

HP Project and Portfolio Management Center

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HP GL Migrator Guide

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1 Getting Started with HP GL Migrator

Introduction to HP GL Migrator

HP GL Migrator manages migrations of Oracle® E-Business Suite General Ledger setup entities across multiple database instances. HP GL Migrator is installed as an application hosted on an Oracle E-Business Suite instance, and it consists of a series of concurrent programs that run through the standard Oracle Submit Requests form.

There is one HP GL Migrator program for each corresponding Oracle General Ledger entity type (for example, Budget Orgs, Consolidations, and Mass Allocations). Users launch a program and specify information regarding the entities to migrate, where the data is coming from, and where the data is going. Some parameters are specific to the individual entity type.

Users can query the results of each HP GL Migrator execution from the standard Oracle View Requests form. Each execution produces an output report that lists the parameters passed to the program, the entities queried for migration, and results of the migration.

HP GL Migrator can be used to:

- Migrate Oracle General Ledger setup entities from one instance to another
- Put entities into a version control product
- Compare different versions of the same entity

For a description of features that are new for HP GL Migrator version 9.12 and upgrade impacts, see [New Features Overview on page 13](#).

Chapter 1, *Getting Started with HP GL Migrator*, on page 11, this chapter, provides an overview of HP GL Migrator.

Chapter 2, *Installation and Upgrade Requirements*, on page 21 describes the requirements to install or upgrade to HP GL Migrator version 9.12, including basic supportability information.

Chapter 3, *Installing HP GL Migrator*, on page 27 describes in detail the procedure to install HP GL Migrator on an Oracle E-Business Suite instance running on Windows® or UNIX®. It also describes initial configuration of Oracle E-Business Suite to work with HP GL Migrator.

Chapter 4, *Upgrading HP GL Migrator*, on page 47 describes in detail the procedure to upgrade HP GL Migrator from version 6.0 on an Oracle E-Business Suite instance running on Windows or UNIX.

Chapter 5, *Optional Configurations for HP GL Migrator*, on page 57 describes optional configurations that can be established after HP GL Migrator has been installed or upgraded.

Chapter 6, *Using HP GL Migrator*, on page 73 describes the capabilities of HP GL Migrator at a high level and describes the parameters that are common to many of the GL migrators.

Chapter 7, *Maintaining HP GL Migrator*, on page 85 describes the maintenance tasks associated with HP GL Migrator and the programs to perform them.

Chapter 8, *Using Version Control*, on page 99 describes version control, archiving, and entity comparison capabilities of HP GL Migrator.

Chapter 9, *Migrating General Ledger Entities*, on page 109 describes how to run the individual GL migrators.

Chapter 10, *Using HP GL Migrator with HP Deployment Management*, on page 123 describes how to manage the migrations of Oracle E-Business Suite General Ledger setup entities from the HP Deployment Management module in PPM Center.

Appendix A, *Exception Messages*, on page 129 lists and describes exception messages, their causes, and recovery actions.

New Features Overview

HP GL Migrator version 9.12 adds support for Oracle E-Business Suite Release 12.

For information about supportability of HP GL Migrator version 9.12 with various releases of Oracle E-Business Suite and with various versions of PPM Center and HP Object Migrator, see:

- [Supportability on page 21](#)
- [System Requirements and Compatibility Matrix](#) for the appropriate version of PPM Center

In addition, to support migrations to Oracle E-Business Suite Release 12, HP GL Migrator version 9.12 includes the Migrate FSG Row/Col Sets program, which has previously been provided in HP Object Migrator. The FSG Row/Col Sets migrator in HP GL Migrator version 9.12 supersedes the migrator in HP Object Migrator. For more information, see [Migrate FSG Row/Col Sets Migrator on page 114](#). This change affects upgrade from Mercury GL Migrator version 6.0 to HP GL Migrator version 9.12, as described in [Chapter 4, Upgrading HP GL Migrator, on page 47](#).

Architecture Overview

HP GL Migrator is a custom application installed on an Oracle E-Business Suite instance. Its default application short name is `CLGM`, and its full application name is HP GL Migrator.

If HP Object Migrator is installed, HP GL Migrator shares its database schema with HP Object Migrator. This schema contains the HP GL Migrator entities and communicates with the `APPS` schema. These are required in order to migrate setup entities, as well as retain archived versions of entities and capture migration audit data.

HP GL Migrator programs are registered as concurrent programs. These programs utilize the standard security and concurrent processing features available within the Oracle E-Business Suite, such as concurrent program registrations, request groups, and responsibilities, to control their use.

HP GL Migrator has the flexibility to be installed on either the source or destination instance of data migrations, or on a completely independent instance. This is because it communicates with other instances using `SQL*Net` and database links created in the HP GL Migrator schema. The database links are defined to provide a link from the HP GL Migrator schema to the `APPS` schema of a given instance. If HP GL Migrator is installed in an instance that is the source or destination of a migration, the HP GL Migrator schema will contain a database link pointing to the `APPS` schema of the local database.

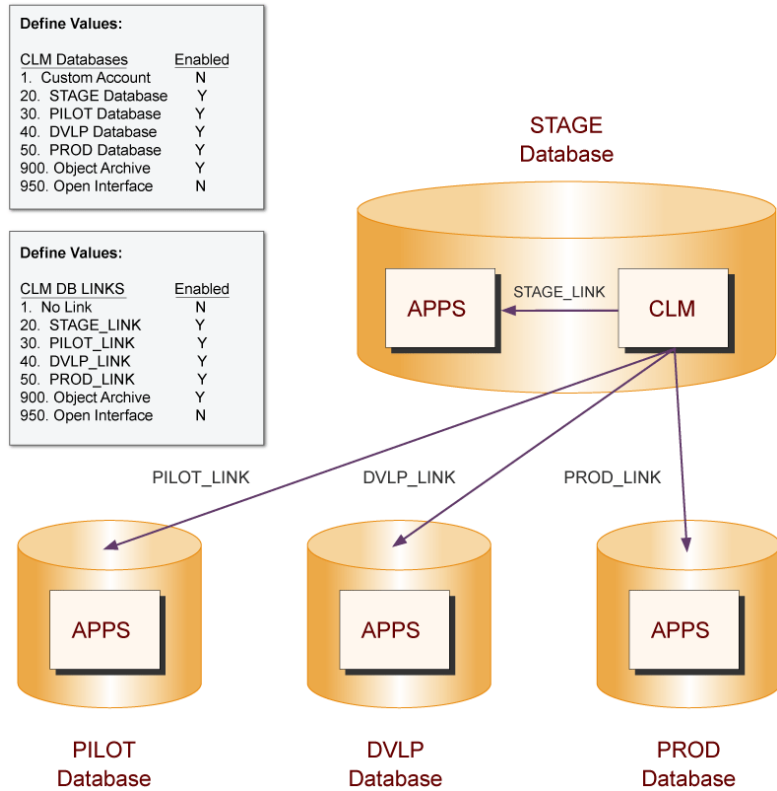
Example HP GL Migrator Environment

Figure 1-1 shows an example system configuration at a company that has four database instances named `STAGE`, `PILOT`, `DVLP`, and `PROD`. Information in the “Define Values” boxes reflects completion of the detailed installation procedures.

Assume that a database administrator will decide which instance will include HP GL Migrator. Any of the instances are valid, but it is best to pick the one that is refreshed least often. `DVLP` and `PILOT` are refreshed often. `PROD` might seem to be a good candidate, but the operations staff wants no external tools in the `PROD` database. `STAGE` is a small staging database that has only the Application Object Library and General Ledger modules installed, and it is

never refreshed. So STAGE is the instance on which HP GL Migrator will be installed.

Figure 1-1. Sample system configuration



HP GL Migrator Concurrent Programs

HP GL Migrator provides one migrator file for each of the individual GL migrators. HP GL Migrator also includes system administration and maintenance programs. These migrators and other programs have .rdf extensions and are executable as concurrent programs launched from the Submit Requests form (also known as the Run Requests form).

Table 1-1 lists the provided migrators.

Table 1-1. Migrators in HP GL Migrator

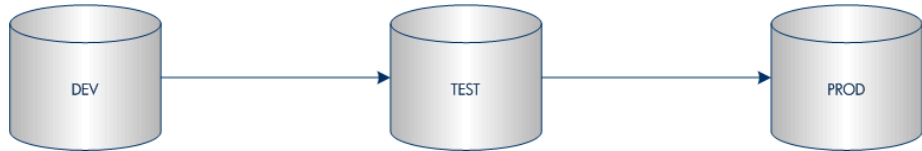
Migrator Name	Migrator File
Migrate Budget Organizations	CLGMRB01.rdf
Migrate Consolidations	CLGMRC01.rdf
Migrate Cross Validation Rules	CLGMRCV1.rdf
Migrate FSG Row/Col Sets	CLGMRFS1.rdf
Migrate Journal Categories	CLGMRJC1.rdf
Migrate JE Sources	CLGMRJS1.rdf
Migrate Mass Allocations	CLGMRMA1.rdf
Migrate Summary Templates	CLGMRST1.rdf

Deploying Entities Across Database Instances

Individual applications in the Oracle E-Business Suite rely on the configuration of GL setup entities (GL objects) within their database instances. When customizing or configuring Oracle E-Business Suite applications, it is often necessary to deploy these objects from one instance to another.

For example, you may have one instance for customizing the Oracle E-Business Suite (DEV), one instance for testing the customizations (TEST), and one production instance (PROD). The GL entities in this example would be deployed from DEV to TEST to PROD, as shown in *Figure 1-2*. Manually re-keying these configurations would be both time consuming and error prone.

Figure 1-2. Migration overview



HP GL Migrator automates the deployment of these GL entities between Oracle E-Business Suite instances, increasing both the accuracy and efficiency of object deployments. HP GL Migrator also supports archiving and restoring configurations.

HP GL Migrator consists of a series of concurrent programs that run through the standard Oracle Submit Requests form, making it easy and familiar to use. Users launch an HP GL Migrator program for each GL entities (such as concurrent program, value set, or menu). You can migrate or compare entities. For each program, users specify parameters detailing information about how to run the program.

Based on the concurrent request parameters, HP GL Migrator:

- Deploys the entities to the destination
- Validates and transforms data values as required
- Identifies business rule violations and reports migration outcome

The results of each HP GL Migrator execution can be queried from the standard Oracle View Requests form. Each execution run produces an output report that lists the parameters passed to the program, the entities queried for migration, and the detailed results of the migration.

Migration Capabilities



While migrating between instances of Oracle E-Business Suite at versions R11i and R12, the set of books in the R11i instance is compared with the ledgers entity in the R12 instance. These entities are treated as comparable in the context of GL migrators.

HP GL Migrator supports the following capabilities when migrating each entity type:

- Migrates a single entity, a range of entities, or entities matching a string with wild cards
- Renames an entity as it is migrated into the destination instance
- Migrates between sets of books/ledgers, as long as the chart of account structures is the same.
- Creates new entities and updates existing entities in the destination instance
- Retains referential integrity when creating or updating existing entities just as if performed using the application forms
- Migrates across releases of Oracle E-Business Suite and adds or removes data to make the migrated data compatible with the destination database.
- Simulates migration in a “dry run” to identify issues with data setups without actually migrating data

Version Control Overview

You can use HP GL Migrator to save data to special archive tables as entities are migrated across Oracle E-Business Suite instances. This feature can be used to store new versions of entities. HP GL Migrator also allows you to use this archived data as your source information, so you can revert to previous entity versions. You can use HP GL Migrator reports to examine the archived data and to view complete version histories of a specific entity or a group of entities.

The entity archive is the version control repository used by HP GL Migrator. Each entity type that HP GL Migrator migrates can be archived, and sets of entities of the same or different entity types can be grouped together into a single logical archive. The entity archive resides in the instance where HP GL Migrator is installed, allowing GL object versions from any instance to be stored in one central location.

Version labels are used by the entity archive to identify groupings of objects into a single logical archive. The version label is defined when the HP GL Migrator program is run. It is also used to identify entities to retrieve from the archive, and to report on entities in the archive.

Within each archive (as specified by a version label), it is possible to store multiple entities of multiple entity types. When saving an entity to the entity archive, HP GL Migrator:

- Copies the entire definition of the entity into the archive
- Gives the new entity a revision number that tracks the number of times a particular entity has been archived

A particular entity can be archived only once within a given version label.

HP GL Migrator reports allow you audit the contents of the archive and display revision history of setup entities, and it allows you to purge data from the entity archive as it becomes obsolete.

For detailed information about version control, see [Chapter 8, *Using Version Control*](#), on page 99.

Reports Overview

Table 1-2 lists the system administration and maintenance programs provided in HP GL Migrator, with references to more information.

Table 1-2. System administration and maintenance programs in HP GL Migrator

Concurrent Program Name	Report Name	Reference
GL Archive Version Detail Report	CLGMRVR1 .rdf	<i>GL Archive Version Detail Report</i> on page 103
GL Migration Comparison Report	CLGMRMC1 .rdf	<i>Comparison Reports</i> on page 76
GL Migrator Audit Report	CLGMRAD1 .rdf	<i>Running Audit Reports</i> on page 96
Maintain GL Migrator Views	CLGMDVW1 .rdf	<i>Maintaining HP GL Migrator Views</i> on page 88
Purge Entity Archive Versions	CLGMRPV1 .rdf	<i>Purge Entity Archive Versions Program</i> on page 104
Purge GL Migrator Interface Tables	CLGMRPG1 .rdf	<i>Purging Temporary Tables</i> on page 94

2 Installation and Upgrade Requirements

Supportability

For detailed information about supportability of HP GL Migrator version 9.12 with various releases of Oracle E-Business Suite and with various versions of PPM Center and HP Object Migrator, see the *System Requirements and Compatibility Matrix* for the appropriate version of PPM Center.

Using HP GL Migrator with Oracle E-Business Suite Release 12 requires installing a patch for the HP Deployment Management Extension for Oracle E-Business Suite that provides new object types. HP GL Migrator version 9.12 and the patch must be installed in a specific sequence. For detailed information about the installation and upgrade, see the *Release Notes* for the appropriate version of PPM Center.

As Oracle E-Business Suite evolves with new and modified functionality, changes are reviewed for incorporation into HP GL Migrator. Detailed information regarding point releases and patch level support, as well as known issues, is available from the HP Software Support Web site (hp.com/go/hpssoftwaresupport).

Considerations for HP GL Migrator Version 9.12

Consider the following:

- Do not customize any forms related to HP GL Migrator, including Concurrent Programs Definitions and Submit Concurrent Request Parameters. Customization of these forms is not supported.
- Do not convert HP GL Migrator custom schema using the Oracle Applications Tablespace Model (OATM). To migrate using OATM, use the OATM migration utility and exclude the HP GL Migrator schema.

Upgrade Requirements

To upgrade to HP GL Migrator version 9.12, the requirements for installation described in subsequent sections of this chapter must be met.

In addition, upgrading to HP GL Migrator version 9.12 requires the following:

- Only upgrades from Mercury GL Migrator version 6.0 are supported.

If you are running a version of GL Migrator earlier than Mercury GL Migrator version 6.0 (such as Kintana GL*Migrator release 2.0), you must upgrade to Mercury GL Migrator version 6.0 before upgrading to HP GL Migrator version 9.12. For information about upgrading to Mercury GL Migrator version 6.0, see the *Mercury GL Migrator Guide* for version 6.0.
- The application short name in Oracle E-Business Suite applications for HP GL Migrator must be CLGM. If it is not, contact HP Software Support.
- Using a custom SQL account to run HP GL Migrator allows for better separation between HP GL Migrator objects and standard Oracle E-Business Suite application objects.
- Version 9.12 of HP GL Migrator backs up the data for archived users during the upgrade process. Make sure there is adequate database space before beginning the upgrade.

File System and Tablespace Requirements

HP GL Migrator requires a minimum amount of disk space to be successfully installed or upgraded, and a minimum amount of tablespace to function properly.

For details of the requirements, see the *System Requirements and Compatibility Matrix* for the appropriate release of PPM Center.

Requirements directly relate to the number of entities placed under version control (see *Version Control Considerations* on page 25), and sizing can depend on the database version and configuration.

Platform Requirements

Because HP GL Migrator works within Oracle E-Business Suite and uses standard Oracle tools, it can run on any platform running Oracle E-Business Suite.

Installation and upgrade of HP GL Migrator are driven by SQL and shell scripts. The Oracle E-Business Suite instance that hosts HP GL Migrator must support Bourne shell executions. The MKS Toolkit fulfills this requirement for Windows environments.

Instance Requirements

HP GL Migrator runs as concurrent programs using Concurrent Manager in Oracle E-Business Suite. The user accesses the Oracle Submit Requests form (also known as the Standard Request Submission form) to launch migration programs. The Oracle E-Business Suite instance on which HP GL Migrator is hosted must be able to run a concurrent program.

Because HP GL Migrator resides as a custom application within the Oracle E-Business Suite instance, it should be installed in an instance that will not be refreshed. Normally, this will be either a production instance or another instance that does not get refreshed. If this is not possible, contact HP Software Support.

If the database does need to be refreshed, export the data in the HP GL Migrator tables before the refresh and import the data after the refresh is completed.

HP GL Migrator requires installation of the Applications Object Library (AOL) and General Ledger modules.

Distributed Database Option - Recommended

HP GL Migrator uses database links to access all databases. The Distributed Database Option is required to insert, delete, or update data on a remote database. HP strongly recommends that this option be active on all the databases being used as sources and destinations. For information about how to install HP GL Migrator with the Distributed Database Option turned off, see [Using HP GL Migrator Without the Distributed Database Option on page 71](#).



When using HP GL Migrator with HP Deployment Management, the Distributed Database Option is required.

The instance where HP GL Migrator resides must be configured such that Oracle E-Business Suite instances that will be the source or destination of a migration can be accessed using database links (that is, configurations such as tnsnames, listener, or global names).

Application Naming Requirements

For new installations, there must be no existing applications with the short name `CLGM` registered on the Oracle E-Business Suite instance that will host HP GL Migrator. If a `CLGM` application does exist, contact HP Software Support.

For upgrades to HP GL Migrator version 9.12, the application short name in the Oracle E-Business Suite instance that will host HP GL Migrator must be `CLGM`.

Version Control Considerations

HP GL Migrator uses archive tables to store version information for GL entities. These tables reside on the instance where HP GL Migrator is installed. If HP GL Migrator is installed on multiple instances and someone uses the version control functionality on all the installations, multiple entity repositories result. To prevent confusion, HP recommends using version control functionality on only one installation.

Sizing Requirements for Archive Tables

When saving an entity to the entity archive, HP GL Migrator takes the entire definition of the entity and stores it in special archive tables. The growth of these archive tables directly corresponds to the number of entities and the number of versions put into these tables. For some entities, entity complexity and size can also be factors.

If you plan periodically to store versions of entire groups of entities rather than storing only the entities that change, then more tablespace will be required than the recommended 30 megabytes. HP recommends starting with a 30-megabyte allocation and then adding tablespace as needed.

Obtaining a User Name and Password

Each user who is going to run HP GL Migrator must have an Oracle E-Business Suite user ID and password, and must be given access to run one or more HP GL Migrator programs using the Submit Request form.

You should obtain this information from the system administrator. The administrator may set up a specific responsibility for HP GL Migrator usage, or may incorporate HP GL Migrator functions into an existing responsibility.

3 Installing HP GL Migrator

Overview of the Installation Process



In general, HP GL Migrator version 9.12 should be installed as part of a series of product installations that must be performed in a particular sequence. For more information, see the *Release Notes* for the appropriate version of PPM Center.

This chapter describes how to install and initially configure HP GL Migrator version 9.12. These procedures are generally performed by administrators, who are not necessarily the end users of HP GL Migrator.

The procedure to upgrade from Mercury GL Migrator version 6.0 is described in [Chapter 4, *Upgrading HP GL Migrator*, on page 47](#).

The HP GL Migrator version 9.12 installation procedure copies various entities into the Oracle E-Business Suite (Oracle Applications) database. For a list and description of those entities, see [HP GL Migrator Concurrent Programs on page 16](#) and [Reports Overview on page 20](#).

For detailed information about supportability of HP GL Migrator version 9.12 with various releases of Oracle E-Business Suite and with various versions of PPM Center and HP Object Migrator, see the *System Requirements and Compatibility Matrix* for the appropriate version of PPM Center.

For detailed information about the supported installation and upgrade sequences, see the *Release Notes* for the appropriate version of PPM Center.

Installation consists of the following major steps:

- Verifying that system requirements are met
- Performing pre-installation setup, including deciding where HP GL Migrator will be installed and creating directory structures for it
- Downloading and installing the software
- Configuring the Oracle E-Business Suite instance to work with HP GL Migrator

SQL and shell scripts are used to perform automatic setup of the internal entities (for example, applications, tables, indexes, sequences, concurrent programs, flexfields, and value sets) necessary for each of the HP GL Migrator modules to execute.

SQL script files have `.sql` extensions.

Pre-Installation Setup

Before you start the HP GL Migrator installation, carefully review the following:

- [Chapter 2, *Installation and Upgrade Requirements*, on page 21](#)
- This entire chapter

Create Directories and Environment Variables

To create the necessary directories and environment variables:

1. Log on to the Oracle E-Business Suite instance that will host HP GL Migrator, as the owner of the Oracle file system, typically `applmgr`.

2. Decide where HP GL Migrator will be installed and create the required directory structure. Normally, this will be either a production instance or another instance that does not get refreshed.

HP GL Migrator can be installed in its own `<PROD>_TOP` directory (for example, `CLGM_TOP`), or it can share a `<PROD>_TOP` directory with an existing application (for example, `FND_TOP`). HP recommends a separate `<PROD>_TOP` directory.

In this document, `CLGM_TOP` is the environment variable used to represent the location where HP GL Migrator will be installed. You must use the same specific parent directory throughout the procedures in this document.

- a. Create the directory that you will later specify as the `CLGM_TOP` environment variable.

- For UNIX:

```
mkdir /u1/stageappl/CLGM
```

- For Windows:

```
mkdir d:\stageappl\CLGM
```

- b. On every tier in the instance, create the following subdirectories under `CLGM_TOP`, owned by the user who owns the other `TOP` directories (for example, `applmgr`):

- “Staging” subdirectory to which installation files will be downloaded (in this document, `GLM_staging` is used as an example of the HP GL Migrator directory for installation).
- Subdirectory named `reports/US`, to which the Oracle Reports `.rdf` files will be copied after installation is complete
- “Log” and “out” subdirectories, if this instance is configured to place log and output files for concurrent processing under individual applications rather than in a central location

For example, create the following installation staging, reports, log, and out subdirectories:

- For UNIX:

```
mkdir /u1/stageappl/CLGM/GLM_staging
mkdir /u1/stageappl/CLGM/reports/US
mkdir /u1/stageappl/CLGM/$APPLLOG
mkdir /u1/stageappl/CLGM/$APPLOUT
```

- For Windows:

```
mkdir d:\stageappl\CLGM\GLM_staging
mkdir d:\stageappl\CLGM\reports\US
mkdir d:\stageappl\CLGM\%APPLLOG%
mkdir d:\stageappl\CLGM\%APPLOUT%
```

- c. Add the `CLGM_TOP` environment variable to the environment file for the database instance.

