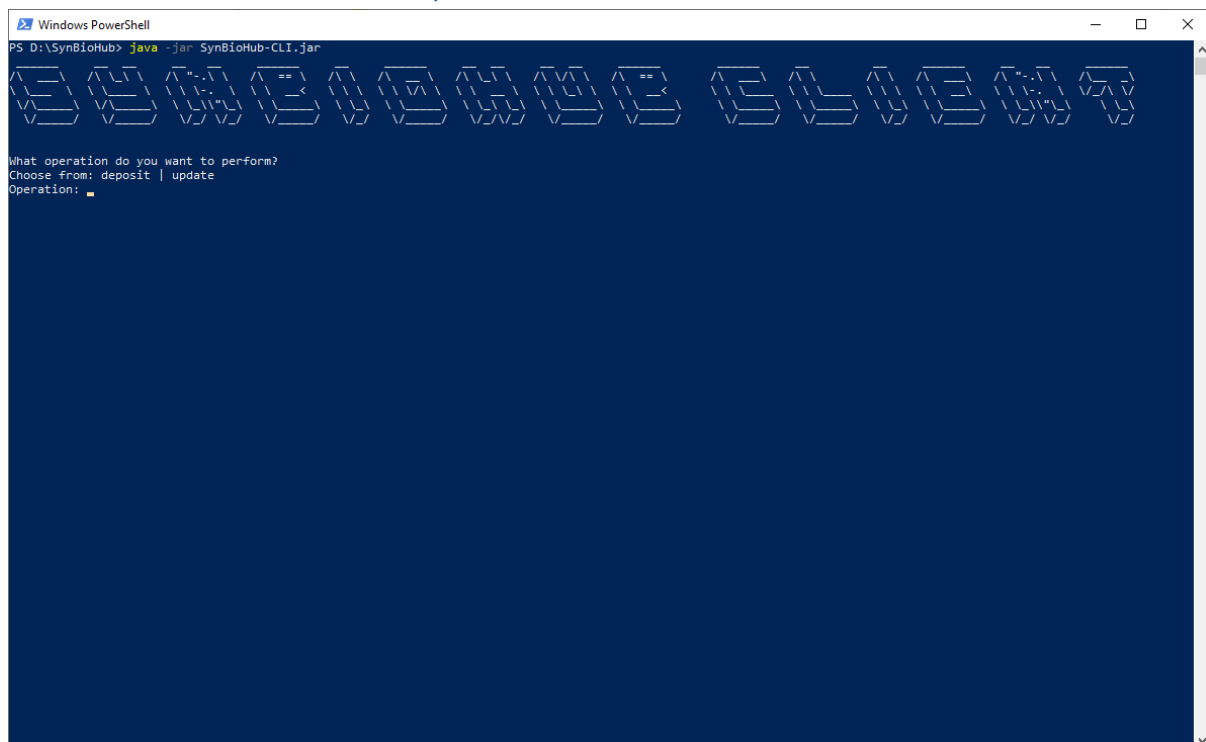


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Initial screen – Choose Operation



Deposit

This operation is for uploading SBOL files into new or existing collections, and updating or overwriting the objects in existing collections. This is the operation used in Use Cases 1-4.

General Notes on Deposit Operation

- If no files are detected in the specified directory either because there are none present, or they are filtered out because of the file extension filter, then a new collection will still be created for Use Cases 1 and 2

Update

The update operation is for adding more metadata and file attachments to designs that already exist in a collection on a target SynBioHub server. This operation is described in Use Case 5.

Use Case 1 – Deposit SBOL Files to a Single New Collection

In this common use case, the user intends to upload all files in a specified directory into a new collection on the target SynBioHub server. The user can specify a file extension filter to select only particular types of files in the directory that they wish to deposit.

