due to missing columns in trail records.

**Bug 38711831: Generic - Coordinated Replicat lag process displays zero and child process shows lag in seconds**

Fixed an issue with the coordinated Replicat when the parent process lag always reported as zero.

**Bug 38763813: Generic - Admin Server crashes when evaluating processes listed as 'running' in taskHistory for termination**

Fixed an issue with the Admin Server when it crashed evaluating the non-OGG process task for termination.

**Bug 38602545: Db2 z/OS - Alter table commands on system tables resulted in locking issue**

Fixed an issue with alter table commands on system tables resulting in locking issue.

**Bug 38753105: Exadata Cloud @ Customer - Distribution Path filter does not work after restart**

Fixed an issue with the Distribution Path filter rules that does work after restart of the path.

**Bug 32419547: Db2 for i - ADD TRANDATA command did not support long filename with special characters**

Fixed an issue with the `ADD TRANDATA` command not supporting long table names containing special characters.

**Bug 38191578 :MySQL - Initial Load Extract incorrectly displays EXTFILE for the trail option**

Fixed an issue with Initial Load Extract displaying `EXTFILE` parameter for the trail option.

**Bug 38554196: MySQL - Extract report file displays incorrect message of source DB and OGG timezone mismatch**

Fixed an issue with Extract displaying incorrect message of timezone mismatch in report file when the timezone is automatically detected.

**Bug 35738889: Oracle AI Database - Replicat abends when running DDL on a table specified in a mapping clause without target table**

Fixed an issue with Replicat abending when running DDL on a table specified in a mapping clause without target table.

**Bug 36549993: Oracle AI Database - Memory leak with Service Manager when XAG is enabled**

Fixed an issue with the Service Manager facing memory leak when XAG is enabled.

**Bug 38500184: Oracle AI Database - The registerServiceManager.sh script fails with the "[FATAL] [INS-85109] Deployment gg4_oracle is not stopped" error**

Fixed an issue with registerServiceManager.sh script failing with error `[FATAL] [INS-85109] Deployment gg4_oracle is not stopped` while trying to automate the OGG installation and deployment.

**Bug 38531918: Oracle AI Database - Initial load Extract abended with error "OGG-00735 Error converting Oracle numeric value to ASCII"**

Fixed an issue with Extract abending with error, `OGG-00735 Error converting Oracle numeric value to ASCII`.

**Bug 38591395: Oracle AI Database - Extract continuously writes message "INFO OGG-25209 Retrieved master encryption key OGG_DEFAULT_MASTERKEY version 1 with state Active" to the report file**

Fixed an issue with Extract writing the message `INFO OGG-25209 Retrieved master encryption key OGG_DEFAULT_MASTERKEY version 1 with state Active` millions of time to the report file during workload runs.

**Bug 38665707: Oracle AI Database - @GETENV function is creating duplicate values on the target**

Fixed an issue with the @GETENV ('TLFKEY', SYSKEY, unique_key) function resulting in duplicate values in case of heavy load.

**Bug 3854: Oracle AI Database - ADD TRANDATA displays error OGG-30539 for JSON-related duality view**

Fixed an issue with the `ADD TRANDATA` that displayed error when `PREPARECSN` option was not allowed for duality view.

**Bug 38714353: Oracle AI Database - Admin Server crashes when evaluating processes listed as 'running' in taskHistory for termination**

Fixed an issue with the Admin Server when it crashed evaluating the non-OGG task history.

**Bug 38731771: Oracle AI Database - Replicat not processing all the records when using the MAXTRANSOPS parameter**

Fixed an issue with Replicat not processing the transaction records when using `MAXTRANSOPS` in the Replicat parameter file.

**Bug 38704589: PostgreSQL - Initial load and CDC Extract fails for source and target tables with char columns**

Fixed an issue with the Initial load and CDC Extract failing for source and target tables with char columns.

**Bug 38526643: SQL Server - Extract abends with Error in COLMAP clause**

Fixed an issue with Extract displaying error when using the `COLMAP` clause in the Extract to perform target column mappings.

**Bug 38546723: SQL Server - Start Extract command option AFTERCSN input failed with error "JSON element '/csn' value does not match the required pattern"**

Fixed an issue with Start Extract `AFTERCSN` values matching the single-CSN pattern.

**Bug 38340149: Yugabyte - Data corruption in empty char field**

Fixed an issue with char/wchar type column displaying corrupt data.

# Release 23.10.4.25.11- December 2025

**Bug 38550473: Db2 z/OS - OUI conflict on OEL9 with system lib c++ causes oggca.sh to fail**

Fixed an issue with OGGCA failing due to an OUI conflict on OEL9 with system lib c++.

**Bug 37985102: DB2ZOS - Failed to capture table created after extract start**

Fixed an issue where tables created or updated during an Extract run were not being discovered.

**Bug 38424843: DB2ZOS - Extract repeating a lot of inserts that are not present in the transaction log**

Fixed an issue with Extract appearing to be stuck, performing inserts repeatedly.

# Release 23.10.3.25.11- December 2025

**Bug 38008986: Generic - Distribution Service and Receiver Service are repeatedly restarting and failing to load properly in the web interface when the user attempts to connect**

Fixed an issue with the Distribution Service and Receiver Service web interfaces throwing errors in Secure store when running on Windows.

**Bug 38516222: Generic - Unable to resume Distribution Path after network interruption**

Fixed an issue with Distribution Path not being able to restart after a network interruption.

**Bug 38544821: Generic - OGGCA: Register Service Manager as a system service/ daemon in interactive mode throws error- 'cannot stop deployment'**

Fixed an issue with registering Service Manager as a system service/daemon throwing an error `Cannot stop deployment` when running OGGCA in interactive mode.

**Bug 38555316: Oracle - Parallel integrated Replicat must use 4 part XID for both DDL and DMLs**

Fixed an issue with integrated parallel Replicat trimming the DDL transaction XID to 3 part XID.

**Bug 38444591: SQL Server - Parallel Replicat with Heartbeat table enabled abends with error OGG-15449 stating lower watermark position is invalid**

Fixed an issue with parallel Replicat abending with the error `OGG-15449 stating lower watermark position is invalid` when replicating from Oracle to SQL Server.

**Bug 38408815: TimesTen - BATCHSQL BATCHTRANSOPS 1: PARAMETER NOT BOUND**

Added support for the extra binding SCN column in `BATCHSQLMODE` for the TimesTen database to prevent Replicat from throwing the error `:_QMARK1_SCN not bound in batchsql mode for TIMSESTEN database`.

# Release 23.10.2.25.10- October 2025

**Bug 38519846: Generic - Replicat process abends with OGG-01668, OGG-01296 for FUSION.fnd_tree_node**

Fixed an issue with Replicat abending with `OGG-01668, OGG-01296 for FUSION.fnd_tree_node` when some workloads with diffent keys in source and target prevent Replicat from using the correct values when binding of a `WHERE` clause.

**Bug 38583851: Autonomous AI Database Serverless - Extract abends with a coredump immediately after BR is cancelled**

Fixed an issue with Extract abending with coredump, immediately after a BR transaction is cancelled.

# Release 23.10.1.25.10- October 2025

**Bug 38356342: PostgreSQL PGOUTPUT - Extract libpq connection to PostgreSQL is failing without any error message**

Fixed an issue with Extract `libpq` connection to PostgreSQL failing without any error message.

**Bug 38176105: PostgreSQL PGOUTPUT - Extract gets stuck when publication is dropped and recreated**

Fixed an issue with Extract getting stuck when publication is dropped and recreated.

**Bug 37988214: PostgreSQL - TRIMSPACES appears to leave a single space for an empty char field**

Fixed an issue with the `TRIMSPACES` paramter was leaving one trailing space at the end of the ]] string.

**Bug 37721775: Sybase - Extract abends with ERROR OGG-00868 when table name contains backward slash "\"**

Fixed an issue with Extract, which was abending when a table name contained backslash.

**Bug 38050060: Sybase - Extract incorrectly stores fraction of second data for BIGDATETIME and BIGTIME columns**

Fixed an issue with the `BIGDTATETIME` and `BIGTIME` columns showing incorrect data in trail file.

# Release 23.10.0.25.10- October 2025

**Bug 38518373: Generic - Deployment web interface is inaccessible when the Service Manager and Deployment versions differ and use reverse proxy**

Fixed an issue with the web interface being inaccessible when user deployment and Service Manager versions differ under reverse proxy.

