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**rfslib**

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This is a documentation of rfslib.

To create a new development enviroment, it is recommended to create python virtual enviroment and install dependencies in requirements.txt

If you want to create a new pdf documentation, you are required to install also texlive on your system.



## RFSLIB.ABSTRACT\_PCONNECTION MODULE

```
class rfslib.abstract_pconnection.PConnection(settings:
                                         rfslib.abstract_pconnection.p_connection_settings)
    Bases: abc.ABC
    __init__(settings: rfslib.abstract_pconnection.p_connection_settings)
        The constructor of a abstract class. If it is not called from child class, the behavior is undefined.
        If local_encoding and remote_encoding have same values, no recoding is done. Analogically if local_crlf
        and remote_crlf is same, no substitution between LF and CRLF is done.
        Parameters settings – A p_connection_settings object with all generic settings for PConnection. Be sure, that all needed attributes are present, or AttributeError will be raised.
    abstract _exists(remote_path: str) → bool
        Protected method which checks, whether a remote file exist. If the remote file is a broken symlink, it returns False.
        Parameters remote_path – Path of a remote file.
        Returns True, if remote file is exist. False, if remote file doesn't exist
    abstract _isdir(remote_path: str) → bool
        Protected method which checks, whether a remote file is a directory. The function is DEPRECATED and will be substituted using stat or lstat.
        Parameters remote_path – A path of a directory.
        Returns True, if remote file is folder. False, if it isn't a folder. Undefined if the file doesn't exist.
    abstract _lexists(remote_path: str) → bool
        Protected method which checks, whether a remote file exist. If the remote file is a broken symlink, it returns True.
        KNOWN BUG: Behavior is undefined in case of broken symlinks.
        Parameters remote_path – Path of a remote file.
        Returns True, if remote file is exist. False, if remote file doesn't exist
    abstract _listdir(remote_path: str) → List[str]
        Protected method which returns a list of files in the folder including hidden files. Undefined if the remote file doesn't exist or isn't a folder.
        Parameters remote_path – The remote path of a remote folder.
        Returns List of files in the remote folder
```

**abstract \_mkdir**(*remote\_path: str*)

Protected method which creates a new directory. Behavior is undefined if remote folder already exist, or destination folder doesn't exist.

**Parameters** **remote\_path** – A path of a new remote directory.

**abstract \_pull**(*remote\_path: str, local\_path: str*)

Protected method which downloads/pulls a nondirectory file from a remote storage to a local storage in the binary form. Behavior is undefined if source file or destination folder doesn't exist.

**Parameters**

- **remote\_path** – Path of a remote file to download.
- **local\_path** – Path of a local file, where to download/pull a remote file or local file already exists.

**abstract \_push**(*local\_path: str, remote\_path: str*)

Protected method which uploads/pushes a nondirectory file from a local storage to a remote storage in the binary form. Behavior is undefined if destination folder or source file doesn't exist, source is directory or remote file already exists.

**Parameters**

- **local\_path** – Path of a local file to upload.
- **remote\_path** – Path on the remote storage, where to upload/push a local file.

**abstract \_rename**(*old\_name: str, new\_name: str*)

Protected method which renames/moves a file. Behavior is undefined, if *new\_name* file exists or *old\_name* file doesn't exist.

**Parameters**

- **old\_name** – Remote path a file to move.
- **new\_name** – Remote path to which move the file.

**abstract \_rmdir**(*remote\_path: str*)

Protected method which removes an empty remote directory. Behavior is undefined if remote directory doesn't exist or it isn't empty.

**Parameters** **remote\_path** – Path of an empty remote directory to delete.

**abstract \_stat**(*remote\_path: str*) → *os.stat\_result*

Protected method which returns statistics of a file (eg. size, last date modified,...) Follows symlinks to a destination file. Undefined behavior if remote file doesn't exist or it is a broken symlink.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** The function returns *os.stat\_result* like object, which is further parsed by *\_stat\_unpack* function. For more details please see source code.

**abstract \_unlink**(*remote\_path: str*)

Protected method which removes a nondirectory file. Behavior is undefined if remote file doesn't exist or is a directory.

**Parameters** **remote\_path** – Path of a remote regular file to delete.

**abstract close**()

Method to close the opened connection.

**cp**(*old\_names, new\_name, recursive=False*)

**dcp**(*old\_names, target\_dir, recursive=False*)



**dmv**(*old\_names*, *target\_dir*)

**exists**(*remote\_path*: *str*) → bool

Method which checks, whether a remote file exist. Returns False for broken symlinks.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** True, if remote file exists. False, if remote file doesn't exist.

**fcv**(*old\_name*, *new\_name*)

**find**(*remote\_path*, *child\_first*=False)

**fmv**(*old\_name*, *new\_name*)

**get\_default\_dmask**() → int

Returns default\_dmask settings. For more details see `p_connection_settings`.