Inputs

1. Choose 'deposit'
2. Enter the path to the directory containing the files you wish to upload, e.g. 'C:\my_data\cyano_source'. Alternatively, if your data are in the same directory as where the application was launched, press <ENTER>
3. Enter the appropriate file name extension for the files you wish to upload, e.g. '.xml', or press <ENTER> to select files of all types
4. Enter 'n' when asked to create multiple collections
5. Enter 'y' when asked to create a new collection
6. Enter a new name for the collection
7. Enter the URL for the target SynBioHub server, or press <ENTER> to specify the default 'https://synbiohub.org'
8. Enter a version number or press <ENTER> to accept the default '1.0' version
9. Enter your SynBioHub username, usually your email address
10. Enter your SynBioHub password

Outputs

- The program will report the URL for the newly created
- The program will report which files were successfully deposited and those which failed
- Any files that failed to be deposited most likely failed because they contain invalid SBOL

```
Windows PowerShell

Welcome to the SynBioHub Client!
To exit the application at any time, press <CTRL> + C

What operation do you want to perform?
Choose from: deposit | update
Operation: deposit

You selected the DEPOSIT operation

The deposit operation provides the ability to batch upload SBOL document files into a
target SynBioHub server instance.
The operation requires the following parameters:
    1. A directory containing valid SBOL document files you wish to upload
    2. A target SynBioHub server (https://synbiohub.org by default)
    3. An active user account on the target SynBioHub server

Do you wish to continue?
Y | N: Y

... depositing designs into SynBioHub

Please enter the directory path to upload
Directory path [<ENTER> for current directory]: D:\temp\sbol\cyano_subset

Which type of file extensions do you wish to upload?
File extension [<ENTER> for any (.*)]: .xml

Do you wish to create multiple collections?
Y | N: n
Only the files in the top level directory (no sub-directories) will be submitted to SynBioHub

Do you wish to create a new collection?
Y | N: Y

Please enter a name for the new collection
Name: JHay Cyano Source

Please enter the URL of the SynBioHub server
URL [<ENTER> for https://synbiohub.org]: https://synbiohub.org

Please enter the version number
Version [<ENTER> for 1.0]: 1.0

Please enter your SynBioHub username
Username (email): j.hay@epcc.ed.ac.uk

Please enter your SynBioHub password
Password:

Newly created collection URL is: https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0
Deposited file <D:\temp\sbol\cyano_subset\codA_Km_0012_slr1316.xml> into collection <https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0>
```

Typical Errors

Collection Already Exists

If you choose to create a new collection, but you specify a name and version for a collection that already exists in the server, you will receive an “Invalid collection specified” error as shown below.

N.B. The arguments for ‘new collection name’ and ‘version’ are case sensitive: therefore, a collection named “JHay Cyano Source” is different than one named “JHay Cyano source” and version “v1.0” is different than “V1.0”, for example.

```
Windows PowerShell

Welcome to the SynBioHub Client!
To exit the application at any time, press <CTRL> + C

What operation do you want to perform?
Choose from: deposit | update
Operation: deposit

You selected the DEPOSIT operation

The deposit operation provides the ability to batch upload SBOL document files into a
target SynBioHub server instance.
The operation requires the following parameters:
  1. A directory containing valid SBOL document files you wish to upload
  2. A target SynBioHub server (https://synbiohub.org by default)
  3. An active user account on the target SynBioHub server

Do you wish to continue?
Y | N: Y

... depositing designs into SynBioHub

Please enter the directory path to upload
Directory path [<ENTER> for current directory]: D:\temp\sbol\cyano_subset

Which type of file extensions do you wish to upload?
File extension [<ENTER> for any (.*)]: .xml

Do you wish to create multiple collections?
Y | N: n
Only the files in the top level directory (no sub-directories) will be submitted to SynBioHub

Do you wish to create a new collection?
Y | N: Y

Please enter a name for the new collection
Name: JHay Cyano Source

Please enter the URL of the SynBioHub server
URL [<ENTER> for https://synbiohub.org]: https://synbiohub.org

Please enter the version number
Version [<ENTER> for 1.0]: 1.0

Please enter your SynBioHub username
Username (email): j.hay@epcc.ed.ac.uk

Please enter your SynBioHub password
Password:

No collection URL returned from the SynBioHub server for the new collection.
This is probably because you chose to create a new collection with the same name as one that already exists.

java.lang.IllegalArgumentException: Invalid collection specified
    at ed.biordm.sbol.synbio.client.SynBioClient.createCollection(SynBioClient.java:205)
    at ed.biordm.sbol.synbio.handler.SynBioHandler.createNewCollection(SynBioHandler.java:178)
    at ed.biordm.sbol.synbio.handler.SynBioHandler.depositSingleCollection(SynBioHandler.java:149)
    at ed.biordm.sbol.synbio.handler.SynBioHandler.handleDeposit(SynBioHandler.java:91)
    at ed.biordm.sbol.synbio.handler.SynBioHandler.handle(SynBioHandler.java:77)
```