**Bug 38491947: Generic - Distribution path failing for connection created using secrets in OCI GoldenGate as OGG plugin is not called**

Fixed an issue with the plugin service not working with the Distribution Service.

**Bug 38463484: Generic - The web interface for Distribution Service is unresponsive when large number of Data streams are configured**

Fixed an issue with the Distribution Service not being able to process requests when there are many data stream connections.

**Bug 38413797: Generic - Replica Oracle GoldenGate to kafka do not handle character Ã Â£**

Fixed parsing for User tokens.

**Bug 38433538: Generic - Parallel non-integrated Replicat abends with ORA-1 ERROR DURING INITIAL LOAD**

Fixed an issue when the ORA-00001 error occurs due to same large transaction being started when using parallel Replicat with initial load and the table has `LOBS`/`CLOB`/`XML` columns.

**Bug 38379204: Generic - Unable to Add Purge Trails Task using wildcard with trail name, such as 'a*'**

Fixed an issue where the user is unable to add a Purge Trails Tasks from the web interface when using wildcard with a trail name, such as `a`.

**Bug 38163516: Generic – Data mismatch of binary column and original data in Data Stream output**

Fixed an issue when character set conversion for binary column resulted in data mismatch.

**Bug 38071102: Generic – Target-initiated Distribution Path metrics does not populate for longer path name**

Fixed an issue with the target-initiated DISTPATH metrics not being displayed when a longer path name is used.

**Bug 38040529: Generic – Administration Service performing too many system calls for the trail file queries**

Fixed an issue with trails endpoint scanning the complete trails subdirectory for each query causing a lot of redundant system calls.

**Bug 38000959: Generic - Oracle GoldenGate Data Streams disconnected abruptly**

Fixed an issue with the Distribution Service when disconnected data stream cannot be deleted after the service starts.

**Bug 37203769: Generic - Runinstaller not honoring INVENTORY_LOCATION from response file**

Fixed an issue with the `runinstaller` utility not honoring `INVENTORY_LOCATION` from response file.

**Bug 38069919: Generic – Memory leak with Collector process on Linux 8**

Fixed an issue with the Collector process was facing memory leak on Linux 8.

**Bug 38223479: Db2 for i - Error in COLMAP clause. Quoted string not properly terminate when use @STRSUB inside COLMAP**

Fixed an issue with the column function containing parameters of string or character literals with one or more multibyte characters, generating the OGG-30081 error.

**Bug 37598143: Db2 for i – Quoted native names displayed error in the schema of a table**

Fixed an issue when the quoted native names led to an error in the schema of the table.

**Bug 38172054: Db2 LUW – Checkpoint lag displayed random number before start of the Extract process**

Fixed an issue with Checkpoint Lag field of the `INFO EXTRACT` command that was displaying incorrect lag numbers.

**Bug 38288146: MySQL - In the web interface, Alter Extract shows incorrect option of "Position by Trail" instead of "Position by Log"**

Fixed the web interface for Oracle GoldenGate for MySQL showing incorrect options for Alter Extract.

**Bug 38240601: MySQL - Add Extract, Log Number and Log Position fields have incorrect limits**

Fixed an issue with the web interface displaying incorrect limits for Log Number and Log Position fields when adding an Extract for MySQL.

**Bug 37976723: MySQL – Mismatched data occurred when timestamp for Initial Load Extract is null**

Fixed an issue with initial load Extract when data buffer was set to zero for an invalid date.

**Bug 38064723: Oracle AI Autonomous Database Serverless - Parallel Replicat abends without error: Trace shows ORA-44003: invalid SQL name**

Fixed an issue with integrated parallel Replicat failing without error in some workloads with large transactions spawned in multiple trails.

**Bug 37189469: Oracle AI Autonomous Database Serverless - PIR giving warning as "OGG-00869 Database error 1483 (ORA-01483: invalid length for DATE or NUMBER bind variable"**

Fixed an issue with parallel integrated Replicat giving the warning `OGG-00869 Database error 1483 (ORA-01483: invalid length for DATE or NUMBER bind variable` on startup.

**Bug 34405738: Oracle AI Database Cloud Service - Distribution, Target-Initiated path or Replicat started but the required trail file is not available**

Fixed an issue with the system, which remained idle without notifying when Distribution or Receiver path started but was unable to open the trail file.

**Bug 38223374: Oracle Exadata on Premise - Report file is not getting updated with any changes once the report file reach 100k lines**

Fixed an issue with the report file not getting updated with any changes after the report file reaches 100k lines in Administration Service web interface.

**Bug 38219557: Oracle Exadata on Premise - Extract Abends with OGG-06222 An invalid request was made to switch into an empty catalog name**

Fixed an issue with downstream Extract abending with the error `OGG-06222 An invalid request was made to switch into an empty catalog name`.

**Bug 37730073: Oracle - Extract failed to fetch the lob data when NLS CHAR set to UTF8**

Fixed an issue with Extract failing to fetch the LOB data.

**Bug 38244210: Oracle - Oracle GoldenGate does not capture DDL from intermediary database**

Fixed an issue with Oracle GoldenGate Extract not being able to capture DDLs applied by Oracle GoldenGate 19c Replicat even when using `TRANLOGOPTIONS INCLUDETAG +`.

**Bug 38482150 - Oracle - Extract abends with IXAsyncTrans and IXFormatter idling during DML + sequence workload**

Fixed an issue with BR hanging, which caused IX Formatter thread and Extract to abend.

**Bug 38454868: Oracle - Oracle Vector data type used as DBFunction argument results in core dump**

Fixed an issue with DBFunction with Oracle VECTOR argument in classic parallel Replicat causing core dump.

**Bug 38400345: Oracle - Initial Load (or FETCH) JSON Data Written To TRAIL Incorrectly**

Fixed the issue causing incorrect rows to be returned when fetching JSON column data.

**Bug 38388150: Oracle - Recvsrvr logs are flooded with "Input rba past EOF" warnings**

Fixed an issue with the messages "Input rba past EOF for.." being printed constantly in the target side logs.

**Bug 38188610: Oracle - Extract generated XML trail file generating embedded CDATAs**

Fixed an issue with Extract generated XML trail file generating embedded CDATA.

**Bug 38134155: Oracle - Replicat abends with "OGG-01296 (JZN-00085: JSON unintelligible) on inline binary JSON"**

Fixed an issue with Replicat abending with the error `OGG-01296 (JZN-00085: JSON unintelligible) on inline binary JSON`.

**Bug 37996439: Oracle – Integrated Replicat encounters the error ORA-1400 when column contains @GETENV function**

Fixed an issue when the Integrated Replicat displays an error when the first column on the target database populates with `@GETENV` function.

**Bug 37779731: Oracle - Replicat does not show Ignore DDL stats in the web interface Statistics page**

Fixed the endpoint for Replicat STATS API calls so that it now returns DDL error statistics in replyData.

**Bug 37768677: Oracle - Oracle to Non-Oracle Replicat fails when JSON data type is in the source trail**

Fixed an issue with Replicat failing when JSON data type is in the source trail for Oracle to Non-Oracle replication.

**Bug 37739092: Oracle - Statistics for Coordinated Replicat shows no operations for first operation of replicated data**

Fixed the Statistics not showing the first operation of replicated data for coordinated Replicat.

**Bug 37726407: Oracle - Replicats (PIR, PR, COORDINATED) abended with OGG-01162 Total data length (###) specified for table exceeds record length (###)**

Fixed an issue with Replicat abending with the error `OGG-01162 Total data length (###) specified for table exceeds record length (###)` when there are large INSERT with LOB and 27+ KB of `VARCHAR`.

**Bug 37612200: Oracle - Extract continuously abending with the error "OGG-01733 Trail file header file size value"**

Fixed an issue with Extract continuously abending with the error `OGG-01733 Trail file header file size value`.

**Bug 37440826: Oracle - Extract abends with OGG-25809 (JZN-00018: Input to Serializer is Too Large) during JSON-to-text formatting**

Fixed an issue with a buffer overflow that occurs when Extract formats JSON column data into plain text.

**Bug 36543678: Oracle - Parallel integrated Replicat stops with ERROR "Coordinator cannot continue because all Coordinated threads failed to register in the time allowed"**

Fixed an issue with Parallel integrated Replicat abending with register timeout error.