**get\_default\_fmask**() → int

Returns default\_fmask settings. For more details see `p_connection_settings`.

**get\_settings**() → *rfslib.abstract\_pconnection.p\_connection\_settings*

The procedure sets all generic settings for PConnection.

**Returns** A `p_connection_settings` object with all generic settings of PConnection.

**isdir**(*remote\_path*)

**lexists**(*remote\_path*)

Method which checks, whether a remote file exist. Returns True for broken symlinks.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** True, if remote file exists. False, if remote file doesn't exist.

**listdir**(*remote\_path*)

**ls**(*remote\_path*)

**lstat**(*remote\_path*: *str*) → *rfslib.abstract\_pconnection.p\_stat\_result*

Returns statistics of a file (eg. size, last date modified,...) Doesn't follow symlinks.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** An object whose attributes correspond to the attributes of Python's `stat` structure as returned by `os.stat`, except that it contains fewer fields.

**mkdir**(*remote\_path*)

**mv**(*old\_names*, *new\_name*)

**pmkdir**(*remote\_path*)

**pull**(*remote\_path*, *local\_path*)

**push**(*local\_path*, *remote\_path*)

Uploads/pushes a file from a local storage to a remote storage in the binary form.

**Parameters**

- **local\_path** – Path of a local file to upload.
- **remote\_path** – Path on the remote storage, where to upload/push a local file.

**rename**(*old\_name*, *new\_name*)

**rm**(*remote\_path*, *recursive*=False)

**rmdir**(*remote\_path*)

**rpull**(*remote\_path*, *local\_path*)

**rpush**(*local\_path*, *remote\_path*)

**set\_settings**(*settings*: [rfslib.abstract\\_pconnection.p\\_connection\\_settings](#))

The procedure sets all generic settings for PConnection.

**Parameters settings** – A `p_connection_settings` object with all generic settings for PConnection. If some attribute in object is missing, no operation will be done with it.

**stat**(*remote\_path*: *str*) → [rfslib.abstract\\_pconnection.p\\_stat\\_result](#)

Returns statistics of a file (eg. size, last date modified,...) Follows symlinks to a destination file.

**Parameters remote\_path** – Path of a remote file.

**Returns** An object whose attributes correspond to the attributes of Python's `stat` structure as returned by `os.stat`, except that it contains fewer fields.

**touch**(*remote\_path*)

**unlink**(*remote\_path*)

**xls**(*remote\_path*)

**class** `rfslib.abstract_pconnection.p_connection_settings`

Bases: `object`

This object represents settings applicable for all PConnection instances (instances of class, which inherits from PConnection).

**\_\_init\_\_**()

The constructor initializes the class to default values.

**default\_dmask**: `int = 18`

If mode (permissions) of a directory can't be fetched, this value will be used instead of it.

**default\_fmask**: `int = 91`

If mode (permissions) of a nondirectory file can't be fetched, this value will be used instead of it.

**direct\_write**: `bool = False`

NOT IMPLEMENTED YET. If True, push will write output directly to file. If False all push operations on regular files will create firstly tmp file in target folder and then move result to file.

**local\_crlf**: `bool = False`

Does local files use CRLF? If True, it is supposed, they do. If False, it is supposed, they use LF.

**local\_encoding**: `str = 'UTF8'`

The encoding of local text files. (eg. 'UTF8')

**remote\_crlf**: `bool = False`

Does remote files use CRLF? If True, it is supposed, they do. If False, it is supposed, they use LF.

**remote\_encoding**: `str = 'UTF8'`

The encoding of remote text files. (eg. 'cp1250')

**skip\_validation**: `bool = False`

NOT IMPLEMENTED YED. If True, all validations of input will be skipped. Undefined behavior may happen if input is wrong. Increses performance.

**text\_transmission**: `bool = False`

If true, all files, which will be transmitted, will be recoded from `local_encoding` to `remote_encoding` and from `local_crlf` to `remote_crlf`. If False, there will be no encoding done during transmission.

**class** rfslib.abstract\_pconnection.p\_stat\_result

Bases: object

Representation of the attributes of a file (or proxied file). It attempts to mirror the object returned by os.stat as closely as possible.

**\_\_init\_\_**()

**st\_atime:** int = None

This is the time of the last access of file data.

**st\_gid:** int = None

This field contains the ID of the group owner of the file.

**st\_mode:** int = None

This field contains the file type and mode.

**st\_mtime:** int = None

This is the time of last modification of file data.

**st\_nlink:** int = None

This field contains the number of hard links to the file.

**st\_size:** int = None

This field gives the size of the file (if it is a regular file or a symbolic link) in bytes. The size of a symbolic link is the length of the pathname it contains, without a terminating null byte.

**st\_uid:** int = None

This field contains the user ID of the owner of the file.