Use Case 2 – Deposit Files to Multiple New Collections

In this use case, the user intends to upload the contents of each sub-directory in a specified directory into a new collection on the target SynBioHub server. The user can specify a file extension filter to select only particular types of files in the sub-directories that they wish to deposit. This feature is non-recursive, so only sub-directories that are immediate children of the specified parent directory will be traversed for their file contents to be uploaded.

Inputs

1. Choose 'deposit'
2. Enter the path to the directory containing the files you wish to upload, e.g. 'C:\my_data\cyano_source'. Alternatively, if your data are in the same directory as where the application was launched, press <ENTER>
3. Enter the appropriate file name extension for the files you wish to upload, e.g. '.xml', or press <ENTER> to select files of all types
4. Enter 'Y' when asked to create multiple collections
5. Enter a prefix that will be prepended to each sub-directory name to create the new collection names, or press <ENTER> for no prefix (and only the directory names)
6. Enter the URL for the target SynBioHub server, or press <ENTER> to specify the default 'https://synbiohub.org'
7. Enter a version number or press <ENTER> to accept the default '1.0' version
8. Enter your SynBioHub username, usually your email address
9. Enter your SynBioHub password

Outputs

- The program will report the new URL for each collection that was created for a sub-directory
- The program will report which files were successfully deposited and those which failed
- Any files that failed to be deposited most likely failed because they contain invalid SBOL

```
Windows PowerShell
PS D:\SynBioHub> java -jar .\SynBioHub-CLI.jar

Welcome to the SynBioHub Client!
To exit the application at any time, press <CTRL> + C

What operation do you want to perform?
Choose from: deposit | update
Operation: deposit

You selected the DEPOSIT operation

The deposit operation provides the ability to batch upload SBOL document files into a
target SynBioHub server instance.
The operation requires the following parameters:
  1. A directory containing valid SBOL document files you wish to upload
  2. A target SynBioHub server (https://synbiohub.org by default)
  3. An active user account on the target SynBioHub server

Do you wish to continue?
Y | N: Y

... depositing designs into SynBioHub

Please enter the directory path to upload
Directory path [<ENTER> for current directory]: D:\temp\sbol

Which type of file extensions do you wish to upload?
File extension [<ENTER> for any (.*)]: .xml

Do you wish to create multiple collections?
Y | N: Y
Each sub-folder in the selected directory will be uploaded to SynBioHub as a separate collection
Creating new collection(s)

Please enter a prefix for the new collections
Prefix [<ENTER> for no prefix]: JHay Multi Cyano Source

Please enter the URL of the SynBioHub server
URL [<ENTER> for https://synbiohub.org]: https://synbiohub.org

Please enter the version number
Version [<ENTER> for 1.0]: 1.0

Please enter your SynBioHub username
Username (email): j.hay@epcc.ed.ac.uk

Please enter your SynBioHub password
Password:

Newly created collection URL is: https://synbiohub.org/user/jhay/JHay_Multi_Cyano_Source_cyano_subset/JHay_Multi_Cyano_Source_cyano_subset_collection/1.0

Deposited file <D:\temp\sbol\cyano_subset\codA_Km_0012_slr1316.xml> into collection <https://synbiohub.org/user/jhay/JHay_Multi_Cyano_Source_cyano_subset/JHay_Multi_Cyano_Source_cyano_subset_collection/1.0>
```