**Bug 38433569: SQL Server - Performance Metrics Service tab not working**

Fixed an issue with the Performance Metrics Service tab not working when accessed from the Oracle GoldenGate Microservices web interface.

# Release 23.9.3.25.09- January 2026

**Bug 38343129: Generic - Replicat should not choose RELY DISABLED keys**

Fixed an issue with Replicat choosing `RELY DISABLE` key.

**Bug 38347678: Generic – Distribution Path timeout occurs when the Receiver Service path takes a long time in recovery**

Fixed an issue with Distribution Path that would timeout if the Receiver Service path got stuck in recovery and was unable to receive messages.

**Bug 38251066: Database Cloud Service - ERROR OGG-02615 and ORA-24459: registered in OGG deployment | OCI_SPOOL_ATTRVAL_TIMEDWAIT mode with connect timeout 3s**

Fixed an issue with the fetch connection timing out with an ORA-24459 because it is incorrectly using session pooling instead of a dedicated connection.

# Release 23.9.2.25.08- September 2025

**Bug 38092414: Generic - Administration Service threads with lll_lock_waits with ProcessResponse calls from Integrated Replicat**

Fixed an issue with Administration Service getting stuck when running commands to query Extract and Replicat information.

**Bug 37802786: Generic - Extract is consuming high Swap space and memory resources**

Fixed an issue with VAM type Extracts producing a leak on checkpoint operations.

**Bug 38138189: Generic - Connection assignment failure when using Database Password plugin feature for non-Oracle databases**

Fixed an issue causing connection assignment failure when using the Database Password plugin feature.

**Bug 38161201: MySQL - Extract lag increasing due to untracked GTID sets for DDL operations**

Fixed an issue with Extract lagging behind because it was unable to process a large GTID set due to a gap in the GTID set. This gap is created when the GTID for the `CREATE` statement is not added to the GTID set because the `binlog_row_metadata` is set to `MINIMAL` and the DDLs are disabled.

**Bug 38181251: Oracle Exadata on Premise - OGG-06565 Formatting error on: table name. Error converting timestamp with timezone from Oracle to ASCII format for column "XXXXXXX"**

Fixed an issue with Extract reporting `Error converting timestamp with timezone from Oracle to ASCII format for column` when the timezone hour is outside the range -12 to +14.

# Release 23.9- July 2025

**Bug 38166700: Generic - Invalid and malformed REST call causes services to go down**

Fixed an issue with Service Manager crashing due to malformed HTTP request.

**Bug 38145461: Generic - Cannot create distpath with forward proxy**

Fixed the issue with creating DISTPATH and target-initiated DISTPATH with forward proxies.

**Bug 37977377: Generic - Integrated parallel Replicat Abended without any database operation**

Fixed an issue with integrated parallel Replicat abending on start when using the `BEGIN NOW` or `BEGIN TIMESTAMP` option.

**Bug 38024687: Generic - BRDIR directory no longer works in Microservices Architecture**

Fixed the issue with `BRDIR` parameter to allow storing BR files in any location.

**Bug 37722696: Generic - Missing BR files on Extract restart**

Fixed the issue that caused missing bounded recovery files when changing the `BRDIR` parameter.

**Bug 37910386: Generic - Hang in Oracle GoldenGate processes when abending and reloading the activity logging configuration**

Fixed an issue with Oracle GoldenGate processes that would hang while abending.

**Bug 37154111: Generic - PL/SQL Procedure GG_PURGE_HB_TAB Created With Wrong Syntax**

Fixed an issue where creating the heartbeat table with the `PARTITIONED` option, creates an invalid `GG_PURGE_HB_TAB` procedure.

**Bug 37916455: Generic - Extracts getting the error "OGG-01733 Oracle GoldenGate Capture for PostgreSQL, .xxxx.prm: Trail file header file size value 4294967295 for trail file 'xxxxx' differs from the actual size of the file"**

Fixed the end of last output trail file corruption.

**Bug 38052795: Generic - Removed "Heartbeat Stopped" status for delayed heartbeats**

Fixed an issue with the Oracle GoldenGate web interface where the Heartbeat Stopped message is displayed in the Replicat heartbeat section, when heartbeat age or lag is 10 times the heartbeat frequency heartbeat.

**Bug 36887530: Generic - AGCTL STOP GOLDENGATE command failing and calling PKILL**

Fixed an issue with the `XAGTask` script, which cannot be used on the AIX platform because the script uses the `pgrep` and `pkill` commands that are not available on AIX.

**Bug 37787953: Generic - Upon source NGINX service restart, target initiated Receiver Path fails to start until the source Distribution Service is recycled**

Fixed an issue with target-initiated distribution path not restarting properly and failing with `path already exists`, if NGINX service is stopped and restarted.

**Bug 37776423: Generic - Oracle GoldenGate Data Streams start with timestamp fails**

Fixed an issue with Distribution Service sending incorrect local timestamp value.

**Bug 37716344: Generic - Bring back the ability to copy parameters and properties from one process to another**

Added the ability to copy parameters and properties from one process to another.

**Bug 38063372: Db2 for i: Unable to retrieve journal receiver sequence numbers greater than 2^31-1**

Fixed an issue with Extract failing to start when the journal sequence number is greater than 2147483647.

**Bug 37527027: Db2 for i - Extract not picking up records when there is space in table name**

Corrected Extract not picking up records when there is a dot or a space in the table name.

**Bug 37973476: Db2 z/OS - Extract abending with error double free or corruption (!prev)**

Fixed an issue with Extract that abends with `error double free or corruption` when dealing with DDL operations generated for XML type data. Oracle GoldenGate doesn't support XML data capture from Db2 z/OS. Corrected the Extract behavior to ignore this type of data.

**Bug 38003423: Db2 z/OS - Extract encounters the error OGG-25174 For LRSN XXXXXXXX, the QWHSTYP value should = QWHSHS01 and shuts down**

Fixed an issue with Extract shutting down when the error `IBM Z/OS OGG-25174 For LRSN XXXXXXXX, the QWHSTYP value should = QWHSHS01` occurs.

**Bug 37634527: Exadata on Premises - OGGCA.sh fails when attempting to modify a single service manager when there are multiple service managers on a server**

Fixed an issue with the OGGCA utility not being able to discover a Service Manager at the specified hostname/IP address and port number.

**Bug 37971586: MySQL - Extract hangs and GTID set increases when using FILTERTABLE or EXCLUDEFILTERTABLE**

Fixed an issue where the Extract for MySQL hangs due to large GTID set growth when using `FILTERTABLE` or `EXCLUDEFILTERTABLE`.

**Bug 37891160: MySQL Extract crashes on missing character set field for inserted row into the mysq.user table**

Added null check validations to avoid any null pointer exception for all the table metadata values.

**Bug 37915273: MySQL: Extract abends when DDL is captured for a table that was dropped before the capture could read the DDL change**

Extract abends in processing DDL when table does not exist in the database.

**Bug 37900937: MySQL - Extract abends with an error when STRICT_TRANS_TABLES is not enabled for TIMESTAMP columns**

Fixed an issue with Extract on MySQL failing with the error `OGG-04049 Detected metadata mismatch for column`.

**Bug 37968974: Oracle - Replicat (parallel integrated) tries to apply LCR twice and abends**

Fixed an issue with parallel integrated Replicat trying to apply a transaction twice after running into the error `ORA-12609 TN: Receive timeout occurred`.

**Bug 38105446: Oracle - Online DDL Workload: Extract abends with the error OGG-02092 Unexpected condition in function indexOutOfRangeError at line 51. Index 5 out of range. Number of elements: 5**

Fixed an issue where validating column count led to an error if the online DDL setting column was unused and `EXCLUDEHIDDENCOLUMNS` option was enabled.

**Bug 37904243: Oracle - Replicat fails after image value is written incorrectly to trail for a composite key that contains NVARCHAR with NCHAR character set UTF8**

Fixed the issue with Replicat failing to update the LOB because the image value is incorrectly written to trail for a composite key that contains an NVARCHAR with NCHAR character set UTF8.

**Bug 38169230: PostgreSQL - Unable to create initial load Extract because the Next button is unresponsive**

Fixed the Next button function in the Oracle GoldenGate web interface to allow creating an initial load Extract.

**Bug 37873382: PostgreSQL - JSONB data should not be written to the trail as XML type**

Fixed the CDC and integrated Extract to send the JSONB data type in string format by setting its subtype to `_SQLSDT_JSON (15)`.