The environment file is usually `$APPL_TOP/admin/adovars.env` for UNIX or `adovars.cmd` for Windows.

Refer to your company's procedures and see Oracle documentation for more information.

For example, add the following entries to the environment file.

- For UNIX:

```
CLGM_TOP="/u1/stageappl/CLGM"
export CLGM_TOP
```

- For Windows:

```
set CLGM_TOP=d:\stageappl\CLGM\
```

- d. Ensure that the environment has been updated.

- For UNIX, source the file and then stop and restart the Oracle E-Business Suite applications processes.
- For Windows, if the installation is done as a custom application, update the Windows registry with `CLGM_TOP`.

Create Tablespaces and Rollbacks

For this procedure, decide which tablespaces HP GL Migrator will use for tables and indexes. HP GL Migrator must use its own tablespaces if it will reside in a production Oracle E-Business Suite instance.

To create tablespaces and rollbacks:

1. If you want new tablespaces, create them. See the sizing requirements for the tablespaces in the *System Requirements and Compatibility Matrix* for the appropriate release of PPM Center.
2. Consider creating additional rollback segments to support HP GL Migrator migration transactions, especially if HP GL Migrator does not reside in a dedicated Oracle E-Business Suite instance. HP recommends adding at least one new rollback segment for each of the new tablespaces. These rollback segments should reside in a separate tablespace reserved for rollback segments. They should be generated with the OPTIMAL size constraint to make sure that the rollback segments automatically deallocate space as it becomes free.

Create an HP GL Migrator SQL User

HP GL Migrator requires that you create a unique user account to run jobs and programs, as follows:

1. Create a custom SQL account in which to install HP GL Migrator.



If this step has already been performed for HP Object Migrator, skip this step, because both HP GL Migrator and HP Object Migrator use the same SQL account.

An existing SQL account can be used, but HP does not recommend this unless the account was originally created for HP Object Migrator. This account needs privileges to create tables, indexes, sequences, database links, and stored procedures. It should also have access to the V\$DATABASE view.

Default tablespaces should be defined for the user.

For example, create a schema named CLM with a password of CLM. Identify the tablespaces of CLGM_DATA and CLGM_NDX to hold the tables and indexes for CLGM.

```
create user CLM identified by CLM
default tablespace CLGM_DATA
quota unlimited on CLGM_DATA
quota unlimited on CLGM_NDX;
grant connect, resource, unlimited tablespace to CLM;
```

2. Register the SQL account created for HP GL Migrator with Oracle E-Business Suite, as follows:



If this step has already been performed for HP Object Migrator, skip this step, because both HP GL Migrator and HP Object Migrator use the same SQL account.

- a. Select the **System Administrator** responsibility.
- b. Navigate to the Register form (**Security : ORACLE > Register**).
- c. Add an entry for the new SQL account.

For example, register the CLM schema in the STAGE instance as shown in the following figure.

Database	User Name	Password	Privilege	Install Group	Description
	CLM		Enabled	0	HP GL Migrator



For some Oracle E-Business Suite releases, this will automatically submit the Make Foundation Grants and Synonyms program for an Oracle user. Wait for the program to finish before continuing. If the program does not get submitted, continue with the installation.

Installing HP GL Migrator

This section details how to install HP GL Migrator version 9.12. Each step distinguishes between UNIX and Windows as needed.

Prepare to Run the Installation Script

To prepare to install HP GL Migrator:

1. Make sure you have completed the procedures of *Pre-Installation Setup* on page 28.
2. Download `CLGM_912.zip`, the HP GL Migrator version 9.12 install bundle (file), to the staging directory.

Example staging directories are:

- For UNIX: `/u1/stageappl/CLGM/GLM_staging`
 - For Windows: `d:\stageappl\CLGM\GLM_staging`
3. From the staging directory, unzip the HP GL Migrator installation bundle using the following command:

```
unzip CLGM_912.zip
```

This creates the following subdirectories under the staging directory (`GLM_staging`):

- `CLGM_9_12\install\r11`, which contains all the installation scripts needed to install HP GL Migrator (for all releases of Oracle E-Business Suite supported by HP GL Migrator version 9.12)
- `CLGM_9_12\srw`, which contains all of the Oracle Reports `.rdf` executables for HP GL Migrator version 9.12

Run the Installation Script

To run the installation script:

1. Start a command shell and set the applications context, if required.

For example, for UNIX:

```
cmd d:/stageappl/envshell.cmd
```

2. Navigate to the directory with the installation script as follows:

- For UNIX:

```
cd d:/stageappl/CLGM/GLM_staging/CLGM_9_12/install/r11
```

- For Windows:

```
cd d:\stageappl\CLGM\GLM_staging\CLGM_9_12\install\r11
```

3. For Windows only, make sure the MKS Toolkit is in the user's path.
4. Make sure the custom SQL account discussed in [step 1 on page 31](#) has been created and registered.
5. Run the install script:

- For UNIX, run the `CLGM_INSTALL` script:

```
sh CLGM_INSTALL
```

- For Windows, run the `CLGM_INSTALL_NT` script:

```
sh CLGM_INSTALL_NT
```

The install script spawns a Bourne shell and runs under it. The interactive program verifies the information you type and proceeds only if it is valid.

To stop the installation process, type a period (.) at any of the prompts.

The following table describes information required by the upgrade script.

Information	Description
SQL Account registration	Confirm (Y or N) whether the HP GL Migrator SQL account has been registered in Oracle E-Business Suite.
sql executable	For Windows only, the executable to use to make a command-line SQL*Plus connection. This could be <code>plus80</code> or <code>sqlplus</code> , depending on the toolset in use.
Username of GL Migrator sql account	The user name for the HP GL Migrator SQL account that was created and registered in Oracle E-Business Suite.
Password for GL Migrator sql account	The password for this SQL account.
Connect string for GL Migrator database	Specifies the database on which HP GL Migrator is being installed. <ul style="list-style-type: none"> • When using SQL*Net 1.x, type the entire two-task database connect string. For example, <code>T:dev_machine:MIGRATE</code> • When using SQL*Net 2.0 or higher, type the database identifier (usually the <code>ORACLE_SID</code>).
Tablespace for GL Migrator tables	All HP GL Migrator tables will go into the specified tablespace. The SQL account must have permissions to write to this tablespace.
Tablespace for GL Migrator indexes	All HP GL Migrator indexes will go into the specified tablespace. The SQL account must have permissions to write to this tablespace.
Username of APPS user	The user name for the Oracle E-Business Suite APPS account.
Password for APPS user	The password for this APPS account.

Following is an example for Windows, where:

- plus80 is to be used for command-line SQL*Plus connection.
- CLGM is the HP GL Migrator SQL account name and password.
- STAGE is the database connect string.
- CLGM_DATA is the previously created tablespace for HP GL Migrator tables.
- CLGM_NDX is the previously created tablespace for HP GL Migrator indexes.
- APPS is the APPS account SQL user name and password.

```
bash
sh CLGM_INSTALL_NT
Indicate whether the GL Migrator user is registered (type Y
if you are installing GL Migrator in the same account as
Object Migrator): Y
Command name used for invoking SQL*Plus: plus80
Username of GL Migrator sql account: CLGM
Password for CLGM sql account: CLGM (twice)
Connect String for GL Migrator Database: STAGE
Tablespace for GL Migrator tables: CLGM_DATA
Tablespace for GL Migrator indexes: CLGM_NDX
Username of APPS user: APPS
Password for APPS user: APPS (twice)
```

The HP GL Migrator install scripts perform the following actions:

- Create HP GL Migrator Application (application code = CLGM)
- Add the new application to all data groups that contain the FND application (using the OracleID in which HP GL Migrator was installed)
- Create database objects used by HP GL Migrator
- Create value sets and register concurrent programs used to run migrators and system maintenance and administration programs
- Create a limited number of grants and synonyms to the APPS account to facilitate request submission



All entity names created by the install scripts begin with `CLGM`. If an application with the name of `CLGM` already exists, contact HP Software Support.

The script sends log messages as standard output to the screen and saves the output to a log file named `clgm_log.out` in the current directory.

6. Review the output log file for errors. If unexpected errors are found, contact HP Software Support.

Post-Installation Tasks

To complete the tasks related to installation:

1. Install the HP GL Migrator executables required for HP GL Migrator version 9.12.
 - a. Navigate to the `CLGM_TOP/GLM_staging/CLGM_9_12/srw` directory.

The `srw` directory contains all of the current versions of HP GL Migrator programs.

- b. Copy or move the `.rdf` files from the `srw` folder to their permanent location `reports/US` under `CLGM_TOP`.
 - For UNIX:

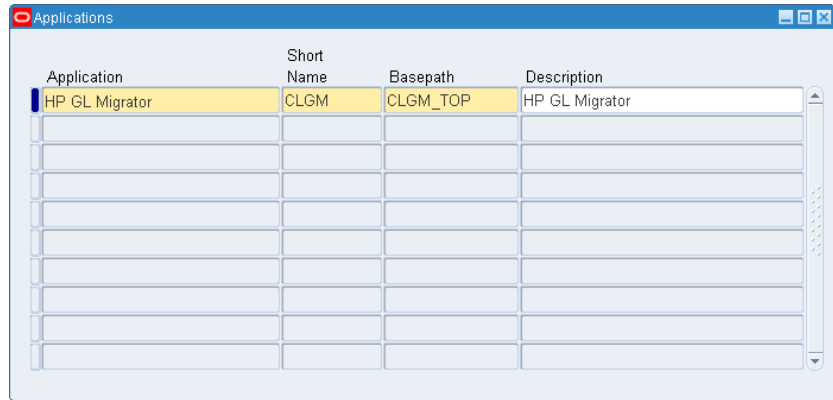
```
cp $CLGM_TOP/GLM_staging/CLGM_9_12/srw/*.rdf
   $CLGM_TOP/reports/US/
```
 - For Windows:

```
cp $CLGM_TOP\GLM_staging\CLGM_9_12\srw\*.rdf
   $CLGM_TOP\reports\US\
```

2. (Optional) The installation files are not needed for continued use of HP GL Migrator, but HP recommends that you save them.
3. Point HP GL Migrator to the correct basepath.

The installation program defaults to point the `CLGM` application to the `FND_TOP` area. Update this value to reference the `<PROD>_TOP` where HP GL Migrator is installed. To change the `CLGM` application to point to an existing directory structure:

- a. Navigate to the Register Application form.
- b. Query the application named HP GL Migrator.
- c. Change the **Basepath** field to point to the `<PROD>_TOP` environment variable for the CLGM application, namely `CLGM_TOP`, as shown in the following figure.



Application	Short Name	Basepath	Description
HP GL Migrator	CLGM	CLGM_TOP	HP GL Migrator

The installation of HP GL Migrator version 9.12 is now complete.

Oracle E-Business Suite must be configured before HP GL Migrator can be used to migrate data. See *Configuring Oracle E-Business Suite*.

Configuring Oracle E-Business Suite

After installing HP GL Migrator, you must configure Oracle E-Business Suite to work with HP GL Migrator. Configuration consists of the following major steps, which are discussed in detail:

- Create and test database links for each source and destination database.
- Register these database links with HP GL Migrator.
- Define security to access HP GL Migrator programs, including users, responsibilities, request groups, and so forth.
- Run the Maintain GL Migrator Views program.
- Run a test migration (or a simulation) to validate the installation.



The example given is a simplified case that assumes the system administrator will be able to access all HP GL Migrator functions. See [Configuring HP GL Migrator Security on page 97](#) for more information about security options.

Create and Register Database Links

To configure database links:

1. Make sure all the databases that you want to link to are specified in the `tnsnames.ora` file.
2. In the instance containing HP GL Migrator, using the SQL account under which HP GL Migrator was installed, create a database link to the `APPS` account of each remote database that will be a source or destination of migrations.



If this step has already been performed for HP Object Migrator, skip this step, because both HP GL Migrator and HP Object Migrator use the same SQL account.

For example, log on to the `STAGE` database as `CLM` and create the following links.

- Create a database link named `STAGE_LINK` from `STAGE` to `STAGE`:

```
SQL> create database link STAGE_LINK
2 connect to APPS identified by APPS/APPS
3 using 'STAGE';
```

```
APPS/APPS@STAGE
```

- Create a database link named `DVLP_LINK` from `STAGE` to `DVLP`:

```
SQL> create database link DVLP_LINK
2 connect to APPS identified by APPS/APPS
3 using 'DVLP';
```

```
APPS/APPS@DVLP
```

- Create a database link named `PILOT_LINK` from `STAGE` to `PILOT`:

```
SQL> create database link PILOT_LINK
2 connect to APPS identified by APPS/APPS
3 using 'PILOT';
```

```
APPS/APPS@PILOT
```

- Create a database link named `PROD_LINK` from `STAGE` to `PROD`:

```
SQL> create database link PROD_LINK
2 connect to APPS identified by APPS/APPS
3 using 'PROD';
```

```
APPS/APPS@PROD
```

3. Test each link by running the following:

```
SQL> select count(*) from fnd_user@<DB_Link_Name> where
rownum = 1;
```

4. If you have already installed HP Object Migrator and provided values for the `CLM_DATABASES` and `CLM_DB_LINKS` value sets, skip to the section [Add HP GL Migrator Concurrent Programs](#) on page 42.
5. Add a value to the `CLM_DATABASES` value set for each valid source or destination database.

This includes a value for the database in which HP Object Migrator is installed, if it is installed. Disable the value `1` if this value is not already disabled. The values must be pure numeric values (integers) with no leading zeroes.

- a. Select the **System Administrator** responsibility.
- b. Navigate to the Define Value Set Values form (**Application : Validation > Values**).
- c. Type `CLM_DATABASES` in the **Name** field of the **Find** section.
- d. Click **Find**.
- e. Query all the records in the **Values, Effective** tab.

This should bring up the following records:

- One representing the HP Object Migrator account (this value is initially disabled)
- One representing the object archive (for version control)
- One representing the Open Interface (this value is initially disabled)

This value set represents all the database instances between which entities will be migrated.

- f. Add records in the **Values, Effective** tab, one per database instance, as shown in the following figure. Include a value for the current database. The **Value** field must be a pure numeric value (integer). The **Description** field should identify the instance to users.

Value	Translated Value	Description	Enabled	From	To	[]
1	1	HP Object Migrator	<input type="checkbox"/>			
835	835	OA10 (11.10) Database - std	<input checked="" type="checkbox"/>			
840	840	VIS10 (11.10.2) Database - st	<input checked="" type="checkbox"/>			
850	850	VIS12 (R12) Database - std D	<input checked="" type="checkbox"/>			
860	860	VIS1211 (R12.1.1) Database -	<input checked="" type="checkbox"/>			
900	900	Object Archive	<input checked="" type="checkbox"/>			
950	950	Open Interface	<input type="checkbox"/>			

6. For each database link, add a value to the CLM_DB_LINKS value set. For the descriptions, use the exact database link names.

This value set represents all the database links that have been created.

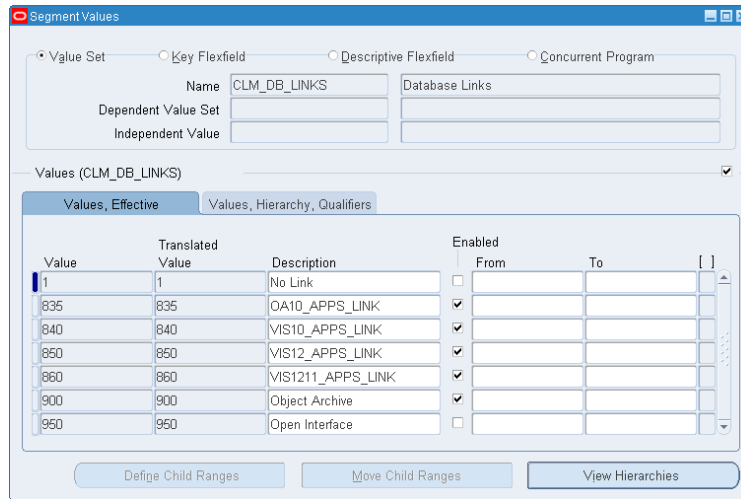
- a. Select the **System Administrator** responsibility.
- b. Navigate to the Define Value Set Values form (**Application : Validation > Values**).
- c. Type **CLM_DB_LINKS** in the **Name** field of the **Find** section.
- d. Click **Find**.
- e. Query all the records in the **Values, Effective** tab.

This should bring up three records.

- f. Add and enable all the database links created in the prior steps, as shown in the following figure.

Use the same numbers in the **Value** column that were used for the corresponding databases in the CLM_DATABASES value set. The values must be pure numeric values (integers).





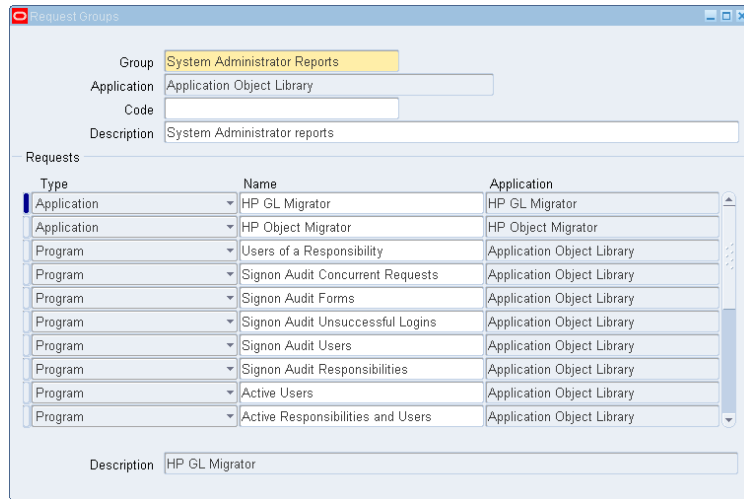
Add HP GL Migrator Concurrent Programs

Add the concurrent programs defined for each of the migrators and the system administration and maintenance programs to the appropriate request security group(s). Add programs one by one or attach the entire CLGM application to the Request Security Group.

For a summary of the migrators and the system administration and maintenance programs, see *HP GL Migrator Concurrent Programs* on page 16 and *Reports Overview* on page 20.

For example, to allow the system administrator to run all the HP GL Migrator programs, add the HP GL Migrator concurrent programs to the System Administrator Reports request group as follows:

1. Navigate to the Define Request Security Group form (**Security : Responsibility > Request**).
2. Query a request group named **System Administrator Reports**.
3. On the **Requests** tab, insert a record by clicking **New** from the toolbar.
4. Select **Application** in the **Type** field and select **HP GL Migrator** as the application, as shown in the following figure.



Alternatively, you can add individual programs rather than the HP GL Migrator application.

Run the Maintain HP GL Migrator Views Program

The Maintain GL Migrator Views program defines the views used by some HP GL Migrator parameters when submitting HP GL Migrator migrations.

To keep the HP GL Migrator views current with the number and statuses of the databases, this program should be scheduled to run periodically.

HP recommends running it once a day. For details regarding the support of these views, see [Using HP GL Migrator Views on page 89](#).

To run the Maintain GL Migrator Views program:

1. If you will be migrating to or from more than four databases, HP recommends increasing the value for the `open_links` database parameter to 20. After making any change, restart the database. For more information, see [open_links Database Parameter for Database Access on page 92](#).
2. Navigate to the Submit Requests form (**Other > Requests > Run**).
3. Type or select the request name in the **Name** field.

4. Run the Maintain GL Migrator Views program with the **Report Only** field set to **2 (No)**. This re-creates the HP GL Migrator views based on the currently enabled values in the `CLM_DATABASES` and `CLM_DB_LINKS` value sets and the current statuses of the remote databases.
5. Make sure to view the report output of this program. The output lists all the databases enabled for use with HP GL Migrator and any errors encountered while trying to connect to these databases.

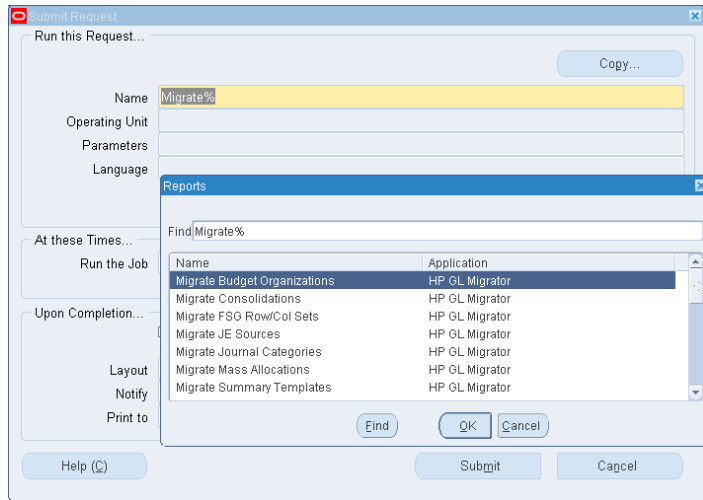
Validate Installation

To validate the installation, launch one of the HP GL Migrator programs. Set the **Run Type** parameter to **Migration** or, if you do not want to perform an actual migration, set it to **Simulation**.

For example:

1. Log on to the Oracle E-Business Suite in the STAGE database and select the **System Administrator** responsibility.
2. Navigate to the Submit Requests form (**Other > Requests > Run**).
3. Type or select the request name in the **Name** field.
4. Type `migrate%` in the **Name** field and click **Submit**.

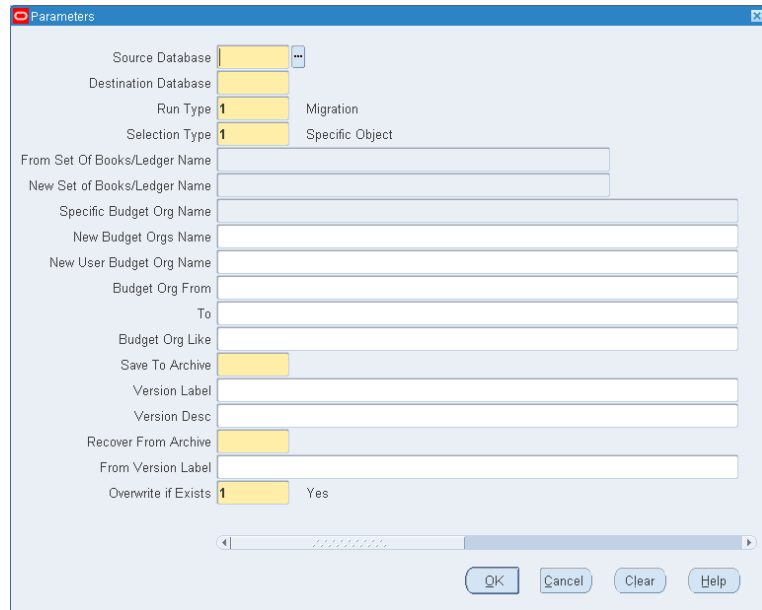
This brings up all the HP GL Migrator programs, as shown in the following figure.



