Oracle® GoldenGate for Java

Release Notes

11*g* Release 1 (11.1.1)

E18170-01

August 2010

ORACLE®

Oracle GoldenGate for Java Release Notes current to 11*g* Release 1 (11.1.1)

Table of Contents

Release Notes – 11*g* Release 1

This document contains important release information about Oracle GoldenGate for Java Release Version 11.1.1.

If you have downloaded an Oracle GoldenGate product with a release number higher than 11.1.1.0.7, check the Release Notes that accompanied the software on the Software Download or E-Delivery site for additional information pertaining to that specific product release.

New Features in 11.1.1

Oracle GoldenGate Application Adapter for Java

Oracle GoldenGate for Java now supports capturing published messages from an enterprise message system. The Oracle GoldenGate messaging adapter connects to JMS messaging to parse messages and write the data to a standard GoldenGate trail. The GoldenGate trail can then be delivered to any of the databases supported by Oracle GoldenGate. This allows JMS messages to be delivered to an Oracle GoldenGate system and the data applied to a target relational database.

- The JMS Capture is composed of three parts which include:
    - **Message connectivity:** Values in the property file set connection properties such as the Java classpath for the JMS client, the JMS source destination name, JNDI connection properties, and security information.
    - **Parsing:** Values in the property file set parsing rules for fixed width, comma delimited, or XML messages. This includes settings such as the delimiter to be used, values for the beginning and end of transactions and the date format.
    - **VAM interface:** Parameters that identify the VAM library and a property file are set for the Oracle GoldenGate core Extract process.

- The Oracle GoldenGate message capture adapter supports three types of parsers:
    - **Fixed:** Messages contain data presented as fixed width fields in contiguous text.
    - **Delimited:** Messages contain data delimited by field and end of record characters.
    - **XML:** Messages contain XML data accessed through XPath expressions.

- Source and target data definitions can be specified several ways. Source definitions can be defined using a combination of properties and external files. The Oracle GoldenGate Gendef utility generates a standard source definitions file based on these data definitions and parser properties. The options include:
    - **Fixed:** COBOL copybook, source definitions or user defined
    - **Delimited:** source definitions or user defined
    - **XML:** source definitions or user defined

Information about usage, installation, and configuration, can be found in the *Oracle GoldenGate for Java Administrator's Guide*.

New Parameters

All new parameters in the 11.1.1 release are included in the Oracle GoldenGate Reference Guide 11gR1. There are no new parameters specific for the Oracle GoldenGate for Java Adapter.

New Property File values

There are new properties specific for the Oracle GoldenGate for Java adapter.

VAM Message Capture Properties

New properties have been introduced for the new Message Capture process. Properties can be set for:

- Logging properties
- JMS connection properties
- Parser properties
  - Parser type
  - Fixed parser
  - Delimited parser
  - XML parser

All property values and descriptions are included in the Oracle GoldenGate for Java Administrator's Guide.

Deprecated/Discontinued Parameters

Any parameter that has been deprecated or discontinued will cause Extract or Replicat to abend with an appropriate error message. There are no parameters specific to the Oracle GoldenGate for Java Adapter that were deprecated in this release.

New Utility

Gendef

Gendef is a new utility to the GoldenGate product family that produces a source definitions file for non-database sources. Information on running Gendef can be found in the *Oracle GoldenGate for Java Administrator's Guide*.

Documentation Addendum

This section serves as an addendum to the Oracle GoldenGate User Guides. It includes items that have not been covered in the manuals due to changes made to the product or the documentation after the documentation has been published.

General

- None at this time.

GoldenGate for Java

- None at this time.

Open Issues

Open Issues have been moved to the Oracle GoldenGate README file.

Installation and Upgrade Procedure

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 following methods:

- Windows – Please use winzip or other method that can support files with the .zip extension.
- UNIX / Linux – Please use the 'unzip' command utility to uncompress the downloaded file.
- Mainframe – Please use the 'unzip' command utility to uncompress the downloaded file.

If you do not have any of these utilities on the server, you can download them from Oracle's website at http://updates.oracle.com/unzips/unzips.html

The rest of this section has been moved to the Oracle GoldenGate README file.

Corrected Problems

For questions on specific bugs or ticket numbers, please consult Oracle Customer Support. The numbers listed is the Oracle bug identification number that is also known as the PatchID.

Version 11.1.1.0.0 build 7– 31 July 2010

9952193 Fixed an issue with Xpath queries in the JMS Capture properties file that are not parsed correctly on z/OS when they contain match values (for example ./value[@isNull=true])

Version 11.1.1.0.0 build 6 – 26 July 2010

For build purposes only.

Version 11.1.1.0.0 build 5 – 22 July 2010

For build purposes only.

Version 11.1.1.0.0 build 4 – 21 July 2010

9889268 Fixed an issue affecting versions v3.1.0.7 through v3.1.0.10 in the Java API for testing if a column value was a database "NULL". The "isValueNull()" method now returns 'true' when the column value is SQL NULL. As a side-effect, the bundled demo XML message formatters returned NULL columns as the string NULL" (e.g., "![CDATA[NULL]]"), rather than as before, by setting an XML attribute (e.g., 'isNull="true"'). These demo XML formats now produce the same output as before.

Version 11.1.1.0.0 build 3 – 14 July 2010

9862191 Fixed an issue that was causing Extract to hang when using txind and there is more than one message in a transaction

9862224 Fixed an issue that caused Extract to fail with an error that transaction indicator does not match any valid values.

9869942 Added support to the XML parser for the definition of schemas through userdefs, in addition to source definitions. Support also added to for userdefs override to change data types or omit columns in the output.

9889888 Added validation to the delimited parser checker to properly report when header values are improperly defined in the properties file.

Version 11.1.1.0.0 build 2 – 8 July 2010

9871061 Corrected the method used to convert numbers that are part of the input IBM MQ Message ID that was causing Extract to terminate with error: Unable to receive message.

Version 11.1.1.0.0 build 1 – 1 July 2010

Initial Controlled Availability (CA) release of 11.1.1.0.0.

9753303 Addressed an issue that was causing the JMS capture process to terminate with an out of memory issue.

9753318 JMS Capture was failing to start after executing the Gendef utility. The was resolved by changing Gendef so it will no longer produce the same log file as the JMS Capture.

9753358 Fixed an issue that caused errors to be incorrectly written to the report file when the Extract was stopped normally. Incorrect errors that were showing up in the report file included: [ERROR]: Java exception: Rollback, [ERROR]: could not rollback JMS consumer transaction, [ERROR]: Error rolling back messages. Graceful stops no longer report errors.

9753346 The JMS capture could skip messages when the IBM MQ Message ID was specified as the sequence ID. The IBM MQ JMS Message ID is a hexadecimal value, which is not suitable for a sequence id on EBCDIC systems. This was corrected by converting to a suitable string by decoding the hexadecimal value.

9819829 When a JMS capture or data pump was stopped gracefully, the group.pcs file incorrectly was not removed from the /dirpcs directory. The JMS message capture was resolved to correctly clean up the dirpcs file after a graceful stop.