

**Oracle® GoldenGate For Java  
Release Notes V 3.1.0.4**



## Oracle GoldenGate for Java Release Notes current to 3.1.0.4 (September 18, 2009)

Oracle GoldenGate for Java Release Notes, Version 3.1.0.4

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## Release Notes – Oracle GoldenGate for Java v3.1.0.4

### Customer Support

Oracle 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. For support contact information please go to <http://support.goldengate.com/>. This website also contains the latest Oracle GoldenGate Software documentation and product notices.

### Availability

For specific OS Version support, please go to the Oracle GoldenGate download page at <http://support.goldengate.com/> and select "download" from the options menu on the left-hand side. If you need a version that is not listed or not available on the website, please use the website to request one.

### License Keys

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

## **New Features in Oracle GoldenGate for Java 3.0**

### **No requirement for target output trails**

Prior to this release, any extract process running the Oracle GoldenGate for Java user exit was required to have an output extrail or rmtrail. This requirement is alleviated in this release by specifying the 'PASSTHRU' option to the CUSEREXIT parameter in an 'extract' parameter file. It is not necessary to add an extrail, or rmtrail to the extract in this case.

### **Ability to specify properties file in parameter file**

Prior to this release the properties file for Oracle GoldenGate for Java either defaulted or was overridden via an environment variable. In this release it is possible to specify the properties file directly using the 'PARAMS' option to the CUSEREXIT parameter in the 'extract' parameter file.

### **Support for PK updates**

PK updates are now supported for integration to Java and/or JMS delivery.

### **Option to output commit timestamp in UTC**

Prior to this release, all commit timestamps were output in the local time-zone. In this release, an option was added to enable output of commit timestamps in UTC by setting the user-exit native library property: goldengate.userexit.timestamp=utc.

### **Configurable buffer for number of operations held in memory**

Prior to this release, the user-exit native library used a "transaction" or "operation" mode to determine if a whole transaction would be buffered in memory or if each operation would be processed as if it were a complete transaction. As of this release, the native-library should always be set to "operation" mode, and the Java handlers can be set to buffer the entire transaction in memory ("transaction mode") or just the most recent operation ("operation mode"), or the last "N" operations. All built-in handlers are now set to "operation mode" by default.

### **Customizable report format**

The report generated by the Java user-exit can be customized using a Velocity template.

## Installation and Upgrade Procedure

This section has been moved to the Oracle GoldenGate for Java README file.

## Open Issues

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

## Corrected Problems

For questions on specific bugs or ticket numbers, please consult Oracle Customer Support. For historical purposes, DT#, or OS-# is the Development Ticket number, TS#, SF# is the Technical Services Ticket number, DR# is the Teradata Ticket number.

### Version 3.0.7.0 – July 31, 2009

- The same Java jars and Java API may be used for both the Oracle GoldenGate v9.5 and v10.x releases. The appropriate user-exit native library must still be used for Oracle GoldenGate v9.5 or v10.
- Filters in the Java API now have a lifecycle: "init()" is called at startup, and "destroy()" is called at shutdown on any registered Java filters.
- The "dirprm" directory is now in the classpath by default. Property files, templates and other classpath resources may be placed in the dirprm directory and referred to without a path prefix: e.g., gg.handler.xyz.format=sample.vm
- A property editor for enumerated values ("enums") was added. Property values in the property file may be enumerated values, and handlers and filters will automatically have their appropriate "setter" called. Methods taking Strings and manually converting to enums have been replaced by methods using the enumerated values directly.

### Version 3.0.3.0 – May 27, 2009

- For messaging (JMS Text or Map messages), custom message headers may be set in Java by implementing the interface GGMessageLifecycleListener.
- Token and "getenv" support was added to the Java API. This allows the Java application to access tokens set in the trail, and "getenv" values accessible via the column function "@GETENV", without mapping the value to a column. These API's are now also available to Velocity templates for custom message formatting.
- Support was added for trails created from an HP NonStop source.

### Version 3.0.0.0 – May 4, 2009

- Initial GA release of 3.0.