## RFSLIB.SFTP\_PCONNECTION MODULE

```
class rfslib.sftp_pconnection.SftpPConnection(settings:
    rfslib.abstract_pconnection.p_connection_settings, host:
    str, username: str, password: Optional[str] = None,
    keyfile: str = '~/.ssh/id_rsa', port: int = 22,
    no_host_key_checking: bool = False)
```

Bases: *rfslib.abstract\_pconnection.PConnection*

Class for SFTP connection. Public interface with an exception of `__init__` and `close` is inherited from `PConnection`.

```
__init__(settings: rfslib.abstract_pconnection.p_connection_settings, host: str, username: str, password:
    Optional[str] = None, keyfile: str = '~/.ssh/id_rsa', port: int = 22, no_host_key_checking: bool =
    False)
```

The constructor of `SftpPConnection`. Opens SFTP connection, when called. If None password is specified, the key authentication will be used. Otherwise the password authentication will be used.

### Parameters

- **settings** – The settings for the super class `PConnection`.
- **host** – Remote address of the server.
- **port** – Port for the SFTP connection.
- **username** – Remote username
- **password** – Password for a SFTP connection. If None is provided, key authentication will be used.
- **keyfile** – A path to key file.
- **no\_host\_key\_checking** – Specifies, whether remote host key should be verified or not.

```
_exists(remote_path)
```

Protected method which checks, whether a remote file exist. If the remote file is a broken symlink, it returns False.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** True, if remote file is exist. False, if remote file doesn't exist

```
_isdir(remote_path)
```

Protected method which checks, whether a remote file is a directory. The function is DEPRECATED and will be substituted using `stat` or `lstat`.

**Parameters** **remote\_path** – A path of a directory.

**Returns** True, if remote file is folder. False, if it isn't a folder. Undefined if the file doesn't exist.

**\_lexists**(*remote\_path*)

Protected method which checks, whether a remote file exist. If the remote file is a broken symlink, it returns True.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** True, if remote file is exist. False, if remote file doesn't exist

**\_listdir**(*remote\_path*)

Protected method which returns a list of files in the folder including hidden files. Undefined if the remote file doesn't exist or isn't a folder.

**Parameters** **remote\_path** – The remote path of a remote folder.

**Returns** List of files in the remote folder

**\_mkdir**(*remote\_path*)

Protected method which creates a new directory. Behavior is undefined if remote folder already exist, or destination folder doesn't exist.

**Parameters** **remote\_path** – A path of a new remote directory.

**\_pull**(*remote\_path*, *local\_path*)

Protected method which downloads/pulls a nondirectory file from a remote storage to a local storage in the binary form. Behavior is undefined if source file or destination folder doesn't exist.

**Parameters**

- **remote\_path** – Path of a remote file to download.
- **local\_path** – Path of a local file, where to download/pull a remote file or local file already exists.

**\_push**(*local\_path*, *remote\_path*)

Protected method which uploads/pushes a nondirectory file from a local storage to a remote storage in the binary form. Behavior is undefined if destination folder or source file doesn't exist, source is directory or remote file already exists.

**Parameters**

- **local\_path** – Path of a local file to upload.
- **remote\_path** – Path on the remote storage, where to upload/push a local file.

**\_rename**(*old\_name*, *new\_name*)

Protected method which renames/moves a file. Behavior is undefined, if *new\_name* file exists or *old\_name* file doesn't exist.

**Parameters**

- **old\_name** – Remote path a file to move.
- **new\_name** – Remote path to which move the file.

**\_rmdir**(*remote\_path*)

Protected method which removes an empty remote directory. Behavior is undefined if remote directory doesn't exist or it isn't empty.

**Parameters** **remote\_path** – Path of an empty remote directory to delete.

**\_stat**(*remote\_path*)

Protected method which returns statistics of a file (eg. size, last date modified,...) Follows symlinks to a destination file. Undefined behavior if remote file doesn't exist or it is a broken symlink.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** The function returns `os.stat_result` like object, which is further parsed by `_stat_unpack` function. For more details please see source code.

**\_unlink**(*remote\_path*)

Protected method which removes a nondirectory file. Behavior is undefined if remote file doesn't exist or is a directory.

**Parameters** **remote\_path** – Path of a remote regular file to delete.

**close**()

Method to close the opened connection.

**cp**(*old\_names*, *new\_name*, *recursive=False*)

**dcp**(*old\_names*, *target\_dir*, *recursive=False*)

**dmv**(*old\_names*, *target\_dir*)

**exists**(*remote\_path: str*) → bool

Method which checks, whether a remote file exist. Returns False for broken symlinks.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** True, if remote file exists. False, if remote file doesn't exist.

**fcop**(*old\_name*, *new\_name*)

**find**(*remote\_path*, *child\_first=False*)

**fmv**(*old\_name*, *new\_name*)

**get\_default\_dmask**() → int

Returns default\_dmask settings. For more details see `p_connection_settings`.

**get\_default\_fmask**() → int

Returns default\_fmask settings. For more details see `p_connection_settings`.

