

Oracle® GoldenGate Veridata

Release Notes

11g Release 2 (11.2.1.0.0)

E25217-01

December 2012

ORACLE®

Oracle GoldenGate Veridata Release Notes for 11g Release 2 (11.2.1.0.0)

E25217-01

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Oracle GoldenGate Veridata

Release Notes – 11g Release 2 (11.2.1.0.0)

New Features

The following enhancements are included in Oracle GoldenGate Veridata 11gRelease2.

Support for Sybase and New DB2 Versions

The following databases are now supported for comparisons:

- **Sybase 15.x** which introduces support for `string_NFC` and `SYBTIME`.
- **DB2 LUW 9.7** which introduces a timestamp with the potential for picosecond precision if supported by the database.
- **DB2 z/OS 10**

Oracle Query Hint

The user can define a hint that will be passed to the Oracle query processor to help optimize a query. This can be defined for the **Intial Compare** and **Confirm Out-Of-Sync** categories in the **Profile Settings** of the **Profile Configuration, Edit Profile** screen.

Security Support for the Oracle Wallet

To standardize and improve the security of Oracle GoldenGate Veridata, the Oracle Wallet has been implemented for the storage of passwords. The implementation is done automatically by the install program.

The changes include:

- A new `vericom` command that allows the repository password to be changed.

On Windows:

```
Shell> vericom.bat -reset_password [password]
```

On UNIX or Linux;

```
Shell> vericom.sh -reset_password [password]
```

If you do not enter a password on the command line, you will be prompted for one. After you enter a password, `vericom` connects to the database to verify that it is valid.

To activate the change, bring down the Oracle GoldenGate Web User Interface and restart.

- A requirement that the user backup the *veridata_home/web/conf* directory prior to changing the server configuration or Tomcat users.

Simplified Access to Report Errors

When the user hovers over a compare pair status icon, information is displayed similarly to a tooltip. If there is an error, the error message is displayed; eliminating the need for the user to go to the report page for the comparison to see the error message. This is implemented only for completed comparisons. If there is no error, the status is displayed.

Server Consolidation

Changes were made to the Oracle GoldenGate Veridata services that include:

- Replacement of the separate Oracle GoldenGate Veridata Server with Java based services managed by Tomcat.
- Replacement of the licensed Nsort product with internal sorting routines.

Installer Enhancements

The following new features and screens are now included in the installer program.

Assign User for Windows Service

If you are installing Oracle GoldenGate Veridata as a Windows service, you now identify the user that will start the service. A new installer screen allows you to select either:

- **Logon as a Local System:** Check this option to log on as `LocalSystem` when the service is started.
- **Logon as a Specific User:** Enter the user name and password to use to start the service. If you specify a user, that user must be granted `LogonAsService` privilege or the service will not start.

When you upgrade a system that is installed as a Windows service and started by `LocalSystem`, a new screen is enabled. It gives you the option to identify a new login to start the service or continue as `LocalSystem`. If you specify a new login, that user must be granted `LogonAsService` privilege or the service will not start.

Import Users during Installation

When running the installer to create a new 11.2.1.0 Oracle GoldenGate Veridata installation, a new screen allows you to specify how the Tomcat Oracle GoldenGate Veridata users will be created. You can choose to either:

- Use the Tomcat Web Service administrative tool to manually create users after the installation.
- Have the installation program import users from an existing Oracle GoldenGate Veridata installation.

If you elect to import the users, the next screen will ask you to enter the existing installation directory and the administrator's user name and password.

Support for Multibyte Object Names

In addition to supporting multibyte data, Oracle GoldenGate Veridata now supports multibyte object names, such as table, column, and compare pair names.

Note: If you use an Oracle or MySQL database as your repository, it must support storing these multibyte names.

Documentation Enhancements and Corrections

As of 11gR2, the *Oracle GoldenGate Veridata Administrator's Guide* is output as HTML as well as PDF. The formatting now conforms more closely to the Oracle standard.

Deprecated Parameters and Commands

`server.nsort_compare_function_pool_size`

This parameter, which set the size of the Nsort compare function pool, has been deprecated as of release 11.2.1.0.0.

Sorting Retry Limit

This parameter, which controlled the number of times that a comparison was retried if the program could not reserve the amount of virtual memory that it needed, is deprecated as of release 11.2.1.0.0. This was set in the Oracle GoldenGate Web User Interface.

Sorting Retry Interval

This parameter, which controlled the amount of time that a comparison waited between attempts to reserve virtual memory if the initial attempt fails, is deprecated as of release 11.2.1.0.0.

Documentation Addendum

This section serves as an addendum to the *Oracle GoldenGate Veridata Administrator's Guide*. It includes items that have not been covered in the guides due to changes made to the product or documentation after document publication.

There are no items that have been identified at this time as not covered in the online Help or the *Oracle GoldenGate Veridata Administrator's Guide*.

Installation and Upgrades

The installation file downloaded from Oracle is not compressed using gzip; instead it is a standard .zip file. To uncompress the download, please use the zlib ZIP utilities.