Typical Errors

Collection(s) Already Exists

If you specify a prefix and version for collections that already exist in the server, you will receive an “Invalid collection specified” error as shown below.

N.B. The arguments for ‘new collection prefix’ and ‘version’ are case sensitive: therefore, a prefix named “JHay Multi Cyano Source” is different than one named “JHay Multi Cyano source” and version “v1.0” is different than “V1.0”, for example.

Use Case 3 – Deposit New SBOL Files to an Existing Collection

In this use case, the user intends to deposit new SBOL files in the specified directory into an existing collection on the target SynBioHub server. Any SBOL files that contain objects which already exist on the server will not be overwritten, but the objects contained in new files will be uploaded if they do not conflict with any existing objects.

Inputs

1. Choose 'deposit'
2. Enter the path to the directory containing the files you wish to upload, e.g. 'C:\my_data\cyano_source'. Alternatively, if your data are in the same directory as where the application was launched, press <ENTER>
3. Enter the appropriate file name extension for the files you wish to upload, e.g. '.xml', or press <ENTER> to select files of all types
4. Enter 'n' when asked to create multiple collections
5. Enter 'N' when asked to create a new collection
6. Enter the URL for the existing collection, e.g. 'https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0'
7. Enter 'n' when asked to overwrite designs if they exist
8. Enter your SynBioHub username, usually your email address
9. Enter your SynBioHub password

Outputs

- The program will report which files were successfully deposited and which files failed to be deposited
- The files that failed to be deposited are the ones that contain objects that already exist on the server, or contain invalid SBOL


```
Windows PowerShell
PS D:\SynBioHub> java -jar .\SynBioHub-CLI.jar

Welcome to the SynBioHub Client!
To exit the application at any time, press <CTRL> + C

What operation do you want to perform?
Choose from: deposit | update
Operation: deposit

You selected the DEPOSIT operation

The deposit operation provides the ability to batch upload SBOL document files into a
target SynBioHub server instance.
The operation requires the following parameters:
  1. A directory containing valid SBOL document files you wish to upload
  2. A target SynBioHub server (https://synbiohub.org by default)
  3. An active user account on the target SynBioHub server

Do you wish to continue?
Y | N: Y

... depositing designs into SynBioHub

Please enter the directory path to upload
Directory path [<ENTER> for current directory]: D:\temp\sbol

Which type of file extensions do you wish to upload?
File extension [<ENTER> for any (.*)]: .xml

Do you wish to create multiple collections?
Y | N: N
Only the files in the top level directory (no sub-directories) will be submitted to SynBioHub

Do you wish to create a new collection?
Y | N: N

Please enter the URL for the existing collection
URL: https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0

Do you wish to overwrite designs if they exist?
Y | N: N

Please enter your SynBioHub username
Username (email): j.hay@epcc.ed.ac.uk

Please enter your SynBioHub password
Password:

Deposited file <D:\temp\sbol\codA_Km_0001_slr0611.xml> into collection <https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0>
Deposited file <D:\temp\sbol\codA_Km_0002_slr0612.xml> into collection <https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0>
Deposited file <D:\temp\sbol\codA_Km_0003_slr0613.xml> into collection <https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0>
```

Use Case 4 – Deposit SBOL Files to Update an Existing Collection

In this use case, the user intends to deposit SBOL files in the specified directory into an existing collection on the target SynBioHub server. All objects contained in the SBOL files which already exist on the server will be overwritten, so this sequence of commands should be used with caution!