**get\_settings**() → *rfslib.abstract\_pconnection.p\_connection\_settings*

The procedure sets all generic settings for PConnection.

**Returns** A `p_connection_settings` object with all generic settings of PConnection.

**isdir**(*remote\_path*)

**lexists**(*remote\_path*)

Method which checks, whether a remote file exist. Returns True for broken symlinks.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** True, if remote file exists. False, if remote file doesn't exist.

**listdir**(*remote\_path*)

**ls**(*remote\_path*)

**lstat**(*remote\_path: str*) → *rfslib.abstract\_pconnection.p\_stat\_result*

Returns statistics of a file (eg. size, last date modified,...) Doesn't follow symlinks.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** An object whose attributes correspond to the attributes of Python's `stat` structure as returned by `os.stat`, except that it contains fewer fields.

**mkdir**(*remote\_path*)

**mv**(*old\_names*, *new\_name*)

**pmkdir**(*remote\_path*)

**pull**(*remote\_path*, *local\_path*)

**push**(*local\_path*, *remote\_path*)

Uploads/pushes a file from a local storage to a remote storage in the binary form.

**Parameters**

- **local\_path** – Path of a local file to upload.
- **remote\_path** – Path on the remote storage, where to upload/push a local file.

**rename**(*old\_name*, *new\_name*)

**rm**(*remote\_path*, *recursive=False*)

**rmdir**(*remote\_path*)

**rpull**(*remote\_path*, *local\_path*)

**rpush**(*local\_path*, *remote\_path*)

**set\_settings**(*settings*: [rfslib.abstract\\_pconnection.p\\_connection\\_settings](#))

The procedure sets all generic settings for PConnection.

**Parameters settings** – A `p_connection_settings` object with all generic settings for PConnection. If some attribute in object is missing, no operation will be done with it.

**stat**(*remote\_path*: *str*) → [rfslib.abstract\\_pconnection.p\\_stat\\_result](#)

Returns statistics of a file (eg. size, last date modified,...) Follows symlinks to a destination file.

**Parameters remote\_path** – Path of a remote file.

**Returns** An object whose attributes correspond to the attributes of Python's `stat` structure as returned by `os.stat`, except that it contains fewer fields.

**touch**(*remote\_path*)

**unlink**(*remote\_path*)

**xls**(*remote\_path*)



## RFSLIB.FTP\_PCONNECTION MODULE

```
class rfslib.ftp_pconnection.FtpPConnection(settings:
    rfslib.abstract_pconnection.p_connection_settings, host:
    str, username: str, password: str, port: int = 21, tls: bool
    = False, passive_mode: bool = False, debug_level: int = 1,
    connection_encoding: str = 'UTF8')
```

Bases: `rfslib.abstract_pconnection.PConnection`

Class for FTP connection. Public interface with an exception of `__init__` and `close` is inherited from `PConnection`.

```
__init__(settings: rfslib.abstract_pconnection.p_connection_settings, host: str, username: str, password:
    str, port: int = 21, tls: bool = False, passive_mode: bool = False, debug_level: int = 1,
    connection_encoding: str = 'UTF8')
```

The constructor of `FtpPConnection`.

### Parameters

- **settings** – The settings for the super class `PConnection`.
- **host** – Remote address of the server.
- **port** – Port for a connection.
- **username** – Remote username.
- **password** – Remote password.
- **tls** – Enables TLS.
- **passive\_mode** – Enables passive mode of FTP connection.
- **debug\_level** – Specifies how much logs should be generated. 0 - almost non, 1 - more, 2 - log almost everything
- **connection\_encoding** – Encoding used for a connection.

```
_exists(remote_path)
```

Protected method which checks, whether a remote file exist. If the remote file is a broken symlink, it returns `False`.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** `True`, if remote file is exist. `False`, if remote file doesn't exist

```
_isdir(remote_path)
```

Protected method which checks, whether a remote file is a directory. The function is `DEPRECATED` and will be substituted using `stat` or `lstat`.

**Parameters** **remote\_path** – A path of a directory.

**Returns** True, if remote file is folder. False, if it isn't a folder. Undefined if the file doesn't exist.

**\_lexists**(*remote\_path*)

Protected method which checks, whether a remote file exist. If the remote file is a broken symlink, it returns True.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** True, if remote file is exist. False, if remote file doesn't exist

**\_listdir**(*remote\_path*)

Protected method which returns a list of files in the folder including hidden files. Undefined if the remote file doesn't exist or isn't a folder.

**Parameters** **remote\_path** – The remote path of a remote folder.

**Returns** List of files in the remote folder

**\_mkdir**(*remote\_path*)

Protected method which creates a new directory. Behavior is undefined if remote folder already exist, or destination folder doesn't exist.

**Parameters** **remote\_path** – A path of a new remote directory.

**\_pull**(*remote\_path*, *local\_path*)

Protected method which downloads/pulls a nondirectory file from a remote storage to a local storage in the binary form. Behavior is undefined if source file or destination folder doesn't exist.