5. Select **Migrate Budget Organizations**.

This opens up the Parameters window.

6. Select source and destination databases and complete other information, as shown in the following figure.



In the following example, HP GL Migrator migrates a budget organization named Federal Budget from the DVLP database to the PROD database.

Source Database	30	DVLP Database
Destination Database	50	PROD Database
Run Type	1	Migration
Selection Type	1	Specific Object
From Set Of Books/Ledger Name	HP US Federal	HP US Federal Set of Bo
New Set of Books/Ledger Name	HP US Federal	US Federal Set of Books
Specific Budget Org Name	Federal Budget	
New Budget Orgs Name		
New User Budget Org Name		
Budget Org From		
To		
Budget Org Like		
Save To Archive	2	No
Version Label		
Version Desc		
Recover From Archive	2	No
From Version Label		
Overwrite if Exists	1	Yes

7. Submit the migration and monitor the concurrent program.

At the end of the run, HP GL Migrator produces a report with the results of the migration.

8. Verify that the migration completed successfully.

HP GL Migrator version 9.12 is now ready to use. Optional configuration procedures are described in [Chapter 5, *Optional Configurations for HP GL Migrator*](#), on page 57.

For information about using HP GL Migrator with PPM Center and the HP Deployment Management Extension for Oracle E-Business Suite, see [Chapter 10, *Using HP GL Migrator with HP Deployment Management*](#), on page 123.

If your company previously used HP Object Migrator to migrate FSG Row/Col Sets, see [Preparing to Use the FSG Row/Col Sets Migrator in HP GL Migrator on page 56](#) for information about using only HP GL Migrator version 9.12 to perform FSG Row/Col Sets migrations in the future. The information in that section applies to both new installations of and upgrades to HP GL Migrator version 9.12.

4 Upgrading HP GL Migrator

Overview of the Upgrade Process



In general, HP GL Migrator should be upgraded to version 9.12 as part of a series of product upgrades that must be performed in a particular sequence. For more information, see the *Release Notes* for the appropriate version of PPM Center.

This chapter describes upgrade activities that are to be performed by administrators, who are not necessarily the end users of HP GL Migrator.

The HP GL Migrator version 9.12 upgrade procedure copies various entities into the Oracle E-Business Suite (Oracle Applications) database. For a list and description of those entities, see *HP GL Migrator Concurrent Programs* on page 16 and *Reports Overview* on page 20.

For information about supportability of HP GL Migrator version 9.12 with various releases of Oracle E-Business Suite and with various versions of PPM Center and HP Object Migrator, see:

- *Supportability* on page 21
- *System Requirements and Compatibility Matrix* for the appropriate version of PPM Center

Upgrade consists of the following major steps:

- Verifying that system requirements are met
- Backing up the current HP GL Migrator files
- Creating the staging HP GL Migrator directory for the upgrade
- Downloading and upgrading the software
- Post-upgrade cleanup and verification

Upgrade Impacts for HP GL Migrator Version 9.12

HP GL Migrator version 9.12 adds the capabilities described in *New Features Overview* on page 13, including a new version of the Migrate FSG Row/Col Sets program that has previously been provided only in HP Object Migrator. For detailed information about the FSG migrator, see *Migrate FSG Row/Col Sets Migrator* on page 114.

If your company previously used HP Object Migrator to migrate FSG Row/Col Sets, see *Preparing to Use the FSG Row/Col Sets Migrator in HP GL Migrator* on page 56 for information about using only HP GL Migrator version 9.12 to perform FSG Row/Col Sets migrations in the future.

Upgrade Requirements

To understand the requirements to upgrade to HP GL Migrator version 9.12, review *Chapter 2, Installation and Upgrade Requirements*, on page 21.

HP GL Migrator Upgrade Directories

The main directories associated with upgrading HP GL Migrator to version 9.12 include:

- **The current HP GL Migrator directory**

The current HP GL Migrator directory is the directory where the current version of HP GL Migrator resides. HP GL Migrator might be installed in its own `<PROD>_TOP` directory (such as `CLGM_TOP`), or HP GL Migrator might share a `<PROD>_TOP` directory with an existing application.

In this document, `CLGM_TOP` is the environment variable used to represent the location where HP GL Migrator is installed.

- **The staging HP GL Migrator directory**

The staging HP GL Migrator directory is the location to which you will download the HP GL Migrator version 9.12 upgrade bundle. The staging HP GL Migrator directory should be a different directory than the current HP GL Migrator directory. HP recommends using a subdirectory under `CLGM_TOP` for the staging HP GL Migrator directory.

In this document, `GLM_upg_staging` is used as an example of the staging HP GL Migrator directory for upgrade. You will create this directory before downloading the HP GL Migrator version 9.12 upgrade bundle.

- **The upgrade HP GL Migrator directory**

The upgrade HP GL Migrator directory is created when you unzip the downloaded upgrade bundle, and it is where most of the HP GL Migrator upgrade scripts and libraries will then reside.

As described in the upgrade procedure, unzipping the downloaded upgrade bundle creates the upgrade HP GL Migrator directory and other directories under the staging directory. For example, in this document, `CLGM_TOP/GLM_upg_staging/CLGM_UPG_9_12/upg` represents the upgrade HP GL Migrator directory.

Upgrading HP GL Migrator

This section details how to upgrade to HP GL Migrator version 9.12. Each step distinguishes between UNIX and Windows as needed.

Before starting the upgrade, carefully review the following:

- [Chapter 2, *Installation and Upgrade Requirements*, on page 21](#)
- This entire chapter

Prepare to Run the Upgrade Script



If the application short name for HP GL Migrator in Oracle E-Business Suite applications is not `CLGM` or if Oracle E-Business Suite already has an existing non-HP application with a short name of `CLGM`, *stop. Do not proceed.* Contact HP Software Support.

To prepare to upgrade HP GL Migrator:

1. Before upgrading the current version of HP GL Migrator, back up the current version of the HP GL Migrator files (such as `.rdf` files) and the database where HP GL Migrator is installed.
2. Create the staging HP GL Migrator directory (`CLGM_TOP/GLM_upg_staging` is the example used in this document) for the upgrade:

- For UNIX:

```
mkdir /u1/stageappl/CLGM_TOP/GLM_upg_staging
```

- For Windows:

```
mkdir d:\stageappl\CLGM_TOP\GLM_upg_staging
```

3. Download `CLGM_UPG_912.zip`, the HP GL Migrator version 9.12 upgrade bundle (file) to the staging directory (see *HP GL Migrator Upgrade Directories*).
4. From the staging HP GL Migrator directory, unzip the HP GL Migrator version 9.12 upgrade bundle files, using the following command:

```
unzip CLGM_UPG_912.zip
```

This creates the following subdirectories under the staging directory (`GLM_upg_staging`):

- `CLGM_UPG_9_12\upg`, which contains all the upgrade scripts needed to upgrade HP GL Migrator (for all releases of Oracle E-Business Suite supported by HP GL Migrator version 9.12)
- `CLGM_UPG_9_12\upg\r11`, which contains support files
- `CLGM_UPG_9_12\srw`, which contains all of the Oracle Reports `.rdf` executables for HP GL Migrator version 9.12

5. Set the Oracle E-Business Suite applications context, as required.

For example, for UNIX:

```
cmd d:\stageappl\envshell.cmd
```

6. Determine the current HP GL Migrator version.
 - a. In the command shell, navigate to the `CLGM_TOP/GLM_upg_staging/CLGM_UPG_9_12/upg` directory.
 - b. Connect to the database containing the current installation of HP GL Migrator as the Oracle user who owns HP GL Migrator (for example, CLGM).
 - c. Run the `CLGM_REL_INFO.sql` script in the `CLGM_UPG_9_12/upg` directory. This script outputs the current HP GL Migrator version.

For example:

```
% SQL > @CLGM_REL_INFO.sql
```



To perform the upgrade, the currently installed version of the migrator must be Mercury GL Migrator version 6.0. If an older version of Mercury GL Migrator is installed, *stop. Do not proceed.* Contact HP Software Support.

Run the Upgrade Script

To run the upgrade script:

1. Start a command shell and set the applications context, if required.

For example:, for UNIX

```
cmd d:\stageappl\envshell.cmd
```

2. Navigate to the directory with the upgrade script as follows:
 - For UNIX:

```
cd d:/stageappl/CLGM/GLM_upg_staging/CLGM_UPG_9_12/upg
```
 - For Windows:

```
cd d:\stageappl\CLGM\GLM_upg_staging\CLGM_UPG_9_12\upg
```

3. If the environment supports bash, start a bash shell. In environments where MKS Toolkit is in use, this is not required, but MKS must be in the user's path.
4. Run the upgrade script.

- For UNIX, run the `CLGM_UPG_9_12` script.

```
sh CLGM_UPG_9_12
```

- For Windows, run the `CLGM_UPG_9_12_NT` script:

```
sh CLGM_UPG_9_12_NT
```

The upgrade script spawns a Bourne shell and runs under it. The interactive program verifies the information you type and proceeds only if it is valid. For example, the upgrade program tries to connect to the database using the user name and password you type.

To stop the upgrade process, type a period (.) at any of the prompts.

The following table describes information required by the upgrade script.

Information	Description
sql executable	For Windows only, the executable to use to make a command-line SQL*Plus connection. This could be <code>plus80</code> or <code>sqlplus</code> , depending on the toolset in use.
Username of GL Migrator sql account	The user name for the HP GL Migrator SQL account that was created and registered in Oracle E-Business Suite.
Password for GL Migrator sql account	The password for this SQL account.
Connect string for GL Migrator database	Specifies the database on which HP GL Migrator is being upgraded. <ul style="list-style-type: none"> • When using SQL*Net 1.x, type the entire two-task database connect string. For example, <code>T:dev_machine:MIGRATE</code> • When using SQL*Net 2.0 or higher, type the database identifier (usually the <code>ORACLE_SID</code>).

Information	Description
Tablespace for GL Migrator tables	All HP GL Migrator tables will go into the specified tablespace. Note: The SQL account must have permissions to write to this tablespace.
Tablespace for GL Migrator indexes	All HP GL Migrator indexes will go into the specified tablespace. Note: The SQL account must have permissions to write to this tablespace.
Username of APPS user	The user name for the Oracle E-Business Suite APPS account.
Password for APPS user	The password for this APPS account.

Following is an example for Windows, where:

- CLGM is the HP GL Migrator SQL account name and password.
- STAGE is the database connect string.
- CLGM_DATA is the tablespace for HP GL Migrator tables.
- CLGM_NDX is the tablespace for HP GL Migrator indexes.
- APPS is the APPS account SQL user name and password.

```
sh CLGM_UPG_9_12_NT
Type the command name(sqlplus/plus80/plus33) used for
invoking SQL*Plus (. to exit): sqlplus
Type username of GL Migrator sql account (. to exit): CLGM
Type the password for CLGM sql account (. to exit): CLGM
<<does not print>>
Please reenter for verification: CLGM <<does not print>>
Please type the connect string (ex. PROD, DEV, etc.) for the
GL Migrator database. : STAGE
Verifying Username and Password, Please wait.... successful
Type the tablespace for the GL Migrator tables (. to exit):
CLGM_DATA
Verifying tablespace, Please wait....successful
Type the tablespace for the GL Migrator indexes (. to exit):
CLGM_NDX
Verifying tablespace, Please wait....successful
Type username of APPS user - usually APPS (. to exit): APPS
Type the password for APPS user (. to exit): APPS <<does not
print>>
Please reenter for verification: APPS <<does not print>>
Verifying Username and Password, Please wait.... successful
```

The script sends log messages as standard output to the screen, and saves the output to a log file named `clgm_upg_9_12.out` in the current directory.

5. Review the upgrade output log file for errors. If unexpected errors are found, contact HP Software Support.

Post-Upgrade Tasks

To complete the tasks related to upgrade:

1. Install the HP GL Migrator executables required for HP GL Migrator version 9.12.
 - a. Navigate to the `CLGM_TOP/GLM_upg_staging/CLGM_UPG_9_12/srw` directory.

The `srw` directory contains all of the current versions of HP GL Migrator programs.

- b. Copy or move the `.rdf` files from the `srw` folder to their permanent location `reports/US` under `CLGM_TOP`. These new files replace all existing HP GL Migrator `.rdf` files.
 - For UNIX:

```
cp $CLGM_TOP/GLM_upg_staging/CLGM_UPG_9_12/srw/*.rdf
   $CLGM_TOP/reports/US/
```
 - For Windows:

```
cp $CLGM_TOP\GLM_upg_staging\CLGM_UPG_9_12\srw\*.rdf
   $CLGM_TOP\reports\US\
```

2. Verify the database settings.

Select the setting of the `open_links` database parameter:

```
select value from v$parameter where name='open_links' ;
```

The `open_links` database parameter controls the maximum number of databases among which you can migrate data. The default value is 4. If you expect to ever migrate to or from more databases than the current setting, HP recommends increasing the value for the `open_links` database parameter to 20. After making any change, you must shut down and restart the database. For more information, see [open_links Database Parameter for Database Access](#) on page 92.

3. Re-create the GL Migrator views. In Oracle E-Business Suite applications, run the Maintain GL Migrator Views program with the **Report Only** field set to **2 (No)** to refresh the view definition. Schedule this program to run periodically to keep the HP GL Migrator views current with the number and status of databases. HP recommends running it once a day. For information regarding the support of these views, see *Using HP GL Migrator Views on page 89*.



Be sure to review the report output of this program. The output lists all the databases enabled for use with HP GL Migrator, and any errors encountered while trying to connect to these databases.

4. The upgrade process sets HP GL Migrator in Validated mode for the specific GL parameter. If you are using HP GL Migrator in Non-Validated mode, you must rerun `CLGMMBS9.sql` (under the HP GL Migrator `install` directory). See *Switching Between Non-Validated Mode and Validated Mode on page 91* for details regarding Validated Mode and Non-Validated Mode.
5. Oracle recommends periodically recompiling all the descriptive flexfields. To recompile the descriptive flexfields:
 - a. Log on to the Oracle E-Business Suite instance that hosts HP GL Migrator as the owner of the Oracle file system, typically `applmgr`.
 - b. Run the `fdfcmp` command using the syntax appropriate for the installed Oracle E-Business Suite release.

For example:

```
$FND_TOP/bin/fdfcmp apps/<Apps_Passwd> 0 Y
```

The upgrade to HP GL Migrator version 9.12 is now complete.

If your company previously used HP Object Migrator to migrate FSG Row/Col Sets, see *Preparing to Use the FSG Row/Col Sets Migrator in HP GL Migrator* for information about using only HP GL Migrator version 9.12 to perform FSG Row/Col Sets migrations in the future.

For information about using HP GL Migrator with PPM Center and the HP Deployment Management Extension for Oracle E-Business Suite, see *Chapter 10, Using HP GL Migrator with HP Deployment Management, on page 123*.

Preparing to Use the FSG Row/Col Sets Migrator in HP GL Migrator

The FSG Row/Col Sets migrator that has been included in the past with HP Object Migrator supports Oracle E-Business Suite Release 11i but not Release 12. The updated FSG Row/Col Sets migrator that is included in HP GL Migrator version 9.12 supports both Release 11i and Release 12, and its concurrent program is registered under the HP GL Migrator application in Oracle E-Business Suite.

If your company previously archived FSG Row/Col Sets data using HP Object Migrator and you want to use only one migrator to support both Oracle Releases 11i and 12 from now on, then after installing or upgrading to HP GL Migrator version 9.12, you must manually migrate the data from the HP Object Migrator FSG archive tables to the new HP GL Migrator FSG archive tables and begin using only the FSG Row/Col Sets migrator in HP GL Migrator version 9.12.

Table 4-1 shows the names of the FSG archive tables in HP Object Migrator version 7.5 and the names of the corresponding archive tables provided in HP GL Migrator version 9.12. The table names are identical except that in HP Object Migrator the names begin with `CLM` and in HP GL Migrator they begin with `CLGM`.

Table 4-1. FSG tables in HP Object Migrator and HP GL Migrator

Table Names in HP Object Migrator	Table Names in HP GL Migrator
CLM_REP_AXES_ARCH	CLGM_REP_AXES_ARCH
CLM_REP_AXIS_CONTENTS_ARCH	CLGM_REP_AXIS_CONTENTS_ARCH
CLM_REP_AXIS_SETS_ARCH	CLGM_REP_AXIS_SETS_ARCH
CLM_REP_CALCULATIONS_ARCH	CLGM_REP_CALCULATIONS_ARCH
CLM_REP_EXCEPTIONS_ARCH	CLGM_REP_EXCEPTIONS_ARCH
CLM_REP_EXCEPT_FLAGS_ARCH	CLGM_REP_EXCEPT_FLAGS_ARCH

5 Optional Configurations for HP GL Migrator

Optional Setup Procedures

This chapter describes optional configurations that can be established after HP GL Migrator has been installed or upgraded.

Setting Up a Separate Responsibility for Migrations

You can set up a separate responsibility just to perform the migrations and then assign this responsibility to specific users, as described in the following sections.

Create a Custom Menu

Create a custom menu as follows:

1. Log on to the Oracle E-Business Suite instance that hosts HP GL Migrator as the owner of the Oracle file system, typically `app1mgr`.
2. Select the **System Administrator** responsibility.
3. Navigate to the Define Menu form (**Application > Menu**).

4. Create a new menu named **CLGM_MIGRATE** as shown in the following figure.

Add the Run Reports and View All Concurrent Requests forms to the menu. This allows users to submit HP GL Migrator requests and view the results.

The screenshot shows the 'Menus' configuration window. The 'Menu' field is 'CLGM_MIGRATE', 'User Menu Name' is 'CLGM_MIGRATE', and 'Description' is 'HP GL Migrator Menu'. Below is a table with columns: Seq, Prompt, Submenu, Function, Description, and Grant.

Seq	Prompt	Submenu	Function	Description	Grant
1	Migrate		Run Reports	Migrate GL Entities	<input checked="" type="checkbox"/>
2	View Reports		View All Concurrent Requi	View Migrations	<input checked="" type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>

5. Create another new menu named **CLGM_MAIN** as shown in the following figure.

Add the **CLGM_MIGRATE** menu as a menu entry. This becomes the main navigation menu for the new responsibility.

The screenshot shows the 'Menus' configuration window. The 'Menu' field is 'CLGM_MAIN', 'User Menu Name' is 'CLGM_MAIN', and 'Description' is 'HP GL Migrator Main Menu'. Below is a table with columns: Seq, Prompt, Submenu, Function, Description, and Grant.

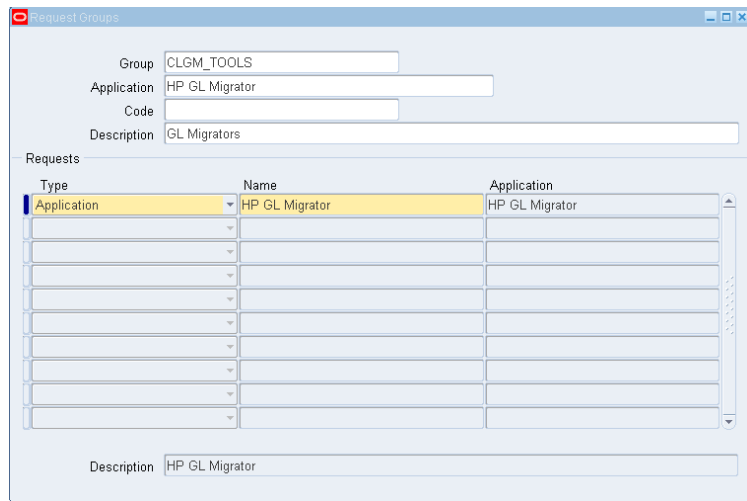
Seq	Prompt	Submenu	Function	Description	Grant
1	Navigate	CLGM_MIGRATE		CLGM_MIGRATE	<input checked="" type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>

Create a Custom Request Group

Create a custom request group as follows:

1. Navigate to the Define Request Groups form (**Security : Responsibility > Request**).
2. Create a new request group named **CLGM_TOOLS** as shown in the following figure.

Add HP GL Migrator programs to the request group. Add either individual programs if the group should include limited functionality, or the HP GL Migrator application if all programs will be allowed.



The screenshot shows a web form titled "Request Groups". The form contains the following fields and sections:

- Group:** CLGM_TOOLS
- Application:** HP GL Migrator
- Code:** (empty)
- Description:** GL Migrators
- Requests:** A table with columns "Type", "Name", and "Application". The first row is highlighted in yellow and contains "Application", "HP GL Migrator", and "HP GL Migrator". There are several empty rows below it.
- Description:** HP GL Migrator

Create a Custom Responsibility

Create a custom responsibility as follows:

1. Navigate to the Define Responsibility form (**Security : Responsibility > Define**).
2. Define a new responsibility named **HP GL Migrator** as shown in the following figure.

Add the menu and the request group defined in [Create a Custom Menu on page 57](#) and [Create a Custom Request Group on page 59](#). Alternatively, include a standard menu and define explicit menu exclusions.

Type	Name	Description
Function		

Configure Access to HP GL Migrator Programs

Configure access to HP GL Migrator programs as follows:

1. Navigate to the Define Concurrent Programs form (**Concurrent : Program > Define**).
2. Modify default values as desired.
3. If there are HP GL Migrator programs that are not in use, disable them to prevent them from appearing in select lists.
4. If different groups of users should have different access to a program, copy the program and modify it appropriately.

See *Setting Up an Unrestricted Migrator* on page 61 for a sample of these types of changes.

Assign the Custom Responsibility to Users

Assign the new custom responsibility to users as follows:

1. Navigate to the Define Application User form (**Security : User > Define**).
2. Assign the new **HP GL Migrator** custom responsibility defined in *Create a Custom Responsibility on page 59* to the users who will perform the migrations, as shown in the following figure.

The screenshot shows the 'Define Application User' form for user 'SYSADMIN'. The user's description is 'System Administrator'. The 'HP GL Migrator' responsibility is assigned to the user, with an effective date of '09-JUN-2011'. The table below shows the list of responsibilities assigned to the user.

