
Odorik Documentation

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Michal Čihař

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This is Python module which wraps [Odorik API](#).

You can install the module from PyPI:

```
pip install odorik
```

The project is being developed on GitHub: <https://github.com/nijel/odorik>

Contents:

1.1 odorik

1.1.1 OdorikException

exception `odorik.OdorikException`
Base class for all exceptions.

1.1.2 Odorik

`Odorik(user='', password='', url=None, config=None):`

Parameters

- **user** (*string*) – User ID
- **password** (*string*) – API password
- **url** (*string*) – API server URL, if not specified default is used
- **config** (`OdorikConfig`) – Configuration object, overrides any other parameters.

Access class to the API, define user, password and optionally API URL.

`odorik.get(path, args=None)`

Parameters

- **path** (*string*) – Request path
- **args** (*dict*) – Optional request parameters

Return type `string`

Performs single API GET call.

`odorik.get_json(path, args=None)`

Parameters

- **path** (*string*) – Request path
- **args** (*dict*) – Optional request parameters

Return type object

Performs single API GET call and parses JSON reply including error handling.

`odorik.balance()`

Return type float

Returns current balance.

`odorik.mobile_data(from_date, to_date, number=None)`

Parameters

- **from_date** (*datetime.datetime*) – Starting date
- **to_date** (*datetime.datetime*) – Ending date
- **number** (*string*) – Phone number in form of 00420789123456

Return type list

Returns mobile data usage list in given interval. Optionally filtered for given number.

`odorik.send_sms(recipient, message, sender='5517')`

Parameters

- **recipient** (*string*) – Number where to sent SMS.
- **message** (*string*) – Text of the message.
- **sender** (*string*) – Optional sender number.

Return type string

Sends a SMS message.

`odorik.callback(caller, recipient, line=None)`

Parameters

- **caller** (*string*) – Number which is calling.
- **recipient** (*string*) – Number to call.
- **line** (*string or None*) – Line to use for accounting.

Return type string

Initiates callback.

`calls(from_date, to_date, line=None, status=None, direction=None):`

Parameters

- **from_date** (*datetime.datetime*) – Starting date
- **to_date** (*datetime.datetime*) – Ending date
- **line** (*string or None*) – Line to use for listing
- **status** (*string*) – Call status, one of 'answered', 'missed'
- **direction** (*string*) – Call direction, one of 'in', 'out', 'redirected'

Return type list

Returns list of calls in given interval. Optionally filtered for given line.

sms(*from_date*, *to_date*, *line=None*):

Parameters

- **from_date** (*datetime.datetime*) – Starting date
- **to_date** (*datetime.datetime*) – Ending date
- **line** (*string or None*) – Line to use for listing

Return type list

Returns list of sms in given interval. Optionally filtered for given line.

`odorik.lines()`

Return type list

Returns list of dictionaries with information about lines.

1.2 odorik.config

1.2.1 OdorikConfig

class `odorik.config.OdorikConfig` (*section='odorik'*)

Parameters **section** (*string*) – Configuration section to use

Configuration file parser following XDG specification.

load (*path=None*)

Parameters **path** (*string*) – Path where to load configuration.

Loads configuration from a file, if none is specified it loads from *odorik* configuration file placed in XDG configuration path (`~/.config/odorik` and `/etc/xdg/odorik`).

1.3 odorik.main

`odorik.main.main` (*settings=None, stdout=None, args=None*)

Parameters

- **settings** (*list of tuples*) – settings to override
- **stdout** (*file*) – stdout for printing output, uses `sys.stdout` as default
- **args** (*list*) – command line arguments to process, uses `sys.args` as default

Main entry point for command line interface.

`@odorik.main.register_command` (*command*)

Decorator to register *Command* class in main parser used by `main()`.

1.3.1 Command

class odorik.main.**Command**(*args, config, stdout=None*)
Main class for invoking commands.

Odorik command line interface

2.1 Synopsis

```
odorik [parameter] <command> [options]
```

Commands actually indicate which operation should be performed.

2.2 Description

This module also installs **odorik** program, which allows you to easily access some of the functionality from command line.

2.2.1 Global options

The program accepts following global options, which must be entered before subcommand.

- format** {csv, json, text, html}
Specify output format.
- url** URL
Specify API URL. Overrides value from configuration file, see *Files*.
- user** USER
Specify API user. Overrides value from configuration file, see *Files*.
- password** PASSWORD
Specify API password. Overrides value from configuration file, see *Files*.
- config** PATH
Override path to configuration file, see *Files*.
- config-section** SECTION
Override section to use in configuration file, see *Files*.

2.2.2 Subcommands

Currently following subcommands are available:

version

Prints current version.

api PATH [--post] [--param KEY=VALUE]...

Performs authenticated API call. By default GET method is used, with --post it is POST.

Additional parameters can be specified by --param switch which can be used multiple times.

balance

Prints current balance.

mobile-data [--list] [--phone NUMBER] [--all] [DATE PERIOD]

Prints mobile data usage.

It can list all individual records when --list is specified.

The result can be also limited to given phone number by using --phone. The phone number has to be specified as 00420789123456.

If --all is specified, summary for all mobile lines on current account is printed.