**Parameters**

- **remote\_path** – Path of a remote file to download.
- **local\_path** – Path of a local file, where to download/pull a remote file or local file already exists.

**\_push**(*local\_path*, *remote\_path*)

Protected method which uploads/pushes a nondirectory file from a local storage to a remote storage in the binary form. Behavior is undefined if destination folder or source file doesn't exist, source is directory or remote file already exists.

**Parameters**

- **local\_path** – Path of a local file to upload.
- **remote\_path** – Path on the remote storage, where to upload/push a local file.

**\_rename**(*old\_name*, *new\_name*)

Protected method which renames/moves a file. Behavior is undefined, if *new\_name* file exists or *old\_name* file doesn't exist.

**Parameters**

- **old\_name** – Remote path a file to move.
- **new\_name** – Remote path to which move the file.

**\_rmdir**(*remote\_path*)

Protected method which removes an empty remote directory. Behavior is undefined if remote directory doesn't exist or it isn't empty.

**Parameters** **remote\_path** – Path of an empty remote directory to delete.

**\_stat**(*remote\_path*)

Protected method which returns statistics of a file (eg. size, last date modified,...) Follows symlinks to a destination file. Undefined behavior if remote file doesn't exist or it is a broken symlink.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** The function returns `os.stat_result` like object, which is further parsed by `_stat_unpack` function. For more details please see source code.

**\_unlink**(*remote\_path*)

Protected method which removes a nondirectory file. Behavior is undefined if remote file doesn't exist or is a directory.

**Parameters** **remote\_path** – Path of a remote regular file to delete.

**close**()

Method to close the opened connection.

**cp**(*old\_names*, *new\_name*, *recursive=False*)

**dcp**(*old\_names*, *target\_dir*, *recursive=False*)

**dmv**(*old\_names*, *target\_dir*)

**exists**(*remote\_path: str*) → bool

Method which checks, whether a remote file exist. Returns False for broken symlinks.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** True, if remote file exists. False, if remote file doesn't exist.

**fcv**(*old\_name*, *new\_name*)

**find**(*remote\_path*, *child\_first=False*)

**fmv**(*old\_name*, *new\_name*)

**get\_default\_dmask**() → int

Returns default\_dmask settings. For more details see `p_connection_settings`.

**get\_default\_fmask**() → int

Returns default\_fmask settings. For more details see `p_connection_settings`.

**get\_settings**() → *rfslib.abstract\_pconnection.p\_connection\_settings*

The procedure sets all generic settings for PConnection.

**Returns** A `p_connection_settings` object with all generic settings of PConnection.

**isdir**(*remote\_path*)

**lexists**(*remote\_path*)

Method which checks, whether a remote file exist. Returns True for broken symlinks.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** True, if remote file exists. False, if remote file doesn't exist.

**listdir**(*remote\_path*)

**ls**(*remote\_path*)

**lstat**(*remote\_path: str*) → *rfslib.abstract\_pconnection.p\_stat\_result*

Returns statistics of a file (eg. size, last date modified,...) Doesn't follow symlinks.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** An object whose attributes correspond to the attributes of Python's stat structure as returned by os.stat, except that it contains fewer fields.

**mkdir**(*remote\_path*)

**mv**(*old\_names*, *new\_name*)

**pmkdir**(*remote\_path*)

**pull**(*remote\_path*, *local\_path*)

**push**(*local\_path*, *remote\_path*)

Uploads/pushes a file from a local storage to a remote storage in the binary form.

**Parameters**

- **local\_path** – Path of a local file to upload.
- **remote\_path** – Path on the remote storage, where to upload/push a local file.

**rename**(*old\_name*, *new\_name*)

**rm**(*remote\_path*, *recursive=False*)

**rmdir**(*remote\_path*)

**rpull**(*remote\_path*, *local\_path*)

**rpush**(*local\_path*, *remote\_path*)

**set\_settings**(*settings*: [rfslib.abstract\\_pconnection.p\\_connection\\_settings](#))

The procedure sets all generic settings for PConnection.

**Parameters settings** – A `p_connection_settings` object with all generic settings for PConnection. If some attribute in object is missing, no operation will be done with it.

**stat**(*remote\_path*: *str*) → [rfslib.abstract\\_pconnection.p\\_stat\\_result](#)

Returns statistics of a file (eg. size, last date modified,...) Follows symlinks to a destination file.

**Parameters remote\_path** – Path of a remote file.

**Returns** An object whose attributes correspond to the attributes of Python's stat structure as returned by os.stat, except that it contains fewer fields.

