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# **DIP Munger Scripts**

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radancy edited this page on Nov 28, 2023 · 1 revision

The **DIP munger scripts** are custom command-line scripts that support upload of stored Archivematica DIP packages to AtoM. For SFU Archives, there are two main use cases:

- 1. **Digitization** of previously described analog materials that have existing AtoM descriptions and digital copies are ready for upload to AtoM.
- 2. **Access / copyright review** of materials previously ingested to Archivematica and described in AtoM and now cleared for online dissemination (no access or copyright restrictions).

Archivematica can upload digital objects to AtoM by sending them to their **parent** description record. But cases like those described above, we want to send digital objects to an existing AtoM record itself. The scripts do this through the following steps:

- Download Archivematica's **stored DIP** using the dip-retrieve script.
- Edit the csv file created by dip-retrieve to map DIP objects to AtoM url stubs.
- Upload the DIP with edited csv file to AtoM records (dip-upload for the digital object, dip-metadata for its metadata only).

The scripts were originally created by SFU's Alex Garnett in 2018. They were revised by Tessa Walsh (Artefactual Systems) in 2021 to work with the new security requirements of SFU Cloud, including the need to run the scripts with Multi-Factor Authentication (MFA).

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## Installation

The DIP scripts are compiled Python scripts that must be installed on your computer so that they can be easily run as line commands in Terminal. The scripts have a number of dependencies that can make installation difficult, especially in SFU's "managed Mac / PC" environment. In order to install the scripts, you must have **administrator** access to your machine.

Follow install instructions from the Artefactual Lab dip-mungers GitHub repository.

#### **Notes**

- You will need to install mysql and mysqlclient if they are not already installed on your computer.
- Your SFU user name must be added to the Archives' VM access control list in order to access the VMs on which AIPs and DIPs are stored.
- You must have API keys associated with your AtoM and Archivematica user accounts; you can view / generate keys from your user profile in both those applications.

# Configuration

After installation, the configuration file is located at ~/.dip-mungers; open to edit defaults.

```
[GENERAL]
USERNAME = <<sfu_account_name>>
JUMP SERVER HOSTNAME = <<bastion host name>>
JUMP_SERVER_PORT = <<port>>
[STORAGE SERVICE]
DEV_API_KEY = <<API_key_associated_with_dev_Storage_Service_account>>
DEV_URL = <<dev_Storage_Service_url>>
PROD API KEY = <<API key associated with production Storage Service account>>
PROD_URL = <<pre>production_Storage_Service_url>>
[MOTA]
DEV_API_KEY = <<API_key_associated_with_dev_AtoM_account>>
DEV_HOSTNAME = <<dev_AtoM_server_name>>
DEV_URL = <<dev_AtoM_url>>
PROD_API_KEY = <<API_key_associated_with_production_AtoM_account>>
PROD_HOSTNAME = <<pre>roduction_AtoM_server_name>>
PROD_URL = <<pre>roduction_AtoM_url>>
```

#### Note

HOSTNAME must use the server name, not its url alias.

### **DIP** retrieve

Run the dip-retrieve script to download a stored DIP along with an accompanying csv file.

\$ dip-retrieve <<aip\_uuid>>



The DIP will download to your Desktop folder.

- You need only specify the AIP uuid .
- Stored DIPs can also be downloaded from the Storage Service interface, but Storage Service will not create / download the required csv file.

#### Edit the csy file

Before running the upload scripts, you must edit the csv file included in the DIP package.

• The csv file will be included in the objects folder and it will have the same name as the parent DIP folder, e.g. ACN2018-025\_Fellman\_EmailAttachments.csv.

The csv file has two columns: filename and slug.

- The filename column (A) lists the names of the digital objects in the DIP; the names include the UUID that Archivematica assigned to each object.
- The slug column (B) will be blank; this is where you enter the AtoM slugs.

The AtoM slug is the last part of the AtoM url that follows server\_name.archives.sfu.ca/

- E.g. in cottonwood.archives.sfu.ca/f-10-4-0-0-1 the slug is f-10-4-0-0-1.
- In SFU AtoM, the slug is typically (but not always) identical to the unit's reference code, with the f- prefix in lowercase.

Find the AtoM slugs of the existing descriptions and enter them into column B of the csv file, matching the slug to the appropriate filename.

Be aware that the order of DIP objects in the filename column is not necessarily alphabetical.

Depending on how the original DIP objects were named, you may be able to use OpenRefine to extract slugs via calculation.

Save the csv file with changes and leave it in the same location.

## **DIP** upload

Run the dip-upload script when you want to upload a copy of the DIP objects (not just metadata).

dip-upload <<dip\_file\_path>>



You will be prompted to enter your SFU computing password, an OTP code (get from your MFA app or device), and your password again.

• The two passwords reflects that you need to jump through SFU's bastion host and then to the AtoM server.

Any error (mismatch) in the slug column will cause the entire operation to quit.

• Correct the data on the csv file and re-run the upload script.

## **DIP** metadata upload

This script is similar to the <u>dip-upload</u> script, except that it sends only the minimal file metadata about the DIP objects rather than the full object itself.

• This is the equivalent of doing a bulk **metadata-only DIP upload**.

dip-metadata <<dip\_file\_path>>



Again, you will be prompted for password (twice) and OTP code.

The Archives rarely uses this script. The main use case is where you digitize previously described analog materials, have not yet cleared the records for access or copyright restrictions but you would like to send the digital object metadata to the existing Atom records to indicate to users that digital copies exist.

### Links

The scripts were created by Alex Garnett, but re-written by Tessa Walsh from Artefactual Systems. Source code and documentation are available on the <u>Artefactual Labs GitHub site</u> at: https://github.com/artefactual-labs/dip-mungers.

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