**Bug 37834526: SQL Server - Extract abends when there is mismatch between CDC and base table**

Fixed an issue where Extract was comparing the table structure of the base table with the CDC capture instance table, causing an abend when there was a mismatch.

# Release 23.8.5.25.06- June 2025

**Bug 37787953: Generic - Upon source nginx service restart, target-initiated Recv Paths failing to start until source Distsrvr is recycled**

Fixed an issue with target initiated path not getting restarted when the NGINX service restarts.

**Bug 37927688: PostgreSQL: OGG-04036 Positioning sequence ID is out of order, old sequence ID is 00000974/7348DD68**

Fixed an issue where a recovery issue causes data loss by missing the transaction after Extract restarts.

**Bug 37916455: PostgreSQL - Extract hitting OGG-01733 Oracle GoldenGate Capture for PostgreSQL, .xxxx.prm: Trail file header file size value 4294967295 for trail file 'xxxxx' differs from the actual size of the file**

Fixed end of last output trail file corruption.

# Release 23.8.0.25.04- April 2025

**Bug 37254573: Generic - Unexpected Warning message showing up while deleting an Extract**

Fixed an issue with a warning message that kept appearing when trying to delete an Extract or Replicat.

**Bug 37581002: Generic - Discrepancy in Autorestart Delay timing for Distpath on the web interface**

Fixed an issue with the Oracle GoldenGate web interface showing the value of Auto Restart Delay for DISTPATH in seconds although it represents minutes.

**Bug 37686972: Generic - Web interface doesn't reflect updated managed process options for Extracts and Replicats if Critical to deployment health is enabled**

Fixed the web interface to reflect updated managed process options for Extracts and Replicats when the Critical to deployment health option is enabled.

**Bug 37477825: Autonomous AI Database - Integrated Extract showing faulty Running status and causing mutex lock on adminsrvr threads**

Fixed the issue where integrated Extract status is incorrectly shown as Running, which caused the mutex lock on the Administration Service threads.

**Bug 37207902: Db2 /zOS - OGG-01741 unexpected log sequence number**

Fixed an issue where Extract terminates with the error "`OGG-01741 Unexpected Log Sequence encountered at LSN XXXXXXXXXX, previous LSN XXXXXXXXXX.`"

**Bug 37418253: Db2 z/OS - Heartbeat table not working on Oracle GoldenGate 23.6 from Db2 z/OS to Oracle database**

Fixed an issue where the `ADD HEARTBEATTABLE` fails to create a viable heartbeat system, if the value of `GGSCHEMA` is not enterered in all caps in the GLOBALS file, even though the results show that it was successfully created.

**Bug 36775234: Db2 z/OS - Oracle GoldenGate for Db2 z/OS is writing multiple 00C90101 abends to Db2 Log**

Eliminated the 00C90101 errors and fixed Oracle GoldenGate for Db2 z/OS to catch most memory manager abends to eliminate large SVC dumps.

**Bug 37705856: Exadata Cloud @ Customer - KeyOCID and USEROCID are interchanged in OCI Console**

Fixed the OCI Console displaying interchanged KeyOCID and USEROCID values although the values are correctly set up internally.

**Bug 37297126: MySQL - Metadata warnings are logged in the report file for uncaptured tables causing excess log growth**

Fixed an issue with metadata change warning being printed even for the uninterested tables, which was causing the report file size to grow.

**Bug 36683628: MySQL - DBOPTIONS FORCELOWERCASEMAPPING is not working for DDL Replication**

Fixed an issue with `DBOPTIONS FORCELOWERCASEMAPPING` not working for DDL Replication.

**Bug 37732737: Oracle - Unable to Create Distribution Path from the web interface**

Fixed an issue with Distribution Service web interface not allowing creation of DISTPATH.

**Bug 37702257: Oracle - Performance Metrics Statistics page is not loading**

Fixed an issue with Performance Metrics Service web interface not loading the Performance Metrics Statistics page.

**Bug 37378652: Oracle - Function @GETENV('TLFKEY',SYSKEY,4) is not working in the Replicat**

Fixed an issue with the column function `@GETENV('TLFKEY',SYSKEY,number)` not working and returning NULL value.

**Bug 36196912: Oracle - Initial Load Extract capturing Editionable View and Packages**

Fixed the functionality where initial load Extract was capturing editionable view and packages.

**Bug 36878392: Oracle - Health Check Oracle GoldenGate 23.4.1.24.05 and Oracle AI Database (23.5) reports ORA-942 for EXTRACT-LOGMINER**

Fixed an issue with health check script failing on Oracle AI Database.

**Bug 37651447: Oracle - Subdirectory field should not allow absolute paths when creating a Distribution Path**

Fixed an issue in Distribution Service web interface where the subdirectory field allowed absolute path when creating a Distribution Path.

**Bug 37631266: Oracle - Unable to Add Data Streams When User Selects Trail Name from Dropdown**

Fixed an issue with Distribution Service web interface unable to add Data Streams when trail name is selected from the dropdown box.

**Bug 37567815: Oracle - Unable to add checkpointtable from Admin Client**

Fixed an issue with Admin Client not being able to add checkpoint table without an argument.

**Bug 36705454: Oracle - Download/delete trail file fails with OGG-30257 for trails with 6 digits sequence number**

Fixed an issue with Administration Service Trails web interface not allowing download or deletion of initial load Extracts created with 6 digit sequence number.

**Bug 37295529: Oracle - ADD/DELETE TRANDATA does not throw an error when the option is unsupported**

Added the warning for unsupported `TRANDATA` options applied to Duality views.

**Bug 37600183: Oracle - Trail Size should be moved from the Source Options (Step 2) page to the Target Options (Step 3) page while creating target-initiated paths**

Fixed the Receiver Service web interface by moving the Trail Size option from the **Source Options** page to the **Target Options** page while creating a target-initiated distribution path.

**Bug 37510192: Oracle - ServiceManager UI deployment shows blank GoldenGate Data Home**

Fixed the Service Manager user interface that was displaying a blank Oracle GoldenGate Data Home directory value.

**Bug 37281746: Oracle - INFO TRANDATA shows supplemental logging as disabled even though logical replication is enabled in the RDBMS**

Resolved the inconsistency in the output from `INFO TRANDATA`.

**Bug 37460054: Oracle - When expanding Extracts/Replicats in the left pane, the hierarchy initially displays blank before subsequently loading the respective sections in the tree**

Fixed the behavior of the web interface left pane in the Administration Service, which would not display anything in the hierarchy initially, when expanding Extracts/Replicats, but, subsequently loads the respective sections in the tree.

**Bug 37506596: Oracle - Wrong value of 'Total Messages Received' in Network Statistics in Distribution Service Paths**

Fixed the Performance Metrics Service web interface, which was displaying a wrong value for 'Total Messages Received' in Network Statistics under Distribution Service Paths.

**Bug 34798711: Oracle - Error in DBFUNCTION usage should show "not supported" instead of mapping error**

Improved misleading error message when extra single quotes used in `@dbfunction`.

**Bug 37111463: Oracle - Replicat fails to be added due to missing checkpointtable parameter as expected, but subsequently on "info all" command, the adminclient checks for the unadded Replicat's checkpointfile**

Fixed an issue with Oracle GoldenGate for Oracle where Extract/Replicat registration is not removed when adding Extract/Replicat process fails.

**Bug 37645651: Oracle GoldenGate for DAA - Before Image record of the update operation not replicated with INSERTALLRECORDS**

Modified issue where an `UPDATE` operation type was not correctlty used as `INSERT` when `INSERTALLRECORDS` was active.

**Bug 37549835: PostgreSQL - AFTERCSN is not working from the web interface**

Fixed `AFTERCSN`, which was not working from the web interface.

**Bug 37430773: SQL Server - Upgrade Heartbeattable does not work for Oracle GoldenGate for SQL Server MA Deployment**

Fixed the issue with Upgrade Heartbeattable functionality not working in Oracle GoldenGate for SQL Server MA deployment.

**Bug 37628576: Sybase - Upgrade Checkpointtable command not working**

Improved the error message when the `UPGRADE CHECKPOINTTABLE` command does not work for Oracle GoldenGate for Sybase.

**Bug 37430785: Sybase - Upgrade Heartbeattable does not work for Sybase**

Fixed the incomplete heartbeat table functionality for Oracle GoldenGate for Sybase.