Inputs

1. Choose 'deposit'
2. Enter the path to the directory containing the files you wish to upload, e.g. 'C:\my_data\cyano_source'. Alternatively, if your data are in the same directory as where the application was launched, press <ENTER>
3. Enter the appropriate file name extension for the files you wish to upload, e.g. '.xml', or press <ENTER> to select files of all types
4. Enter 'n' when asked to create multiple collections
5. Enter 'N' when asked to create a new collection
6. Enter the URL for the existing collection, e.g. 'https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0'
7. Enter 'Y' when asked to overwrite designs if they exist
8. Enter your SynBioHub username, usually your email address
9. Enter your SynBioHub password

Outputs

- The program will report which files were successfully deposited and which files failed to be deposited
- Any files that failed to be deposited most likely failed because they contain invalid SBOL

```
Windows PowerShell
PS D:\SynBioHub> java -jar .\SynBioHub-CLI.jar

Welcome to the SynBioHub Client!
To exit the application at any time, press <CTRL> + C

What operation do you want to perform?
Choose from: deposit | update
Operation: deposit

You selected the DEPOSIT operation

The deposit operation provides the ability to batch upload SBOL document files into a
target SynBioHub server instance.
The operation requires the following parameters:
  1. A directory containing valid SBOL document files you wish to upload
  2. A target SynBioHub server (https://synbiohub.org by default)
  3. An active user account on the target SynBioHub server

Do you wish to continue?
Y | N: Y

... depositing designs into SynBioHub

Please enter the directory path to upload
Directory path [<ENTER> for current directory]: D:\temp\sbol\cyano_subset

Which type of file extensions do you wish to upload?
File extension [<ENTER> for any (.*)]: .xml

Do you wish to create multiple collections?
Y | N: N
Only the files in the top level directory (no sub-directories) will be submitted to SynBioHub

Do you wish to create a new collection?
Y | N: N

Please enter the URL for the existing collection
URL: https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0

Do you wish to overwrite designs if they exist?
Y | N: Y

Please enter your SynBioHub username
Username (email): j.hay@epcc.ed.ac.uk

Please enter your SynBioHub password
Password:

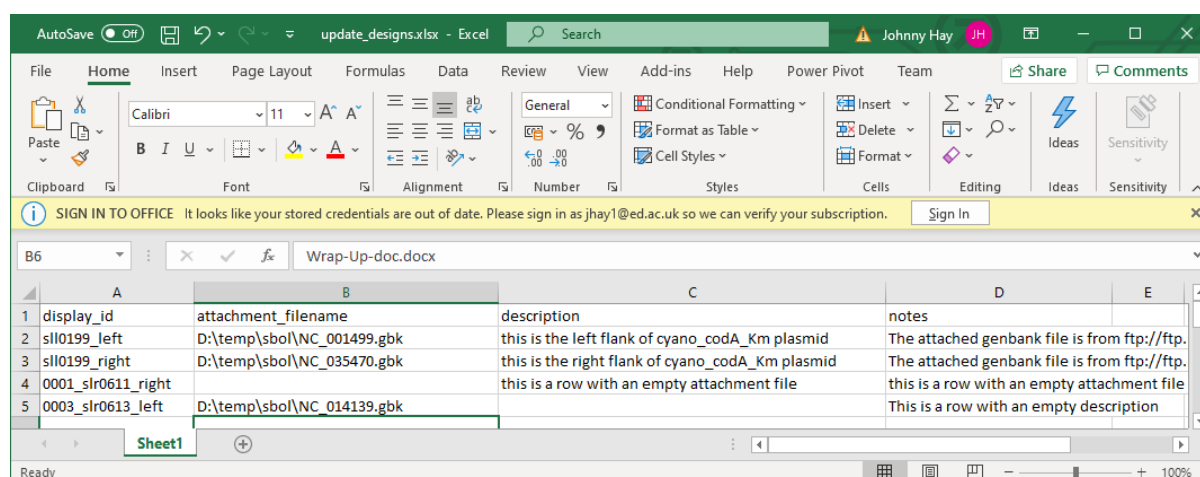
Deposited file <D:\temp\sbol\cyano_subset\codA_Km_0012_slr1316.xml> into collection <https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0>

Deposited file <D:\temp\sbol\cyano_subset\codA_Km_0024_sll1406.xml> into collection <https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0>
```