See *Specifying date period* for information how to specify date period.

calls [--list] [--line LINE] [--direction {in,out,redirected}] [--status {answered,missed}]

Prints calls usage.

It can list all individual records when --list is specified.

The result can be also limited to given line by using --line.

You can additionally filter calls by --status or --direction.

See *Specifying date period* for information how to specify date period.

sms [--list] [--line LINE] [DATE PERIOD]

Prints SMS usage.

It can list all individual records when --list is specified.

The result can be also limited to given line by using --line.

See *Specifying date period* for information how to specify date period.

send-sms [--sender SENDER] recipient message

Sends a SMS message.

You can specify sender number by --sender, it has to be one of allowed values. By default 5517 is used.

callback [--line LINE] caller recipient

Initiates a callback.

lines [--generate-config]

Prints information about lines.

With --generate-config it generates config file entries for line and phone number aliases, see *Files*.

summary [DATE PERIOD]

Prints summary information for all lines in current account.

See *Specifying date period* for information how to specify date period.

2.2.3 Specifying date period

You can specify date period for which many commands will be issued:

--this-month

Prints information for current month. This is the default interval.

--last-month

Prints information for last month.

--start-date DATE

Starting datetime.

--end-date DATE

Ending datetime. If not specified, current date is used.

All parameters accepting date can take almost any format of date or timestamp. Check [dateutil](#) documentation for more detailed information (especially on year/month/day precedence).

2.3 Files

`~/.config/odorik` User configuration file

`/etc/xdg/odorik` Global configuration file

The program follows XDG specification, so you can adjust placement of config files by environment variables `XDG_CONFIG_HOME` or `XDG_CONFIG_DIRS`.

Following settings can be configured in the `[odorik]` section (you can customize this by `--config-section`):

user

API user, can be either ID registered user or line ID.

password

API password. Use API password for per user access and line password (used for SIP as well) for line access.

url

API server URL, defaults to `https://www.odorik.cz/api/v1/`.

See [Autentizace Odorik API](#) for more details on authentication.

The configuration file is INI file, for example:

```
[odorik]
user = pepa
password = zdepa
```

Additionally config file can include phone number and line aliases:

```
[lines]
pepa = 12345

[numbers]
pepa = 00420789789789
franta = 00420789123456
```

2.4 Examples

Print current program version:

```
$ odorik version
version: 0.1
```

Print current user balance:

```
$ odorik balance
balance: 123.45
```

Prints current mobile data usage:

```
$ odorik mobile-data --phone 00420789123456
bytes_total: 111593707
bytes_down: 87039672
bytes_up: 24554035
price: 0
```

Sending message:

```
$ odorik send-sms 00420789123456 "Ahoj, jak se mas?"
```

Initiating callback:

```
$ odorik callback 00420789123456 800123456
```

Getting account summary:

```
$ odorik summary
Pepa
id: 716000
public_number: 00420789789789
call_count: 58
sms_count: 42
bytes_total: 145921813
data_price: 0.01
call_price: 24.28
sms_price: 12.31
price: 36.59

Franta
id: 717000
public_number: 00420789123456
call_count: 11
sms_count: 0
bytes_total: 0
data_price: 0
call_price: 2.20
sms_price: 0
price: 2.20
```

Generic API usage:

```
$ odorik api sms/allowed_sender
Odorik.cz,5517,00420789123456
```

Generic API POST:

```
$ odorik api --post --param caller=00420789123456 --param recipient=800123456 callback
```

Machine readable output formats:

```
$ odorik --format json mobile-data
{
  "bytes_total": 111593707,
  "bytes_down": 87039672,
  "bytes_up": 24554035,
  "price": 0.008
}
$ odorik --format csv mobile-data
bytes_total,111593707
bytes_down,87039672
bytes_up,24554035
price,0.008
```


3.1 Source code

The project is being developed on GitHub: <https://github.com/nijel/odorik>

3.2 Issue tracker

Issue tracker is hosted on GitHub: <https://github.com/nijel/odorik/issues>

3.3 Testsuite

The testsuite can be executed using `py.test`.

3.4 Continuous integration

We're using several services to ensure our code is healthy:

Travis CI for running the testsuite <https://travis-ci.org/nijel/odorik>

Codecov for reporting the testsuite coverage <https://codecov.io/github/nijel/odorik>

Landscape for checking quality of our code <https://landscape.io/github/nijel/odorik/master>

4.1 0.5

- Documentation translated to Czech language.
- More detailed summaries for calls and messages.
- Added options for filtering calls by status and direction.

4.2 0.4

- Adjustable date periods for commands.
- Add support for listing calls.
- Add support for listing SMS.
- Add support for using names for phone numbers and lines.
- Add summary command to print short overview.

4.3 0.3

- Added support for listing lines information.
- Added support for listing data usage for all lines on current account.
- Documentation improvements.
- Added html output to the program.

4.4 0.2

- Documentation improvements.
- Added support for json and csv output.
- Improved command line support for API calls.
- Command line parameters can now override config file.
- Added support for initiating callback.

4.5 0.1

- Initial release.
- Support for getting data usage.
- Support for getting current balance.
- Support for sending messages.

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