Responsibility	Application	Description	Security Group	Effective Dates From	Effective Dates To
Application Developer	Application Object Libi		Standard	15-MAY-2000	
HP GL Migrator	HP GL Migrator		Standard	09-JUN-2011	
Workflow Administrator Web	Application Object Libi		Standard	06-MAY-2002	
Workflow User Web Applicati	Application Object Libi		Standard	06-NOV-2001	
Functional Developer	Application Object Libi		Standard	16-DEC-2003	

Setting Up an Unrestricted Migrator

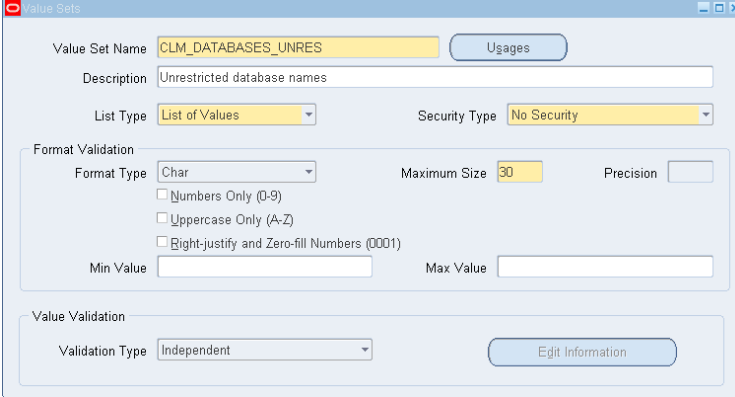
The procedures in this section configure an “unrestricted” migrator that allows users to migrate entities among all the non-critical database instances but *not* among the critical database instances such as production database instances. (In that context, the migrator is not totally unrestricted.)

To accomplish this, create a new set of concurrent programs by copying the existing HP GL Migrator programs and changing the value sets behind the parameters for each of the programs. The steps are described in the following sections.

Create a New Value Set

Create a new value set as follows:

1. Create a new value set named **CLM_DATABASES_UNRES** by copying the existing value set named **CLM_DATABASES**, as shown in the following figure.



The screenshot shows the 'Value Sets' configuration window. The 'Value Set Name' is 'CLM_DATABASES_UNRES'. The 'Description' is 'Unrestricted database names'. The 'List Type' is 'List of Values'. The 'Security Type' is 'No Security'. Under 'Format Validation', the 'Format Type' is 'Char', 'Maximum Size' is '30', and 'Precision' is empty. There are three unchecked checkboxes: 'Numbers Only (0-9)', 'Uppercase Only (A-Z)', and 'Right-justify and Zero-fill Numbers (0001)'. 'Min Value' and 'Max Value' are empty. Under 'Value Validation', the 'Validation Type' is 'Independent'. There is an 'Edit Information' button.

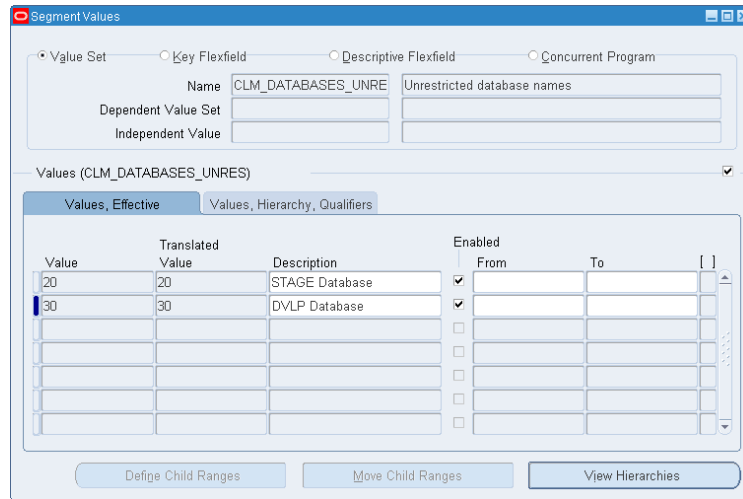
2. Remove the databases that are considered to be critical from the **CLM_DATABASES_UNRES** value set.

In this example, assume that **PILOT** and **PROD** are critical databases and **STAGE** and **DVLP** are not critical, so that **STAGE** and **DVLP** are the only databases in the value set.

The values in this new value set must match the values in the original value set for each database entered.

Also, access to the entity archive is not to be allowed (that is, the unrestricted migrator will not have version control capability).

After this step, the value set should look like the ones shown in the following figure.



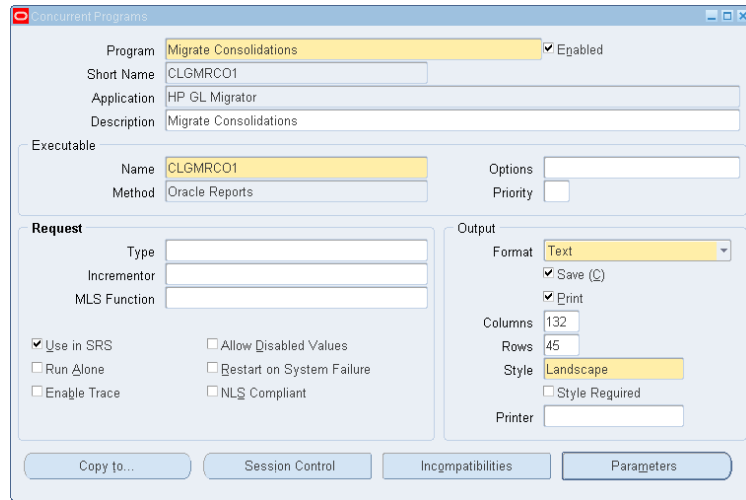
Create New Concurrent Programs

In this section we copy all the existing HP GL Migrator concurrent programs to create identical concurrent programs for the unrestricted migrator. HP GL Migrator consists of many concurrent programs. In this section we explain setting up one of the concurrent programs as an “unrestricted” program. You can follow the same steps for all the other programs to complete the task.

Find all the concurrent programs that belong to HP GL Migrator as follows:

1. Navigate to the Define Concurrent Programs form (**Concurrent : Program > Define**).
2. Query **HP GL Migrator** in the Application field.
3. Use the **<Down Arrow>** key to review all the concurrent programs that belong to HP GL Migrator.

This example uses the Migrate Consolidations program (short name CLGMRCO1) to set up a Migrate Consolidations - Unrestricted program (short name CLGMRCO1_UNRES), as shown in the following figure.



4. If the Oracle E-Business Suite release supports the **Copy to** button, use it to create a copy of CLGMRC01 named CLGMRC01_UNRES .

If the Oracle E-Business Suite release does not support Copy To functionality, copy CLGMRC01 to CLGMRC01_UNRES using the Concurrent Programs Migrator as follows:

- a. Navigate to the Submit Requests form (**Other > Requests > Run**).
- b. Launch the Migrate Concurrent Programs migrator as shown in the following figure.

Source Database	20	STAGE
Dest Database	20	STAGE
Source Application	HP GL Migrator	
Dest Application	HP GL Migrator	
Selection Type	1	Specific Object
Specific Conc Program	CLGMRCO1	
New Conc Program Short Name	CLGMRCO1_UNRES	
New User Program Name	Migrate Consolidations - Unrestricted	
Conc Program From		
Conc Program To		
Conc Program Like		
Save To Archive	2	No
Version Label		
Version Desc		
Recover From Archive	2	No
From Version Label		
Overwrite if Exists	1	Yes
Partial Allowed	2	No
Report Only	2	No

5. **If you have HP GL Migrator installed**, launch Migrate Concurrent Programs and complete the parameters as shown in the example in the following figure to copy CLGMRCO1 to a new program named CLGMRCO1_UNRES .

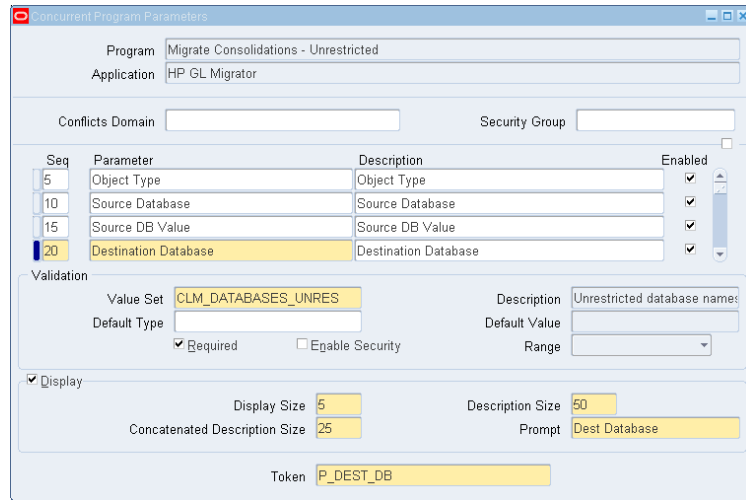
If you do not have HP GL Migrator installed, you can use the Copy Concurrent Program form in Oracle E-Business Suite to create a copy of CLGMRCO1 and then update the description of the new concurrent program CLGMRCO1_UNRES .

Source Database	30	DVL Database
Dest Database	50	PROD Database
Source Application	HP GL Migrator	
Dest Application	HP GL Migrator	
Selection Type	1	Specific Object
Specific Conc Program	CLGMRCO1	
New Conc Program Short Name	CLGMRCO1_UNRES	
New User Program Name	Migrate Consolidations - Unrestricted	
Conc Program From		
Conc Program To		
Conc Program Like		
Save To Archive	2	No
Version Label		
Version Desc		
Recover From Archive	2	No
From Version Label		
Overwrite if Exists	1	Yes
Partials Allowed	2	No
Default Value		

Assign the New Value Set

Assign the new value set to the new concurrent programs as follows:

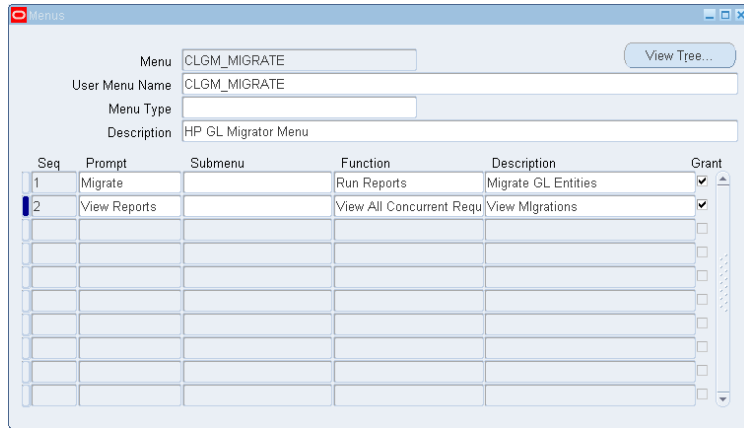
1. Navigate to the Define Concurrent Programs form (**Concurrent : Program > Define**).
2. Query for the new concurrent program CLGMRCO1_UNRES .
3. Click **Parameters**.
4. Change the value set associated with the **Destination Database** parameter from **CLM_DATABASES** to **CLM_DATABASES_UNRES**, as shown in the following figure.



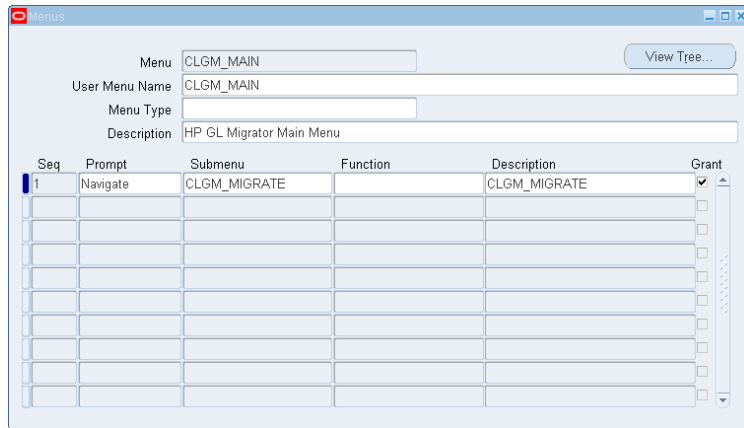
Create a Custom Menu

Create a custom menu as follows:

1. Log on to the Oracle E-Business Suite instance that hosts HP GL Migrator as the owner of the Oracle file system, typically `app1mgr`.
2. Select the **System Administrator** responsibility.
3. Navigate to the Define Menu form (**Application : Menu**).
4. Create a new menu named **CLGM_MIGRATE**, as shown in the following figure.
5. Add the Run Reports and View All Concurrent Requests forms to the menu. This allows users to submit HP GL Migrator requests and view the results.



6. Create another new menu named **CLGM_MAIN**, as shown in the following figure.
7. Add the **CLGM_MIGRATE** menu as a menu entry. This becomes the main navigation menu for the new responsibility.



Create a Custom Request Group

To create a custom request group for the unrestricted migrator:

1. Navigate to the Define Request Groups form
(**Security : Responsibility > Request**).
2. Create a new request group named **CLGM_TOOLS_UNRESTRICTED**, as shown in the following figure.

Associate all the unrestricted migrator concurrent programs we defined to this request group.

Type	Name	Application
Program	Migrate Consolidations - Unrestricted	HP GL Migrator

Create a Custom Responsibility

Create a custom responsibility as follows:

1. Navigate to the Define Responsibility form
(**Security : Responsibility > Define**).
2. Create a new responsibility named **HP GL Migrator - Unrestricted**, as shown in the following figure.

Associate the new request group **CLGM_TOOLS_UNRESTRICTED** to this responsibility.

Responsibility Name: HP GL Migrator - Unrestricted
 Application: HP GL Migrator
 Responsibility Key: HPGLM_UNRES
 Description: Unrestricted HP GL Migrator Responsibil
 Effective Dates: From 09-JUN-2011
 Available From: Oracle Applications
 Menu: CLGM_MAIN
 Data Group: Name Standard, Application System Administration
 Request Group: Name CLGM_TOOLS_UNRESTRICTED, Application HP GL Migrator

Type	Name	Description
Function		

Assign the Custom Responsibility to Users

Assign the new custom responsibility to users as follows:

1. Navigate to the Define Application User form (**Security : User > Define**).
2. Assign the new **HP GL Migrator - Unrestricted** responsibility to the users who will perform the migrations, as shown in the following figure.

User Name: DEVELOPER
 Password:
 Description: Customization Developer
 Password Expiration: Days, Accesses, None
 Person:
 Customer:
 Supplier:
 E-Mail:
 Fax:
 Effective Dates: From 09-JUN-2011

Responsibility	Application	Description	Security Group	Effective Dates From	To
HP GL Migrator - Unrestricted	HP GL Migrator	Unrestricted HP GL	Standard	09-JUN-2011	

These users can now migrate entities among all the non-critical database instances, whereas the users who have the **HP GL Migrator** responsibility can migrate entities among both the critical and non-critical database instances.

Using HP GL Migrator Without the Distributed Database Option

You can use HP GL Migrator without the Distributed Database Option, but HP does *not* recommend it.



When HP GL Migrator is used with HP Deployment Management, the Distributed Database Option is required.

When running HP GL Migrator with a destination database other than the current instance, HP GL Migrator will attempt to insert, delete, and update data using database links. This is not allowed by Oracle without the Distributed Database Option.

To work around this restriction, you must install HP GL Migrator on each of the instances that can potentially be a destination database. Then, whenever an entity is to be moved to a given database, log on to that destination database and run HP GL Migrator there, setting the destination database to be the current database. The source database can be a remote database because HP GL Migrator queries data from only the source database (that is, no inserts, updates, or deletes) and Oracle allows queries across database links even without the Distributed Database Option.

Because the Distributed Database Option is required to execute database link inserts, updates, or deletes even on the same database, do one of the following when installing HP GL Migrator on an instance:

- Install HP GL Migrator into the `APPS` account, enable value **1** in `CLM_DATABASES` (when selecting this value, HP GL Migrator will not use any database link), and use **Current Database** for its description.



The privileges of the `APPS` account might need to be extended to allow creating tables and indexes.

- Install HP GL Migrator in a custom account, and instead of creating a link to the `APPS` account, grant all the appropriate objects from `APPS` to the custom account. Contact HP Software Support for a sample script to execute these grants. Then, enable value **1** in `CLM_DATABASES` and rename it to **Current Database**.

6 Using HP GL Migrator

User Configuration

For an introduction to HP GL Migrator, see *Introduction to HP GL Migrator* on page 11.

To run HP GL Migrator, the administrator must provide you with an Oracle Application User ID and Password and assign that User ID the appropriate responsibilities with access to the Submit Requests form that runs HP GL Migrator.

Entity Values

You can obtain a list of values for an entity name based on the values you have entered for **Source Database** and the **From Source Set of Books/Ledger Name**. This is accomplished using views that look at all the databases you have set up for use by HP GL Migrator. If any of these databases are down, the list of values fails. In that case, the HP GL Migrator administrator must run the Maintain GL Migrator Views program to re-create the views, omitting the problem database. There is a slight performance impact the first time you use an entity view in a session, but then there should not be any significant delays.

For example, *Figure 6-1* and *Figure 6-2* show the Migrate Budget Organizations program in the Submit Requests form and some of the parameters.

Figure 6-1. Submit Requests form

The screenshot shows the 'Submit Request' window with the 'Reports' dialog box open. The 'Name' field in the main window is 'Migrate%'. The 'Reports' dialog box has a search field containing 'Migrate%' and a table of results:

Name	Application
Migrate Budget Organizations	HP GL Migrator
Migrate Consolidations	HP GL Migrator
Migrate FSG Row/Col Sets	HP GL Migrator
Migrate JE Sources	HP GL Migrator
Migrate Journal Categories	HP GL Migrator
Migrate Mass Allocations	HP GL Migrator
Migrate Summary Templates	HP GL Migrator

The 'Submit Request' window also shows fields for 'Run this Request...', 'Operating Unit', 'Parameters', 'Language', 'At these Times...', 'Run the Job', 'Upon Completion...', 'Layout', 'Notify', and 'Print to'. Buttons for 'Copy...', 'Find', 'OK', 'Cancel', 'Submit', and 'Cancel' are visible.

Figure 6-2. Parameters for Migrate Budget Organizations program

The screenshot shows the 'Submit Request' window with the 'Parameters' dialog box open. The 'Parameters' dialog box contains the following fields and values:

- Source Database: 30 (DVL Database)
- Destination Database: 50 (PROD Database)
- Run Type: 1 (Migration)
- Selection Type: 1 (Specific Object)
- From Set Of Books/Ledger Name: HP US Federal (HP US Federal Set of Bo)
- New Set of Books/Ledger Name: HP US Federal (US Federal Set of Books)
- Specific Budget Org Name: Federal Budget
- New Budget Orgs Name: (empty)
- New User Budget Org Name: (empty)
- Budget Org From: (empty)
- To: (empty)
- Budget Org Like: (empty)
- Save To Archive: 2 (No)
- Version Label: (empty)
- Version Desc: (empty)
- Recover From Archive: 2 (No)
- From Version Label: (empty)
- Overwrite if Exists: 1 (Yes)

The 'Submit Request' window also shows fields for 'Run this Request...', 'Operating Unit', 'Parameters', 'Language', 'At these Times...', 'Run the Job', 'Upon Completion...', 'Layout', 'Notify', and 'Print to'. Buttons for 'Help (C)', 'OK', 'Cancel', 'Clear', and 'Help' are visible.

Entity Types

HP GL Migrator supports the following entity types (each entity type is considered a separate module):

- Budget Organizations
- Consolidations
- Cross Validation Rules
- FSG Row/Col Sets
- Journal Categories
- JE Sources
- Mass Allocations
- Summary Templates

Migration Capabilities

For information about migration capabilities, see *Migration Capabilities* on page 18.

Version Control

For information about version control, see *Version Control Overview* on page 19 and *Chapter 8, Using Version Control*, on page 99.

Comparison Reports

Without migrating a new version of a specific GL setup entity from one database to another, HP GL Migrator can generate a comparison report that shows all of the differences between the version of the entity that will be migrated and the version that is already present in the destination database, using the user-recognizable parameter names and values.



Long parameters and translated data for instances running under multi-language support (MLS) are not compared in the comparison reports.

Comparison Functionality Within Each Migrator

You can use the migrators described in [Chapter 9, *Migrating General Ledger Entities*, on page 109](#) to compare entity versions between two environments.

GL Migration Comparison Report

Running the GL Migration Comparison Report allows you to compare entities across the environments that have a migrator (see [Chapter 9, *Migrating General Ledger Entities*, on page 109](#)).

Migration Audit Reports

For information about migration audit reports, see [Running Audit Reports on page 96](#).

Common HP GL Migrator Parameters

Most of the migrators provided in HP GL Migrator use the common parameters described in this section.

Source Database (required)

Select the database where the entities to be migrated currently exist. If you want to use an archived version of the entities as the source data for the migration, select **Object Archive** as the **Source Database**, select **Yes** for the **Recover From Archive** parameter, and specify the appropriate version label in the **From Version Label** parameter. See [Chapter 8, Using Version Control, on page 99](#) for more information about version control. If the desired source database is not available for selection, contact the system administrator to have the database name added to the appropriate value set.

Dest Database or Destination Database (required)

Select the database to which the entities are to be migrated. This can be the same as or different from the source database. If you want to migrate the entities into the entity archive rather than to another Oracle E-Business Suite instance, then select **Object Archive** for the **Dest Database** (or **Destination Database**) parameter, select **Yes** for the **Save To Archive** parameter, and specify a version label in the **Version Label** parameter. See [Chapter 8, Using Version Control, on page 99](#) for more information about version control. If the desired destination database is not available for selection, contact the system administrator to have the database name added to the appropriate value set.

Run Type (required)

Select one of the following options:

- **Migration**

Migrate an entity from a specified source to a specified destination.

- **Simulation**

Do not import the data after it is extracted from the source and validated. Only report what would be the successes and exceptions in the same format as the standard report.

- **Comparison**

Compare a specific entity or a range of entities from two instances (see [Comparing Entities on page 105](#) for more details on entity comparison). Do not migrate any data.

From Set of Books/Ledger Name (required if present)

For entity types that are owned by a specific Set of Books/Ledger, select the Set of Books/Ledger that currently owns the entities being migrated (ownership in the source database).

New Set of Books/Ledger Name (required)

For entity types that are owned by a specific Set of Books/Ledger, select the Set of Books/Ledger that is intended to own the entities after migration (ownership in the destination database).

Selection Type (required)

Select one of the following options:

- **Specific Entity**

One entity will be selected for migration at this time. Type the specific entity name.

- **Range of Entities**

A range of entities will be selected for migration at this time. Specify the range to use.

- **Wild Card Match**

Multiple entities will be migrated with entity names matching a specified string. The % character is used as a wild card in this string. Specify this character string to match against.

Specific <Entity Type> Name

Type the current name (as named in the source database) of the entity you want to migrate. The specific name parameters to use are explained in [Chapter 9, Migrating General Ledger Entities](#), on page 109 for each entity type. If you entered **Specific Entity** in the **Selection Type** parameter, you must specify a value for this parameter, otherwise the program will present an error. If you entered **Range of Entities** in the **Selection Type** parameter, do not specify a value for this parameter.

New <Entity Type> Name

Type the new name of the specific entity as you want it to appear in the destination database after the migration. This parameter defaults to the value from the source database but you can change it to correct the entity name or to duplicate the same entity to multiple new entities. Specify a value in this parameter only if you selected **Specific Entity** in the **Selection Type** parameter.