Use Case 5 – Updating Existing Designs in an Existing Collection

In this use case, the user intends to update existing designs in an existing collection on the target SynBioHub server. There are three elements of the designs in SynBioHub that can be updated using this feature: files can be attached, and the 'description' and 'notes' text fields can be appended to. It is anticipated that users may wish to attach sequence data in other formats such as GenBank files, and append extra text metadata to enhance the FAIRness of their data in SynBioHub.

The user provides a file in MS Excel format comprised of one mandatory column and at least one of three optional columns. The mandatory column is 'display_id', while the other three columns are 'attachment_filename', 'description' and 'notes'. The columns can be in any order but they must be adjacent to each other (i.e. in a contiguous block) and begin at column A of the worksheet. The values in the 'display_id' column must match the 'displayId' attribute of existing designs in a collection on the target server. The 'attachment_filename' column's values can be either absolute file paths to files on the user's local machine, or simply file names of files that are relative to the current working directory. An example is shown below.



display_id	attachment_filename	description	notes
sl0199_left	D:\temp\sbo\NC_001499.gbk	this is the left flank of cyano_codA_Km plasmid	The attached genbank file is from ftp://ftp.
sl0199_right	D:\temp\sbo\NC_035470.gbk	this is the right flank of cyano_codA_Km plasmid	The attached genbank file is from ftp://ftp.
0001_slr0611_right		this is a row with an empty attachment file	this is a row with an empty attachment file
0003_slr0613_left	D:\temp\sbo\NC_014139.gbk		This is a row with an empty description

Inputs

1. Choose 'update'
2. Enter the absolute path to the MS Excel file containing the entity display IDs, file attachments and metadata you wish to upload, e.g.
'C:\my_data\cyano_source\update_designs.xlsx'. Alternatively, if your Excel file is in the same directory as where the application was launched, enter the file name.
3. Enter the URL for the existing collection containing the designs you wish to update, e.g.
'https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0'
4. Enter your SynBioHub username, usually your email address
5. Enter your SynBioHub password

Outputs

- The program will report which designs it found in the specified collection with display IDs matching those in the 'display_id' column of the spreadsheet
- The program will also report which display IDs it could not find in the specified collection

```
Windows PowerShell
What operation do you want to perform?
Choose from: deposit | update
Operation: update

You selected the UPDATE operation

The update operation provides the ability to bulk update SBOL designs in an existing
collection on a target SynBioHub server instance.
The operation requires the following parameters:
  1. An MS Excel file containing the metadata you wish to submit
  1.1. The MS Excel file must contain a 'display_id' column, along with one or
      more optional columns comprising 'attachment_filename', 'description' and 'notes'
  1.2. The filename specified in the 'attachment_filename' column will be uploaded
      and attached to the corresponding design in the target SynBioHub server
  1.3. The text in the 'description' and 'notes' columns will be appended to the
      appropriate fields of the corresponding design in the target SynBioHub server
  2. A target SynBioHub server (https://synbiohub.org by default)
  3. An active user account on the target SynBioHub server

Do you wish to continue?
Y | N: Y

... updating existing designs in SynBioHub

Please enter the path to the Excel file with designs to update
Filename: update_designs.xlsx

Please enter the URL for the collection to update
URL: https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0

Please enter your SynBioHub username
Username (email): j.hay@epcc.ed.ac.uk

Please enter your SynBioHub password
Password:

No design found with displayId sl10199_right in collection <https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0>
No design found with displayId sl10199_left in collection <https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0>
No design found with displayId sl10199_codA in collection <https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0>
No design found with displayId sgl0001_flatten in collection <https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0>
No design found with displayId sl10006 in collection <https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0>
No design found with displayId sl10008_flatten in collection <https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0>
No design found with displayId 0001_slr0611_right in collection <https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0>
No design found with displayId 0003_slr0613_left in collection <https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0>

Successfully updated the following designs...

DisplayId: left_flank in collection <https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0>
DisplayId: cyano_codA_Km in collection <https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0>
```