**touch**(*remote\_path*)

**unlink**(*remote\_path*)

**xls**(*remote\_path*)

## RFSLIB.SMB12\_PCONNECTION MODULE

```
class rfslib.smb12_pconnection.Smb12PConnection(settings:
    rfslib.abstract_pconnection.p_connection_settings,
    host: str, service_name: str, username: str, password:
    str, port: int = 139, use_direct_tcp: bool = False,
    client_name: str = 'RFS', use_ntlm_v1: bool = False)
```

Bases: *rfslib.abstract\_pconnection.PConnection*

Class for SMB connection version 1 or 2. Public interface with an exception of `__init__` and `close` is inherited from `PConnection`.

```
__init__(settings: rfslib.abstract_pconnection.p_connection_settings, host: str, service_name: str,
    username: str, password: str, port: int = 139, use_direct_tcp: bool = False, client_name: str =
    'RFS', use_ntlm_v1: bool = False)
```

The constructor of `Smb12PConnection`. Opens SMB connection version 1 or 2, when called.

### Parameters

- **settings** – The settings for the super class `PConnection`.
- **host** – Remote address of the server.
- **service\_name** – Name of a shared folder.
- **port** – Port for the SMB connection.
- **username** – Remote username.
- **password** – Remote password.
- **use\_direct\_tcp** – Activates direct tcp mode for SMB.
- **client\_name** – Name of this client, which will be sent to a server.
- **use\_ntlm\_v1** – Enables NTLM version 1 instead of NTLM version 2.

```
_exists(remote_path)
```

Protected method which checks, whether a remote file exist. If the remote file is a broken symlink, it returns `False`.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** `True`, if remote file is exist. `False`, if remote file doesn't exist

```
_isdir(remote_path)
```

Protected method which checks, whether a remote file is a directory. The function is `DEPRECATED` and will be substituted using `stat` or `lstat`.

**Parameters** **remote\_path** – A path of a directory.

**Returns** `True`, if remote file is folder. `False`, if it isn't a folder. Undefined if the file doesn't exist.

**\_lexists**(*remote\_path*)

Protected method which checks, whether a remote file exist. If the remote file is a broken symlink, it returns True.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** True, if remote file is exist. False, if remote file doesn't exist

**\_listdir**(*remote\_path*)

Protected method which returns a list of files in the folder including hidden files. Undefined if the remote file doesn't exist or isn't a folder.

**Parameters** **remote\_path** – The remote path of a remote folder.

**Returns** List of files in the remote folder

**\_mkdir**(*remote\_path*)

Protected method which creates a new directory. Behavior is undefined if remote folder already exist, or destination folder doesn't exist.

**Parameters** **remote\_path** – A path of a new remote directory.

**\_pull**(*remote\_path*, *local\_path*)

Protected method which downloads/pulls a nondirectory file from a remote storage to a local storage in the binary form. Behavior is undefined if source file or destination folder doesn't exist.

**Parameters**

- **remote\_path** – Path of a remote file to download.
- **local\_path** – Path of a local file, where to download/pull a remote file or local file already exists.

**\_push**(*local\_path*, *remote\_path*)

Protected method which uploads/pushes a nondirectory file from a local storage to a remote storage in the binary form. Behavior is undefined if destination folder or source file doesn't exist, source is directory or remote file already exists.

**Parameters**

- **local\_path** – Path of a local file to upload.
- **remote\_path** – Path on the remote storage, where to upload/push a local file.

**\_rename**(*old\_name*, *new\_name*)

Protected method which renames/moves a file. Behavior is undefined, if *new\_name* file exists or *old\_name* file doesn't exist.

**Parameters**

- **old\_name** – Remote path a file to move.
- **new\_name** – Remote path to which move the file.

**\_rmdir**(*remote\_path*)

Protected method which removes an empty remote directory. Behavior is undefined if remote directory doesn't exist or it isn't empty.

**Parameters** **remote\_path** – Path of an empty remote directory to delete.

**\_stat**(*remote\_path*)

Protected method which returns statistics of a file (eg. size, last date modified,...) Follows symlinks to a destination file. Undefined behavior if remote file doesn't exist or it is a broken symlink.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** The function returns `os.stat_result` like object, which is further parsed by `_stat_unpack` function. For more details please see source code.

**\_unlink**(*remote\_path*)

Protected method which removes a nondirectory file. Behavior is undefined if remote file doesn't exist or is a directory.

**Parameters** **remote\_path** – Path of a remote regular file to delete.

**close**()

Method to close the opened connection.

**cp**(*old\_names, new\_name, recursive=False*)

**dcp**(*old\_names, target\_dir, recursive=False*)

**dmv**(*old\_names, target\_dir*)

**exists**(*remote\_path: str*) → bool

Method which checks, whether a remote file exist. Returns False for broken symlinks.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** True, if remote file exists. False, if remote file doesn't exist.

**fcop**(*old\_name, new\_name*)

**find**(*remote\_path, child\_first=False*)

**fmv**(*old\_name, new\_name*)

**get\_default\_dmask**() → int

Returns default\_dmask settings. For more details see `p_connection_settings`.

**get\_default\_fmask**() → int

Returns default\_fmask settings. For more details see `p_connection_settings`.