New User <Entity Type> Name/Title

Some entity types have restrictions on user names or titles. They sometimes require that these names or titles be unique within a given Set of Books/Ledger. Because of this, HP GL Migrator programs for these entity types allow you to change the user name or title of the entity during the migration process. This is especially useful when duplicating an entity. This parameter is used only if you set the **Selection Type** parameter to **Specific Entity**. If left blank, HP GL Migrator uses the title from the source database.

<Entity Type> From

Type the starting name for the range of entities you want to migrate. HP GL Migrator does an alphabetic search using this parameter so the value does not have to be an exact entity name. For example, to migrate all entities for a given application, you would migrate from **A** to **zzz**. Specify a value for this parameter only if you specified **Range of Entities** for the **Selection Type** parameter.



If you have entities that do not begin with letters, use from **!** to **~** to obtain all entities.

To

Type the ending name for the range of entities you want to migrate. HP GL Migrator does an alphabetic search using this parameter so the value does not have to be an exact entity name. For example, to migrate all entities for a given application, you would migrate from **A** to **zzz**. Specify a value for this parameter only if you specified **Range of Entities** for the **Selection Type** parameter.



If you have entities that do not begin with letters, use from **!** to **~** to obtain all entities.

<Entity Type> Like

Type the character string to match against. Use % as the multi-character wild card character and/or _ (underscore) as the single character wild card character. HP GL Migrator limits the entities to be migrated to entity names that match this character string. Note that this wild card match is case sensitive. Specify a value for this parameter only if you specified **Wild Card Match** for the **Selection Type** parameter.

Save To Archive (required)

Select one of the following options:

- **Yes**

Put the entities being migrated under version control and store them in the entity archive. You can save to the archive when doing a regular migration to an Oracle E-Business Suite instance or you can specify **Object Archive** for the **Dest Database** parameter. Do not set this parameter to **Yes** if the **Run Type** parameter is set to **Simulation** or **Comparison**.

- **No**

Do not store the entities being migrated into the entity archive.

Version Label

Type the **Version Label** name to store the entities into. HP GL Migrator will store the entities with the version label you specify. If you specify a new version label, HP GL Migrator will create this label for you. If you specify an existing version label, HP GL Migrator will add the entities to the existing label. A version label is required if the **Save To Archive** parameter is set to **Yes**.

This parameter is also used when comparing two versions of the same entity. When the **Run Type** parameter is set to **Comparison** and the **Dest Database** parameter is **Object Archive**, specify **No** for the **Save To Archive** parameter and type one of the version labels you want to compare in the **Version Label** parameter. See [Chapter 8, Using Version Control, on page 99](#) for more information about version control and entity comparison.

Version Desc

Type the description to attach to the entity version(s) as they are stored in the entity archive. This value will also be the description for the version label if this is a new version label. If this parameter is left blank and the version label already exists, HP GL Migrator uses the description of the version label as the description of the entity versions. This parameter should be specified only if the **Save To Archive** parameter is set to **Yes**.

Recover From Archive (required)

Select one of the following options:

- **Yes**

The entity archive is to be the source database for the migration.

- **No**

The entity archive is not to be the source database for the migration.

From Version Label

Type the version label name from which to recover the entities. You can get a list of values for this parameter. If you are trying to recover a specific entity, you can select from all the valid version labels for that entity. If you are recovering a range of entities, you can pick from all version labels that have at least one entity of the entity type (Budget Org, Consolidation, etc.) you are trying to recover.

This parameter is also used when comparing two versions of the same entity. When the **Run Type** parameter is set to **Comparison** and the **Source Database** is **Object Archive**, specify **Yes** for the **Save To Archive** parameter and type one of the version labels you want to compare in the **From Version Label** parameter. See [Chapter 8, *Using Version Control*, on page 99](#) for more information about version control and entity comparison.

Overwrite if Exists (required)

Select one of the following options:

- **Yes**

If the entities being migrated already exist in the destination database and the destination application, overwrite the current entity definitions with the new definitions. If you are migrating one specific entity, use the value in the **New <Entity Type> Name** parameter as the entity name to check against.

- **No**

If the entities being migrated already exist in the destination database and the destination application, they should fail migration and the program should log the appropriate error message.

Partials Allowed (required if present)

Select one of the following options:

- **Yes**

If an entity passes validation but any of the components fail validation, log the failing components as failed in the error report, but continue the migration for the components that pass validation.

- **No**

If an entity passes validation but any of the components fail validation, do not migrate the entity or any of its components. In the error report:

- Log the failing components as having failed.
- Log the entity as having failed due to a component failure.
- Log the non-failing components as having failed due to an entity failure.

7 Maintaining HP GL Migrator

Overview of Maintenance Tasks

This chapter describes the following maintenance tasks:

- Maintaining database links
- Maintaining database instances
- Validating and rebuilding views
- Using views
- Running without the Distributed Database Option
- Using version control
- Purging temporary tables
- Running audit reports
- Recompiling Descriptive Flexfields
- Configuring HP GL Migrator security

Maintaining Database Links

Whenever passwords change, maintain database links as follows:

1. Drop the appropriate database link.
2. Re-create the link using the new password.
3. Run the Maintain GL Migrator Views program. See *Maintaining HP GL Migrator Views* on page 88 for details.

Managing Database Instances

Whenever a database instance is added or removed, you must maintain the `CLM_DATABASES` and `CLM_DB_LINKS` value sets.

Adding a Database Instance

To add a new database instance for use by HP GL Migrator (as a source for entity data and/or a destination for entity data):

1. On the HP GL Migrator instance, define a database link from the HP GL Migrator SQL account to the `APPS` account of the new database instance. Link to the `APPS` account on the destination database. See [step 2 on page 39](#) for examples.
2. Add a value to the `CLM_DATABASES` value set for the new database instance. See [step 5 on page 40](#).
3. Add a value to the `CLM_DB_LINKS` value set for the new database link. Use the exact database link name for the description. See [step 6 on page 41](#).



Use the same number in the **Value** field that is used for the corresponding database in the `CLM_DATABASES` value set. The value must be a pure numeric value (an integer).

4. Run the Maintain GL Migrator Views concurrent program. This re-creates all the entity views used by HP GL Migrator to include this new database. It also performs a validation check for all the enabled database names and links. See *Maintaining HP GL Migrator Views* on page 88 for details.

Removing a Database Instance

HP GL Migrator configurations should be updated when an Oracle E-Business Suite instance will no longer be used as a source or destination of migrations, for example when a test instance is removed.

To remove a database instance:

1. Query the value for the instance in the `CLM_DB_LINKS` value set and disable the instance.
2. Query the value for the instance in the `CLM_DATABASES` value set and disable the instance.
3. Remove the database link from the HP GL Migrator database schema.
4. Run the Maintain GL Migrator Views concurrent program. This re-creates all the entity views used by HP GL Migrator and excludes the obsolete Oracle E-Business Suite instance.

Maintaining HP GL Migrator Views

The Maintain GL Migrator Views program validates and rebuilds the HP GL Migrator views based on the current values in the `CLM_DB_LINKS` and `CLM_DATABASES` value sets and the current status of the remote databases. The program also reports the current definition of these views. See [Using HP GL Migrator Views on page 89](#) for more details on the HP GL Migrator views.

The program also queries all the enabled database links and populates a local table of all the chart of accounts and set of books/ledger names that it sees. This information is stored in local custom tables for better performance when getting a list of values for the chart of accounts or set of books/ledger.

This program should be scheduled to run periodically and must be run after any change to the `CLM_DB_LINKS` or `CLM_DATABASES` value sets.

Make sure to review the report output of this program. The output lists all the databases enabled for use with HP GL Migrator and any errors encountered while trying to connect to these databases.

To validate and rebuild views:

1. Use the standard menu path **Other > Requests > Run**.
2. Launch the Maintain GL Migrator Views program.

Parameter Name (*Required)	Description
*Report Only	Specify Yes if you want to just see a report on the current definition of the GL Migrator views without modifying them. Specify No if you want this program to re-create the GL Migrator views based on the current enabled values in the <code>CLM_DATABASES</code> and <code>CLM_DB_LINKS</code> value sets and the current statuses of the remote databases, checking each view against each database and rebuilding each view, omitting the problem databases.

Using HP GL Migrator Views

HP GL Migrator allows you to get a list of values when selecting a specific entity to migrate. This list of values is taken from the source database you are migrating from and is based on custom views created and maintained by the Maintain GL Migrator Views program.

The custom views (one per entity type) are a series of unions that select from each database you currently have defined in the `CLM_DATABASES` value set. To get to the remote databases, the views include the database links defined in the `CLM_DB_LINKS` value set. HP GL Migrator does not copy the remote entity name data to any temp table; it queries from the remote database in real time.

For example, assume `CLM_DATABASES` has the enabled values shown in [Table 7-1](#) and `CLM_DB_LINKS` has the enabled values shown in [Table 7-2](#).

Table 7-1. Values for `CLM_DATABASES`

Value	Meaning
2	DEV
3	QA
4	PROD
900	Entity Archive

Table 7-2. Values for `CLM_DB_LINKS`

Value	Meaning
2	DEV_LINK
3	QA_LINK
4	PROD_LINK
900	Entity Archive

Then the view for the user migrator would be:

```
SELECT 2 db_value,  
name entity_name  
FROM gl_budget_entities@DEV_LINK  
UNION  
SELECT 3 db_value,  
name entity_name  
FROM gl_budget_entities@QA_LINK  
UNION  
SELECT 4 db_value,  
name entity_name  
FROM gl_budget_entities@PROD_LINK  
<select clause to query entity archive tables against the local  
database>
```

When getting a list of values from this view, the migrator concurrent programs look at the source database you have selected and return only the values from that database. Additionally, where appropriate, the list of values is limited by the source application.

Considerations for Using Views

While having the ability to select the entity name as it exists on the source database is an important feature, there are considerations to the use of these views.

- While the list of values based on these views only queries the database you have selected, it does validate each database link when it first parses the query. If it takes a long time to access one or more of the remote databases using a database link, there will be a slight delay when you first execute the list of values. This should occur only the first time you use the list of values in your application session. Subsequent uses of the list of values should have better performance.
- Because of the way the database handles unions, if one database link in the union is invalid (the link has the wrong username or password, the remote database is down, or there is a problem with SQL*Net), the entire view is invalid. This results in an error while trying to submit the HP GL Migrator program.

To address the second issue, you must periodically run the Maintain GL Migrator Views program.

When run with the **Report Only** parameter set to **No**, this program looks at all the databases, as defined in `CLM_DATABASES` and `CLM_DB_LINKS`, and checks each view against each database. It then rebuilds each view omitting the problem databases. The report output of this program reports on any problems that occurred. If run with **Report Only** set to **Yes**, the program reports on the current definition of the views.

To keep the HP GL Migrator views current with the current database statuses, you should schedule the Maintain GL Migrator Views program to run periodically. The greater the database instability (in terms of changes in passwords, database status, and SQL*Net status), the more often this program should be run. A good rule of thumb is to run the program once a day. You must run the program after making any modifications to `CLM_DATABASES` or `CLM_DB_LINKS`.

Switching Between Non-Validated Mode and Validated Mode

If you are having significant problems with the HP GL Migrator views, you can switch to the non-validated entity name mode. To do this, execute the script `CLGMMBS9.sql` (located with the rest of the HP GL Migrator install scripts) against the HP GL Migrator SQL account. When prompted for the `inst_value_sets` parameter, type **Y**. After running this script, the entity name parameters will have no validation or list of values.

```
sqlplus <GLM acct>/<GLM password>
SQL> @CLGMMBS9.sql
Enter value for inst_value_sets: Y
SQL> exit;
```

To revert to validated parameters with lists of values, run the script `CLGMMBS8.sql` against the HP GL Migrator SQL account. When prompted for the `inst_value_sets` parameter, type **Y**.

```
sqlplus <GLM acct>/<GLM password>
SQL> @CLGMMBS8.sql
Enter value for inst_value_sets: Y
SQL> exit;
```

open_links Database Parameter for Database Access

The `open_links` database parameter controls how many different databases can be accessed through database links in a given session (but it does not control how many times a specific link can be used in that session). The default value is 4. If you have (or ever plan to have) more than four databases defined in `CLM_DATABASES` (that is, the databases you will be migrating from and to), you must increase the value for this parameter (HP recommends 20) in the HP GL Migrator instance, then shut down and restart the database. To make the change, modify the `init.ora` file by adding (or modifying) the line `open_links = 20.`

Local Chart of Accounts (COA) and Set of Books (SOB)/Ledger Names

The Maintain GL Migrator Views program builds entity views and queries all the remote databases. From the query data, it populates a local table (`CLGM_ENTITY_LOOKUPS`) with the chart of accounts and set of books/ledger. This is done so that queries on the list of values for a chart of accounts or set of books/ledger will perform better.

If you add a set of books/ledger or chart of accounts to any of the source databases, you must run the Maintain GL Migrator Views program to bring the new values into the local table.

Running Without the Distributed Database Option

While HP strongly recommends that you run the Distributed Database Option, you can still use HP GL Migrator without it. If you use HP GL Migrator with HP Deployment Management, the Distributed Database Option is required.

When running HP GL Migrator with a destination database other than the current instance, HP GL Migrator attempts to insert, delete, and update data using database links. This is not allowed by Oracle without the Distributed Database Option.

To work around this restriction, you must install HP GL Migrator on each of the instances that can ever be a destination database. Then, whenever you want to move entities to a given database, you must log on to that destination database and run HP GL Migrator there, setting the **Dest Database** parameter to be the current database. The **Source Database** parameter can be a remote database because HP GL Migrator only queries data from the source database (no inserts, updates, or deletes) and Oracle allows queries across database links even without the Distributed Database Option.

Because you must run the Distributed Database Option to execute database link inserts, updates, or deletes even on the same database, when installing HP GL Migrator on an instance, you must do one of the following:

- Install HP GL Migrator into the `APPS` account, and enable value **1** in `CLM_DATABASES` (when selecting this value, HP GL Migrator will not use any database link) and give it a description of **Current Database**. You might have to extend the privileges of the `APPS` account to allow creating tables and indexes.
- Install HP GL Migrator in a custom account and instead of creating a link to the `APPS` account, grant all the appropriate entities from `APPS` to the custom account. Contact HP Software Support for a sample script to execute these grants. Then, enable value **1** in `CLM_DATABASES` and rename it to **Current Database**.

Using Version Control

For information about using the Version Control functionality of HP GL Migrator, see [Chapter 8, *Using Version Control*](#), on page 99.

Purging Temporary Tables

Periodically purge the temporary HP GL Migrator tables by using the Purge GL Migrator Interface Tables program. This is useful for removing rows left by running HP GL Migrator in Debug mode. If the **Debug** parameter is set to **No**, HP GL Migrator removes all records inserted into its temporary tables during the execution of the program. You can either truncate the HP GL Migrator tables or delete records older than a certain date.

HP recommends that you run this program at least once a month with the **Truncate Tables** parameter set to **Yes** to remove any fragmentation created through the insertion and deletion of records in the temporary tables.

If appropriate, periodically purge details from the GL Archive details. Based on the volume of revisions, you might want to keep the revision history of the entities but delete the actual details of the earlier versions (see [Purge Entity Archive Versions Program on page 104](#)). Note that you will lose the ability to compare against or revert to these purged versions.

To purge the temporary tables:

1. Use the standard menu path **Other > Requests > Run**.
2. Launch the Purge GL Migrator Interface Tables program.

Parameter Name (*Required)	Description
*Truncate Tables	Select Yes to purge the tables by truncating them. This removes all the records from the tables and removes any table fragmentation. Note that you will not be able to selectively delete records based on age if you set this parameter to Yes . Select No to purge the tables by deleting rows from the table.
Days Old	Specify in days the minimum age of the records that are to be eligible for deletion. This parameter is relevant only if the Truncate Tables parameter is set to No .

Parameter Name (*Required)	Description
*Budget Org Mig Tables	Specify Yes to purge the tables used by the Migrate Budget Organizations migrator. Specify No to not purge the tables used by the Migrate Budget Organizations migrator.
*Consolidation Mig Tables	Specify Yes to purge the tables used by the Migrate Consolidations migrator. Specify No to not purge the tables used by the Migrate Consolidations migrator.
*Cross Val Rule Mig Tables	Specify Yes to purge the tables used by the Migrate Cross Validation Rules migrator. Specify No to not purge the tables used by the Migrate Cross Validation Rules migrator.
*Summary Template Mig Tables	Specify Yes to purge the tables used by the Migrate Summary Templates migrator. Specify No to not purge the tables used by the Migrate Summary Templates migrator.
*Mass Allocation Mig Tables	Specify Yes to purge the tables used by the Migrate Mass Allocations migrator. Specify No to not purge the tables used by the Migrate Mass Allocations migrator.
*Journal Category Mig Tables	Specify Yes to purge the tables used by the Migrate Journal Categories migrator. Specify No to not purge the tables used by the Migrate Journal Categories migrator.
*Journal Source Mig Tables	Specify Yes to purge the tables used by the Migrate JE Sources migrator. Specify No to not purge the tables used by the Migrate JE Sources migrator.
FSG Row/Col Mig Tables	Specify Yes to purge the tables used by the Migrate FSG Row/Col Sets migrator. Specify No to not purge the tables used by the FSG Row/Column Set migrator.

Running Audit Reports

HP GL Migrator provides the GL Migrator Audit Report with every batch of entities being migrated. This report provides an audit trail of all successfully migrated entities as well as a detailed exception listing for entities that failed migration. The report lists all key information about each entity. You can run the audit report within a date range for a specific entity type or for all entity types.

To run audit reports:

1. Use the standard menu path **Other > Requests > Run**.
2. Launch the GL Migrator Audit Report.

Parameter Name (*Required)	Description
*Order By	Select Run Date to order the audit report by the run date of the migrator program. Select Entity Type to order the audit report by the entity type that was migrated. Within a specific entity type, order the report by the program run date.
*Run Date From	Type the starting run date of the migrators you want to include in the audit report.
*To	Type the ending run date of the migrators you want to include in the audit report.
Specific Entity Type	Limit the audit report to this specific HP GL Migrator entity type.
Specific Entity	Limit the audit report to this specific HP GL Migrator entity name (this refers to the destination entity name).
Destination Database	Limit the audit report to migrations to this specific destination database.
*Ignore Report Only	Specify Yes to exclude executions of HP GL Migrator that were run in Report Only mode. Specify No to include executions of HP GL Migrator that were run in Report Only mode.

Configuring HP GL Migrator Security

HP GL Migrator uses standard Oracle E-Business Suite security functionality to control access to GL Migrator programs. See [Configuring Oracle E-Business Suite on page 38](#) for some default security setup information. Beyond this default security setup, you can consider additional internal security for HP GL Migrator. The security tasks might include configuring the following:

- **Request groups.** Set up a request group for each grouping of programs if there are different groups of users who should access different sets of programs.

System administrators might have access to all programs, whereas business analysts and developers would have access only to migrator and archive programs.

- **Responsibilities.** For each grouping of programs, set up a custom responsibility for the user group that will access the group of programs.
- **Users.** The Oracle E-Business Suite instance where HP GL Migrator is installed must have a logon defined for each user who will submit HP GL Migrator requests (this is optional if integrating with HP Deployment Management). Create the user and assign the appropriate responsibility that includes HP GL Migrator programs.

8 Using Version Control

Overview of Version Control

HP GL Migrator uses a set of database tables called the entity archive as a repository for version control information regarding GL setup entities. These tables reside in the same instance on which HP GL Migrator is installed, allowing you to have one central location for all the GL setup entity versions.

If you were to install HP GL Migrator on multiple databases and use its Version Control functionality on all the installations, you would have multiple repositories with potentially confusing duplicate entity versions. To avoid this, HP recommends that you use the Version Control functionality at only one point in the migration workflow, that is, on only one HP GL Migrator installation. Avoid scenarios such as saving entities to the entity archive when migrating from a Development instance to a QA instance and then saving them again when migrating from the QA instance to a Production instance.

Because HP GL Migrator uses database tables to store entity information, you should install HP GL Migrator on a database instance that will not be periodically refreshed. If you need to refresh the database, you must export the data in the HP GL Migrator tables (they all begin with `CLGM`) before the refresh and import the data after the refresh is completed.

Overview of Entity Archive

The entity archive consists of a set of database tables that are similar in structure to the standard Oracle General Ledger setup entity tables, with additional columns for version control information (for example, revision number and label name).

When you save an entity to the entity archive, HP GL Migrator copies the entire definition of the entity to the entity archive database tables. HP GL Migrator gives the new entity a new version revision number. This revision number is calculated internally and is equivalent to the maximum existing revision number for the entity, plus one.

HP GL Migrator also gives the entity a version label. This label is provided by the user during the execution of HP GL Migrator programs. The ability to specify a version label allows you to group multiple entities by label name. You can then report on the entities with that version label, or you can use the version label number to retrieve multiple entities from the entity archive.

If the entity being saved to the archive is linked to a Chart of Account, that Chart of Account definition is also stored in the entity archive. The Chart of Account is linked to the same version label as the entity being archived. There is only one instance of a given Chart of Account in one version label.

The growth of these archive tables directly corresponds to the number of entities and the number of versions put into these tables. If you plan to periodically store versions of entire groups of entities rather than storing only the entities that change, then more tablespace will be required than the recommended 30 megabytes. HP recommends starting with a 30 megabyte allocation and then adding tablespace as needed.

You can periodically remove details of earlier versions with the Purge Entity Archive Versions program. You can use this program to keep the revision history of your entities but delete the actual details of the earlier versions (see [Purge Entity Archive Versions Program on page 104](#)). Note that you will lose the ability to compare against or revert to these purged versions.

A sample of version labels and revision numbers might look similar to the example shown in [Figure 8-1](#).

Figure 8-1. Sample version labels and revision numbers

GL Migrator Executions

Run #	Entity Type	Entity	Version Label
1	Budget Organization	Engineering Department	Label_1
2	Budget Organization	Engineering Department	Label_2
3	Cross Validation Rules	Region_10	Label_1
4	Budget Organization	San Jose Plant	Label_2
5	Budget Organization	Engineering Department	Label_3

Version Label	Entity Type	Entity	Rev
Label_1	Budget Organization	Engineering Department	1
Label_1	Cross Validation Rule	Region_10	1
Label_2	Budget Organization	Engineering Department	2
Label_2	Budget Organization	San Jose Plant	1
Label_3	Budget Organization	Engineering Department	3

Saving to the Entity Archive

You can migrate a General Ledger setup entity or a group of entities to the entity archive, thereby putting the entities under version control.

To do so, while running HP GL Migrator programs, you must set the **Dest Database** (or **Destination Database**) parameter to **Object Archive**, set the **Save to Archive** parameter to **Yes**, and type values for the **Version Label** and **Version Desc** parameters. HP GL Migrator stores the entities with the version label you specify. If you specify a new version label, HP GL Migrator creates this label for you. If you specify an existing version label, HP GL Migrator adds the entities to the existing label. (If you leave the description blank for an existing label, HP GL Migrator uses the description from the existing version label.)

