

Module: Import and Export

Module overview:

This module introduces the import and export functionality in DSpace, specifically the batch import and export scripts.

Module objectives:

By the end of this module you will:

1. Know how the batch import and export facility works in DSpace
2. Be able to create a DSpace import package
3. Be able to export an item from DSpace

Note

For the practical exercise, please refer to your sheet 'Local instructions' for details of the following:

- How to launch a terminal window and a web browser
- What the path to [dspace] and [dspace-src] is
- What the URL of your DSpace installation is
- Where example files are located

Batch import and export scripts



Batch import and export scripts

- Scripts:
 - [dspace]/bin/import
 - [dspace]/bin/export

- -h flag for help



Import and export scripts


There are two standard import and exports scripts in DSpace:

- [dspace]/bin/import
- [dspace]/bin/export

Both are run from the command line and have a '-h' option to get a help file detailing how to run them.



File structure



File structure

```

archive_directory/
  1/
    dublin_core.xml -- qualified Dublin Core metadata
    contents -- text file containing one line per filename
    file_1.doc -- files to be added as bitstreams to the item
    file_2.pdf

  2/
    dublin_core.xml
    contents
    file_1.png
    ...

<dublin_core>
  <dcvalue element="title" qualifier="none">A Tale of Two Cities</dcvalue>
  <dcvalue element="date" qualifier="issued">1990</dcvalue></dublin_core>
  <dcvalue element="title" qualifier="alternate" language="fr">J'aime les
  Printemps</dcvalue>
</dublin_core>

```



Import / export file structure

When importing data into DSpace, or when DSpace exports data, it is stored in a hierarchical file structure. One folder per item is required, all within one parent folder. Within each folder is a file containing the metadata, one containing the names of the files, and then any files to be imported of that have been exported.

- Top of archive file structure
 - 1
 - dublin_core.xml – qualified Dublin Core metadata
 - contents – text file containing one line per filename
 - files to be imported / have been exported
 - 2
 - Etc...



Export script



Export script

- **Export script:**
 - `-d,--dest` destination where you want items to go
 - `-h,--help` help
 - `-i,--id` ID or handle of thing to export
 - `-n,--number` sequence number to begin exporting items with
 - `-t,--type` type: COLLECTION or ITEM

- **Export a collection:**
 - `export -t COLLECTION -i 2160/175 -d . -n 1`
- **Export an item:**
 - `export -t ITEM -i 2160/565 -d . -n 1`



Export script

The export script is located at [dspace]/bin/export

It takes the following parameters:

- `-d,--dest` destination where you want items to go
- `-h,--help` help
- `-i,--id` ID or handle of thing to export
- `-n,--number` sequence number to begin exporting items with
- `-t,--type` type: COLLECTION or ITEM

To export a collection you would use the following syntax :

- `export -t COLLECTION -i 2160/175 -d . -n 1`

To export a single item you would use the following syntax:

- `export -t ITEM -i 2160/565 -d . -n 1`



Practical exercise – Perform an export



Practical exercise: Perform an export

- Try exporting an item from your test repository
- Try exporting a collection from your test repository
 - Export a collection:
 - `[dspace]/bin/export -t COLLECTION -i 123456789/175 -d . -n 1`
 - Export an item:
 - `[dspace]/bin/export -t ITEM -i 123456789/565 -d . -n 1`



Export script

There are two exercises to try:

1. Try exporting a single item from your test repository
2. Try exporting a whole collection from your repository



Import script



Import script

■ Import script:

- `-t,--test` test run - do not actually import items
- `-R,--resume` resume a failed import (add only)
- `-a,--add` add items to Dspace
- `-c,--collection` destination collection(s) Handle or database ID
- `-d,--delete` delete items listed in mapfile
- `-e,--eperson` email of eperson doing importing
- `-h,--help` help
- `-m,--mapfile` mapfile items in mapfile
- `-p,--template` apply template
- `-r,--replace` replace items in mapfile
- `-s,--source` source of items (directory)
- `-w,--workflow` send submission through collection's workflow



Import script

The import script is located at [dspace]/bin/import

It takes the following parameters:

- `-t,--test` test run - do not actually import items
- `-R,--resume` resume a failed import (add only)
- `-a,--add` add items to Dspace
- `-c,--collection` destination collection(s) Handle or database ID
- `-d,--delete` delete items listed in mapfile
- `-e,--eperson` email of eperson doing importing
- `-h,--help` help
- `-m,--mapfile` mapfile items in mapfile
- `-p,--template` apply template
- `-r,--replace` replace items in mapfile
- `-s,--source` source of items (directory)
- `-w,--workflow` send submission through collection's workflow



To add items use the following syntax:

- `[dspace]/bin/import -a -e eperson -c collection -s sourcedir -m mapfile`

To replace items use the following syntax:

- `[dspace]/bin/import -r -e eperson -c collection -s sourcedir -m mapfile`

To delete items use the following syntax:

- `[dspace]/bin/import -d -e eperson -m mapfile`

If multiple collections are specified, the first collection will be the one that owns the item.

The map file is created in the form of the directory name and the handle it is given when imported.

Practical exercise: Perform an import



Practical exercise: Perform an import

- Download test import files
 - Ask for location

- Run an import
 - Test first
 - Delete map file and import again



Perform an import

Download a test import file (ask for the location).

Once you have downloaded it, use it to perform and upload. If you want to import the same contents again, delete the map file, and do it again.



Credits

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