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Release Notes for Veridata v3.0

Customer Support

GoldenGate is fully committed to providing timely, high-quality service to all of our customers. Our support analysts can be contacted via email, and live assistance is available over the phone or through interactive WebEx sessions. For support contact information, please go to http://support.goldengate.com/. This website also contains the latest GoldenGate Software documentation and product notices.

Availability

Veridata Server and the Veridata Agent for Oracle can be built for Windows, Solaris, RedHat Linux, HP-UX, and AIX platforms. The NonStop Veridata Agent for G06 and H06 operating systems is also available. These builds can be obtained from the download section of http://www.goldengate.com/downloads/software/download_veridata.html. If you do not see a build for the operating system or database that is in use at your location, send an email to support@goldengate.com.

License Keys

The 'pw' file is no longer needed to use GoldenGate Veridata. Once you have upgraded, you can safely remove this file from the installation directory.

New Features in 3.0.0.0

The following new features and functionality have been added to GoldenGateVeridata Version 3.0.

New Database Support

Version 2.x supported HP Enscribe, HP SQL/MP and Oracle. We added the following database support to Version 3.0:

- ✓ SQL Server 2000, 2005 and 2008
- ✓ Teradata v2r6 and v12.x

Heterogeneous Compares

In prior versions, you could only compare like to like databases. In Version 3.0, you can compare across any of the supported databases.

New Repository Support

SQL Server 2000 and 2005 can now be used as the Veridata repository.

Two Kinds of Agents

- ✓ C agent supports NonStop SQL/MP, Enscribe and Oracle

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- Written in C
- Used in previous versions of Veridata
- Uses the GoldenGate Manager process
- Must be used for NonStop SQL/MP and Enscribe
- Can be used for homogeneous compares for Oracle

✓ Java agent supports Oracle, SQL Server and Teradata

- Written in Java
- New in GoldenGate Veridata Version 3
- Single download for all supported databases
- Does not use the GoldenGate Manager process
- Must be used for heterogeneous comparisons (except for Enscribe and SQL/MP)

Supported Database and Platforms

Component	Database	O/S and Platforms
GoldenGate Veridata Java Agent	Oracle 9i, 10g, 11g SQL Server 2000, 2005, 2008 Teradata 2vR6, 12, 13	Windows 2000/XP Red Hat Sun Solaris SUSE HP-UX HP Tru64 IBM AIX
GoldenGate Veridata C Agent	Oracle 9i, 10g, 11g	
	Enscribe NonStop SQL/MP	HP NonStop Server (Guardian environment)
GoldenGate Veridata Server	**Repository:** Oracle 9i, 10g, 11g MySQL 5 SQL Server 2000, 2005	Windows 2000/XP/2003 Red Hat Sun Solaris HP-UX IBM AIX

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Veridata Web Has New a Look and Feel

Improved status icons and navigation bar that do not require the node expansion like it did in previous versions.

Firefox Support

Firefox 3.0 is now supported by the Veridata Web.

Improved Connection Configuration

The Connection Configuration screen now has a tab for Connection Properties that allows the user to customize the comparison formats for this connection.

Enhanced Column Mapping

Veridata 3 was changed to support case-sensitive column name mapping.

More Efficient Column Pair Configuration

On the Compare Pair Configuration > Column Mapping screen and tab - when the Key and/or Comparison Mapping Method is user defined, the Column Name now links to a Column Pair Configuration popup screen. This allows the user the ability to override the connection-level comparison format for this column pair

Out of Sync Columns are Highlighted

With Veridata Version 3, out-of-sync columns are now displayed and highlighted on the Out-Of- Sync Operations Detail view.

Installer Enhancements

The following changes have been made to simplify the The Connection Configuration screen now has a tab for Connection Properties that allows the user to customize the comparison formats for this connection

- ✓ Server Installer
  - Installs the Java Runtime Environment (JRE) 1.5.x
  - Allows SQL Server repository
  - Oracle repository
    - Installation includes client software for the repository
    - EZCONNECT can be used for repository connections
- ✓ New Java Agent Installer
  - Does not require GoldenGate Manager
  - The port entered is for the Java agent to listen for communication requests from GoldenGate Veridata Server

Improved Delta Processing Enablement

On the Veridata Compare Pair Configuration screen, Existing Compare Pair tab, a button was added to enable “Delta Processing" for NSK compares. This allows users to enable Delta Processing for existing compare pairs.

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Documentation Notes and Addendum

The GoldenGate Veridata Installation Guide contains only the following topics:

- Overview of GoldenGate Veridata
- System requirements
- Installation instructions for all components
- Instructions for running the programs

All other information about the configuration, operation, and management of GoldenGate Veridata is now contained in the online help.

Addendum

This section serves as an addendum to the GoldenGate Veridata documentation. It includes items that are not covered in generally available documentation due to changes made to the product or to the documentation after the documentation was published.

(This section intentionally left blank – the documentation is up to date.)

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Installation and Upgrade Procedure

Veridata GA Installation Instructions

The installation procedures are documented in the installation guide at http://www.goldengate.com/downloads/Documentation/index.html. Please follow these procedures to ensure correct installation.

