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# Odorik Documentation

*Release 0.6*

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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.

## 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 0.6

### 4.2 0.5

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

### 4.3 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.

### 4.4 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.

## 4.5 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.

## 4.6 0.1

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

## CHAPTER 5

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