

4.7.25 Migration Migrate Error Support Tool

The Migration Migrate Error Support Tool provides the DAAC Operations Staff with a command-line interface to set granules that failed migrating from the archive cache to the LTO media to their pre-migrate state for retry by the migration scripts.

4.7.25.1 Using the Migration Migrate Error Support Tool

The Migration Migrate Error Support Tool is started by entering the following command from the /usr/ecs/<mode>/CUSTOM/utilities directory:

```
> EcMgMigrateError.pl --mode <mode> [--file <filepath> | --gran <list of ecs ids>]
```

Table 4.7.25-1 shows the parameters for the Migration Migrate Error Support Tool.

Table 4.7.25-1. Command Line Parameters of the Migration Migrate Error Support Tool

Parameter Name	Description
--mode	Mandatory. Specifies the mode of operation. It must be a valid, existing mode with a format of OPS or TS[1-4] or DEV0[1-9].
--file	Optional. Specifies the absolute path of a file containing a list of ECS ids which failed migrating.
--gran	Optional. Specifies a list of ECS ids to process on the command line. All the ids must be enclosed in double quotes and the ids must be separated by a single white space within the double quotes.
--help	Optional. Prints out the help page for the tool.

There is no required ordered sequence of the parameters. The --mode parameter is mandatory. The --file and --gran parameters must not be used together. When using the --help parameter, the mode need not be specified.

4.7.25.2 Migration Migrate Error Support Tool Examples

Below are examples for invoking this tool:

1. EcMgMigrateError.pl --mode TS1

The tool will go to the DsMgError table and identify all granule files that failed migration to LTO (i.e. all granules where ErrorCode = "LTOFAILED"). For each granule which failed migration to LTO, the granule state in DsMgGranuleState, will be set to its pre-migrate state to be retried by the migration data insert script. The error in DsMgError will also be cleared.

2. **EcMgMigrateError.pl --mode TS1 --file /home/user/ecsids.txt**

Instead of going to the DsMgError table to identify the granules that failed migration to LTO, the tool will process the granules in the given input file. The behavior is the same as example number one.

3. **EcMgMigrateError.pl --mode TS1 --gran "1234 3456 7867"**

Instead of going to the DsMgError table to identify the granules that failed migration to LTO, the tool will process the granules given on the command-line. The behavior is the same as example number one.

4. **EcMgMigrateError.pl --help**

The tool will print the help page to standard out.

4.7.25.3 Required Operating Environment

The Migration Migrate Error Support Tool will run on the same host as the migration scripts.

4.7.25.4 Interfaces and Data Types

Table 4.7.25-2 lists the supporting products that this tool depends upon in order to function properly.

Table 4.7.25-2. Interface Protocols

Product Dependency	Protocols Used	Comments
Inventory database	SQL	Via SQL server machines.
Perl module	Perl	Module to connect to the database and print out the nicely formatted help page.

4.7.25.5 Configuration File Format – EcMgOnlineArchive.properties

This tool uses the same configuration files as the migration scripts use. This configuration file contains vital details about how to connect to the Sybase server. Without this file, the tool can not run. Table 4.7.25-3 describes the configuration parameters in the EcMgOnlineArchive.properties file which are applicable to the Migration Migrate Error Support Tool.

Table 4.7.25-3. Configuration Parameters

Parameter Name	Description
DB_USER	The user name for the Sybase connection.
DB_SERVER	The name of the Sybase SQL server.
DB_PWSEED	Password seed used for connecting to the Sybase database.
DB_AIM	The AIM inventory database name.
DB_RETRY_INTERVAL	The number of seconds to wait for a database retry.
DB_RETRY_COUNT	The number of retries for a failed database execution.

4.7.25.6 Special Constraints

The Migration Migrate Error Support Tool runs only if the AIM databases are available. The migration scripts do not need to be down for the tool to run.

4.7.25.7 Outputs

Outputs will be printed to standard out. A simple message stating the number of LTOFAILED errors processed successfully and unsuccessfully will be printed. The DAAC Operations Staff should investigate all errors processed unsuccessfully by looking at the log file.

4.7.25.8 Event and Error Messages

No error messages will be displayed on standard out. Error messages will be logged.

4.7.25.9 Logs

The tool logs messages in the /usr/ecs/<mode>/CUSTOM/logs/EcMgMigrateError.log file.

4.7.25.10 Recovery

The tool does not support automatic recovery from an interrupted run. Manual intervention will be required to recover from an interrupted run (contact Riverdale for assistance if needed).

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