Oracle® GoldenGate for NonStop

Upgrade Instructions

11*g* Release 1 (11.1.1)

E23007-01

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ORACLE®

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Upgrading to Oracle GoldenGate for NonStop 11*g* R1 (11.1.1)

Important: Upgrades to Oracle GoldenGate should be performed by an administrator who has thorough knowledge of the commands that are necessary to control processes and obtain status information.

Determine if you need configuration or environment changes

Before doing the upgrade procedure, please read the New Features section of the release notes to determine whether the new release affects your configuration because of:

- Properties or parameters that changed or were deprecated
- Properties or parameters that were added to support a new feature
- New functionality that requires changes to existing property or parameter settings

Familiarize yourself with the new features before you start the upgrade, so you are prepared to make any required changes in your environment.

For a new installation (estimated time 40 minutes)

1. Download the appropriate release for your platform.

2. Save the file to a directory on your workstation and unzip it to a temporary folder.

3. Upload the `GGSUNPAK` and `GGS<OS version>PK` files in `BINARY` mode to the volume and subvolume on your HP NonStop Server where you want to install and run Oracle GoldenGate. We recommend that you preface the subvolume name with OGG and include the version of Oracle GoldenGate. For example, if you are installing Oracle GoldenGate version 11.1.1, then we recommend you install on `$VOL.OGG1111`.

   > **Note:** If you are using Oracle GoldenGate against a TMF-enabled (or audited) database, then Oracle GoldenGate must be installed on a volume that is TMF-protected, because the internal Oracle GoldenGate file must be audited.

4. Alter `GGSUNPAK` to be an Edit file.

   ```
   FUP ALTER GGSUNPAK, CODE 101
   ```

5. Run `GGSUNPAK` and confirm the installation location. If the correct location is not displayed, you are prompted for it, as shown below.

   ```
   TACL> RUN GGSUNPAK
   Installing Oracle GoldenGate at $VOL.GGSTEMP
   Is this correct? (Y/N) N

   Enter the volume and subvolume to install Oracle GoldenGate: $VOL.GGS1111
   Installing Oracle GoldenGate at $VOL.OGG1111
   Is this correct? (Y/N) Y
   ```

6. The Native version of Oracle GoldenGate will be installed, but you are prompted to indicate if you need TNS versions of Extract and Replicat.

```
Do you use TNS mode User Exits in Extract (Y/N)? N
Do you use TNS mode User Exits in Replicat (Y/N)? N
```

7. You are prompted to build Oracle GoldenGate intercept libraries. Oracle GoldenGate recommends building a GGSLIB object, but it can be omitted if you do not need to capture non-audited Enscribe files or FUP-related activities.

```
Build of new GGSLIB recommended. Build now (y/n)? Y
```

8. The BUILDMAC utility runs and searches for runtime libraries to bind with GGSLIB, and you may be prompted that one or more libraries is missing. Enter **Y**

```
One or more libraries was missing.  Continue anyway? (Y/N) Y
```

> **Note:** Assuming you opted to build the intercept libraries, you will see the BIND steps being performed. You may see the following Binder messages that can be safely ignored.
>
> ```
> **** WARNING 60 **** Parameter mode mismatch on PXFS_FILE_WRITE_
> parameter 2. Parameter mismatch between two external procedure
> declarations.  The parameters are declared as    STRING and other
>
> **** WARNING 61 **** Parameter type mismatch on PXFS_FILE_WRITE_
> parameter 2. Parameter mismatch between two external procedure
> declarations. The parameters are declared as INT32 and other.
>
> **** WARNING 61 **** Parameter type mismatch on PXFS_FILE_WRITE_
> parameter 3
> ```

9. You are asked if you want to include a user library. Respond either **Y** or **N**.

```
Do you want to include your own User Library (y/n)? N
```

10. You are asked if you want to change the location of the AUDCFG.

```
Do you want to change the location for the AUDCFG segment (Y/N) : N
```

If you respond with yes, it prompts you for the new default location (`$VOL.SUBVOL`) of the AUDCFG segment.

11. You are asked if you want to build the native mode Oracle GoldenGate intercept libraries GGSLIBR and GGSSRL. To install native code, enter **Y** and continue to the next step; otherwise, enter **N** to use TNS code and then skip to step 18.

```
Build Native mode GGSLIBR & GGSSRL (Y/N?) Y
```

12. The NLDLIB macro runs, and you are asked if you want to include a user library. Reply either **Y** or **N**.

13. You are asked if you want to change the location of the AUDCFG.

```
Do you want to change the location for the AUDCFG segment (Y/N) : N
```

If you respond yes, it prompts for the new default location (`$VOL.SUBVOL`) of the AUDCFG.

14. You are asked if you want to include ZCREREL. It is recommended to enter **Y**

15. You are asked to enter the location of the ZCREREL to use. Enter a location or you can press **Enter** to bypass this prompt.

