Oracle® GoldenGate Application Adapters

Upgrading Oracle GoldenGate Application Adapters

Release 12*c* (12.2.0.1)

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Upgrading Oracle GoldenGate Adapters

This document provides information on how to upgrade an existing Oracle GoldenGate Adapter.

This document contains the following sections:

- Upgrading Overview
- Upgrading User Exits
- Upgrading JMS Capture
- Release Level Special Instructions
- Documentation Accessibility

Upgrading Overview

There are two types of upgrades for the Oracle GoldenGate Application Adapters and the steps are different for each:

- An adapter that is receiving changes captured from a source database and written to an Oracle GoldenGate trail.
- An adapter that is receiving changes from a JMS source

Topics:

> **Note:**
>
> There is no supported upgrade path from 12.1.2 to 12.2.0.*x*.

Upgrading User Exits

These sections explain the steps you need to follow for each of the types of upgrades.

Upgrading Source Database Capture

If the adapter is receiving trail data from a source database, use the following upgrade steps:

1. Create an installation directory that has no spaces in its name.
2. Extract the zip file into this new installation directory. This will download the files into several subdirectories.
3. Still on the installation directory, bring up GGSCI to create the remaining subdirectories in the installation location.

   ```
   Shell> ggsci
   GGSCI> CREATE SUBDIRS
   ```

4. Copy all of the `dirprm` files from your existing installation into the `dirprm` directory in the new installation location.

   > **Note:**
   >
   > All of your configuration files must be in the `dirprm` directory. If you have property files, Velocity templates, or other configuration files in a location other than `dirprm` in your old installation, copy them to the `dirprm` directory in the new installation.

5. Copy all of the `dirdef` files from your existing installation into the `dirdef` directory in the new installation location.
6. If you have additional jar files or other custom files in your old installation, copy them to the new installation directory.
7. Configure the Extract pump processes in the new installation directory by bringing up GGSCI and adding the Extracts and naming the trails.

   ```
   GGSCI> ADD EXTRACT group_name, EXTTRAILSOURCE trail_name, . . .
   ```

8. Start the Extract processes and verify that they are running:

   ```
   GGSCI> START EXTRACT group_name
   GGSCI> INFO EXTRACT group_name
   GGSCI> VIEW REPORT group_name
   ```

9. Modify the source system to write to the new Oracle GoldenGate Adapter installation directory:
   - (Optional) Upgrade the source database Oracle GoldenGate capture following the upgrade procedure for your database platform.
   - Configure the source database capture to write to the new Oracle GoldenGate Adapter installation location `dirdat` directory.
   - When the old Oracle GoldenGate Adapter installation has processed all its data, switch over to the process that will send data to the new location.

Upgrading JMS Capture

If your adapter is capturing changes from a JMS source, use the following steps to upgrade the installation.

1. Create an installation directory that has no spaces in its name.
2. Extract the zip file into this new installation directory. This will download the files into several subdirectories.
3. Still on the installation directory, bring up GGSCI to create the remaining subdirectories in the installation location.

   ```
   Shell> ggsci
   GGSCI> CREATE SUBDIRS
   ```

4. Copy all of the `dirprm` files from your existing installation into the `dirprm` directory in the new installation location.
5. Copy all of the `dirdef` files from your existing installation into the `dirdef` directory in the new installation location.
6. If you have additional jar files or other custom files in your old installation, copy them to the new installation directory.
7. Configure the Extract processes in the new installation directory to write to a new trail by bringing up GGSCI and adding the Extracts and naming the trails.

   ```
   GGSCI> ADD EXTRACT group_name, EXTTRAILSOURCE trail_name, . . .
   ```

8. Stop the old Extract from the previous version.

   ```
   GGSCI> STOP EXTRACT old_name
   ```

9. Start the new Extract processes and verify that they are running:

   ```
   GGSCI> START EXTRACT group_name
   GGSCI> INFO EXTRACT group_name
   GGSCI> VIEW REPORT group_name
   ```

10. When the old Oracle GoldenGate Adapter installation has processed all its data, configure the downstream processes to read from the new trails generated by the upgraded JMS capture process.

Release Level Special Instructions

This section covers special instructions for upgrading to certain release numbers.

Upgrading to 12.1.2.1.0

This section covers special instructions to be followed when upgrading to Oracle GoldenGate Adapters release 12.1.2.1.0.

Creating the Logging Configuration

When upgrading to Oracle GoldenGate Adapters release 12.1.2.1.0 from release 11.1.0 or later, the previous logging configuration will use files stored in the `ggjava` directory. For example, logging property files may be found in `ggjava/resources/classes`. In 12.1.2, these files may have changed, moved, or may no longer exist.

To upgrade the logging configuration:

- Navigate to the newly installed `AdapterExamples` directory

- Locate the example logging configuration file
- Copy the example file to the `dirprm` directory
- Customize the logging configuration as needed

Related Information

The Oracle GoldenGate Product Documentation Libraries are found at

https://docs.oracle.com/en/middleware/goldengate/index.html

Additional Oracle GoldenGate information, including best practices, articles, and solutions, is found at:

Oracle GoldenGate A-Team Chronicles

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