

FedSender - API

1. About Filesender

All references to Filesender in this documentation refer to the [Filesender opensource project](#).

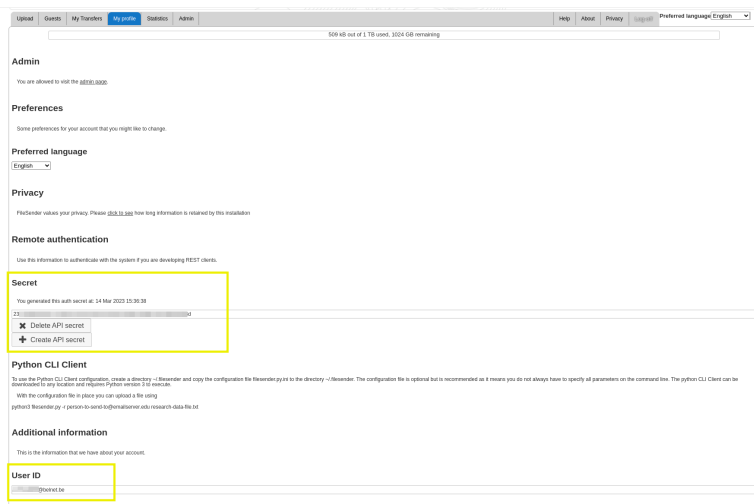
The Belnet FedSender, fee-based service for Belnet's Belgian Federal and Regional customers, is a port of the Belnet Filesender service intended for Belnet R&E customers.

2. Prerequisites

On first login, FedSender generates an API secret and you should use this secret and your IDP username when using the API.

2.1. Secret & Identity

You can get your API Secret key from the Fedsender interface by clicking on '**My Profile**'. Users can delete current API secret and create a new one.

The screenshot shows the 'My Profile' page of the FedSender interface. At the top, there's a navigation bar with tabs: Upload, Guests, My Transfers, My profile (active), Statistics, Admin. Below the navigation bar, a status bar indicates '500 KB out of 1 TB used, 500 KB remaining'. The main content area is titled 'Admin' and includes sections for 'Preferences' (with a 'Preferred language' dropdown set to 'English'), 'Privacy', 'Remote authentication', and 'Secret'. The 'Secret' section is highlighted with a yellow box and shows a generated secret with a 'Delete API secret' button and a 'Create API secret' button. Below this is the 'Python CLI Client' section with instructions on how to use it. At the bottom, the 'Additional information' section shows the 'User ID' which is also highlighted with a yellow box.

Here you can see your **Secret** and your **Identity** (username provided by your Identity Provider at authentication process).

These credentials are the ones to make use of for the Rest API.

3. Python script

3.1. Host URL

The host base_url for Belnet FedSender API is <https://fedsender.belnet.be/rest.php>.

FedSender has a example of Python script available to make use of the Rest API.

Take care to define the correct base_url variable.

3.2. Python CLI Client

To use the Python CLI Client configuration, create a `~/filesender` directory (thus under your home_dir) and copy the the Python CLI Client **filesender.py** . Requires Python version 3 to run.

[Download Python CLI Client](#)

[Download Python CLI Client configuration](#)

With the configuration file in place, you can create a Transfer (upload a file) with the command :

```
$ python3 filesender.py -v -m "Hello, here some file i'd share with you" -s "Sending you file via API" -u
<your_id>@<your_domain.tld> -a <mysecret> -r <recipient_addr@domain.tld> /Path/to/your/file_1.extension /Path/to
/your/file_2.extension
```

The configuration file **filesender.py.ini** is optional but still recommended because it saves you from having to enter all the parameters on the command line. The configuration file **filesender.py.ini** should also reside into the `~/filesender` directory (alongside your `filesender.py` script). Example:

filesender.py.ini (config file)

```
[system]
base_url = https://fedsender.belnet.be/rest.php
default_transfer_days_valid = 7 # the number of days for which the transfer remains active, up to the maximum
number of days allowed by the service.

[user]
username = <your_identity>
apikey = <your_api_secret>
```

Now you can simplify/shorten your command (not specify the `-u` & `-a` options):

```
$ python3 filesender.py -v -m "Hello, here some file i'd share with you" -s "Sending you file via API" -r
<recipient_addr@domain.tld> /Path/to/your/file_1.extension /Path/to/your/file_2.extension
```



default transfer days valid

By default, the transfer validity is 7 days. If more time is required, edit this line in the script `filesender.py` or overright this variable in the configuration file **filesender.py.ini**. For instance:

```
default_transfer_days_valid = 14
```

Constraints **Transfer expiry days (max)** & **Guest expiry days (max)** documented in the [help section](#) remains valid also for the API use.
Exceeding allowed max days will lead to PostTransfer failure !!

```
postTransfer
Failure when attempting to call: https://[redacted]sender.belnet.be/rest.php/transfer?remote_user=[redacted]@[redacted].e&signatu
Retry attempt 1
Fail Reason: 500 ◀ Exceeding max allowed "Transfer expiry days" or "Guest expiry days"
```

4. Conclusion

The script can be very useful to automate the uploading of files.

The transfers are visible on your profile if you login into the web interface:

- So you can extend, or delete the transfer.
- Although it should be possible to see and extend all transfer using Rest API.

Although there are a few disadvantages:

- The sender can be easily spoofed using the Rest API

5. Considerations

These scripts are those proposed by default by the Filesender opensource project. These scripts are not administered by Belnet. Belnet will not propose any other script development for the use of Filesender APIs. You are free to develop your own scripts according to your needs.

6. APi Documentation

You can find the documentation for FileSender's API at <https://github.com/filesender/filesender/blob/master/docs/v2.0/rest/>. Please note that this is an external project; not administered by Belnet.

6.1. Sample API scripts

Example scripts can be found here: <https://github.com/filesender/filesender/tree/master/scripts/client>. Please note that this is an external project; not administered by Belnet.