**get\_settings**() → *rfslib.abstract\_pconnection.p\_connection\_settings*

The procedure sets all generic settings for PConnection.

**Returns** A `p_connection_settings` object with all generic settings of PConnection.

**isdir**(*remote\_path*)

**lexists**(*remote\_path*)

Method which checks, whether a remote file exist. Returns True for broken symlinks.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** True, if remote file exists. False, if remote file doesn't exist.

**listdir**(*remote\_path*)

**ls**(*remote\_path*)

**lstat**(*remote\_path: str*) → *rfslib.abstract\_pconnection.p\_stat\_result*

Returns statistics of a file (eg. size, last date modified,...) Doesn't follow symlinks.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** An object whose attributes correspond to the attributes of Python's `stat` structure as returned by `os.stat`, except that it contains fewer fields.

**mkdir**(*remote\_path*)

**mv**(*old\_names, new\_name*)

**pmkdir**(*remote\_path*)

**pull**(*remote\_path*, *local\_path*)

**push**(*local\_path*, *remote\_path*)

Uploads/pushes a file from a local storage to a remote storage in the binary form.

**Parameters**

- **local\_path** – Path of a local file to upload.
- **remote\_path** – Path on the remote storage, where to upload/push a local file.

**rename**(*old\_name*, *new\_name*)

**rm**(*remote\_path*, *recursive=False*)

**rmdir**(*remote\_path*)

**rpull**(*remote\_path*, *local\_path*)

**rpush**(*local\_path*, *remote\_path*)

**set\_settings**(*settings*: [rfslib.abstract\\_pconnection.p\\_connection\\_settings](#))

The procedure sets all generic settings for PConnection.

**Parameters settings** – A `p_connection_settings` object with all generic settings for PConnection. If some attribute in object is missing, no operation will be done with it.

**stat**(*remote\_path*: *str*) → [rfslib.abstract\\_pconnection.p\\_stat\\_result](#)

Returns statistics of a file (eg. size, last date modified,...) Follows symlinks to a destination file.

**Parameters remote\_path** – Path of a remote file.

**Returns** An object whose attributes correspond to the attributes of Python's `stat` structure as returned by `os.stat`, except that it contains fewer fields.

**touch**(*remote\_path*)

**unlink**(*remote\_path*)

**xls**(*remote\_path*)



## RFSLIB.SMB23\_PCONNECTION MODULE

```
class rfslib.smb23_pconnection.Smb23PConnection(settings:
    rfslib.abstract_pconnection.p_connection_settings,
    host: str, service_name: str, username: str, password:
    str, port: int = 445, enable_encryption: bool = False,
    dont_require_signing: bool = False)
```

Bases: `rfslib.abstract_pconnection.PConnection`

Class for SMB connection version 2 or 3. Public interface with an exception of `__init__` and `close` is inherited from `PConnection`.

```
__init__(settings: rfslib.abstract_pconnection.p_connection_settings, host: str, service_name: str,
    username: str, password: str, port: int = 445, enable_encryption: bool = False,
    dont_require_signing: bool = False)
```

The constructor of `Smb23PConnection`. Opens SMB connection version 2 or 3, when called.

### Parameters

- **settings** – The settings for the super class `PConnection`.
- **service\_name** – Name of a shared folder.
- **host** – Remote address of the server.
- **port** – Port for a SMB connection.
- **username** – Remote username
- **password** – Password for a SMB connection.
- **enable\_encryption** – Enables encryption for a SMB3 connection.
- **dont\_require\_signing** – Disables signing requirement.

```
_exists(remote_path)
```

Protected method which checks, whether a remote file exist. If the remote file is a broken symlink, it returns `False`.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** `True`, if remote file is exist. `False`, if remote file doesn't exist

```
_isdir(remote_path)
```

Protected method which checks, whether a remote file is a directory. The function is `DEPRECATED` and will be substituted using `stat` or `lstat`.

**Parameters** **remote\_path** – A path of a directory.

**Returns** `True`, if remote file is folder. `False`, if it isn't a folder. Undefined if the file doesn't exist.

**\_lexists**(*remote\_path*)

Protected method which checks, whether a remote file exist. If the remote file is a broken symlink, it returns True.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** True, if remote file is exist. False, if remote file doesn't exist

**\_listdir**(*remote\_path*)

Protected method which returns a list of files in the folder including hidden files. Undefined if the remote file doesn't exist or isn't a folder.

**Parameters** **remote\_path** – The remote path of a remote folder.

**Returns** List of files in the remote folder

**\_mkdir**(*remote\_path*)

Protected method which creates a new directory. Behavior is undefined if remote folder already exist, or destination folder doesn't exist.

**Parameters** **remote\_path** – A path of a new remote directory.

**\_pull**(*remote\_path*, *local\_path*)

Protected method which downloads/pulls a nondirectory file from a remote storage to a local storage in the binary form. Behavior is undefined if source file or destination folder doesn't exist.

