

Oracle® Fusion Middleware

Release Notes for Oracle GoldenGate



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ORACLE®

Oracle Fusion Middleware Release Notes for Oracle GoldenGate, 18c (18.1.0)

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4.1 Release 18c (18.1.0) - October 2018 Initial Release

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Preface

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

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

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>.

Accessible Access to Oracle Support

Oracle customers who have purchased support have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Related Information

The Oracle GoldenGate Product Documentation Libraries are found at

<https://docs.oracle.com/en/middleware/goldengate/index.html>

Additional Oracle GoldenGate information, including best practices, articles, and solutions, is found at:

[Oracle GoldenGate A-Team Chronicles](#)

1

Introduction

This chapter introduces the Release Notes for Oracle GoldenGate 18c (18.1.0).

- [Latest Release Information](#)
- [Purpose of this Document](#)
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1.1 Latest Release Information

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

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

1.2 Purpose of this Document

This document contains the release information for Oracle Fusion Middleware Release for Oracle GoldenGate.

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

1.3 System Requirements and Specifications

The following specifications describe what's supported and what's not supported with this release of Oracle GoldenGate:

- Before installing Oracle GoldenGate on a Windows system, install the Microsoft Visual C++ 2010 SP1 Redistributable Package and the Microsoft Visual C++ 2013 Redistributable Package (vcredist_x64.exe). These packages install runtime components of Visual C++ Libraries that are required for Oracle GoldenGate processes.

To download the Visual C++ 2010 SP1 package, go to:

<https://www.microsoft.com/en-us/download/details.aspx?id=13523>

To download the Visual C++ 2013 package, go to:

<https://www.microsoft.com/en-us/download/details.aspx?id=40784>

 **Note:**

Oracle GoldenGate 18c (18.1.0) is not released for SQL Server and DB2 for i. However, the documentation may include information associated with these databases.

1.4 Certification Information

To see versions of platforms and related software for which Oracle GoldenGate is certified and supported, go to <http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html>

1.5 Product Documentation

For complete documentation on Oracle GoldenGate, go to <https://docs.oracle.com/en/middleware/goldengate/core/18.1/index.html>.

1.6 Oracle Support

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

1.7 Licensing Information

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

[Licensing Information](#)

1.8 Downloading and Applying Required Patches

Downloading and Installing Patches

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

<https://support.oracle.com>

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

To download and install the latest software patch see Installing Patches in *Upgrading Oracle GoldenGate*.

2

What's New in this Release

This chapter describes the features, enhancements, and changes made to Oracle GoldenGate. Oracle updates the release notes periodically after the software release. This document is accurate at the time of publication.

- [New Features](#)
- [Default Behavior Changes](#)
- [Deprecated Features](#)

2.1 New Features

This section describes the features and enhancements made to Oracle GoldenGate.

- [Release 18c \(18.1.0\) - January 2019](#)
- [Release 18c \(18.1.0\) - October 2018 Initial Release](#)

2.1.1 Release 18c (18.1.0) - January 2019

Teradata

Replicat is supported against Teradata 16.20.

MySQL

Remote MySQL capture allows for Oracle GoldenGate to be installed on a certified Linux x64 hub server and remotely capture from MySQL 5.6+ running on Linux or Windows.

2.1.2 Release 18c (18.1.0) - October 2018 Initial Release

Oracle Database

Capture (Extract) and Apply (Replicat) is supported against Oracle Database 18c.

Identity Columns are Supported

Oracle Database 18c and later support replication of identity columns. It requires usage of the Integrated Extract and Integrated Replicat or Integrated Parallel Replicat.

Replication of In-Database Archival

Replication for tables with row archival enabled is supported for Oracle Database 18c onward. The trail format must be 12.3 or higher.

Automatic CDR on tables with Unique Keys (UK)

Oracle Database 18c and later supports Automatic Conflict Detection and Resolution (CDR) on tables with Unique Keys with at least 1 non-null column.

Composite Sharding

Oracle Database 18c and later support composite sharding.

DB2 for z/OS

Extract throughput has been enhanced by taking better advantage of available communication bandwidth.

Database Supported

DB2 for z/OS version 12.1 is now supported.

Reduced DB2 for z/OS ECSA Requirements

ECSA requirements have been reduced to a fixed value of 68KB per running Extract. In prior Oracle GoldenGate releases, ECSA varied depending on the setting of the `TRANLOGOPTIONS` `BUFSIZE` parameter.

TIMESTAMP Data Type Enhancements

`TIMESTAMP` with `TIMEZONE` is now supported and the `TIMESTAMP` precision has been increased to a maximum of 9.

