
slims_lisp

Laboratory of Integrative System Physiology (LISP) at EPFL

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CONTENTS

1	Documentation	3
1.1	slims_lisp.slims CLI	3
1.1.1	slims-lisp	3
1.2	slims_lisp.slims module	6
1.3	SLIMS requirements	7
2	Indices and tables	9
	Python Module Index	11
	Index	13

DOCUMENTATION

1.1 slims_lisp.slims CLI

1.1.1 slims-lisp

A high-level CLI for SLIMS REST API

```
slims-lisp [OPTIONS] COMMAND [ARGS]...
```

eln

CLI for the Electronic Lab Notebook (ELN)

```
slims-lisp eln [OPTIONS] COMMAND [ARGS]...
```

add-attachment

Upload a file to a an existing ELN experiment attachment step.

Return:

Returns the HTTP POST request response.

Example:

```
$ slims-lisp eln add-attachment -url <your_slims_url> -proj <your_project_name> -exp  
<your_experiment_name> -step <your_attachment_step_name> -file <path/to/your/file>
```

```
slims-lisp eln add-attachment [OPTIONS]
```

Options

--url <url>
SLIMS REST URL. ex: https://<your_slims_address>/rest/rest [required]

--proj <proj>
Project name (if any).

--exp <exp>
Experiment name. [required]

--step <step>
Experiment step name. [default: results; required]

--active <active>
Search only in active or inactive steps (or in both). [default: true]

Options true|false|both

--file <file>
Path to the file that will be uploaded. [required]

--attm <attm>
A name to give to the attachment that will be created. [default: same as --file]

-v, --verbose
Print various messages.

-u, --username <username>
SLIMS user name. [required]

-p, --pwd <pwd>
SLIMS password. [required]

add-dataset

Create a new ELN experiment attachment step and upload multiple files to it (useful to upload a whole dataset containing multiple data and/or metadata files at once).

Return:

Returns HTTP POST requests responses in a dictionary.

Example:

```
$ slims-lisp eln add-dataset -url <your_slims_url> -proj <your_project_name> -exp  
<your_experiment_name> -files <file1>,<file2>,<file3> -title <your_dataset_name>
```

```
slims-lisp eln add-dataset [OPTIONS]
```


Options

--url <url>
SLIMS REST URL. ex: https://<your_slims_address>/rest/rest [required]

--proj <proj>
Project name (if any).

--exp <exp>
Experiment name. [required]

--files <files>
Comma-delimited paths to the files that will be uploaded. [required]

--title <title>
The title of the attachment block that will be created for the dataset in SLIMS. [default: dataset_<ISO 8601 timestamp>]

-v, --verbose
Print various messages.

-u, --username <username>
SLIMS user name. [required]

-p, --pwd <pwd>
SLIMS password. [required]

fetch-attachment

Download a file from an ELN experiment attachment step.

Return:

Returns the HTTP GET request response.

Output:

Generates two files (by default in the working directory):

-<output_dir>/<attm> The requested file

-<output_dir>/<attm>_metadata.txt Associated metadata in a JSON format

Example:

```
$ slims-lisp eln fetch-attachment -url <your_slims_url> -proj <your_project_name> -exp
<your_experiment_name> -step <your_attachment_step_name> -attm <your_attachment_name>
```

```
slims-lisp eln fetch-attachment [OPTIONS]
```

Options

--url <url>
SLIMS REST URL (ex: https://your_slims_address/rest/rest). [required]

--proj <proj>
Project name (if any).

--exp <exp>
Experiment name. [required]

--step <step>
Experiment step name. [default: data_collection; required]

--active <active>
Search only in active or inactive steps (or in both). [default: true]

Options truefalseboth

--attm <attm>
Attachment name. [required]

--linked <linked>
Search only linked or unlinked attachments (or both). [default: true]

Options truefalseboth

--output_dir <output_dir>
Output directory [default: working directory].

-v, --verbose
Print various messages.

-u, --username <username>
SLIMS user name. [required]

-p, --pwd <pwd>
SLIMS password. [required]

1.2 slims_lisp.slims module

```
class slims_lisp.slims.Eln(url, username, pwd)
    Bases: slims_lisp.slims.Slims

    create_attachment_step(proj, exp, title, verbose)
        Create a new attachment step in an experiment.

    download_attachment(proj, exp, step, active, attm, linked, output_dir, verbose)
        Download a file from a SLIMS experiment attachment step.

    get_attachment(linked, **kwargs)

    get_attachment_link(**kwargs)

    get_experiment(**kwargs)

    get_experiment_step(active, **kwargs)

    get_project(**kwargs)

    upload_attachment(proj, exp, step, active, file, attm, verbose)
        Upload a file to a an existing SLIMS experiment attachment step.
```

```
class slims_lisp.slims.Slims(url, username, pwd)  
    Bases: object  
  
    get (table, **kwargs)  
    post (table, **kwargs)
```

