# MDCS Migration Tool

This document explains how to use the MDCS Migration Tool.

## MDCS Migration Tool

**Naming:**

* *MDCS\_1*: is the MDCS from which the data will be extracted. This is a previous version of the MDCS that contains data. All names containing ‘\_1’ will refer to MDCS\_1.
* *MDCS\_2*: is the MDCS that will be populated with data. This is a new version of the MDCS, and it is empty at the beginning. All names containing ‘\_2’ will refer to MDCS\_2.

**Prerequisites:**

* No instance of MongoDB should be currently running.
* No MDCS should be currently running.
* MongoDB should be added to the PATH.
* The tool should run on the same machine as MDCS\_1 (localhost). MDCS\_2 can be on localhost or on a distant machine accessible from the local one.
* The migration can only be made from a version to the directly next version.

**Warnings:**

* Object ids from MDCS\_1 will change when data will be inserted in MDCS\_2. Links between data will be preserved.
* All data may not be migrated, depending on requirements/restrictions of the new versions and depending on what the REST API allows to do.

**Procedure:**

* Connection to MDCS\_1 mongodb database.
* Connection to MDCS\_2 REST API.
* Extract data from MDCS\_1 and send them to MDCS\_2.

**Results:**

* Results will be logged in the file migration.log:
  + INFO: log information about the migration.
  + ERROR: log an error that occurred during the migration.
  + CRITICAL: log an error that occurred in the migration tool itself. It may occur if the prerequisites are not met, or if the tool is not working as expected. In the second case, it should be reported to the developer for correction.
* If the migration process stops before its normal end, empty the folders db and ts of MDCS\_2, before running it again.

## HOW TO launch the migration?

1. Be sure that the prerequisites are met.
2. Go to MDCS\_1 installation folder. Copy the file db.sqlite3 and paste it in the MDCS\_2 installation folder. Users from MDCS\_1 can now connect to MDCS\_2.
3. Run MDCS\_2:
   1. Run mongodb using MDCS\_2 db folder,
   2. Run Jena using MDCS\_2 ts folder,
   3. Run the MDCS\_2 django server.
4. Run the MDCS Migration Tool:

python migrate.py **-from** version **-to** version **-from\_db** "path/to/db/folder" **-to\_mdcs\_addr** url **-mdcs\_user** username **-mdcs\_pswd** password

-from: version number, e.g. 1

-to: version number, e.g. 1.1

-from\_db: path to folder db of MDCS\_1, e.g. “C:/Users/user/mdcs/db”

-to\_mdcs\_addr: url of MDCS\_2, e.g. http://127.0.0.1:8000

-mdcs\_user: admin user name, e.g. admin

-mdcs\_pswd: admin password, e.g. admin

1. Look at migration results in the file migration.log.