**Bug 37008469: Sybase - Administration Service retrieves incorrect server information in DB Connection**

Fixed the server information when the user connects to different DB connection.

**Bug 37664259: TimesTen - Greater than 30 characters not accepted for ALTER CREDENTIALSTORE for USER**

Increased `DBUSER` string length to accommodate MA user strings (DSN-Less based).

# Release 23.7.1.25.02- February 2025

**Bug 37504103: Generic - Distpaths Intermittently not self-recovering from the recvsrvr restarts**

Fixed the recovery rollback scan to scan forward.

**Bug 37570183: Oracle - Pump and Replicat doesn't update input checkpoint position XID properly**

Fixed the checkpoint transaction update for pump and Replicat.

# Release 23.7.0.25.01- January 2025

**Bug 36587145: Generic - Administration Service worker threads in pthread_mutex_lock() mode while one/more threads are not successful when trying to log in to a database session from the Administration Service with adminsrvr::DatabaseSession::login()**

Fixed the issue with the `DBLOGIN` commands taking a few minutes to fail when multiple sessions try to issue `DBLOGIN` commands through the Administration Service.

**Bug 37381546: Generic - Filter Rules do not appear to be added or updated in the data stream when user attempts it while logged into the Administration Service web interface and navigates to the Distribution Service**

Fixed an issue with the Oracle GoldenGate web interface behavior regarding the creation of filter rules not getting added or updated in the Data Stream when you log in to the Administration Service and then navigate to the Distribution Service.

**Bug 33749680: Generic - Replicat reports misleading error when GRANT DDL applied and grantor user does not exist in target database**

Fixed an issue with Replicat not showing the DDL that failed to replicate at DDL failure.

**Bug 37409072: Generic - Distpaths are not working upon stop/start of Distribution Service3**

Fixed an issue with Distpaths not working after stopping and starting the Distribution Service.

**Bug 37270480: Generic - Coordinated Replicat starts reading from the first trail when terminating and restarting on Amazon Redshift**

Fixed an issue with Replicat checkpoint position lagging compared to the database position, after unexpected termination and restart on Amazon Redshift.

**Bug 37163842: Generic - Parallel Replicat gets stuck when restarting after database instance service is stopped, and Replicat abended**

Fixed the hang issue caused by inconsistent counter.

**Bug 36798702: Generic - Replicat abends with OCI Error ORA-00917: missing comma for @dbfunction(json_mergepatch(...))**

Fixed an issue with Replicat abending with the error `OCI Error ORA-00917: missing comma for @dbfunction(json_mergepatch(...))`.

**Bug 37086096: Generic - Parallel Replicat hangs during registration at startup**

Fixed an issue with parallel Replicat hanging during startup when configured with a large number of appliers.

**Bug 37439646: Db2 for i - Extract not capturing records when table has special characters**

Introduced support for extracting from table names with non-ascii characters.

**Bug 37413981 - Db2 for i - Extract abends with ERROR OGG-30541 One or more members of the file TPCC/CUSTOMER are locked**

Fixed an issue with Extract abending with the error `ERROR OGG-30541 One or more members of the file TPCC/CUSTOMER are locked`.

**Bug 37386126: Db2 for i - Extract error OGG-00551 Database operation failed: Fetching from qsys2.sysmemberstat for retrieving first member**

Fixed an issue with Extract generating the error `OGG-00551 Database operation failed: Fetching from qsys2.sysmemberstat for retrieving first member`.

**Bug 37204715 - Db2 for i - Issue with Info trandata on tables with format "."**

Fixed an issue with `INFO TRANDATA` failing with SQL names containing special characters and length greated than 10 characters.

**Bug 36980834: Db2 for i - Better handling of Journal Read API when the journal receiver is locked**

Enhanced the handling of error messages when the journal receiver is locked.

**Bug 37144231: Db2 for i - Extract Trandata not working when connected to IASP**

Fixed issues related to `ADD TRANDATA` and `ADD CHECKPOINTTABLE` commands when connected to an IASP.

**Bug 37239003: Db2 z/OS - Parsing parameter to TRANLOGOPTIONS IFIDIAGNOSTICS doesn't always produce correct result**

Fixed an issue with Extract abending with SigSEGV if activity logging is enabled for the Extract when using the parameter `TRANLOGOPTIONS IFIDIAGNOSTICS`.

**Bug 37409869: MySQL - Issue with the Heartbeat feature flooding the MySQL database logs**

Fixed an issue with the Heartbeat feature flooding the MySQL database logs.

Fixed an issue to increase the `remote_database` and `local_database` fields of the Heartbeat table to 512 characters, which caused excessive log usage when the values for this field exceeded 30 characters. You will need to run `UPGRADE HEARTBEATTABLE` if patching an existing heartbeat table implementation.

**Bug 37086063: MySQL - CREATE TABLE AS SELECT is not correctly ignored by Extract**

Fixed an issue with the `CREATE TABLE AS SELECT` statement not working because the `SELECT` option was not skipped properly.

**Bug 36921787: MySQL - Oracle GoldenGate Extract consumes high memory with UPDATERECORDFORMAT parameter**

Fixed an issue with Extract consuming higher memory when running with the `UPDATERECORDFORMAT` parameter

**Bug 37369266: Oracle - Lag of Extract continuously increasing on new primary after dbms_rolling from 19c to 23.7.0.25.01 when capturing from multiple PDBs**

Fixed an issue with continuously increasing Lag of Extract on new primary after `dbms_rolling` from 19c to 23.7.0.25.01 when capturing from multiple PDBs.

**Bug 37307982: Oracle - XAG fails to start Oracle GoldenGate Microservices when Service Manager admin password includes a colon ':'**

Fixed the XAG behavior, that had failed to start Oracle GoldenGate Microservices when Service Manager admin password includes a colon ':'

**Bug 37285812: Oracle - Table Statistics under the Extract/Replicat, Database Statistics Page are not showing all table statistics until user tried to search for specific table stats from search box**

Fixed an issue with Table Statistics under the Extract/Replicat, **Database Statistics** page not showing all the table statistics until specific table statistics are searched from the search box.

**Bug 37285774: Oracle - Page reloads of internal navigation from Services/Extracts/ Replicats tabs displays blank page**

Fixed an issue with the Oracle GoldenGate web interface displaying blank page upon page reloads of internal navigation from the **Services**, **Extracts**, **Replicats** tabs.

**Bug 36953036: Oracle - UIVPAT Border missing for Username, Password input text fields on Oracle GoldenGate login page**

Fixed an issue with UIVPAT border missing for username, password input text fields on Oracle GoldenGate login web page.

**Bug 37020932: Oracle - Output recovery not completing with Multiple target trail files after dbms_rolling from 19c to 23.7.0.25.01**

Fixed the issue with multiple trail file output causing unfinished recovery if there is no transaction found.

**Bug 37046598: Oracle - Extract abends with invalid metadata error when DDL replication is disabled and truncate and table delete are in flight**

Fixed an issue with Extract abending with an `ERROR OGG-10556 No data found when executing SQL statement`, when trying to look up the metadata for a table from Logminer when processing a truncate while the DDL is not being replicated to the target.

**Bug 37485403: Oracle - Extract abends with the error "OGG-30465 FAKE PK UPDATE Received LCR With Objid" after upgrading Oracle GoldenGate 21c to Oracle GoldenGate 23.7.0.25.01**

Fixed an issue with Extract abending with the error `OGG-30465 FAKE PK UPDATE Received LCR With Objid` after upgrading Oracle GoldenGate 21c to Oracle GoldenGate 23.7.0.25.01.

**Bug 37273254: Oracle Exadata - High RAM Memory Consumtion by Replicats**

Fixed memory leak with updates when using integrated Replicat with psuedo columns in the map.

**Bug 37118843: Oracle Exadata - Oracle 1430 error on checkpoint table in audit logs**

Fixed an issue with columns being added to parallel Replicat checkpoint tables without checking if the columns already exist.

**Bug 37266755: Oracle GoldenGate Big Data Delivery to JDBC-error OGG-02092 Unexpected condition in function indexOutOfRangeError**

Fixed an issue with incorrect array index when solving key columns when target table definition is created.