1.3 SLIMS requirements

- SLIMS version: >=6.1

INDICES AND TABLES

- `genindex`
- `modindex`
- `search`

PYTHON MODULE INDEX

S

`slims_lisp.slims`, 6

Symbols

```
--active <active>
  slims-lisp-elasticsearch-add-attachment
    command line option,4
  slims-lisp-elasticsearch-fetch-attachment
    command line option,6
--attm <attm>
  slims-lisp-elasticsearch-add-attachment
    command line option,4
  slims-lisp-elasticsearch-fetch-attachment
    command line option,6
--exp <exp>
  slims-lisp-elasticsearch-add-attachment
    command line option,4
  slims-lisp-elasticsearch-add-dataset command
    line option,5
  slims-lisp-elasticsearch-fetch-attachment
    command line option,6
--file <file>
  slims-lisp-elasticsearch-add-attachment
    command line option,4
--files <files>
  slims-lisp-elasticsearch-add-dataset command
    line option,5
--linked <linked>
  slims-lisp-elasticsearch-fetch-attachment
    command line option,6
--output_dir <output_dir>
  slims-lisp-elasticsearch-fetch-attachment
    command line option,6
--proj <proj>
  slims-lisp-elasticsearch-add-attachment
    command line option,4
  slims-lisp-elasticsearch-add-dataset command
    line option,5
  slims-lisp-elasticsearch-fetch-attachment
    command line option,6
--pwd <pwd>
  slims-lisp-elasticsearch-add-attachment
    command line option,4
  slims-lisp-elasticsearch-add-dataset command
    line option,5
  slims-lisp-elasticsearch-fetch-attachment
    command line option,6
--step <step>
  slims-lisp-elasticsearch-add-attachment
    command line option,4
  slims-lisp-elasticsearch-fetch-attachment
    command line option,6
--title <title>
  slims-lisp-elasticsearch-add-dataset command
    line option,5
--url <url>
  slims-lisp-elasticsearch-add-attachment
    command line option,4
  slims-lisp-elasticsearch-add-dataset command
    line option,5
  slims-lisp-elasticsearch-fetch-attachment
    command line option,6
--username <username>
  slims-lisp-elasticsearch-add-attachment
    command line option,4
  slims-lisp-elasticsearch-add-dataset command
    line option,5
  slims-lisp-elasticsearch-fetch-attachment
    command line option,6
--verbose
  slims-lisp-elasticsearch-add-attachment
    command line option,4
  slims-lisp-elasticsearch-add-dataset command
    line option,5
  slims-lisp-elasticsearch-fetch-attachment
    command line option,6
-P
  slims-lisp-elasticsearch-add-attachment
    command line option,4
  slims-lisp-elasticsearch-add-dataset command
    line option,5
  slims-lisp-elasticsearch-fetch-attachment
    command line option,6
-u
  slims-lisp-elasticsearch-add-attachment
    command line option,4
  slims-lisp-elasticsearch-add-dataset command
```

```
    line option, 5
slims-lisp-elasticsearch-fetch-attachment
    command line option, 6
-v
slims-lisp-elasticsearch-add-attachment
    command line option, 4
slims-lisp-elasticsearch-add-dataset command
    line option, 5
slims-lisp-elasticsearch-fetch-attachment
    command line option, 6
```

C

`create_attachment_step()` (*slims_lisp.slims.Eln method*), 6

D

`download_attachment()` (*slims_lisp.slims.Eln method*), 6

E

`Eln` (*class in slims_lisp.slims*), 6

G

```
get() (slims_lisp.slims.Slims method), 7
get_attachment() (slims_lisp.slims.Eln method), 6
get_attachment_link() (slims_lisp.slims.Eln
    method), 6
get_experiment() (slims_lisp.slims.Eln method), 6
get_experiment_step() (slims_lisp.slims.Eln
    method), 6
get_project() (slims_lisp.slims.Eln method), 6
```

P

`post()` (*slims_lisp.slims.Slims method*), 7

S

```
Slims (class in slims_lisp.slims), 6
slims_lisp.slims (module), 6
slims-lisp-elasticsearch-add-attachment command
    line option
    --active <active>, 4
    --attm <attm>, 4
    --exp <exp>, 4
    --file <file>, 4
    --proj <proj>, 4
    --pwd <pwd>, 4
    --step <step>, 4
    --url <url>, 4
    --username <username>, 4
    --verbose, 4
    -p, 4
    -u, 4
    -v, 4
```

```
slims-lisp-elasticsearch-add-dataset command
    line option
    --exp <exp>, 5
    --files <files>, 5
    --proj <proj>, 5
    --pwd <pwd>, 5
    --title <title>, 5
    --url <url>, 5
    --username <username>, 5
    --verbose, 5
    -p, 5
    -u, 5
    -v, 5
```

```
slims-lisp-elasticsearch-fetch-attachment
    command line option
    --active <active>, 6
    --attm <attm>, 6
    --exp <exp>, 6
    --linked <linked>, 6
    --output_dir <output_dir>, 6
    --proj <proj>, 6
    --pwd <pwd>, 6
    --step <step>, 6
    --url <url>, 6
    --username <username>, 6
    --verbose, 6
    -p, 6
    -u, 6
    -v, 6
```

U

`upload_attachment()` (*slims_lisp.slims.Eln method*), 6