Extract Flexibility

Configurable schema for the Extract stored procedure or user-defined table function used by the Oracle GoldenGate Extract.

DB2 LUW

TRANLOGOPTIONS MIXEDENDIAN[ON|OFF]

Oracle GoldenGate Extract for DB2 LUW now supports cross-endian capture where the database and Oracle GoldenGate are running on different byte order servers.

TRANLOGOPTIONS DB2APIRETRY *retry_count*

This is a new option that allows you to change number of times the DB2 log reading API `db2ReadLog()` is retried when it returns certain errors.

Support for PureScale

Oracle GoldenGate can capture from DB2 LUW PureScale.

TIMESTAMP datatype Enhancement

`TIMESTAMP` precision increased to a maximum of 9.

MySQL

Remote Capture Support

Oracle GoldenGate supports remote capture for Linux x64-bit, however, it's not available on Windows. Remote capture and delivery is also supported for Amazon Aurora MySQL 5.7+ and Amazon RDS for MySQL.

MariaDB Capture and Delivery Support

Capture and Delivery is supported for MariaDB 10.2+.

2.2 Default Behavior Changes

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

- [Release 18c \(18.1.0\) - October 2018 Initial Release](#)

2.2.1 Release 18c (18.1.0) - October 2018 Initial Release

FORMAT RELEASE is Supported for Oracle GoldenGate 18c

You can use the value `18.1` with `FORMAT RELEASE` for `EXTTRAIL` and `RMTTRAIL` commands.

Performance Monitoring can be Designated as a Critical Service

Users can now designate Performance Monitor as a `Critical Service` and specify the location for the associated BDB/LMDB database.

2.3 Deprecated Features

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

- [Release 18c \(18.1.0\) - February 2019](#)
- [Release 18c \(18.1.0\) - October 2018 Initial Release](#)

2.3.1 Release 18c (18.1.0) - February 2019

GENLOADFILES support in Oracle GoldenGate

The `GENLOADFILES` parameter is deprecated from Oracle GoldenGate 12.1 and higher.

2.3.2 Release 18c (18.1.0) - October 2018 Initial Release

Oracle Database

The Classic Extract (capture) is deprecated as of Oracle GoldenGate 18c (18.1.0). This means that there will be no further enhancements to the Classic Capture (Extract) process.

3

Known Issues and Workarounds

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

- [Release 18c \(18.1.0\) - January 2019](#)
- [Release 18c \(18.1.0\) - October 2018 Initial Release](#)

3.1 Release 18c (18.1.0) - January 2019

Bug 28894665: REGISTER EXTRACT with LOGRETENTION is Not Supported in Oracle Standard Edition (SE)

LOGRETENTION is not supported with any release of Oracle Standard Edition, including SE1 and SE2. The underlying streams code is not available in those databases and returns the following error if you attempt to do it:

```
OCI Error ORA status = 439-ORA-00439: feature not enabled: Streams Capture
```

Workaround

None

3.2 Release 18c (18.1.0) - October 2018 Initial Release

BUG 28045394: Oracle – Integrated Extract and Coordinated Extract Abend With the Error OGG-02297 on Executing ALTER TABLE to Add Identity Column

Identity columns are supported only if they are specified as part of the CREATE TABLE DDL but not with ALTER TABLE DDL.

Workaround

None

Bug 27028084: MySQL – Binary Log File Size in Remote Capture

For remote capture in Oracle GoldenGate MySQL, the binary log file size greater than 4 GB is not supported. Consequently, while positioning an offset, an offset greater than 4294967295 is also not supported.

Workaround

None

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Bugs Fixed and Enhancements

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

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

- [Release 18c \(18.1.0\) - October 2018 Initial Release](#)

4.1 Release 18c (18.1.0) - October 2018 Initial Release

Bug 27507726: The Default Value for Redo_Transport_Lag_Threshold Increased to Avoid Spurious Warnings

The default value of the `redo_transport_lag_threshold` option used with `TRANLOGOPTIONS` has been increased to avoid any false warnings. The value has been increased from a default of 10 seconds to 30 seconds and the minimum allowed is now 15 seconds.

Bug 27426540: Oracle GoldenGate AdminClient Enhanced to Allow Starting and Deleting all DISTPATHS With One Command

The AdminClient available with Oracle GoldenGate 18c has been enhanced with the `START DISTPATH ALL` command that allows you to start all distribution paths and the `DELETE DISTPATH ALL` command that allows you to delete all distribution paths.