**Bug 36889273: PostgreSQL - Extract failing with Database error "ERROR: can no longer get changes from replication slot "etoora18_6c1918b7f4e4a1ec" - Manually switched back from SLC primary to LVS standby"**

Fixed an issue where the replication slot becomes invalidated if the `wal_level` on standby node is not set to `logical` in case of failover.

**Bug 37095544: SQL Server - Task result displays "No message available" in purge process task info**

Fixed an issue with purge process task information displaying "No message available" in task results.

**Bug 37114532: Sybase: Encountering ERROR OGG-00870 Database error 16843163 when checking LAG**

Fixed an issue with Extract encountering database error while fetching lag information.

**Bug 37045115:Sybase - Extract getting abended without throwing any proper reason**

Fixed an issue with Extract abending without any specific reason.

**Bug 36426099: Sybase - Parallel Replicat abends with database error "ERROR: Attempt to insert duplicate key row"**

Fixed an issue with parallel Replicat not being able to insert records into target table.

**Bug 37135162: Sybase - Negative value shown in incoming_extract_restart_age**

Fixed an issue with a database error occurring when fetching lag information for heartbeat lag.

# Release 23.6.3.24.12- December 2024

**Bug 37383026: Generic - Credential store cannot be created intermittently when deploying Oracle GoldenGate**

Fixed an issue with Oracle GoldenGate deployment failing because the wallet is not created correctly.

# Release 23.6.2.24.11- December 2024

**Bug 37234396: Generic - Convert credential store wallet's encryption factor from Service Manager ID to directory path, as needed**

Enhanced authentication by allowing conversion of credential store wallet's encryption factor from Service Manager ID to the directory path, as needed.

**Bug 36986688: Generic - Restarting Replicat fails after applying data length exceeding 4000, from JSON Data Vault to JSON Collection Tables**

Fixed an issue with Replicat failing to restart after applying data from JSON Data Vault to JSON Collection Table exceeding 4000.

**Bug 37215604: Generic - Updated @date function**

Updated parsing of `COLMAP`, correcting parentheses count and added check for quotes.

**Bug 37236177: Generic - After upgrade to 21.15, Replicat failed to process heartbeat data**

Fixed an issue with Replicat failing to process heartbeat data and generating the error `'Text ''` `could not be parsed at index 0` after upgrading to Oracle GoldenGate 21.15.

**Bug 37152943: Db2 for i - Extract is failing with core dump issue when heartbeat is enabled**

Fixed an issue with Extract failing with core dump issue when heartbeat is enabled.

**Bug 37283643: Db2 for i - Extract error "OGG-00146 Call to getNextRecord returned with error status -1: Unexpected operation type: C9D3"**

Fixed an issue with Extract not being able to handle Increment Limit (IL) journal entry.

**Bug 36848389: Oracle Autonomous AI Database Serverless - Replicat hangs on abend after error**

Fixed an issue with Replicat abending when it encounters an error on startup, while the process is still running and is in hung state.

**Bug 37170410: Oracle - Race condition when removing auto-login property from credential store and secure store wallets**

Fixed an issue with a race condition occurring when a single sign-on wallet is being converted to a password protected file.

# Release 23.6.0.24.10- October 2024

**Bug 36660154: Generic - Cookie created by session using Identity Provider (IDP) does not match the IDP session time.**

Fixed a session duration mismatch issue of the Oracle GoldenGate session cookie and the IDP session.

**Bug 36684067: Generic - Integrated Extract is generating XML with invalid characters &#**

Fixed an issue with integrated Extract generating XML with invalid characters due to missing `CDATA` tag for columns containing control characters.

**Bug 36742896: Generic - The TRANLOGOPTION EXCLUDEUSER command for integrated Extract is not working**

Fixed an issue of `TRANLOGOPTION EXCLUDEUSER | EXCLUDEUSERID` command not filtering excluded operations that were performed when integrated Extract was stopped or restarted.

**Bug 36778160: Generic - The Configure Client Access option under Access Signing Certificate in IDCS is not mandatory**

Updated the Configure Client Access option as non-mandatory in IDCS.

**Bug 36785701: Generic - Administration Service crashing frequently due to memory corruption**

Fixed an issue with the Administration Service frequently crashing due to running several database commands simultaneously.

**Bug 36802606: Generic - Plugin service option is displayed as "ServiceManager.pluginsrvr"**

Fixed the issue of Plugin Service displayed as ServiceManager.pluginsrvr in Web UI.

**Bug 36854462: Generic - Replicat abends when BinaryDouble and BinaryFloat are passed as argument for @DBFUNCTION(TO_CHAR(number)) function**

Fixed an issue of Replicat abending when `Boolean` datatype is passed as an argument for `DBFUNCTION()`.

**Bug 36890433: Generic - An invalid XML character (Unicode: 0X4) found in CData section**

Fixed an issue with the XML parser that was failing with the error, `An invalid XML character (Unicode: 0x1a) was found in the CData section.`

**Bug 37034549: Generic - Performance Metrics Service crashes frequently with Segmentation violation (11) from a corrupted double-linked list**

Fixed an issue with the Performance Metrics Service crashing frequently due to multiple threads accessing the `clearMPoint` function.

**Bug 37056535: Generic - When executing oggca.sh, no field to enter replication schema on Japanese environment**

Optimized the space on the OGGCA user interface screens to display all fields.

**Bug 37066526: Generic - IAM Web UI login fails with "invalid_request & reached the token size limit of 16,000 characters" error**

Fixed an issue with the IAM Web UI login when the Oracle GoldenGate deployment is integrated with IDCS/IAM and the user belongs to large number of groups.

**Bug 37079447: Generic - Root capture fails to start when EXCLUDEUSER parameter is specified in the parameter file**

Fixed an issue with Extract abending during startup when the `TRANLOGOPTIONS EXCLUDEUSER` parameter is included in the parameter file for the root capture process.

**Bug 37099587: Generic - Issue with OCI Oracle GoldenGate 21.15 Kafka capture**

Fixed an update issue with the Oracle GoldenGate Kafka Extracts caused by an update to the Oracle GoldenGate Credential Store.

**Bug 37115005: Generic - The oggca.sh command fails with error "oggca.sh: command not found" while configuring a silent mode deployment**

Fixed an issue with `oggca.sh` command failing with error, `oggca.sh: command not found` while configuring a silent mode deployment.

**Bug 36869358: C-tree - Replicat overwrites memory and core dumps when writing to discard file**

Fixed a memory overwrite issue with Replicat when writing to the discard file that caused core dump error.

**Bug 34200795: Db2 for i - For a materialized query table, the Extract's behavior differs for a non-initial load setup**

Fixed the Extract behavior to abend properly when a fully qualified name resolves to a materialized query table name for a non-initial load setup.

**Bug 36606660: Db2 for i - Validate table name regex pattern for all SQL and native names**

Fixed a JSON parsing issue with `INFO TRANDATA` command processing table names containing a period (.).

**Bug 36743591: Db2 for i - Extract abends when table name includes characters other than ASCII**

Added support for non-ASCII characters to be included in the table names.

**Bug 36844240: Db2 for i - Checkpoint tables are not automatically journalled in Microservices deployment**

Fixed an issue with checkpoint tables not automatically being journalled to `GGSCHEMA/OGGJRN`.

**Bug 36872864: Db2 for i - Intermittent connection timeout occurs when establishing a connection from a Java module to the database**

Fixed an issue that was causing intermittent connection timeout when establishing a connection from a Java module to the database.

**Bug 37084736: Db2 for i - The INFO TRANDATA command failing for native names with wildcards**

Added support for native names with wildcards for `ADD,INFO`and `DELETE TRANDATA` commands.

**Bug 36753184: Db2 LUW - Activity logger uses incorrect format specifications**

Fixed an issue of activity logger using incorrect format specifications.

**Bug 36024390: Db2 z/OS - The Extract should be able to switch LPARs using data sharing support**

Added data sharing support to enable Extracts to switch LPARs.

**Bug 36970650: Db2 z/OS - Extract abends without error when table is altered**

Fixed an issue of Extract abending without displaying any error message when a column is added to the table using the `ALTER TABLE` command.

**Bug 37064356: Db2 z/OS - Initial Program Load (IPL) resets the ECSA monitor job and causes the Extract to abend**

Fixed an issue of Extract abending when the memory monitor task is started on a different LPAR than the Extract.