Advanced Use

Users who know precisely which parameters they require can invoke the SynBioHub Client with those arguments in a prepared statement. For instance, to skip the initial operation selection step, the user can simply start the client with the 'deposit' or 'update' argument. If any required parameters are missing from those supplied by the user for the specified task, the user will be prompted for them. The CLI commands that are equivalent to the user input prompt for each use case demonstrated above are shown in the table below.

Use Case	CLI Command
1	<code>java -jar SynBioHub-CLI.jar deposit --dir=D:\temp\sbol\cyano_subset --file-extension=.xml --multi=false --create-new=true --name="JHay Cyano Source" --url=https://synbiohub.org --version=1.0 --username=j.hay@epcc.ed.ac.uk</code>
2	<code>java -jar SynBioHub-CLI.jar deposit --dir=D:\temp\sbol --file-extension=.xml --multi=true --create-new=true --name="JHay Multi Cyano Source" --url=https://synbiohub.org --version=1.0 --username=j.hay@epcc.ed.ac.uk</code>
3	<code>java -jar SynBioHub-CLI.jar deposit --dir=D:\temp\sbol --file-extension=.xml --multi=false --create-new=false --url=https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0 --username=j.hay@epcc.ed.ac.uk --overwrite=false</code>
4	<code>java -jar SynBioHub-CLI.jar deposit --dir=D:\temp\sbol --file-extension=.xml --multi=false --create-new=false --url=https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0 --username=j.hay@epcc.ed.ac.uk --overwrite=true</code>
5	<code>java -jar SynBioHub-CLI.jar update --excel-file=update_designs.xlsx --url=https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0 --username=j.hay@epcc.ed.ac.uk</code>

Table 1: All-in-one CLI commands for running the example use cases

Command Option	Description	Examples
<code>--dir, --d</code>	Directory to upload	<code>--dir=C:\my_data\cyano_source</code>
<code>--file-extension, --f</code>	File extension with which to filter files in upload directory	<code>--f=.xml</code> <code>--file-extension=.*</code>
<code>--multi, --m</code>	Flag to indicate whether to upload child directories as multiple collections	<code>--multi=true</code> <code>--m=false</code>
<code>--create-new, --c</code>	Whether to create a new collection	<code>--create-new=true</code> <code>--c=false</code>
<code>--url, --l</code>	URL of the target SynBioHub server or the existing collection	<code>--url=https://synbiohub.org</code> <code>--l=https://synbiohub.org/user/jhay/JHay_Cyano_Source/JHay_Cyano_Source_collection/1.0</code>
<code>--username, --u</code>	User name of the SynBioHub user (typically email address)	<code>--username=j.hay@epcc.ed.ac.uk</code> <code>-u=jo.bloggs@ac.uk</code>
<code>--version, --v</code>	Version of the new collection to create	<code>--version=1.0</code> <code>--v=v1.0.0-alpha</code>

--overwrite, --o	Whether to overwrite existing objects in the existing collection	--overwrite=true --o=false
--excel-file, --e	The file path to the Excel file containing the metadata for existing objects to update	--excel-file=update_designs.xlsx --e=new_metadata.xlsx

Table 2: Form and function of different command options