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Open Issues and Resolutions

Oracle Null Character Issue

If your Oracle varchar columns contain non-native characters, the NLS_LANG environment variable needs to be set in the environment where you start the Manager for the GoldenGate Veridata Agent. Set NLS_LANG to the same language, territory, and character set that is used for the Oracle database. To obtain the current Oracle NLS_ parameters, execute the following query:

```
SQL> select * from nls_database_parameters where parameter in
('NLS_CHARACTERSET', 'NLS_LANGUAGE', 'NLS_TERRITORY');

PARAMETER VALUE
------------------------------ ----------------------------
NLS_LANGUAGE AMERICAN
NLS_TERRITORY AMERICA
NLS_CHARACTERSET WE8ISO8859P1
```

The Oracle NLS_LANG environment variable has the following format:

```
<NLS_LANGUAGE>_<NLS_TERRITORY>.<NLS_CHARACTERSET>
```

In the above example, you would set your NLS_LANG environment variable to:

```
NLS_LANG = AMERICAN_AMERICA.WE8ISO8859P1
```

The mechanism for setting the environment variable depends on your operating system and your command shell. For example, using KSH, it would be:

```
NLS_LANG=AMERICAN_AMERICA.WE8ISO8859P1 ggsci
```

MySQL Permissions

When using MySQL as the repository, it is necessary to create a user that can access the MySQL database through TCP/IP, before you install Veridata. Typically, this can be done on the MySQL console by running this command:

```
grant * on mysql.* to USER identified by 'PASSWORD'.
```

Group Configuration Compare Pattern Tips

This is how the compare pair naming format on the Pattern Mapping tab of the Compare Pair Configuration page works:

- ✓ If an equal sign (=) does not exist on the provided naming format, every * will be replaced by the generated compare pair source table name.

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- ✓ If there is an = sign, every * on the left side of the = sign will be replaced by the source table name of the generated compare pair, and every * on the right side will be replaced with the target table name.

Example:

If your mapped tables are T1 on the source and T10 on the target, here is how the compare pair names will be generated for each naming format:

Name format	Compare pair name
=	T1=T10
*	T1
**	T1T1
*=	T1=
=*	=T10
=	T1T1=T10T10
A*=B*	AT1 = BT10
=A	T1=AT10

Database Connection

Veridata Server does not always reconnect to the database after the database server has been stopped and restarted. When this happens, restart Veridata Server.

Connection Failures

Veridata Server sometimes fails to close connections to Veridata Agent. In certain situations, this causes Veridata Server to interpret erroneously that it has too many files open. When this occurs, restart Veridata Server.

Unsupported Profiles

The following profile options are not supported at this time. Using them may result in unpredictable behavior. Please retain their default values.

General Profile Settings:
Output in-sync rows to OOS file
Output in-sync after in-flight rows to OOS file

Running Jobs Issue

When monitoring jobs, groups or compare pairs (Running Jobs > View By Job, Group or Compare Pair), links to drill down to the detail page may be missing after the comparison finishes. In this case, the workaround is to open the Finished Jobs page to view the desired information.

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Mozilla Firefox Issue

An issue exists when using Mozilla Firefox when the same user connects to two different Veridata2 Web instances on the same domain. This can cause unpredictable results when the different sessions interfere with each other.

For instance:

Session 1 connects to URL "http://localhost:8830/veridata
Session 2 connects to URL "http://localhost:8840/veridata

This problem is caused because "Firefox" associates the cookies only by domain, independently of the port.

The workaround is to run each Firefox instance separately using a different Firefox profile, for example:

Create profiles Profile8830, which is used to connect to"http://localhost:8830/veridata"

Create profiles Profile8840, which is used to connect to "http://localhost:8840/veridata"

See the "http://www.mozilla.org/support/firefox/profile" on how to create Firefox profiles.

(Windows)

"C:\Program Files\Mozilla Firefox\firefox.exe" -P "Profile8830" -NO-REMOTE
"C:\Program Files\Mozilla Firefox\firefox.exe" -P "Profile8840" -NO-REMOTE

(UNIX)

/usr/local/bin/firefox -P "Profile8830" -NO-REMOTE
/usr/local/bin/firefox -P "Profile8840" -NO-REMOTE

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Corrected Problems

For questions on specific bugs or ticket numbers, please contact GoldenGate Customer Support. DT# is the Development Ticket number, TS# is the Technical Services Ticket number, VD# and TSI# are Jira Ticket numbers and SF# is the SalesForce.com number.

Version 3.0.0.2 – 23 September 2009

REM-146, REM-176, REM-149, REM-151, REM-150
Updated copyright images and notices, and product name with the new Oracle GoldenGate branding.

Version 3.0.0.1 – 23 September 2009

REM-75
Updated copyright images and notices, and product name with the new Oracle GoldenGate branding.

VD-3410, REM-1
Removed password check from the Veridata agent.

Version 3.0.0.0 – 3 September 2009

VD-2300
When MySQL is configured to use UTF-8 as its character set, the installer was calculating key length values that exceeded the maximum for keys when using MySQL InnoDB tables and caused installation errors.

VD-3053
Bundled the Oracle 10.2 Instant client libraries with the Veridata server, because they are required when Oracle 9 or Oracle 11 are used as the persistent store.

SF# 10973; TSI-896, VD-3091
If the user supplied DDL doesn't match the file, the VERIAGT will either pad out or truncate the key if it does not match the actual key.

VD-3189
The Time Range on the View by job link under finished job menu was not filtering correctly.

VD-3373
Removed the prior Nsort license checking and added the static license so that Veridata no longer reads the nsort.init file.

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