

Oracle® GoldenGate Veridata

Release Notes

12c (12.2.1)

E60965-01

October 2015

This document describes the new features, major changes, and the known issues in Oracle GoldenGate Veridata Release 12c (12.2.1).

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1 New Features and Changes in Oracle GoldenGate Veridata 12c (12.2.1)

This section summarizes the new features and significant product changes for Oracle GoldenGate Veridata in 12c (12.2.1) release.

Oracle GoldenGate Veridata Release 12c (12.2.1) includes the following new and changed features.

1.1 Mixed Veridata Server 12c (12.2.1) and Veridata Agent Versions

You can configure your Veridata Server 12c (12.2.1) and Veridata Agent with different versions because you can perform database migrations from older versions to a newer one.

1.2 Automatic Repair After Compare

You can use the Repair option to automatically kick off a Repair after a comparison completes and has confirmed out of sync data exists.

1.3 Automatically Manage Memory

Memory use is now dynamically allocated as needed so you only need to set the maximum memory to use, and then optionally you can specify which disk area to use as virtual memory.

1.4 Compare Configurations

Oracle GoldenGate instances for tables in replication are queried and a comparison job is automatically created with the option to run it. This is available in the UI and in Vericom so that you can invoke this from remote locations like Oracle GoldenGate Monitor.

1.5 Export Utility

You can selectively export your database comparison configuration to an XML file that can then be imported into the same or another repository. You can select all comparisons or a subset for export. This is supported in Oracle GoldenGate Veridata releases 11.2, 12.1.3, and 12.2.1 for all databases supported in those releases. This new export utility, along with the import utility introduced in 12.1.3, replace the previous `veridata_scripting` scripts.

1.6 Delta Processing

Delta processing that allows you to process large table compares in an acceptable time frame has been enhanced to include all supported databases is no longer limited to Oracle GoldenGate NonStop.

1.7 Database Support Changes

- Oracle GoldenGate Veridata now fully supports the use of the IBM DB2 for i (IAS400/iserics) database.
- Oracle GoldenGate Veridata now fully supports the use of the IBM Informix database.
- The free Oracle Express Edition (XE) database is now supported.
- MySQL database is not supported, since Oracle WebLogic Server does not natively support this database.
- The repository export utility works with all Veridata repositories from release 11g (11.2) and 12c (12.1.3) including releases that support My SQL.
- Compact domain support was removed because it does not use an OPSS schema.

2 Deprecated Parameters and Settings

This section lists the parameters and settings that are no longer used in this new release. These parameters are deprecated in the `veridata.cfg` file.

3 Corrected Problems

This section contains information about bugs that have been corrected. For questions on specific bugs or ticket numbers, consult Oracle Customer Support. SR is the Oracle Support SR number, and BugDB is the bug identification number. The information in this section is divided into the following releases:

3.1 Release 12.2.1.0.0 — October 2015

Initial Release.

4 Known Issues and Workarounds

This section details the known issues and any workarounds for the Oracle GoldenGate Veridata Release 12c (12.2.1) release.

4.1 Database Related Issues

DB2 for i: DataDirect Driver with VARCHAR Key Columns

When using the DataDirect driver, `VARCHAR` key columns are returned with trailing blanks truncated during the COOS step. This is only occurring during the COOS step when a predicated `SELECT` is processed. You can workaround this issue by generating SQL statements to concatenate an empty string to the end of `VARCHAR` key columns to preserve the trailing spaces.

DB2 for i: DataDirect Driver with CLOBs and CCSID 1208

When using the DataDirect driver, CLOBs declared with CCSID 1208 (UTF-8) are returned incorrectly. The correct data is inserted correctly and verified by casting the value to a BLOB then inspecting that the raw bytes were the correct UTF-8 values. There is currently no workaround for this issue because the JTOpen driver does not select these values correctly.

DB2 for i: DataDirect Driver with the DB2 Native Driver

When using the DataDirect driver and DB2 Native driver, `IDENTITY` columns cannot be detected from the JDBC metadata. You can workaround this issue by querying the DB2 iSeries `SYS_COLUMNS` directly to supplement the JDBC metadata.

DB2 for i: DataDirect Driver with NULLID Library

The DataDirect driver requires a DB2 package to store query execution plans. By default the NULLID library is used; if it does not exist, it is created the first time a connection is made. If the package already exists in the NULLID library and the current user does not have permission to access the package a failure occurs. The DataDirect driver has workarounds to manually create the package and to use an alternative library to store the packages, see the driver documentation for specifics.

DB2 for i: Native Driver with UTF-8

During a repair, the native driver fails when the LOB column is UTF-8 and the inserted data is multibyte. The driver does not recognize that UTF-8 expansion may require a larger buffer.

Informix: Unsupported Data Types with DataDirect JDBC Drivers

The `INTERVAL`, `BIGINT`, and `BIGSERIAL` data types are not supported when using the DataDirect JDBC drivers.

Informix: Integer Minimum Value Limitation

The limitation for the minimum value of the `SMALLINT`, `INTEGER`, and `BIGINT` data types is $-(2x-1)$ (x is 31, 15, 63 sequentially). On a repair attempt (insert/update) of $(-2x)$ from a non-Informix data base to an Informix data fails as repair Warning.

4.2 Upgrade Issues

For the following release upgrade paths the reports and job run details are not available:

- Veridata 11g MySQL to Veridata 12c (12.1.3) Oracle and SQL Server
- Veridata 11g MySQL to Veridata 12c (12.2.1) Oracle and SQL Server
- Veridata 12c (12.1.3) MySQL to Veridata 12c (12.2.1) Oracle and SQL Server

5 Getting Help with My Oracle Support

Use My Oracle Support to find knowledge solutions, workaround, and other information that is reported by customers, partners, and Oracle employees. My Oracle Support also enables you to open a Service Request. If a patch is required to resolve a service request, you will receive instructions on how to download it from My Oracle Support.

Note: If you purchased Oracle GoldenGate Veridata and support through a distributor, contact your distributor instead of attempting to create a service request through My Oracle Support.

5.1 Using the Oracle GoldenGate Knowledge Base

To view the Oracle GoldenGate Knowledge Base, follow these steps:

1. Go to <http://support.oracle.com>.
2. Select your language and then log in with your email and Oracle password.
3. Click the **Knowledge** tab.
4. Under **Select a Product Line**, type the name "GoldenGate" and then select an Oracle GoldenGate product from the context menu. (You may have to wait a few seconds for this list to appear). As an alternative, you can select from the drop-down list or use the **Browse** link to select **Middleware**, then **Data Integration**, then **GoldenGate**.
5. Under **Task**, select the type of query you want to make, such as **Troubleshoot**.
6. Under **Version**, select the version of Oracle GoldenGate that you are using.
7. Under **Enter Search Terms**, type a search keyword or multiple keywords to focus the query.

If you need help with My Oracle Support, click **Help** at the top of the application window.

5.2 Creating an Oracle GoldenGate Support Case

If you cannot find an answer to your question or problem in the Knowledge Base, you can open a support case with Oracle Support by following these steps:

1. Go to <http://support.oracle.com>.
2. Select your language and then log in with your email and Oracle password.
3. Click the **Service Requests** tab.
4. Click **Create SR**.

5. Complete the form, referring to the **Help** at the top of the application window if necessary.

6 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 customers that 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.

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