If you save to an existing version label, HP GL Migrator prohibits you from saving an entity that already exists in that version label. You must either specify a new version label or first purge the entity from the existing version label (see *Purge Entity Archive Versions Program* on page 104).

You can also save entities to the entity archive while executing a regular migration. Set the **Dest Database** parameter to the appropriate Oracle E-Business Suite instance, set the **Save to Archive** parameter to **Yes**, and specify the appropriate **Version Label** and **Version Desc** parameters. HP GL Migrator migrates the entity to both the destination database and the entity archive during the same execution.

Restoring Entities from the Entity Archive

After you store entity versions in the entity archive, you can use HP GL Migrator to restore these versions into the “live” Oracle E-Business Suite instances. You can use the entity archive as a source for the entity definition rather than getting entity information from an Oracle E-Business Suite instance.

To recover entities from the entity archive, set the **Source Database** parameter to **Object Archive**, set the **Recover From Archive** parameter to **Yes**, and in the **From Version Label** parameter, type the version label from which you want to retrieve the entities. You can select this parameter. If you are trying to recover a specific entity, you can select from all the version labels that contain that entity. If you are recovering a range of entities, you can pick from all version labels that have at least one entity of the entity type (Budget Org, Consolidation, etc.) you are trying to recover.

GL Archive Version Detail Report

The GL Archive Version Detail Report audits the contents of the GL entity archive and displays the revision history of the GL Migrator setup entities.

To run the report:

1. Use the standard menu path **Other > Requests > Run**.
2. Launch the GL Archive Version Detail Report.

Parameter Name (*Required)	Description
*Order By	Order by one of the following: <ul style="list-style-type: none">• Creation Date• Version Label• Object Name
Version Label	Limit the report to a specific version label in the GL entity archive.
Entity Type	Limit the report to a specific entity type (for example, Budget Org or Consolidation).
Entity Name From	Limit the report to entities that start with this name or an alphabetically later name.
Entity Name To	Limit the report to entities that start with this name or an alphabetically earlier name. For a single entity, type the only entity name to be included.
Creation Date From	Limit the report to entity versions saved into the GL entity archive on or after this date.
Creation Date To	Limit the report to entity versions saved into the GL entity archive before or on this date.
Specific User	Limit the report to the versions created by this user.

Purge Entity Archive Versions Program

The Purge Entity Archive Versions program purges versions of entities from GL Archive. You can remove old versions of entities that are no longer needed or that were incorrectly archived.

To purge the entities:

1. Use the standard menu path **Other > Requests > Run**.
2. Launch the Purge Entity Archive Versions program.

Parameter Name (*Required)	Description
*Report Only	Specify Yes to list the purge candidates but <i>not</i> execute the purge process. Specify No to list the purge candidates and execute the purge process.
Version Label	Type a version label to limit the purge to archives with that label.
Specific Entity Type	Limit the purge to a specific entity type (for example, Budget Org or Consolidation).
Entity Name From	Limit the purge to entities that start with this name or an alphabetically later name.
Entity Name To	Limit the purge to entities that start with this name or an alphabetically earlier name. For a single entity, type the only entity name to be included.
Creation Date From	Limit the purge to entity versions saved into the GL entity archive on or after this date.
Creation Date To	Limit the purge to entity versions saved into the GL entity archive before or on this date.
*Version Details Only	Specify Yes to purge the details of the entity but not the version. Then you can report on the revision history of the entity, but you will never be able to use this entity version as a source for migrations or as a version to run comparisons against. Specify No to purge all information about the entity version(s).

Comparing Entities

This section discusses the entity comparison functionality in HP GL Migrator.

Comparison Methodology

The entity comparison functionality is available for all of the migrators (see [Chapter 9, *Migrating General Ledger Entities*, on page 109](#)). It is activated in HP GL Migrator by setting the **Run Type** parameter to **Comparison**.

HP GL Migrator compares entities or entity details by pulling information from the source and destination databases into custom temporary tables, where it compares the attributes of the entities and lists the differences in the output report.

The “difference” status for each identified entity or entity detail is one of the following:

- Only in Source DB

The entity or entity detail exists only in the source database. There is nothing in the destination database with the entity name or entity detail name. For example, if an exclusion for a cross validation was added in the source database, the comparison report would indicate that the parameter exists only in the Source DB.

- Only in Dest DB

The entity or entity detail exists only in the destination database.

- Differences Exist

Entities or entity details with this status either have different attributes (for example, the entity descriptions could be different) or have different details.

If an entity or entity detail has a status of Only in Source DB or Only in Dest DB, HP GL Migrator does not report any additional information about it. For example, if HP GL Migrator compares a range of cross validation rules between one database and another and finds that a rule exists on the source database and not the destination database, it does not report on the specific exclusions and inclusions of the rule.

Comparison Procedure and Sample Report

The procedures in this section describe how to:

- Compare entities from two Oracle E-Business Suite instances
- Compare an entity from an Oracle E-Business Suite instance with another entity from the entity archive
- Compare two versions of one or more entities in the entity archive

To compare entities from two Oracle E-Business Suite instances:

1. Launch the desired migrator (see [Chapter 9, Migrating General Ledger Entities](#), on page 109).
2. With the **Run Type** parameter set to **Comparison**, specify one Oracle E-Business Suite instance as the source database and the other instance as the destination database.
3. (For a single entity) Type the name of the entity to compare.
HP GL Migrator ignores the value in the **New <Entity Type> Name** parameter and instead uses the value in the **Specific <Entity Type> Name** parameter when retrieving entity information from both source and destination databases.
4. (For a range of entities) Use the **<Entity Type> From** and **To** parameters to specify a range. Specifying a range allows you to see which entities do not exist on one database versus another, as well as the differences for the entities that exist on both databases.



If you are comparing data between Oracle E-Business Suite Releases 11i and 12, you might encounter differences based on changes in the GL data model between these releases.

To compare entities from an Oracle E-Business Suite instance and the entity archive:

1. Launch the desired migrator (see [Chapter 9, Migrating General Ledger Entities](#), on page 109).
2. With the **Run Type** parameter set to **Comparison**, specify **Object Archive** for the **Source Database** parameter and specify the Oracle E-Business Suite instance for the **Dest Database** parameter.

3. For the **Recover From Archive** parameter, specify **Yes**.
4. Type the appropriate **Version Label** parameter.
5. (For a single entity) Type the name of the entity to compare.

HP GL Migrator ignores the value in the **New <Entity Type> Name** parameter and instead uses the value in the **Specific <Entity Type> Name** parameter when retrieving entity information from both source and destination databases.

6. (For a range of entities) Use the **<Entity Type> From** and **To** parameters to specify a range. Specifying a range allows you to see which entities do not exist on one database versus another, as well as the differences for the entities that exist on both databases.

To compare two versions of one or more entities:

1. Launch the desired migrator (see [Chapter 9, Migrating General Ledger Entities](#), on page 109).
2. With the **Run Type** parameter set to **Comparison**, specify **Object Archive** for both the **Source Database** and **Dest Database** parameters.
3. For the **Save To Archive** parameter, specify **No**.
4. For the **Recover From Archive** parameter, specify **Yes**.
5. Type the appropriate **Version Label** parameter.
6. (For a single entity) Type the name of the entity to compare.

HP GL Migrator ignores the value in the **New <Entity Type> Name** parameter and instead uses the value in the **Specific <Entity Type> Name** parameter when retrieving entity information from both source and destination databases.

7. (For a range of entities) Use the **<Entity Type> From** and **To** parameters to specify a range. Specifying a range allows you to see which entities do not exist on one database versus another, as well as the differences for the entities that exist on both databases.

A sample comparison report might look similar to the example shown in *Figure 8-2*, where a mass allocation named Allocation One is compared between two Oracle E-Business Suite instances.

Figure 8-2. Sample Mass Allocation/Budget Comparison Report

```

Mass Allocation/Budget Comparison Report
** Mass Alloc/Budget Batches **
Set of
Action      Books      Mass Alloc/Budget Name      Description
-----
Differences Exist SOB3      Allocation One              Mass Allocation Test
Column Name      Value From Source DB      Value From Dest DB
-----
Status      Valid              Error
** Mass Alloc/Budget Formulas **
Action      Formula Name      Description
-----
Only in Dest DB Mass allocation formula 2      Mass allocation formula 2
Differences Exist Mass Alloc Formula for SOB3      Mass Alloc Formula for SOB3
Column Name      Value From Source DB      Value From Dest DB
-----
JE Category Name      Accrual              Discounts
Description      Mass Allocation Formula for SOB3      Mass Allocation Formula one
Status      Valid              Error

** Mass Alloc/Budget Formula Lines **
Action      Line Number      Line Type
-----
Differences Exist 1              Total
Column Name      Value From Source DB      Value From Dest DB
-----
Currency      CAD              USD

```

The report shows the following differences:

- The status of the mass allocation is Valid in the source database, and Error in the destination database.
- Mass allocation formula 2 is present only in the destination database.
- For the Mass Alloc Formula for SOB3 formula, the JE Category Name and the Description were changed.
- In the Formula Lines, Line 1 has different currencies in the source and destination databases.

9 Migrating General Ledger Entities

Migrate Budget Organizations Migrator

The Migrate Budget Organizations migrator prompts the user for parameters enabling migration of user selected Budget Organization(s) from a source database and set of books/ledger to a destination database and set of books/ledger. The migration is accompanied by an output file displaying all migrated entities along with the status or error codes associated with each record in migration.

The Assign Budget Account Ranges concurrent program is submitted at the destination database for each successfully migrated Budget Organization. The Concurrent Request ID(s) of the submitted requests are listed in the Concurrent Request log file of the migration. Users are advised to review the requests at the destination database and take any necessary actions.

Use the standard menu path **Other > Requests > Run** to launch the Migrate Budget Organizations migrator. *Table 9-1* lists and describes its parameters.

Table 9-1. Migrate Budget Organizations migrator parameters (page 1 of 2)

Parameter Name (*Required)	Description
*Source Database	See <i>Common HP GL Migrator Parameters</i> on page 77.
*Destination Database	See <i>Common HP GL Migrator Parameters</i> on page 77.
*Run Type	See <i>Common HP GL Migrator Parameters</i> on page 77.
*Selection Type	See <i>Common HP GL Migrator Parameters</i> on page 77.

Table 9-1. Migrate Budget Organizations migrator parameters (page 2 of 2)

Parameter Name (*Required)	Description
*From Set of Books/Ledger Name	See Common HP GL Migrator Parameters on page 77 .
*New Set of Books/Ledger Name	See Common HP GL Migrator Parameters on page 77 .
Specific Budget Org Name	See Common HP GL Migrator Parameters on page 77 . Type the current Short Name (as named in source database) of the budget organization that you want to migrate. You can query this value from the Define Budget Organizations form.
New Budget Org Name	Type the new budget org name of the budget organization as you want it to appear in the destination database after the migration. This gives you the ability to change the name of a budget org. If left blank, HP GL Migrator uses the name from the source database.
New User Budget Org Name	Type the new user budget org name of the budget organization as you want it to appear in the destination database after the migration. This gives you the ability to change the user name for a budget org. If left blank, HP GL Migrator uses the user name from the source database.
Budget Org From	See Common HP GL Migrator Parameters on page 77 .
To	See Common HP GL Migrator Parameters on page 77 .
Budget Org Like	See Common HP GL Migrator Parameters on page 77 .
*Save To Archive	See Common HP GL Migrator Parameters on page 77 .
Version Label	See Common HP GL Migrator Parameters on page 77 .
Version Desc	See Common HP GL Migrator Parameters on page 77 .
*Recover from Archive	See Common HP GL Migrator Parameters on page 77 .
From Version Label	See Common HP GL Migrator Parameters on page 77 .
*Overwrite if Exists	See Common HP GL Migrator Parameters on page 77 .

Migrate Consolidations Migrator

The Migrate Consolidations migrator prompts the user for parameters enabling migration of user-selected Consolidation Mapping(s) from a source database to a destination database. The migration is accompanied by an output file displaying all migrated entities along with the status or error codes associated with each record in migration.



This migrator does not support downward migration.

Use the standard menu path **Other > Requests > Run** to launch the Migrate Consolidations migrator. *Table 9-2* lists and describes its parameters.

Table 9-2. Migrate Consolidations migrator parameters (page 1 of 2)

Parameter Name (*Required)	Description
*Source Database	See Common HP GL Migrator Parameters on page 77 .
*Dest Database	See Common HP GL Migrator Parameters on page 77 .
*Run Type	See Common HP GL Migrator Parameters on page 77 .
*Selection Type	See Common HP GL Migrator Parameters on page 77 .
Parent Set of Books/ Ledger Name	If you want to consolidate to a different Parent Set of Books/Ledger at the destination database, then type the Set of Books Name/Ledger Name here. This parameter is not required and if you leave it blank, the Parent Set of Books/Ledger at the destination database will be same as it is in the source database.
Specific Consolidation	See Common HP GL Migrator Parameters on page 77 . Type the current Name (as named in source database) of the Consolidation you want to migrate. You can query this value from the Define Consolidations form.
New Consolidation Name	See Common HP GL Migrator Parameters on page 77 .

Table 9-2. Migrate Consolidations migrator parameters (page 2 of 2)

Parameter Name (*Required)	Description
New Description	If you want to change the description of the consolidation, type the new description here. If left blank, the migrator uses the description as it exists in the source database.
Consolidation From	See Common HP GL Migrator Parameters on page 77 .
To	See Common HP GL Migrator Parameters on page 77 .
Consolidation Like	See Common HP GL Migrator Parameters on page 77 .
*Save To Archive	See Common HP GL Migrator Parameters on page 77 .
Version Label	See Common HP GL Migrator Parameters on page 77 .
Version Desc	See Common HP GL Migrator Parameters on page 77 .
*Recover From Archive	See Common HP GL Migrator Parameters on page 77 .
From Version Label	See Common HP GL Migrator Parameters on page 77 .
*Overwrite if Exists	See Common HP GL Migrator Parameters on page 77 .

Migrate Cross Validation Rules Migrator

The Migrate Cross Validation Rules migrator prompts the user for parameters enabling migration of user selected Cross Validation Rule(s) from a source database and application to a destination database and application. The migration is accompanied by an output file displaying all migrated entities along with the status or error codes associated with each record in migration.

Use the standard menu path **Other > Requests > Run** to launch the Migrate Cross Validation Rules migrator. *Table 9-3* lists and describes its parameters.

Table 9-3. Migrate Cross Validation Rules migrator parameters (page 1 of 2)

Parameter Name (*Required)	Description
*Source Database	See Common HP GL Migrator Parameters on page 77 .
*Dest Database	See Common HP GL Migrator Parameters on page 77 .
*Run Type	See Common HP GL Migrator Parameters on page 77 .
*Selection Type	See Common HP GL Migrator Parameters on page 77 .
*Application	Select the application the cross validation is tied to.
*Source Flexfield Structure	Select the Flexfield Structure tied to the Cross Validation Rule at the source database.
*Dest Flexfield Structure	Select the Flexfield Structure at the destination database to which you want to migrate the Cross Validation Rule(s).
Specific Cross Validation Rule	See Common HP GL Migrator Parameters on page 77 . Type the current Name (as named in the source database) of the Cross Validation Rule that you want to migrate. You can query this value from the Define Cross Validation Rules form.
New Cross Validation Rule Name	See Common HP GL Migrator Parameters on page 77 .
New Description	If you want to change the description of the cross validation rule, type the new description here. If left blank, the migrator uses the description as it exists in the source database.

Table 9-3. Migrate Cross Validation Rules migrator parameters (page 2 of 2)

Parameter Name (*Required)	Description
Cross Validation Rule From	See <i>Common HP GL Migrator Parameters</i> on page 77.
To	See <i>Common HP GL Migrator Parameters</i> on page 77.
Cross Validation Rule Like	See <i>Common HP GL Migrator Parameters</i> on page 77.
*Save to Archive	See <i>Common HP GL Migrator Parameters</i> on page 77.
Version Label	See <i>Common HP GL Migrator Parameters</i> on page 77.
Version Desc	See <i>Common HP GL Migrator Parameters</i> on page 77.
*Recover from Archive	See <i>Common HP GL Migrator Parameters</i> on page 77.
From Version Label	See <i>Common HP GL Migrator Parameters</i> on page 77.
*Overwrite if Exists	See <i>Common HP GL Migrator Parameters</i> on page 77.

Migrate FSG Row/Col Sets Migrator

The Migrate FSG Row/Col Sets migrator prompts the user for parameters enabling migration of the user selected FSG Row/Col Sets from a source database to a destination database. The migration is accompanied by an output file displaying all migrated entities along with the status or error codes associated with each record in migration.

Before migrating FSG row/column sets, make sure that if the following entities are referenced by the Row Set or Column Set in the source database, they also exist in the destination database prior to the migration:

- Flexfield structures
- Standard axes
- Set of books/ledger

Use the standard menu path **Other > Requests > Run** to launch the Migrate FSG Row/Col Sets migrator. *Table 9-4* lists and describes its parameters.

Table 9-4. Migrate FSG Row/Col Sets migrator parameters (page 1 of 2)

Parameter Name (*Required)	Description
*Source Database	See <i>Common HP GL Migrator Parameters</i> on page 77.
*Dest Database	See <i>Common HP GL Migrator Parameters</i> on page 77.
*Set Type	Type the type of FSG Sets to migrate: <ul style="list-style-type: none"> • Column to migrate FSG Column Sets • Row to migrate FSG Row Sets
*Selection Type	See <i>Common HP GL Migrator Parameters</i> on page 77.
Specific Row/Column Set	See <i>Common HP GL Migrator Parameters</i> on page 77. Type the name (as named in source database) of the FSG Row Set or FSG Column Set to migrate. You can query this value from the Define Row Set or Define Column Set form. The list of values for this parameter does not limit the values by Set Type.
New Row/Column Set	See <i>Common HP GL Migrator Parameters</i> on page 77.
Row/Column Set From	See <i>Common HP GL Migrator Parameters</i> on page 77.
To	See <i>Common HP GL Migrator Parameters</i> on page 77.
Row/Column Set Like	See <i>Common HP GL Migrator Parameters</i> on page 77.
*Save To Archive	See <i>Common HP GL Migrator Parameters</i> on page 77.
Version Label	See <i>Common HP GL Migrator Parameters</i> on page 77.
Version Desc	See <i>Common HP GL Migrator Parameters</i> on page 77.
*Recover from Archive	See <i>Common HP GL Migrator Parameters</i> on page 77.
From Version Label	See <i>Common HP GL Migrator Parameters</i> on page 77.
*Overwrite if Exists	See <i>Common HP GL Migrator Parameters</i> on page 77.

Table 9-4. Migrate FSG Row/Col Sets migrator parameters (page 2 of 2)

Parameter Name (*Required)	Description
Partials Allowed	See <i>Common HP GL Migrator Parameters</i> on page 77.
Report Only	Whether to generate a report without performing a migration.
Compare Only	Whether to compare data in the source and destination without performing a migration.

Migrate JE Sources Migrator

The Migrate JE Sources migrator prompts the user for parameters enabling migration of the user selected JE Source from a source database to a destination database. The migration is accompanied by an output file displaying all migrated entities along with the status or error codes associated with each record in migration.

Use the standard menu path **Other > Requests > Run** to launch the Migrate JE Sources migrator. *Table 9-5* lists and describes its parameters.

Table 9-5. Migrate JE Sources migrator parameters (page 1 of 2)

Parameter Name (*Required)	Description
*Source Database	See <i>Common HP GL Migrator Parameters</i> on page 77.
*Dest Database	See <i>Common HP GL Migrator Parameters</i> on page 77.
*Run Type	See <i>Common HP GL Migrator Parameters</i> on page 77.
*Selection Type	See <i>Common HP GL Migrator Parameters</i> on page 77.
Specific JE Source Name	See <i>Common HP GL Migrator Parameters</i> on page 77. Type the current Name (as named in source database) of the JE source you want to migrate. You can query this value from the Define JE Sources form.

Table 9-5. Migrate JE Sources migrator parameters (page 2 of 2)

Parameter Name (*Required)	Description
New JE Source Name	See Common HP GL Migrator Parameters on page 77 .
New JE Source Description	Description of the new JE Source.
JE Source From	See Common HP GL Migrator Parameters on page 77 .
To	See Common HP GL Migrator Parameters on page 77 .
JE Source Like	See Common HP GL Migrator Parameters on page 77 .
*Save To Archive	See Common HP GL Migrator Parameters on page 77 .
Version Label	See Common HP GL Migrator Parameters on page 77 .
Version Desc	See Common HP GL Migrator Parameters on page 77 .
*Recover from Archive	See Common HP GL Migrator Parameters on page 77 .
From Version Label	See Common HP GL Migrator Parameters on page 77 .
*Overwrite if Exists	See Common HP GL Migrator Parameters on page 77 .

Migrate Journal Categories Migrator

The Migrate Journal Categories migrator prompts the user for parameters enabling migration of the user selected Journal Category from a source database to a destination database. The migration is accompanied by an output file displaying all migrated entities along with the status or error codes associated with each record in migration.

Use the standard menu path **Other > Requests > Run** to launch the Migrate Journal Categories migrator. [Table 9-6](#) lists and describes its parameters.

Table 9-6. Migrate Journal Categories migrator parameters

Parameter Name (*Required)	Description
*Source Database	See Common HP GL Migrator Parameters on page 77 .
*Destination Database	See Common HP GL Migrator Parameters on page 77 .
*Run Type	See Common HP GL Migrator Parameters on page 77 .
*Selection Type	See Common HP GL Migrator Parameters on page 77 .
Specific Journal Category	See Common HP GL Migrator Parameters on page 77 . Type the current Name (as named in source database) of the journal category you want to migrate. You can query this value from the Define Journal Categories form.
New Journal Category Name	See Common HP GL Migrator Parameters on page 77 .
New Description	See Common HP GL Migrator Parameters on page 77 . If you want to change the description of the journal category, type the new description here. If left blank, the migrator uses the description as it exists in the source database.
Journal Category From	See Common HP GL Migrator Parameters on page 77 .
To	See Common HP GL Migrator Parameters on page 77 .
Journal Category Like	See Common HP GL Migrator Parameters on page 77 .
*Save To Archive	See Common HP GL Migrator Parameters on page 77 .
Version Label	See Common HP GL Migrator Parameters on page 77 .
Version Desc	See Common HP GL Migrator Parameters on page 77 .
*Recover from Archive	See Common HP GL Migrator Parameters on page 77 .
From Version Label	See Common HP GL Migrator Parameters on page 77 .
*Overwrite if Exists	See Common HP GL Migrator Parameters on page 77 .

Migrate Mass Allocations Migrator

The Migrate Mass Allocations migrator prompts the user for parameters enabling migration of a user-selected mass allocation or budget from a source database to a destination database. The migration is accompanied by an output file displaying all migrated entities along with the status or error codes associated with each record in migration.

The Validate Mass Allocations concurrent program is submitted at the destination database after successful migration of mass allocations or budgets. The Concurrent Request ID(s) of the submitted request are listed in the Concurrent Request log file of the migration. Users are advised to review the requests at the destination database and take any necessary actions.