16. You are asked if you want to include ZCOBREL. It is recommended to enter **Y**

17. You are asked to enter the location of the ZCOBREL to use. If you plan to use COBOL, enter a location; otherwise, you can press **Enter** to bypass this prompt.

18. You are asked if Oracle GoldenGate should use an existing SQL catalog or create a new catalog. Either enter **X** to specify no catalog or enter the name of a catalog to use. If you enter a catalog name and it does not exist, you are asked whether to create it.

    ```
    SQL Catalog for Compilation (X for no catalog)? GGSCAT
    Catalog $PROD.GGSCAT does not exist.  Create it (Y/N)? Y
    ```

19. You are asked if you want to migrate information from another Oracle GoldenGate environment. If you are installing Oracle GoldenGate for the first time, enter **N**. If you are upgrading from a previous version, see the instructions for upgrading Oracle GoldenGate.

    ```
    Would you like to Migrate information from another GGS Environment
    (Y/N)? Y
    Enter old GGS vol.subvol or X to quit: $VOL.GGS1000
    ```

After the programs have been compiled, License and PROGID the following programs:

```
TACL 2> LOGON SUPER.SUPER
TACL 3> FUP
- GIVE AUDSERV, SUPER.SUPER
- SECURE AUDSERV, "NUNU", PROGID
- LICENSE AUDSERV
- LICENSE PRIV*
- LICENSE LOGDUMP
- LICENSE TMFARUL2
- EXIT
```

If the version of your SQL catalog does not allow FUP to alter the program, you may PROGID and License the programs using the following commands.

```
TACL 2> LOGON SUPER.SUPER
TACL 3> SQLCI
>> ALTER PROGRAM AUDSERV OWNER 255,255;
>> ALTER PROGRAM AUDSERV SECURE "NUNU" PROGID;
>> EXIT
TACL 4> FUP
- LICENSE AUDSERV
- LICENSE PRIV*
- LICENSE LOGDUMP
- LICENSE TMFARUL2
```

Remember to log back on as the owner of the Oracle GoldenGate Software application before proceeding.

For upgrades (estimated time 45 minutes):

Verify that a successful backup copy of your Oracle GoldenGate subvolume is available.

If you are upgrading your application to a newer version, follow the normal installation steps above, except install Oracle GoldenGate to a subvolume with a slightly different name. We recommend that you preface the subvolume name with OGG and include the version of Oracle GoldenGate. For example, if you are installing Oracle GoldenGate version 11.1.1, then we recommend you install on `$VOL.OGG1111`.

Shutdown the previous instance of GGS. For example,

```
TACL 1> RUN GGSCI
GGSCI 1> STOP SYNCFILE *
GGSCI 2> STOP REPLICAT *
GGSCI 3> STOP EXTRACT *
GGSCI 4> STOP LOGGER
GGSCI 5> STOP MANAGER
```

> **Note:** Leave the Logger program running if you plan to `HOTSWAP` the Logger object.

Run the `MIGRATE` macro to move your Extract and Replicat configuration and checkpoint information to your new version. When you execute `MIGRATE` from the new installed subvolume, it will ask you for the location of your old Oracle GoldenGate application.

```
TACL 1> RUN MIGRATE
```

If you have a running Logger process, `MIGRATE` will ask if you want to `HOTSWAP` the Logger object. If you answer yes, it will change to the Logger object running in the install location. Note that you can `HOTSWAP` only when migrating from a version 10 or higher environment. **Caution:** You must coordinate `HOTSWAP` with any manual steps to upgrade `BASELIB` as part of the upgrade process.

If you have user exits: You must recompile your user exits, then rebind them into GoldenGate every time you upgrade. This ensures the latest GoldenGate features will work with your code.

If you customize your program locations: `MIGRATE` changes the program pointers to our new Oracle GoldenGate default. If you expect Extract or Replicat to run from a specific program pointer, you must manually specify this using the `ALTER` command. Perform this step after your have recompiled your user exits, and rebound them into GoldenGate.

```
TACL> RUN GGSCI
GGSCI> ALTER EXTRACT <group name> PROGRAM <program name>
```

If you have any user-defined obey files that contain table define names particular to your environment or other startup and shutdown files, you must move those files manually. One good approach is to duplicate files from your old environment to the new environment using the KEEP option. Therefore, only files that do not exist on the new subvolume will be moved. For example:

```
TACL 1> FUP DUP GGS1000.*, GGS1111.*, KEEP
```

From the new subvolume, you can now restart all of your existing Oracle GoldenGate processes as normal. For example:

```
TACL  1> RUN GGSCI
GGSCI 1> START MANAGER
GGSCI 2> START LOGGER
GGSCI 3> START EXTRACT *
GGSCI 4> START EXTRACT *
GGSCI 5> START SYNCFILE *
```

Once you have verified that the upgrade was successful, we recommend you purge the files from the old Oracle GoldenGate subvolume.

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 or through interactive online support sessions. For support contact information please go to http://support.oracle.com.