You can download the utility here: <http://ftp.bsi2.com/pub/oss/ZIP.tar.Z>

Additional information on this utility can be found here:
<http://ftp.bsi2.com/pub/oss/ZIP.README>

Oracle GoldenGate Veridata can be installed using a graphical installer or a command line installer. For detailed instructions on how to run these installers see the *Oracle GoldenGate Veridata Administrator's Guide*.

Installer 11.2.1 Enhancements

Capability for 1) setting the user that will start Oracle GoldenGate Veridata as a Windows service and 2) importing users from an existing Oracle GoldenGate Veridata installation is included for the 11.2.1 release. Refer to the [Installer Enhancements](#) section for details on these new capabilities.

Update Notes

The following points highlight some of the considerations for updating your Oracle GoldenGate Veridata to the new 11.2.1 release. You should refer to the update procedures in release 11.2.1 of the *Oracle GoldenGate Veridata Administrator's Guide* for details.

- Java Requirements
Java 1.6.0 or later is required for release 11.2.1 Oracle GoldenGate Veridata agents.
- New Properties
Several new properties are included in release 11.2.1. The new Oracle GoldenGate Veridata properties are handled by the upgrade. You will need to set the new JDBC driver property as explained in upgrade instructions in the *Oracle GoldenGate Veridata Administrator's Guide*.
- JDBC Drivers
Check the JDBC driver jars that are included with the Oracle GoldenGate Veridata Agent installation. These jar files have changed for some databases.

For example, connections to Oracle databases now require `ojdbc6.jar` instead of `ojdbc5.jar`, so the property in the `agent.properties` file should be `server.jdbcDriver=ojdbc6.jar`.

- Teradata

The Teradata driver is not included with the Oracle GoldenGate Veridata installation files, leaving it to the user to secure an appropriate driver. Since 11.2.1 testing for Teradata used the 14.00.00.14 Teradata JDBC driver, it is recommended that you use this or a later version of the Teradata 14.00.xx.xx JDBC driver.

- Upgrades from 3.0

An in-place upgrade to 11.2.1.0.0 from Oracle GoldenGate Veridata version 3 is allowed only if that version 3 has been upgraded to release 3.0, patch 3.0.0.11 and your Tomcat version is at least 5.5.35.

To check your Tomcat version on UNIX/Linux:

```
cd install_directory/web/bin
```

Then enter one of the following two commands, depending on the shell:

```
Setenv JRE_HOME ../../jre
Export JRE_HOME=../../jre
./version.sh
```

To check on Windows:

```
cd install_directory/web/bin
set JRE_HOME=../../jre
version.bat
```

Known Issues

Release 11gR1 (11.2.1.0.0) of Oracle GoldenGate Veridata:

- Does not automatically upgrade the Tomcat web server if upgrading from a version of Veridata prior to 3.0.11.2. To upgrade to the Tomcat server found in Veridata 11.2.1.0.0: stop Veridata, rename the Veridata root directory, install the Veridata 11.2.1.0.0 to the original directory name, and copy specific files and directories from the old to the new installation. For details on this, see My Oracle Support document 1506992.1.
- Is not supported for Solaris 5.10 (32 bit) on i386.
- Has the following issues:
 - #13947797: On Linux 64 bit systems, there is a java issue that interferes with the entry of passwords when running the installer. The

work-around is to click the **Next** or **Back** button and then return to the entry window and enter the password. The identifier of the java issue is SCIM-BUGS-2569128.

- #13948608: When upgrading Oracle GoldenGate Veridata, old files that contain passwords are not deleted. The names of these files fall into the range VERIDATA.001 to VERIDATA.999. The user should delete these files after testing has shown that the update was successful and the system is operating successfully.
- #14804397: The following fields that indicate the state of delta processing are not being written to the *Initial Compare* section of the comparison report:
 - Delta Processing enabled
 - Delta Processing base time
- #14809443: Oracle GoldenGate Veridata does not allow an Enscribe job to both 1) specify partitions and 2) use server sorting. However, Veridata does not generate an error when this is done. The agent ignores the partition, potentially transferring extra rows and causing Veridata to compare and report out-of-sync outside of the appropriate range.
- #15875098: When `vericom` runs a comparison for a compare-pair that has default partitions defined, and one of `-pS`, `-pSq`, `-pSA1`, `-pSA2`, `-pSH1`, `-pSH2`, `-pT`, `-pTq`, `-pTA1`, `-pTA2`, `-pTH1`, or `-pTH2` is specified, the default partition defined on the opposite side is ignored.

For example, a compare-pair has a source default partition named `defPartition` and a SQL WHERE clause `'COL1 < 100'`. If `vericom` is used to run this compare-pair with `'-pTq COL1 < 200'`, `defPartition` is not applied to the source side, but `'COL1 < 200'` is applied to the target side.

To work around this, force `vericom` to apply the default partition by specifying it explicitly. For the example above, specify `vericom -pTq 'COL1 < 200' -pS defPart`.