The migrated mass allocations or budgets at the destination database will have a status of Non-Validated. The status will be updated as appropriate by the Validate Mass Allocations concurrent program.

Use the standard menu path **Other > Requests > Run** to launch the Migrate Mass Allocations migrator. *Table 9-7* lists and describes its parameters.

Table 9-7. Migrate Mass Allocations migrator parameters (page 1 of 2)

Parameter Name (*Required)	Description
*Source Database	See <i>Common HP GL Migrator Parameters</i> on page 77.
*Destination Database	See <i>Common HP GL Migrator Parameters</i> on page 77.
*Run Type	See <i>Common HP GL Migrator Parameters</i> on page 77.
*Set of Books/Ledger	Select the set of books/ledgers tied to the mass allocation or budget.
*Balance Type	Select the balance type of the mass allocation or budget.
*Selection Type	See <i>Common HP GL Migrator Parameters</i> on page 77.

Table 9-7. Migrate Mass Allocations migrator parameters (page 2 of 2)

Parameter Name (*Required)	Description
Specific Mass Allocation/ Budget	See Common HP GL Migrator Parameters on page 77 . Type the current Mass Allocation/Budget Name (as named in source database) of the mass allocation/budget that you want to migrate. You can query this value from the Define Mass Allocation form or the Define Budget form.
New Mass Allocation/ Budget Name	See Common HP GL Migrator Parameters on page 77 .
New Description	If you want to change the description of the mass allocation or budget, type the new description here. If left blank, the migrator uses the description as it exists in the source database.
Mass Allocation/Budget From	See Common HP GL Migrator Parameters on page 77 .
To	See Common HP GL Migrator Parameters on page 77 .
Mass Allocation/Budget Like	See Common HP GL Migrator Parameters on page 77 .
*Save to Archive	See Common HP GL Migrator Parameters on page 77 .
Version Label	See Common HP GL Migrator Parameters on page 77 .
Version Desc	See Common HP GL Migrator Parameters on page 77 .
*Recover from Archive	See Common HP GL Migrator Parameters on page 77 .
From Version Label	See Common HP GL Migrator Parameters on page 77 .
*Overwrite if Exists	See Common HP GL Migrator Parameters on page 77 .
*Partial Allowed	See Common HP GL Migrator Parameters on page 77 .

Migrate Summary Templates Migrator

The Migrate Summary Templates migrator prompts the user for parameters enabling migration of user selected Summary Template(s) from a source database to a destination database. The migration is accompanied by an output file displaying all migrated entities along with the status or error codes associated with each record in migration.

The Add/Delete Summary Accounts concurrent program is submitted at the destination database for each successfully migrated Summary Template. The Concurrent Request ID(s) of the submitted requests are listed in the Concurrent Request log file of the migration. Users are advised to review the requests at the destination database and take any necessary actions.



The Overwrite parameter is not available for this migration. If a summary account template already exists in the destination, the migration fails.

Use the standard menu path **Other > Requests > Run** to launch the Migrate Summary Templates migrator. *Table 9-8* lists and describes its parameters.

Table 9-8. Migrate Summary Templates migrator parameters (page 1 of 2)

Parameter Name (*Required)	Description
*Source Database	See <i>Common HP GL Migrator Parameters</i> on page 77.
*Dest Database	See <i>Common HP GL Migrator Parameters</i> on page 77.
*Run Type	See <i>Common HP GL Migrator Parameters</i> on page 77.
*Selection Type	See <i>Common HP GL Migrator Parameters</i> on page 77.
*From Set of Books Name/Ledger Name	See <i>Common HP GL Migrator Parameters</i> on page 77.
*New Set of Books Name/Ledger Name	See <i>Common HP GL Migrator Parameters</i> on page 77.

Table 9-8. Migrate Summary Templates migrator parameters (page 2 of 2)

Parameter Name (*Required)	Description
Specific Summary Template	See Common HP GL Migrator Parameters on page 77 . Type the current Name (as named in source database) of the summary template which you want to migrate. You can query this value from the Define Summary Templates form.
New Summary Template Name	See Common HP GL Migrator Parameters on page 77 .
New Description	See Common HP GL Migrator Parameters on page 77 .
Summary Templates From	See Common HP GL Migrator Parameters on page 77 .
To	See Common HP GL Migrator Parameters on page 77 .
Summary Templates Like	See Common HP GL Migrator Parameters on page 77 .
*Save to Archive	See Common HP GL Migrator Parameters on page 77 .
Version Label	See Common HP GL Migrator Parameters on page 77 .
Version Desc	See Common HP GL Migrator Parameters on page 77 .
*Recover From Archive	See Common HP GL Migrator Parameters on page 77 .
From Version Label	See Common HP GL Migrator Parameters on page 77 .

10 Using HP GL Migrator with HP Deployment Management

Overview of Using HP GL Migrator with HP Deployment Management

When the HP Deployment Management Extension for Oracle E-Business Suite is installed with PPM Center, you can manage migrations of Oracle E-Business Suite General Ledger setup entities from the HP Deployment Management module in PPM Center rather than from the Oracle E-Business Suite instance, which is then used only to host HP GL Migrator and HP Object Migrator.

HP Deployment Management is designed to automate the deployment of technology solutions. Business system components created or modified by an initiative are grouped into HP Deployment Management packages. These packages have workflows associated with them that automate the process of moving each package through required steps, which typically involve system build, testing, quality assurance, staging, and final deployment. HP Deployment Management automatically deploys the application components necessary for each package.

For example, this software will connect to the development environment, copy SQL scripts from the version control repository and transfer the files to the quality assurance environment. It will then use SQL*Plus to load the stored procedures defined in the SQL script. A built-in scheduler allows the customer to schedule deployments. HP Deployment Management maintains an audit trail for all activities including package information, application components altered, approvals obtained and deployments performed.

For more information, see:

- *HP Deployment Management User's Guide*
- *HP Deployment Management Extension for Oracle E-Business Suite Guide*
- *System Requirements and Compatibility Matrix* for the appropriate version of PPM Center

Running HP GL Migrator from HP Deployment Management

HP GL Migrator migrations can be run directly through HP Deployment Management after the HP Deployment Management Extension for Oracle E-Business Suite has been installed and configured. The Extension includes a pre-defined object type for each type of object migrated using HP GL Migrator.

As part of the Extension configuration, the PPM Center administrator will have set up the appropriate workflows to control data migrations and enforce promotion rules such as testing approvals. The Extension includes best practice sample workflows for this purpose.

In HP Deployment Management, users create package lines that specify the migration of GL objects. Package lines that include GL objects call HP GL Migrator to execute the migration. Packages in HP Deployment Management can contain both GL and non-GL package lines, which enables related code to migrate together with its configurations.

To create a package to migrate GL objects in HP Deployment Management:

1. Open the PPM Workbench. See the *Getting Started* guide for details.
2. From the shortcut bar, select **Change Mgmt > Packages**.
3. In the Package Workbench, click **New Package** to create a new package.

The Package window opens.

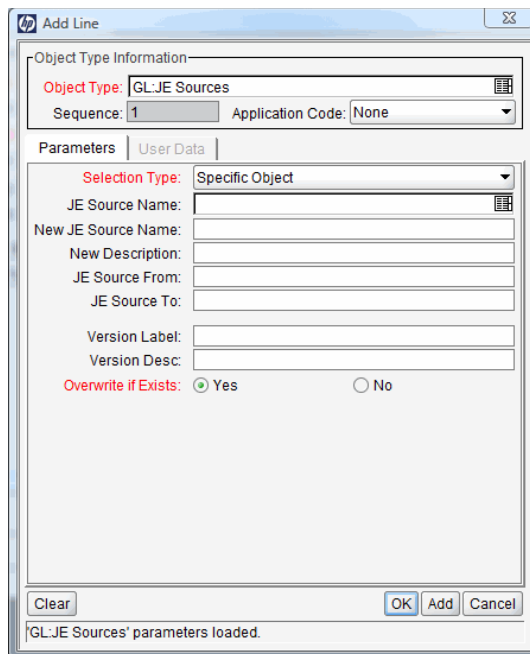
4. Complete the fields in the **Package Information** section.

5. Click **New Line** on the Package window.

The Add Line window opens, displaying a list of object types that can be used.

6. In the **Object Type** field, select the object type to be migrated.

The Add Line window refreshes to display the parameters required to migrate the specific object. See the example in the following figure. For a description of each parameter, see the *HP Deployment Management Extension for Oracle E-Business Suite Guide*. Both the application name and the specific object name are validated against the source environment in the workflow. The version label and version description are used only if the workflow is configured to use the object archive. The source and destination environments are designated by the workflow.



7. Specify the parameters to describe the object.

8. Click **OK** to save the package line.

After the package line has been typed and the package submitted, the GL object moves through the workflow like any other package line in HP Deployment Management.

Processing Packages in HP Deployment Management

Once eligible, users can migrate the selected objects to the destination environment. When an action step in a workflow is executed, HP Deployment Management submits a concurrent request to run HP GL Migrator. It prints the concurrent request ID for the package line and displays the status of the concurrent request after it completes. See the example in *Figure 10-1*.

Figure 10-1. Processing a package in HP Deployment Management

The screenshot shows the 'Package: 30117' window. The 'Package Information' section includes:

- Package No.: 30117
- Package Group: [empty]
- Created By: Admin User
- Description: Dev to Test Migrators
- Created On: June 28, 2011
- Workflow: Standard Production deployment Workflow
- Package Status: In Progress
- Assigned User: Admin User
- Priority: High
- Parent: [empty]
- Assigned Group: [empty]
- Package Type: Customization
- Priority Seq: 50
- Percent Complete: 0

The 'Package Lines' tab is active, showing a table with the following data:

Seq	Object Name	Object Type	1 Migration Approval	2 VIS 12 to VIS 1211 Oracle Environments
1	GLM_V12_SOUR...	GLJE Sources	Approved	Eligible
2	GLM_V12_CAT01	GLJournal Categories	Eligible	

At the bottom of the window, there are buttons for 'Refresh', 'Select All', '+ All', '- All', 'View -->', 'Line Exec Log (Latest)', and 'Action'. A 'Submit' button is also present, along with 'OK', 'Save', and 'Cancel' buttons at the bottom right. The status bar at the very bottom reads 'Ready'.

When migrating multiple GL objects using multiple request lines, HP Deployment Management automatically runs the concurrent requests serially based on object dependencies. As an additional feature, the report output of the selected HP GL Migrator concurrent request can be viewed directly from HP Deployment Management Package window by selecting the log file from the drop-down list in the **Status** tab and clicking **View**. See the example with report output and log file links in *Figure 10-2*.

Figure 10-2. Links to concurrent request logs in PPM Center

HP Project and Portfolio Management © 2010 [Package Execution Log History](#)
Execution Log for Batch 34960 - Line 1 [Line Execution Log History](#)
[Batch Execution Log](#)

Object	GLJE Sources - GLM_V12_SOURCE01
Package No.	30117
Workflow	Standard Production deployment Workflow
Workflow Step	2 - VIS 12 to VIS 1211 Oracle Environments
Started	June 28, 2011 02:02:34 PM PDT

[Show Debugging Details](#)

KSC GL MIGRATE

Source Command: CLGMRJS1

Successfully submitted: CLGMRJS1
Concurrent Request ID: 4469192

HP Project and Portfolio Management © 2010
Concurrent Request Output

Completion Text	Normal completion
Parent Conc. Request ID	

Logfile: [ITGACES02 - /apps/VIS12/inst/apps/VIS12_itgaces02/logs/appl/conc/log/4469192.reg](#)
Outfile: [ITGACES02 - /apps/VIS12/inst/apps/VIS12_itgaces02/logs/appl/conc/out/04469192.out](#)

For more information, see the *HP Deployment Management User's Guide*.

A Exception Messages

This appendix lists and describes the HP GL Migrator exception messages.

HP GL Migrator exception messages fall into the following categories:

- **Internal Error Messages.** Require action, are generally caused by some system problem, and should be passed directly to the system administrator for follow-up with HP.
- **Error Messages.** Require action, are generally caused by some form of invalid data, and can often be resolved by the user.
- **Warning Messages.** Do not require action but often provide useful information or a reminder to the user.

The following table includes the HP GL Migrator exception messages in numerical order, with their causes and recovery actions to take.

In the statements of causes and actions, “indicated” refers to the particular data that HP GL Migrator provided in the messages where that data is shown in the table in the format *<variables>*. In the variables, “COA” stands for chart of accounts and “SOB” stands for set of books. If the same type of variable appears twice with different values in the same error message, its occurrences in the message are designated by different numbers, as in *<COA1>* and *<COA2>*, or *<size1>* and *<size2>*.

Also, in the statements of causes and actions, “specified” refers to parameters you specified to perform an action such as running a migrator.

Message: CLGM-1001	Freeze Flexfield Definition not enabled for COA <COA name> at the Source.
Cause	The flexfield definition is frozen for the indicated chart of accounts referenced by the entity at the source database.
Action	Disable the Freeze flag in the flexfield definition for the chart of accounts at the source database.
Message: CLGM-1002	Freeze Flexfield Definition not enabled for COA <COA name> at the Destination.
Cause	The flexfield definition is frozen for the indicated chart of accounts referenced by the entity at the destination database.
Action	Disable the Freeze flag in the flexfield definition for the chart of accounts at the destination database.
Message: CLGM-1003	Mismatch in Application Columns (SEGMENT) in Segment No <segment value> for the COA <COA name>.
Cause	The application column values in the indicated flexfield segment do not match for the indicated chart of accounts.
Action	Ensure that the chart of accounts flexfield segments have common application column values.
Message: CLGM-1004	Mismatch in Data Type of the Value Set for Segment <segment name> - <COA name>(src),<COA name>(dest).
Cause	The data types associated with the value set for the indicated flexfield segment do not match for the indicated source and destination chart of accounts.
Action	Define data types that match.
Message: CLGM-1005	COA <COA name> Does not Exist at the Destination.
Cause	The indicated chart of accounts does not exist in the destination database.
Action	Create the chart of accounts in the destination database.
Message: CLGM-1006	Mismatch in Segment Size for Segment <segment name>, <COA name>(src) is <size1> and <COA name>(dest) is <size2>.
Cause	For the indicated flexfield segment, the indicated chart of accounts has the indicated different sizes for the source and destination.
Action	Define segment sizes that match.

Message: CLGM-1007	Mismatch in Value Set for Segment No. <i><segment value></i> , Value Set <i><value set name1></i> is used by <i><COA name>(src)</i> and <i><value set name2></i> is used by <i><COA name>(dest)</i> .
Cause	For the indicated flexfield segment, the indicated different value sets are used by the indicated chart of accounts for the source and destination.
Action	Define value sets that match.
Message: CLGM-1008	Value Set <i><value set name></i> used by COA <i><COA name></i> in Segment <i><segment name></i> should be of type Independent at Source.
Cause	The indicated value set used by the indicated chart of accounts in the indicated flexfield segment in the source is not of the type Independent.
Action	Modify the value set in the definition to type Independent at the source.
Message: CLGM-1009	Value Set <i><value set name></i> used by COA <i><COA name></i> in Segment <i><segment name></i> should be of type Independent at Destination.
Cause	The indicated value set used by the indicated chart of accounts in the indicated flexfield segment in the destination is not of the type Independent.
Action	Modify the value set in the definition to type Independent at the destination.
Message: CLGM-1010	Segment <i><segment name></i> is <i><status1></i> for <i><COA name>(src)</i> and <i><status2></i> for <i><COA name>(dest)</i> .
Cause	The indicated segment in the flexfield definition has the indicated status for the indicated chart of accounts in the source database, and the indicated different status for the corresponding chart of accounts in the destination database.
Action	Enable or disable the status of the indicated segment in the flexfield definition for the indicated chart of accounts.
Message: CLGM-1011	Mismatch in Required Flag for Segment <i><segment name></i> - <i><COA name>(src)</i> has it <i><flag1></i> and <i><COA name>(dest)</i> has it <i><flag2></i> .
Cause	The Required flag for the indicated segment in the flexfield definition for the indicated chart of accounts in the source database is different from the indicated Required flag for the corresponding chart of accounts in the destination database.
Action	Enable or disable the Required flag for the indicated segment in the flexfield definition for the indicated chart of accounts.

Message: CLGM-1012	Mismatch in Security Flag for Segment <segment name> - <COA name>(src) has it <flag1> and <COA name>(dest) has it <flag2>.
Cause	The Security flag for the indicated segment in the flexfield definition for the indicated chart of accounts in the source database is different from the indicated Security flag for the corresponding chart of accounts in the destination database.
Action	Enable or disable the Security flag for the indicated segment in the flexfield definition for the indicated chart of accounts.
Message: CLGM-1013	Mismatch in Qualifier for Segment <segment name> - <COA name> is <flag1> and <COA name> is <flag2>.
Cause	The Qualifier for the indicated segment in the flexfield definition for the indicated chart of accounts in the source database is different from the indicated flag for the corresponding chart of accounts in the destination database.
Action	Enable or disable the Security flag for the indicated segment in the flexfield definition for the indicated chart of accounts.
Message: CLGM-1014	Mismatch in Number of Segments - <COA name>(src) has <value1> segments and <COA name>(dest) has <value2> segments.
Cause	The indicated chart of accounts in the source database has the indicated number of segments, and the corresponding chart of accounts in the destination database has the indicated different number of segments.
Action	Migrate the entity between charts of accounts that have an equal number of segments in their flexfield definitions.
Message: CLGM-1015	Application Column mismatch in Segment<segment name>, <value1> is used by <COA name>(src) and <value2> is used by <COA name>(dest).
Cause	For the indicated flexfield segment, the indicated application column value is used by the indicated chart of accounts in the source, and the indicated different application column value is used by the corresponding chart of accounts in the destination.
Action	Be sure the chart of accounts flexfield segments have common application column values.

Message: CLGM-1016	Cross Segment validation flag not enabled for COA <COA name> at the Destination.
Cause	The Cross-Validate Segments flag is disabled for the indicated chart of accounts at the destination.
Action	Enable the Cross-Validate Segments flag for the indicated chart of accounts at the destination.
Message: CLGM-2500	Error: Row/Col Set <Row/Col set name> already exists.
Cause	The indicated new Row/Col Set already exists in the destination address.
Action	Run the Migrate FSG Row/Col Sets migrator with the Overwrite if Exists parameter set to Yes.
Message: CLGM-3001	Account <combination> does not exist in the destination.
Cause	The indicated account or code combination in the source database does not exist in the destination database.
Action	Create the code combination at the destination database.
Message: CLGM-9000	You have not specified all the required parameters.
Cause	One or more required input parameters are missing.
Action	Specify all the required parameters.
Message: CLGM-9001	Database link to source not found in lookup table.
Cause	The database link defined for the source database does not exist in the lookup table.
Action	Define the database link in the lookup table in the source database.
Message: CLGM-9002	Both Source and Destination DBs cannot be Entity Archive.
Cause	Both the source and destination databases defined in the input parameters are labeled as Entity Archive.
Action	Modify one of the parameters to not be Entity Archive.
Message: CLGM-9003	Both Source and Destination DBs cannot be Open Interface.
Cause	Both the source and destination databases defined in the input parameters are labeled as Open Interface.
Action	Modify one of the parameters to not be Open Interface.

Message: CLGM-9004	Destination DB and Copy to Archive values are inconsistent.
Cause	The Copy to Archive value is inconsistent based on the type of migration and the destination database.
Action	Change the value for Copy to Archive so it is consistent with the type of migration and the destination database. See Common HP GL Migrator Parameters on page 77 .
Message: CLGM-9005	Source DB and Recover From Archive values are inconsistent.
Cause	The Recover from Archive value is inconsistent based on the source or destination database.
Action	Change the value for Recover from Archive so it is consistent with the source or destination database. See Common HP GL Migrator Parameters on page 77 .
Message: CLGM-9006	New Version Label must be entered.
Cause	You have not entered the New Version label input parameter while saving to the archive.
Action	Enter the New Version label input parameter.
Message: CLGM-9007	Old Version Label must be entered.
Cause	You have not entered the Old Version label input parameter while recovering from archive.
Action	Enter the Old Version label input parameter.
Message: CLGM-9008	Report Only cannot be Yes if the Destination DB is Open Interface.
Cause	The Report Only input parameter is set to Yes while migrating to the open interface.
Action	Set the Report Only input parameter to No.
Message: CLGM-9009	Compare Only cannot be Yes if Copying to Entity Archive.
Cause	The Run Type parameter is set to Comparison while copying to the entity archive.
Action	Set the Run Type parameter to Migration or Simulation.

Message: CLGM-9010	Compare Only cannot be Yes if Destination DB is Open Interface.
Cause	The Run Type parameter is set to Comparison while migrating to the open interface.
Action	Set the Run Type parameter to Migration or Simulation.
Message: CLGM-9011	Report Only cannot be Yes if Copying to Entity Archive.
Cause	The Report Only input parameter is set to Yes while migrating to the entity archive.
Action	Set the Report Only input parameter to No while migrating to the entity archive.
Message: CLGM-9012	Version Labels are identical.
Cause	Version labels are the same for a comparison of the same entities in the entity archive.
Action	Make the version labels different.
Message: CLGM-9013	New Application <application name> does not exist on the destination database.
Cause	The indicated new application does not exist in the destination database.
Action	Create the new application in the destination database.
Message: CLGM-9014	Database link to destination not found in lookup table.
Cause	The database link defined for the destination database does not exist in the lookup table.
Action	Define the database link for the source database in the lookup.
Message: CLGM-9015	No entites were successfully migrated. See report for details.
Cause	No entities were migrated successfully to the destination database.
Action	See the output file of the migration for details.
Message: CLGM-9016	Internal Error: Error getting <entity>.<entity_id>. Contact Mercury Support.
Cause	An internal error has occurred.
Action	Contact HP Software Support.

Message: CLGM-9017	Flexfield Structures from the Source and Destination databases do not match. See Flexfield Comparison page for details.
Cause	The flexfield structure associated with the entity in the source database does not match the structure in the destination database.
Action	Review the output file of the migration to find the differences.
Message: CLGM-9018	Unable to submit conc.program - <program name> using <link name>.
Cause	The indicated program cannot be submitted because the program does not exist or the indicated database link to the destination is missing or specified incorrectly.
Action	Verify the concurrent program's existence and submission at the destination and the database links to the destination.
Message: CLGM-9019	"open_links" database parameter is less than number of enabled database values. See Appendix F in SysAdmin Guide.
Cause	The value of the open_links database parameter is too low.
Action	Increase the number defined for the open_links parameter. See open_links Database Parameter for Database Access on page 92.
Message: CLGM-9020	Value Set <value set name> does not exist.
Cause	The indicated value set does not exist.
Action	Check for the existence of the value set and contact HP Software Support.
Message: CLGM-9021	Maximum size for the New <entity name> is <value 1>, entered value has <value 2> characters.
Cause	For the indicated new entity having the indicated maximum size, the entered value has the indicated number of characters, which exceeds the maximum allowed.
Action	Change the value to a number within the allowed limit.
Message: CLGM-10000	Journal Sources <Journal Sources name> already exists in the New Version Label <label>.
Cause	The indicated Journal Sources being saved to the entity archive already exist in the indicated version label.
Action	Either save the Journal Sources to another version label or use the Purge Entity Archive Versions program to remove the Journal Sources from the version label.

