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# TracRemote Documentation

*Release 0.2.0*

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# CHAPTER 1

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## Introduction

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This is the documentation for TracRemote.



## 2.1 TracRemote API

### 2.1.1 TracRemote

This package provides a mechanism to manipulate remote [Trac](#) instances similar to [trac-admin](#).

### 2.1.2 TracRemote.connection

Contains a class for establishing and using connections to Trac servers.

**class** `TracRemote.connection.Connection` (*url=None*, *passfile=None*, *realm=None*, *debug=False*)

A representation of the connection to Trac.

#### Parameters

- **url** (*str*) – The base URL of the Trac server.
- **passfile** (*str*, optional) – A file containing username and password. Overrides `~/.netrc`.
- **realm** (*str*, optional) – If the Trac instance uses basic or digest authentication, set this to the authentication realm.
- **debug** (*bool*, optional) – If set to `True`, print more information.

**\_readPassword** (*passfile*)

Read the password file & return the username & password.

**Parameters** **passfile** (*str*) – File containing Trac username and password.

**Returns** A tuple containing the username and password.

**Return type** `tuple()`

**\_readPasswordNetrc** (*url*)

Read the Trac username and password from a `.netrc` file.

**Parameters** `url` (`str`) – URL of the Trac server

**Returns** A tuple containing the username and password. If there is no `.netrc` file, or if the Trac server is not present, returns `None`.

**Return type** `tuple()`

**attach** (`pagepath`, `filename`, `description=None`, `replace=False`)

Attaches a file to a wiki page.

**Parameters**

- **pagepath** (`str`) – Wiki page to attach to.
- **filename** (`str` or `tuple()`) – Name of the file to attach. If a tuple is passed, the first item should be the name of the file, & the second item should be the data that the file should contain.
- **description** (`str`, optional) – If supplied, this description will be added as a comment on the attachment.
- **replace** (`bool`, optional) – Set this to `True` if the file is replacing an existing file.

**attachments** (`pagepath`)

Return a list of files attached to a particular page.

**Parameters** **pagepath** (`str`) – Wiki page to attach to.

**Returns** A dictionary where the keys are file names and the values are sub-dictionaries that contain the size and mtime of the file. If there are no attachments, the dictionary will be empty.

**Return type** `dict`

**close** ()

Close the connection by logging out.

**detach** (`pagepath`, `filename`, `save=True`)

Grab a file attached to a wiki page.

**Parameters**

- **pagepath** (`str`) – Wiki page that contains attached file.
- **filename** (`str`) – Name of the file to read. The name had better match an actual attached file!
- **save** (`bool`, optional) – If set to `False`, no file will be saved, but the data will still be returned.

**Returns** The raw data read from the file.

**Return type** `str`

**get** (`pagepath`)

Requests a wiki page in text format.

**Parameters** **pagepath** (`str`) – Wiki page to grab.

**Returns** The text of the wiki page. Note that in some cases, the text of the page may contain UTF-8 characters, so a further conversion to unicode may be warranted. The text may also contain Windows (CRLF) line endings.

**Return type** `str`



**index()**

Get and parse the TitleIndex page.

**Returns** `index` – A list of all Trac wiki pages.

**Return type** `list`

**logout()**

Close the connection by logging out.

**set**(*pagepath*, *text*, *comment=None*)

Inputs text into the wiki input text box.

**Parameters**

- **pagepath** (`str`) – Wiki page to update.
- **text** (`str`) – The wiki text.
- **comment** (`str`, optional) – A comment on the change.

### 2.1.3 TracRemote.main

Contains entry point for command-line scripts.

`TracRemote.main.dispatch(options)`

Determine function to run, given arguments.

**Parameters** `options` (`argparse.Namespace`) – Parsed options.

**Returns** Any output from the commands.

**Return type** `str`

`TracRemote.main.main()`

Main entry point for the trac-remote script.

**Returns** An integer suitable for passing to `sys.exit()`.

**Return type** `int`

`TracRemote.main.main_args(args=None)`

Parse the command-line arguments passed to `main()`.

**Parameters** `args` (`list`, optional) – Set the command-line arguments for testing purposes. Normally `sys.argv` will be parsed.

**Returns** An object containing the parsed arguments.

**Return type** `argparse.Namespace`

`TracRemote.main.validate_args(options)`

Validate the arguments to the various sub-commands.

**Parameters** `options` (`argparse.Namespace`) – Parsed options.

**Returns** `True` if the arguments are valid.

**Return type** `bool`

## 2.1.4 TracRemote.util

Utility functions and classes for internal use by the TracRemote package.

`TracRemote.util.CRLF` (*text*)

Convert Unix line endings to CRLF, which is required by the POST data mime-types `application/x-www-form-urlencoded` and `multipart/form-data`.

**Parameters** `text` (*str*) – Text to convert.

**Returns** Input text converted to CRLF line endings. Any initial blank lines are also removed.

**Return type** *str*

**class** `TracRemote.util.SimpleAttachmentHTMLParser`

Parse an attachment list page.

**mtimere**

Regular Expression for extracting modification times.

**Type** Regular Expression

**class** `TracRemote.util.SimpleIndexHTMLParser`

Parse the Trac TitleIndex page.

This parser should be capable of handling Trac 1.0-style Index pages as well as older versions.

**class** `TracRemote.util.SimpleWikiHTMLParser` (*search='token'*)

Handle simple forms in Trac documents. The form is searched for certain embedded values.

**search\_value**

The embedded value found in the form. Initially set to `None`.

**Type** *str*

## 2.2 TracRemote Release Notes

### 2.2.1 0.2.0 (2022-06-01)

- Drop Python 2 support; add GitHub Actions (PR #2).

### 2.2.2 0.1.0 (2019-06-10)

- Use `requests` library. No significant changes to the user-visible API (PR #1).

### 2.2.3 0.0.2 (2019-06-06)

- Working with standard `setup.py` file.

### 2.2.4 0.0.1 (2016-08-09)

- Not a functional package yet. This tag is for reference only.

## CHAPTER 3

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### Indices and tables

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