**Bug 36860369: Exadata Cloud at Customer (Gen2) - Extract capturing DDLs on data pump export process's internal table, SYS_EXPORT_TABLE**

Fixed an issue with Extract capturing DDLs on internal tables generated during Data pump Export process.

**Bug 36688820: Exadata on Premise - Extract abends with error "OGG-02560 Formatting error on update operation for a LOB column"**

Fixed an issue of Extract abending with error, `OGG-02560 Formatting error on update operation for a LOB column`, due to leftover tombstone data.

**Bug 36825916: Exadata on Premise - Replicat abends due to missing trails purged by the manager process**

Fixed an issue of missing trail files being purged, causing the Replicat to abend.

**Bug 36773183: MariaDB - Unable to run parallel Replicat**

Fixed the issue of mapper receiving multiple `BEGIN` statements causing parallel Replicat to fail.

**Bug 35208691: MySQL - Timestamp datatype conversion does not happen when two Extracts capture from two different MySQL servers with two different timezones**

Fixed an issue with `TZ` environment variable setting that was not allowing the conversion of the `TIMESTAMP` datatype to the MySQL database timezone.

**Bug 35252069: MySQL - Oracle GoldenGate replication does not work when the CDR column value is null**

Added support for `CDROPTIONS _CHECKNULL` option for non-Oracle databases.

**Bug 36622073: MySQL - Support @DBFUNCTION with arguments for MySQL Heatwave for vector embeddings**

Added support for vector embeddings through `@DBFUNCTION` with arguments for MySQL Heatwave.

**Bug 37103610: MySQL - The Binary(16) field with trailing 0 in bytes is truncated**

Fixed an issue of the `Binary` field with trailing value as 0 is truncated.

**Bug 35117978: Oracle - Parallel Replicat process mode displays as coordinated when process is created**

Fixed an initialization issue with parallel Replicat process mode that displays it as coordinated.

**Bug 36294046: Oracle - Replicat abends with error "OGG-01163 Bad column length replicating a truncate operation"**

Fixed an issue with Replicat abending when processing the `TRUNCATE` procedure from a trail file generated on a server with `Big-Endian` architecture.

**Bug 36451257: Oracle - After the certificate update, Oracle GoldenGate warning "Unable to locate certificate with subject" is displayed**

Fixed an issue of warning being displayed in the process log files, after updating the certificates through the Service Manager interface.

**Bug 36543936: Oracle - OGGCA does not use the value of the HOST_SERVICEMANAGER option from the response file for non-silent installation**

Fixed an issue of Oracle GoldenGate Configuration Assistant (OGGCA) not using the value of the `HOST_SERVICEMANAGER` option from the response file for a non-silent installation.

**Bug 36714726: Oracle - Parallel integrated Replicat report file displays empty warning "WARNING OGG-00869 <NIL>" message**

Fixed an issue of empty warning messages displayed in the parallel integrated Replicat report file.

**Bug 36757657: Oracle - Coordinated Replicat abending with errors OGG-30200 & OGG-01091**

Fixed an issue with the purge process that was causing the coordinated Replicat to abend with errors `OGG-30200` & `OGG-01091`.

**Bug 36793509: Oracle - The Service Manager fails to start on Windows due to issue with ntdll.dll**

Fixed an issue with the `ntdll.dll` library file that caused the Service Manager to fail on Windows.

**Bug 36819559: Oracle - PDB change table capture abends with error "OGG-02259 Extract failed to gather source database metadata from the mining database"**

Fixed an issue of Extract failing to detect a shared capture on PDB, causing it to abend with the error, `OGG-02259 Extract failed to gather source database metadata from the mining database`, for an ADB deployment.

**Bug 36835509: Oracle - Replicat abends while mapping values from nchar/nvarchar2/ varchar2 type column to boolean type column**

Fixed the UTF8 mapping issues between `Boolean` datatype and `nchar/nvarchar` and `varchar/ nvarchar` with leading spaces datatypes.

**Bug 36855549: Oracle - For Output Extract recovery, Extract abends with error "OGG-02246 source redo compatibility level 23.5.0 requires trail format 12.2 or higher"**

Fixed a header issue with Extract, causing it to abend with error, `OGG-02246 source redo compatibility level 23.5.0 requires trail format 12.2 or higher`.

**Bug 36916916: Oracle - The Performance Metrics Service displays the error "OGG-15312 Cannot obtain database version information frequently"**

Removed the error message, `OGG-15312 Cannot obtain database version information frequently`, which was being displayed on connecting with the Admin Client.

**Bug 36920035: Oracle - The ConfigService.log is flooding with warning messages (Create new credential store failed with 409) when user is trying to get DB Connections using "services/v2/credentials" REST API**

Fixed an issue with `services/v2/credentials` REST API that was generating several warning messages in the ConfigService.log.

**Bug 36939158: Oracle - Heartbeat data disappears after the Performance Service page is refreshed**

Fixed an issue of heartbeat data disappearing when the Performance Service page is refreshed.

**Bug 36960165: Oracle - For some of the deployments, the status of all or some of the services is not updated from registered to running on the Performance Service page**

Fixed an issue with status of some services not being updated from registered to running on the Performance Service page, for some deployments, which were deployed using the Configuration Service.

**Bug 36993857: Oracle - Service Manger user interface shows service as common.pluginsrvr**

Renamed the common.pluginsrvr as Plugin Service in the Logs drop-down list of the Service Manager user interface.

**Bug 36993999: Oracle - In the Web UI, the trail files of same name but with different paths (subdirectories) are not displayed simultaneously in Trails section**

Fixed an issue of trail files with same names but stored in different sub-directories, not being displayed simultaneously in the Trails section of the Web UI.

**Bug 36997618: Oracle - In the Web UI, the result of parallel Replicat STATS command to be renamed from invalid index ops to total no unique index updates/deletes**

Renamed the result of the parallel Replicat STATS command from Invalid Index Ops to Total No Unique Index Updates/Deletes

**Bug 37031531: Oracle - The Service Manager login page takes more than two minutes to load**

Fixed the delay in loading of the Service Manager login page when the Oracle GoldenGate deployment is installed by enabling the Configuration Service.

**Bug 37031703: Oracle - In the Service Manager user interface, the Collapse/Expand operation on parent node of the tree in the left pane is not working correctly**

Fixed the expand/collapse operation of the Service Manager node in the Service Manager user interface.

**Bug 36956582: PostgreSQL - Oracle GoldenGate Replicat abends when BYTEA column is used in KEYCOLS parameter**

Added support for PostgreSQL LOB datatype column to be used with the KEYCOLS parameter.

**Bug 36959562: SQL Server - Extract abends on version check when non-Oracle created objects exist on CT tables**

Fixed an issue with Extract abending if an extra column, created as an object, is added to the CT table after running the ADD TRANDATA command.

**Bug 36708412: Sybase Adaptive Server Enterprise - Oracle GoldenGate Extract client connection to publish its local hostname to Sybase**

Fixed an issue of publishing the local hostname to the database for connections established by Oracle GoldenGate.

**Bug 36921608: Sybase Adaptive Server Enterprise - SSL attribute which is invalid for Sybase, does not throw valid error**

Added a relevant error message when unsupported additional attributes are provided with the DBLOGIN command.

**Bug 36926498: Sybase Adaptive Server Enterprise - The bi-directional Extract crashes without any error**

Fixed an issue of bi-directional replication causing the Extract to abend without any error.

**Bug 36927786: Sybase Adaptive Server Enterprise - OGGCA deployment creation does not pick up SYBASE system variable/value**

Fixed an issue with the OGGCA deployment not reading the value of the SYBASE system variable.

# Release 23.5.2.24.07- August 2024

**Bug 36228407: MySQL - Verify Oracle Golden Gate functionality with MySQL 9.0**

Added support for Oracle Golden Gate for MySQL 9.0.

**Bug 36474071: MySQL - Verify Oracle GoldenGate functionality with MySQL 8.4**

Added support for Oracle GoldenGate for MySQL 8.4.

**Bug 36478812: MySQL - Support for Vector data type**

Added support for `Vector` data type for MySQL Server 9.0 and HeatWave.

**Bug 36794959: MySQL - Extract missing out the DDLs**

Fixed an issue with single-line DDL statements that include comments, which causes these statements to be ignored and Extract to abend.

**Bug 36833980: Sybase - Heartbeat table records are not captured by Sybase Extract**

Fixed a configuration issue with the heartbeat table that was causing the Extract to not capture the heartbeat table records.