Message: CLGM-10001	Journal Sources exists in the dest. database and overwrite is not allowed.
Cause	The specified Journal Sources already exist in the destination database and the Overwrite if Exists parameter is set to No.
Action	Run the Migrate JE Sources migrator with the Overwrite if Exists parameter set to Yes.
Message: CLGM-10002	Journal Sources Title already exists in the destination database.
Cause	The specified new user journal source name already exists in the destination database.
Action	Try migrating the Journal Source with a different new user Journal Source name.
Message: CLGM-11001	Journal Category <Journal Category name> already exists in the New Version Label <label>.
Cause	The indicated Journal Category being saved to the entity archive already exists in the indicated version label.
Action	Either save the Journal Category to another version label or use the Purge Entity Archive Versions program to remove the Journal Category from the version label.
Message: CLGM-11002	Journal Category <Journal Category name> exists in the dest. database and overwrite is not allowed.
Cause	The indicated Journal Category already exists in the destination database and the Overwrite if Exists parameter is set to No.
Action	Run the Migrate Journal Categories migrator with the Overwrite if Exists parameter set to Yes.
Message: CLGM-12000	Mass Allocation/Budget - <Mass Allocation/Budget name> exists in the destination database and overwrite is not allowed.
Cause	The indicated Mass Allocation/Budget already exists in the destination database and the Overwrite if Exists parameter is set to No.
Action	Run the Migrate Mass Allocations migrator with the Overwrite if Exists parameter set to Yes.
Message: CLGM-12001	Chart of Accounts - <COA name> does not exist in the destination database.
Cause	The indicated chart of accounts does not exist in the destination database.
Action	Create the indicated chart of accounts in the destination database.

Message: CLGM-12002	JE Category - <Journal Category name> does not exist in the destination database.
Cause	The indicated Journal Category referenced by the entity in migration does not exist in the destination database prior to migration.
Action	Create the indicated Journal Category in the destination database.
Message: CLGM-12003	Currency code - <code> does not exist in the destination database.
Cause	The indicated currency code referenced by the entity in migration does not exist in the destination database prior to migration.
Action	Create the indicated currency code in the destination database.
Message: CLGM-12004	Budget - <budget name> does not exist in the destination database.
Cause	The indicated budget referenced by the entity in migration does not exist in the destination database prior to migration.
Action	Create the indicated budget in the destination database.
Message: CLGM-12005	Encumbrance Type - <encumbrance type name> does not exist in the destination database.
Cause	The indicated encumbrance type referenced by the entity in migration does not exist in the destination database prior to migration.
Action	Create the indicated encumbrance type in the destination database.
Message: CLGM-12006	Mass Allocation/Budget - <Mass Allocation/Budget name> already exists in the New Version Label <label>.
Cause	The indicated Mass Allocation/Budget being saved to the entity archive already exists in the indicated version label.
Action	Either save the Mass Allocation/Budget to another version label or use the Purge Entity Archive Versions program to remove the Mass Allocation/Budget from the version label.
Message: CLGM-12007	Set of Books does not exist in the Destination.
Cause	The specified set of books does not exist in the destination database.
Action	Either migrate to another set of books or create a new set of books.

Message: CLGM-12008	Chart of Accounts does not exist in the Destination.
Cause	The specified chart of accounts does not exist in the destination database.
Action	Either migrate to another chart of accounts or create a new set of books that has the same chart of accounts as the source.
Message: CLGM-12009	Segment Value <segment value> associated with the Chart of Accounts does not exist in the destination database.
Cause	The indicated segment value referenced in the code combination or account of the entity in migration does not exist in the destination database prior to migration.
Action	Create the segment value or the account at the destination.
Message: CLGM-12010	Chart of Accounts does not exist in the Source.
Cause	The specified chart of accounts does not exist in the source database.
Action	Verify the associated chart of accounts for the specified set of books in the source database.
Message: CLGM-12011	Ledger does not exist at the Destination.
Cause	The specified ledger does not exist in the destination database.
Action	Either migrate to another ledger or create a new ledger.
Message: CLGM-12012	Set of Books does not exist at the source.
Cause	The specified set of books does not exist in the source database.
Action	Create a new set of books.
Message: CLGM-12013	Ledger does not exist at the source.
Cause	The specified ledger does not exist at the source database.
Action	Create a new ledger.

Message: CLGM-13001	Cross Validation Rule - <i><rule name></i> exists in the destination database and overwrite is not allowed.
Cause	The indicated Cross Validation Rule already exists in the destination database and the Overwrite if Exists parameter is set to No.
Action	Run the Cross Validation Rules migrator with the Overwrite if Exists parameter set to Yes.
Message: CLGM-13002	Cross Validation Rule - <i><rule name></i> already exists in the New Version Label <i><label></i> .
Cause	The indicated Cross Validation Rule being saved to the entity archive already exists in the indicated version label.
Action	Either save the Cross Validation Rule to another version label or use the Purge Entity Archive Versions program to remove the Cross Validation Rule from the version label.
Message: CLGM-15000	Budget Organization Exists at the Destination and Override parameter is set to No.
Cause	The specified budget organization already exists in the destination database and the Overwrite if Exists parameter is set to No.
Action	Run the Migrate Budget Organizations migrator with the Overwrite if Exists parameter set to Yes.
Message: CLGM-15001	Budget Funding does not exists at the destination.
Cause	The specified budget funding referenced by the entity in migration does not exist in the destination database prior to migration.
Action	Create the specified budget funding in the destination database.
Message: CLGM-15002	Budget Ranges Overlap with an existing Budget at the Destination.
Cause	Budget ranges defined for the budget organization in the source database overlap with an existing budget at the destination database.
Action	Be sure that the budget ranges do not overlap with an existing budget at the destination.
Message: CLGM-15003	Error in the Chart of Accounts <i><COA name></i> .
Cause	The indicated chart of accounts associated with the set of books at the source database does not match the chart of accounts associated with the set of books at the destination database.
Action	Verify the details of the chart of accounts in the output file of the migration.

Message: CLGM-15004	Set of Books uses a different COA at the Destination.
Cause	The chart of accounts associated with the set of books at the source database does not match the chart of accounts associated with the set of books at the destination database.
Action	Either migrate to the set of books that matches the chart of account details or associate the appropriate chart of accounts to the set of books.
Message: CLGM-15005	Set of Books does not exists at the destination.
Cause	The specified set of books does not exist in the destination database.
Action	Either migrate to another set of books or create a new set of books.
Message: CLGM-15006	Budget Org <i><budget organization name></i> already exists in the Archive with <i><label></i> Version label.
Cause	The indicated budget organization being saved to the entity archive already exists in the indicated version label.
Action	Either save the budget organization to another version label or use the Purge Entity Archive Versions program to remove the budget organization from the version label.
Message: CLGM-15007	Ledger does not exists at the destination.
Cause	The specified ledger does not exist in the destination database.
Action	Either migrate to another ledger or create a new ledger.
Message: CLGM-15008	Chart of Accounts does not exist in the Source.
Cause	The specified chart of accounts does not exist in the source database.
Action	Verify the associated chart of accounts for the specified set of books/ledger in the source database.
Message: CLGM-15009	Set of Books does not exists in the source.
Cause	The specified set of books does not exist in the source database.
Action	Create a new set of books.
Message: CLGM-15010	Ledger does not exists in the source.
Cause	The specified ledger does not exist in the source database.
Action	Create a new ledger.

Message: CLGM-15011	Chart of Accounts does not exist at the Destination.
Cause	The specified chart of accounts does not exist in the destination database.
Action	Either migrate to another chart of accounts or create a new ledger that has the same chart of accounts as the source.
Message: CLGM-18001	For <consolidation name> Consolidation <SOB name> SOB does not exist at the Destination.
Cause	For the indicated consolidation migration, the indicated set of books does not exist in the destination database.
Action	Migrate to another set of books or create a new set of books.
Message: CLGM-18002	For <consolidation name> Consolidation Subsidiary SOB in source is <SOB name1> and <SOB name2> at destination.
Cause	For the indicated consolidation, the indicated subsidiary set of books in the source database is different from the indicated subsidiary set of books in the destination database.
Action	Associate the consolidation at the destination with the same subsidiary set of books as the source.
Message: CLGM-18003	From SOB <SOB name> uses <Accounting Calendar1 or Period Types1 or Future Period1> calendar at the source and <Accounting Calendar2 or Period Types2 or Future Period2> at the destination.
Cause	For the indicated set of books, the calendar details for the indicated Accounting Calendar, Period Types, or Future Period in the source database do not match the corresponding calendar details in the destination database.
Action	Migrate to a valid set of books in the destination database that matches the calendar details.
Message: CLGM-18004	From SOB <SOB name> uses <code1> currency at source and <code2> at destination.
Cause	The indicated set of books referenced by the entity in migration uses the indicated currency code at the source and the indicated different currency code at the destination, and the currency code in the source must exist in the destination prior to migration.
Action	Create the currency code for the indicated set of books in the destination database.

Message: CLGM-18005	From SOB <SOB name> uses <COA name1> COA at source and <COA name2> COA at destination.
Cause	The indicated set of books uses the indicated chart of accounts at the source and the indicated different chart of accounts at the destination, and the chart of accounts in the source must exist in the destination.
Action	Either migrate to a set of books that match the chart of account details or associate the appropriate chart of accounts to the set of books.
Message: CLGM-18006	Error in COA <COA name>.
Cause	The indicated chart of accounts associated with the set of books at the source database does not match the chart of accounts associated with the set of books at the destination database.
Action	Verify the details of the chart of accounts in the output file of the migration.
Message: CLGM-18007	For <consolidation name> Consolidation <SOB name> to SOB is not there at the destination.
Cause	For the indicated consolidation, the indicated set of books does not exist in the destination database.
Action	Migrate to another set of books or create a new set of books.
Message: CLGM-18008	For <consolidation name> Consolidation Parent SOB is <SOB name1> at the source and <SOB name2> at the destination.
Cause	For the indicated consolidation, the indicated parent set of books in the source database is different from the indicated parent set of books in the destination.
Action	Associate both consolidations with the same parent set of books.
Message: CLGM-18009	From SOB <SOB name> uses <Accounting Calendar1 or Period Types1 or Future Period1> Calendar at source and <Accounting Calendar2 or Period Types2 or Future Period2> at destination.
Cause	For the indicated set of books, the calendar details for the indicated Accounting Calendar, Period Types, or Future Period in the source database do not match the corresponding calendar details in the destination database.
Action	Migrate to a valid set of books in the destination database that matches the calendar details.

Message: CLGM-18010	To SOB <SOB name> uses <Accounting Calendar1 or Period Types1 or Future Period1> calendar at source and <Accounting Calendar2 or Period Types2 or Future Period2> at destination.
Cause	For the indicated set of books, the calendar details for the indicated Accounting Calendar, Period Types, or Future Period in the source database do not match the corresponding calendar details in the destination database.
Action	Migrate to a valid set of books in the destination database that matches the calendar details.
Message: CLGM-18011	To SOB <SOB name> uses <code1> currency at source and <code2> at destination.
Cause	The indicated set of books referenced by the entity in migration uses the indicated currency code at the source and the indicated different currency code at the destination, and the currency code in the source must exist in the destination prior to migration.
Action	Create the currency code for the indicated set of books in the destination database.
Message: CLGM-18012	To SOB <SOB name> uses <COA name1> COA at source and <COA name2> at destination.
Cause	The indicated set of books uses the indicated chart of accounts at the source and the indicated different chart of accounts at the destination, and the chart of accounts in the source must exist in the destination.
Action	Either migrate to the set of books that matches the chart of account details or associate the appropriate chart of accounts to the set of books.
Message: CLGM-18013	Error in COA <COA name>.
Cause	The indicated chart of accounts associated with the set of books at the source database does not match the chart of accounts associated with the set of books at the destination database.
Action	Verify the details of the chart of accounts in the output file of the migration.
Message: CLGM-18014	For <consolidation name> consolidation <account name> Account Does Not exist at the destination.
Cause	For the indicated consolidation, the indicated parent account referenced in the account rules does not exist in the destination database.
Action	Create the indicated account at the destination.

Message: CLGM-18015	<flex value> Parent Flex Value Does Not Exists in <value set name> Value Set at the Destination.
Cause	The indicated parent flex value referenced by the entity in migration does not exist in the indicated value set at the destination database prior to migration.
Action	Include the parent flex value in the associated value set at the destination database.
Message: CLGM-18016	<rollup value> Parent Rollup Value Does Not Exists in <value set name> Value Set At the Destiantion.
Cause	The indicated parent rollup value referenced by the entity in migration does not exist in the indicated value set at the destination database prior to migration.
Action	Include the parent rollup value in the associated value set at the destination database.
Message: CLGM-18017	The Consolidation in the Archive was from a later version of Oracle Application.
Cause	The specified consolidation in the archive is of a higher version of Oracle E-Business Suite (Oracle Applications) than the destination database.
Action	Perform the consolidation migration to an equivalent or lower version of Oracle E-Business Suite.
Message: CLGM-18018	Migration of Consolidation to a lower version of Oracle Apps is not supported.
Cause	Migration of a consolidation from a higher version of Oracle E-Business Suite (Oracle Applications) to a lower version is not supported.
Action	Perform the consolidation migration to an equivalent or higher version of Oracle E-Business Suite.
Message: CLGM-18019	Consolidation exists in the Archive for the same Version label.
Cause	The consolidation being saved to the entity archive already exists in the specified version label.
Action	Either save the consolidation to another version label or use the Purge Entity Archive Versions program to remove the consolidation from the version label.

Message: CLGM-18020	Consolidation exists at the destination and Override flag is set to No.
Cause	The specified consolidation already exists in the destination database and the Overwrite if Exists parameter is set to No.
Action	Run the Migrate Consolidations migrator with the Overwrite if Exists parameter set to Yes.
Message: CLGM-18021	Parent SOB and Subsidiary SOB cannot be the same.
Cause	The parent set of books and the subsidiary set of books for the entity in migration are identical.
Action	Run the Migrate Consolidations migrator with different sets of books for the parent and the subsidiary.
Message: CLGM-19000	Summary Template - < <i>template name</i> > exists in the destination database and overwrite is not allowed.
Cause	The indicated summary template name already exists in the destination database. (The Overwrite if Exists option is not available for the Migrate Summary Templates migrator.)
Action	Run the Migrate Summary Templates migrator with another name that does not exist in the destination database.
Message: CLGM-19001	Chart of Accounts - < <i>COA name</i> > does not exist in the destination database.
Cause	The indicated chart of accounts does not exist in the destination database.
Action	Create the indicated chart of accounts in the destination database.
Message: CLGM-19002	Budget - < <i>budget name</i> > does not exist in the destination database.
Cause	The indicated budget referenced by the entity in migration does not exist in the destination database prior to migration.
Action	Create budgets in the destination database.
Message: CLGM-19003	Start Actuals Period - < <i>period name</i> > does not exist in the destination database.
Cause	The indicated start actuals period referenced by the entity in migration does not exist in the destination database prior to migration.
Action	Create start actual periods in the destination database.

Message: CLGM-19004	Summary Template - <i><template name></i> already exists in the New Version Label <i><label></i> .
Cause	The indicated summary template being saved to the entity archive already exists in the indicated version label.
Action	Either save the summary template to another version label or use the Purge Entity Archive Versions program to remove the summary template from the version label.
Message: CLGM-19005	Set of Books does not exist in the Destination.
Cause	The specified set of books does not exist in the destination database.
Action	Either migrate to another set of books or create a new set of books.
Message: CLGM-19006	Currency Code <i><code></i> in the source does not match with the destination Set of Books.
Cause	The indicated currency code associated with the set of books referenced by the entity in migration does not exist in the destination database prior to migration.
Action	Create the currency code for the indicated set of books in the destination database.
Message: CLGM-19007	Calendar details <i><Accounting Calendar and/or Period Types and/or Future Period></i> in the source does not match with the destination Set of Books.
Cause	The calendar details for the indicated Accounting Calendar, Period Types, and/or Future Period for the set of books in the source database do not match the corresponding calendar details in the destination database.
Action	Migrate to a valid set of books at the destination matching the calendar details.
Message: CLGM-19008	Chart of Accounts <i><COA name></i> in the source does not match with that of the destination Set of Books.
Cause	The indicated chart of accounts associated with the set of books at the source database does not match the chart of accounts associated with the set of books at the destination database.
Action	Either migrate to a set of books that matches the chart of account details or associate an appropriate chart of accounts to the set of books.

Message: CLGM-19009	Template Combination - <i><combination></i> already exists in the destination database for this set of books.
Cause	The indicated code combination or the account referenced by the entity being migrated already exists in the destination database.
Action	Make the code combination or the account unique and make sure it does not exist in the destination database.
Message: CLGM-19010	Segment Value <i><account></i> associated with the Template Chart of Accounts does not exist in the destination database.
Cause	The indicated segment value referenced in the code combination or account of the entity in migration does not exist in the destination database prior to migration.
Action	Create the segment value or the account at the destination.
Message: CLGM-19011	Calendar details <i><Accounting Calendar and/or Period Types and/or Future Period></i> in the source does not match with the destination Ledger.
Cause	The calendar details for the indicated Accounting Calendar, Period Types, and/or Future Period for the ledger in the source database do not match the corresponding calendar details in the destination database.
Action	Migrate to a valid ledger at the destination matching the calendar details.
Message: CLGM-19012	Chart of Accounts <i><COA name></i> in the source does not match with that of the destination Ledger.
Cause	The indicated chart of accounts associated with the ledger at the source database does not match the chart of accounts associated with the ledger at the destination database.
Action	Either migrate to a set of books that matches the chart of account details or associate an appropriate chart of accounts to the ledger.
Message: CLGM-19013	Ledger does not exist in the Destination.
Cause	The specified ledger does not exist in the destination database.
Action	Either migrate to another ledger or create a new ledger.

Message: CLGM-19014	For <consolidation name> Consolidation Subsidiary LED in source is <ledger name1> and <ledger name2> at destination.
Cause	For the indicated consolidation, the indicated subsidiary ledger in the source database is different from the indicated subsidiary ledger in the destination database.
Action	Associate the consolidation at the destination with the same subsidiary ledger as the source.
Message: CLGM-19015	From LED <ledger name> uses <Accounting Calendar1 or Period Types1 or Future Period1> calendar at the source and <Accounting Calendar2 or Period Types2 or Future Period2> at the destination.
Cause	For the indicated ledger, the calendar details for the indicated Accounting Calendar, Period Types, or Future Period in the source database do not match the corresponding calendar details in the destination database.
Action	Migrate to a valid ledger in the destination database that matches the calendar details.
Message: CLGM-19016	From LED <ledger name> uses <code1> currency at source and <code2> at destination.
Cause	The indicated ledger referenced by the entity in migration uses the indicated currency code at the source and the indicated different currency code at the destination, and the currency code in the source must exist in the destination prior to migration.
Action	Create the currency code for the indicated ledger in the destination database.
Message: CLGM-19017	From LED <ledger name> uses <COA name1> COA at source and <COA name2> COA at destination.
Cause	The indicated ledger uses the indicated chart of accounts at the source and the indicated different chart of accounts at the destination, and the chart of accounts in the source must exist in the destination prior to migration.
Action	Either migrate to a ledger that matches the chart of account details or associate the appropriate chart of accounts to the ledger.
Message: CLGM-19018	Error in COA <COA name>.
Cause	The indicated chart of accounts associated with the ledger at the source database does not match the chart of accounts associated with the ledger at the destination database.
Action	Verify the details of the chart of accounts in the output file of the migration.

Message: CLGM-19019	For <consolidation name> Consolidation <ledger name> to LED is not there at the destination.
Cause	For the indicated consolidation, the indicated ledger does not exist in the destination database.
Action	Migrate to another ledger or create a new ledger.
Message: CLGM-19020	For <consolidation name> Consolidation Parent LED is <ledger name1> at the source and <ledger name2> at destination.
Cause	For the indicated consolidation, the indicated parent ledger in the source database is different from the indicated parent ledger in the destination.
Action	Associate both consolidations with the same parent ledger as the source.
Message: CLGM-19021	From LED <ledger name> uses <Accounting Calendar1 or Period Types1 or Future Period1> Calendar at source and <Accounting Calendar2 or Period Types2 or Future Period2> at destination.
Cause	For the indicated ledger, the calendar details for the indicated Accounting Calendar, Period Types, or Future Period in the source database do not match the corresponding calendar details in the destination database.
Action	Migrate to a valid ledger in the destination database that matches the calendar details.
Message: CLGM-19022	To LED <ledger name> uses <Accounting Calendar1 or Period Types1 or Future Period1> calendar at source and <Accounting Calendar2 or Period Types2 or Future Period2> at destination.
Cause	For the indicated ledger, the calendar details for the indicated Accounting Calendar, Period Types, or Future Period in the source database do not match the corresponding calendar details in the destination database.
Action	Migrate to a valid ledger in the destination database that matches the calendar details.
Message: CLGM-19023	To LED <ledger name> uses <code1> currency at the source and <code2> at destination.
Cause	The indicated ledger referenced by the entity in migration uses the indicated currency code at the source and the indicated different currency code at the destination, and the currency code in the source must exist in the destination prior to migration.
Action	Create the currency code for the indicated ledger in the destination database.

Message: CLGM-19024	To LED <ledger name> uses <name1> COA at source and <name2> at destination.
Cause	The indicated ledger uses the indicated chart of accounts at the source and the indicated different chart of accounts at the destination, and the chart of accounts in the source must exist in the destination prior to migration.
Action	Either migrate to the ledger that matches the chart of account details or associate the appropriate chart of accounts to the ledger.
Message: CLGM-19025	Error in COA <COA name>.
Cause	The indicated chart of accounts associated with the ledger at the source database does not match the chart of accounts associated with the ledger at the destination database.
Action	Verify the details of the chart of accounts in the output file of the migration.
Message: CLGM-19026	Parent LED and Subsidiary LED cannot be the same.
Cause	The parent ledger and the subsidiary ledger for the entity in migration are identical.
Action	Migrate the consolidations by having different ledgers for the parent and the subsidiary.
Message: CLGM-19027	Consolidation <consolidation name> already exists in a different LED at the Destination.
Cause	The indicated consolidation already exists in a different ledger at the destination database.
Action	Migrate the consolidations with the Overwrite if Exists parameter set to Yes.
Message: CLGM-19028	For <consolidation name> Consolidation <ledger name> LED does not exist at the Destination.
Cause	For the indicated consolidation migration, the indicated ledger does not exist in the destination database.
Action	Migrate to another ledger or create a new ledger.

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