

# DLCM Tools Guide

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The current documentation is available in [HTML](#) or [PDF](#).

# Chapter 1. Tool Options

## 1.1. **load** function

This function allows to add data files to an existing deposit, identified by `<Deposit ResId>`.

For each deposit, the tool will crawl the corresponding folder of the deposit and upload each file as a data file in the correct folder (i.e. **relative location**).



The upload volume is limited. Generally, the limitation is up to 1GB: : ask to administrator of the service.

## 1.2. **local-load** function

This function is equivalent the **load** one by referencing files instead of uploading them.

It is recommended for big files, greater than 1GB.



The prerequisite is to transfer files on **pre-ingest** machine, before to run the tool.

## 1.3. **check** function

This function allows to verify if there is the same number of files by comparing the folder on disk and the deposit.

## 1.4. **import** function

This function allows:

1. To create an organizational unit, if it does not exist. The control criterion is the name of organizational unit
2. To create a deposit with the folder name as title
3. To add data files by uploading files with relative location

## 1.5. **git** function

This function allows to create a deposit and to add data files from a GIT repository.

The extraction is based on a branch or a tag or a commit.

# Chapter 2. Installation

## 2.1. Get the tool

- Download the DLCM tool package: [DLCM-Tools-3.1.5.jar](#)
- Define the properties file

*dlcm-tools.properties*

```
#####
# 'load' 'local-load' & 'check' parameter # ①
# Folder where the data to load or check are #
#####
dlcm.load=<Must be defined>

#####
# 'import' parameter # ②
# Folder where the data to import are #
#####
dlcm.import=<Must be defined>

#####
# 'git' parameters # ③
#####
dlcm.git.organizational-unit=<To be defined>
# Example: dlcm.git.organizational-unit=DLCM
dlcm.git.repository-url=<Must be defined>
# Example: dlcm.git.repository-url=git@gitlab.unige.ch:solidify/solidify-tools.git
dlcm.git.branch=<Could be defined, optional>
# Example: dlcm.git.branch=1.3-maintenance
dlcm.git.commit=<Could be defined, optional>
# Example: dlcm.git.commit=729a871d
dlcm.git.tag=<Could be defined, optional>
# Example: dlcm.git.tag=dlcm-1.3.1
#-----#
# Could be changed #
#-----#
dlcm.git.data-category=Software
dlcm.git.data-sub-category=Code

#####
# 'purge' parameters # ④
# List of relative locations to purge #
#####
dlcm.load=<Must be defined>
dlcm.relative-locations=<Must be defined>
# Example to purge all data files: dlcm.relative-locations=/
# Example to purge data files in images & old: dlcm.relative-locations=/images,/old
```

```
#####
# Profile to determine which function to run                                #
# - load = To upload data files in existing deposits                        #
# - check = To check between file system & existing deposits               #
# - import = To create deposit and to upload data files                    #
# - git = To import data files from GIT repository                         #
#####
spring.profiles.active=<Must be defined> ⑤
# Examples:
# spring.profiles.active=load
# spring.profiles.active=import,git

# DLCM modules
dlcm.module.admin.url=<DLCM Admin module URL: must be defined>
# Example: dlcm.module.admin.url=https://sandbox.dlcm.ch/administration/admin
dlcm.module.preingest.url=<DLCM Preingest module URL: must be defined>
# Example: dlcm.module.preingest.url=https://sandbox.dlcm.ch/ingestion/preingest
dlcm.module.ingest.url=
# Example: dlcm.module.ingest.url=https://sandbox.dlcm.ch/ingestion/ingest
dlcm.module.archival-storage.urls=
# Example: dlcm.module.archival-
storage.urls=https://sandbox.dlcm.chstoragion/archival-storage

spring.cloud.config.enabled=false

# Client should not instantiate JDBC / Hibernate / JPA layer
spring.autoconfigure.exclude[0]=org.springframework.boot.autoconfigure.orm.jpa.HibernateJpaAutoConfiguration
spring.autoconfigure.exclude[1]=org.springframework.boot.autoconfigure.jdbc.DataSourceAutoConfiguration
spring.autoconfigure.exclude[2]=org.springframework.boot.autoconfigure.jdbc.DataSourceTransactionManagerAutoConfiguration
spring.autoconfigure.exclude[3]=org.springframework.boot.autoconfigure.data.web.SpringDataWebAutoConfiguration
```

- ① Parameters to upload/reference data files in existing deposits **or** to check between file system & existing deposits
- ② Parameters to create deposit and to upload data files
- ③ Parameters to import data files from GIT repository
- ④ Parameters to purge all data files in relative locations
- ⑤ Profiles to run tools: **load** / **local-load** / **check** / **import** / **git** / **purge**

## 2.2. Organize the data

- The structure of the **import** folder must be like this:

**<Organisational Unit Name> / <Deposit Tile> / <Data Category> / <Data Type> / Your Data**

or

<Organisational Unit Name> / <Deposit Tile> / Package / CustomMetadata / <Metadata Type resId>  
/ Your Data

- The structure of the `load` / `local-load` / `check` folder must be like this:

<Deposit ResId> / <Data Category> / <Data Type> / Your Data

or

<Deposit ResId> / Package / CustomMetadata / <Metadata Type resId> / Your Data



Data Category & Data Type values: see [Data Categories & Types](#)

# Chapter 3. Execution

To run the tool:

- Set the environment variable to define OAuth2 access token

```
export OAUTH2_TOKEN=<OAuth2 Access Token>
```

- Run the following command

```
java -Dspring.cloud.bootstrap.location=<properties file> -Dsolidify.oauth2.accesstoken=$OAUTH2_TOKEN -jar DLCM-Tools-3.1.5.jar >>dcm-tools.log 2>&1
```