# Release 23.5.1.24.07- July 2024

**Bug 36857176: Db2 z/OS - Extract fails with error "OGG-00551 Database operation failed: Retrieving reorg timestamp using >SELECT || SQLSTATE 42803 native database error -122"**

Added the missing GROUP BY clause to the SELECT statement that was causing the Extract to fail with the error, `OGG-00551 Database operation failed: Retrieving reorg timestamp using >SELECT || SQLSTATE 42803 native database error -122`.

**Bug 36771014: Oracle - oggca.sh fails with error "INS-85037 Restarting Service Manager"**

Fixed an issue with installing Microservices architecture on a IPv4-only system.

**Bug 36830821: Oracle - Parallel integrated Replicat performance degrades after upgrade to 21.14**

Fixed an issue with the parallel integrated Replicat process after upgrading to Oracle GoldenGate 21.14 or later releases that was causing the performance to decrease.

**Bug 36383740: Generic - The expand/collapse icon for Extracts/Replicats in the Web UI in the bar on the left of the screen may not work as expected**

Fixed an issue with the expand/collapse icon for Extracts/Replicats in the left-side bar that was not displaying all the tabs, such as parameters, properties, report, or log.

**Bug 36792393: Generic - Service Manager displays an error "Connection to server failed" after upgrade**

Fixed an issue with the Service Manager that was displaying an error on upgrading from Oracle GoldenGate releases 19 and 21 to release 23.5.1.24.07.

**Bug 36850729: Generic - Error "validator.validate is not a function" is displayed on alter Replicat with position in log method**

Fixed an issue with the alter Replicat with position in log method that was generating the error, `validator.validate is not a function.`

**Bug 36850812: Generic - Notifications display "The item type request with name does not exist" when the Check status link is clicked**

Fixed an issue of timeout notification messages not being cleared, when creating Extract is the stopped status and clicking the Check Status link.

**Bug 36858659: Generic - Initial load Extract does not replicate boolean datatype correctly**

Fixed an issue with the initial load Extract process that was not replicating the `Boolean` datatype values correctly.

**Bug 36859292: Generic - Process page for Extracts/Replicats using ">" in the tree may result in a blank page**

Fixed an issue of blank page being displayed when clicking the greater than sign (>) to collapse the selected Extract or Replicat.

# Release 23.5- July 2024

**Bug 36452224: Db2 z/OS - OGGMT001 program can terminate without warning on missing or invalid parameters**

Added a message when `OGGMT001` program terminates if it is run without being started from Extract or run in any other unauthorized manner.

**Bug 36684657: Db2 z/OS - Extract abends, affecting the ATS runs**

Fixed an issue with Extract abending without generating a message in a report file.

**Bug 35996208: Exadata Cloud at Customer (Gen2) - The Replicat process crashed with segfault error 11**

Fixed an issue of parallel Replicat abending with `segfault error 11`.

**Bug 36260450: Exadata on Premise - Sequence objects are not replicated on downstream capture from ADG standby**

Fixed an issue with downstream Extract not capturing the updates to sequence objects.

**Bug 36353961: Microsoft SQL Server - Ignore In-memory tables when using ADD TRANDATA with a wildcard pattern**

Fixed an issue with using `ADD TRANDATA` and a wildcard specification that errored when encountering an in-memory table. In-memory tables are not supported for CDC capture.

**Bug 36429456: Microsoft SQL Server - Extract reprocesses prior records of the last checkpoint position after restarting**

Fixed an issue with Extract that was reprocessing records prior to the last checkpoint position, on restart.

**Bug 36713522: Microsoft SQL Server - Incorrect login information does not return proper messaging**

Fixed the incorrect error message that was displayed when using wrong credentials to login.

**Bug 36658085: MySQL - Replicat abends with duplicate primary key after certain case of GTID based positioning of the Extract**

Fixed an issue with Replicat abending on restart after encountering a duplicate primary key while running with GTID-based Extract.

**Bug 36688861: MySQL - Extract fails on restart with error "No: 1236 - Error Message: (Cannot replicate because the source purged required binary logs"**

Fixed an issue of unsupported DDLs with GTID based Extract that fails on restart with the error, "`Cannot replicate because the source purged required binary logs.`"

**Bug 36616731: Oracle - While running RegisterServiceManager.sh from root user, it fails with oggca.sh: command not found error**

Fixed an issue with the `RegisterServiceManager.sh` script that was causing the `oggca.sh: command not found` error, when run from the root user.

**Bug 36625469: Oracle - Extract abends without any error but it reports segmentation fault in /var/log/messages and GDB reported checkSizeToRollover error**

Fixed an issue with Extract abending without displaying any error when using `OUTPUTFORMAT XML` and switching to a new trail or output file.

**Bug 36630528: Oracle - Data not synchronizing when using different indexes or keycols in source and target databases**

Fixed the data synchronization issue when indexes or key columns are different for source and target databases.

**Bug 36781005: Oracle - The TRANLOGOPTIONS EXCLUDEUSER command in PDB setup excludes all users**

Fixed an issue with the `TRANLOGOPTIONS EXCLUDEUSER` or `EXCLUDEUSERID` command in PDB or CDB setup that was not capturing any operations and causing all users or user IDs to be excluded.

**Bug 36821561: Oracle - No option to specify Begin point for Extract when configuring it from the WebUI**

Added the `Begin` option in the WebUI for creating an Extract process.

**Bug 36301151: Generic - Replicat not updating the checkpoint table correctly on stopping**

Fixed an issue with Replicat not updating the checkpoint table correctly when stopped.

**Bug 36616207: Generic - MA report file incorrectly lists file names including REPREPA for REPREP**

Fixed an issue with report file listing incorrect file names.

**Bug 36625098: Generic - Replicat abends with invalid DATE/TIME in type conversion**

Fixed an issue with `DATE/TIME` type conversion that was causing the Replicat to abend.

**Bug 36655689: Generic - Replicat should be able to use long varchar2 as primary key if database allows it**

Fixed an issue with Replicat not selecting the column of `varchar2` type as a primary key.

**Bug 36731087: Generic - Snowflake Replicat deletion process not deleting the associated temporary and state files**

Fixed an issue with the `DELETE REPLICAT` command that was not deleting the temporary and state files.

**Bug 36742287: Generic - Replicat not getting restarted by AUTORESTART**

Fixed an issue with the `AUTORESTART`command, which was not restarting the Replicat process.

**Bug 36755183: Generic - Replicat abends with the "OGG-30464 The connected session is not a GG session" error**

Fixed an issue with Replicat abending with error, `OGG-30464 - The connected session is not a GG session` when connecting to a PDB with value of `container_data` variable as `CURRENT_DICTIONARY`.

# Release 23.4.1.24.05- May 2024

**Bug 36630983: Oracle - Integrated Replicat fails with error "OGG-02092 Unexpected condition in function indexOutOfRangeError"**

Fixed an issue with integrated Replicat either failing with error, `OGG-02092 Unexpected condition in function indexOutOfRangeError`, or skipping update of mapped columns present in the target database but not in the source database, leading to data divergence.

# 8

# What's New in this Release for Oracle GoldenGate for Marketplace

This chapter describes the features, enhancements, and changes made to Oracle GoldenGate for Marketplace.

## What's New in this Oracle GoldenGate on Marketplace Release

This section provides a list of new features, enhancements, and changes made to Oracle GoldenGate on Marketplace. Oracle updates the release notes periodically after the software release. This document is accurate at the time of publication.

### Release 23.9.0.25.07- July 2025

**Terraform version updated**
The terraform version in use for Oracle GoldenGate on Marketplace is 1.5.7.

### Release 23.7.1.25.02- February 2025

**Oracle GoldenGate on Marketplace Base OS changed**
Oracle GoldenGate on Marketplace uses OL8 Base OS.

**Terraform version updated**
The terraform version in use for Oracle GoldenGate on Marketplace is 1.2.9.

### Oracle GoldenGate on Marketplace New Features: September 2024

**Oracle GoldenGate on Marketplace requires Terraform v1.0.x**
Oracle GoldenGate on Marketplace version 23.5 and higher require Terraform v1.0.x. Any existing instance of Marketplace, needs to be upgraded to v1.0.x. For details on upgrade, see Upgrading an Oracle Cloud Marketplace Image in *Using Oracle GoldenGate on Oracle Cloud Marketplace* guide.