**Parameters**

- **remote\_path** – Path of a remote file to download.
- **local\_path** – Path of a local file, where to download/pull a remote file or local file already exists.

**\_push**(*local\_path*, *remote\_path*)

Protected method which uploads/pushes a nondirectory file from a local storage to a remote storage in the binary form. Behavior is undefined if destination folder or source file doesn't exist, source is directory or remote file already exists.

**Parameters**

- **local\_path** – Path of a local file to upload.
- **remote\_path** – Path on the remote storage, where to upload/push a local file.

**\_rename**(*old\_name*, *new\_name*)

Protected method which renames/moves a file. Behavior is undefined, if *new\_name* file exists or *old\_name* file doesn't exist.

**Parameters**

- **old\_name** – Remote path a file to move.
- **new\_name** – Remote path to which move the file.

**\_rmdir**(*remote\_path*)

Protected method which removes an empty remote directory. Behavior is undefined if remote directory doesn't exist or it isn't empty.

**Parameters** **remote\_path** – Path of an empty remote directory to delete.

**\_stat**(*remote\_path*)

Protected method which returns statistics of a file (eg. size, last date modified,...) Follows symlinks to a destination file. Undefined behavior if remote file doesn't exist or it is a broken symlink.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** The function returns `os.stat_result` like object, which is further parsed by `_stat_unpack` function. For more details please see source code.

**\_unlink**(*remote\_path*)

Protected method which removes a nondirectory file. Behavior is undefined if remote file doesn't exist or is a directory.

**Parameters** **remote\_path** – Path of a remote regular file to delete.

**close**()

Method to close the opened connection.

**cp**(*old\_names*, *new\_name*, *recursive=False*)

**dcp**(*old\_names*, *target\_dir*, *recursive=False*)

**dmv**(*old\_names*, *target\_dir*)

**exists**(*remote\_path: str*) → bool

Method which checks, whether a remote file exist. Returns False for broken symlinks.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** True, if remote file exists. False, if remote file doesn't exist.

**fcop**(*old\_name*, *new\_name*)

**find**(*remote\_path*, *child\_first=False*)

**fmv**(*old\_name*, *new\_name*)

**get\_default\_dmask**() → int

Returns default\_dmask settings. For more details see `p_connection_settings`.

**get\_default\_fmask**() → int

Returns default\_fmask settings. For more details see `p_connection_settings`.

**get\_settings**() → *rfslib.abstract\_pconnection.p\_connection\_settings*

The procedure sets all generic settings for PConnection.

**Returns** A `p_connection_settings` object with all generic settings of PConnection.

**isdir**(*remote\_path*)

**lexists**(*remote\_path*)

Method which checks, whether a remote file exist. Returns True for broken symlinks.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** True, if remote file exists. False, if remote file doesn't exist.

**listdir**(*remote\_path*)

**ls**(*remote\_path*)

**lstat**(*remote\_path: str*) → *rfslib.abstract\_pconnection.p\_stat\_result*

Returns statistics of a file (eg. size, last date modified,...) Doesn't follow symlinks.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** An object whose attributes correspond to the attributes of Python's `stat` structure as returned by `os.stat`, except that it contains fewer fields.

**mkdir**(*remote\_path*)

**mv**(*old\_names*, *new\_name*)

**pmkdir**(*remote\_path*)

**pull**(*remote\_path*, *local\_path*)

**push**(*local\_path*, *remote\_path*)

Uploads/pushes a file from a local storage to a remote storage in the binary form.

**Parameters**

- **local\_path** – Path of a local file to upload.
- **remote\_path** – Path on the remote storage, where to upload/push a local file.

**rename**(*old\_name*, *new\_name*)

**rm**(*remote\_path*, *recursive=False*)

**rmdir**(*remote\_path*)

**rpull**(*remote\_path*, *local\_path*)

**rpush**(*local\_path*, *remote\_path*)

**set\_settings**(*settings*: [rfslib.abstract\\_pconnection.p\\_connection\\_settings](#))

The procedure sets all generic settings for PConnection.

**Parameters settings** – A `p_connection_settings` object with all generic settings for PConnection. If some attribute in object is missing, no operation will be done with it.

**stat**(*remote\_path*: *str*) → [rfslib.abstract\\_pconnection.p\\_stat\\_result](#)

Returns statistics of a file (eg. size, last date modified,...) Follows symlinks to a destination file.

**Parameters remote\_path** – Path of a remote file.

**Returns** An object whose attributes correspond to the attributes of Python's `stat` structure as returned by `os.stat`, except that it contains fewer fields.

**touch**(*remote\_path*)

**unlink**(*remote\_path*)

**xls**(*remote\_path*)

`rfslib.smb23_pconnection.config_smb23`(*no\_dfs*: *bool = False*, *disable\_secure\_negotiate*: *bool = False*,  
*dfs\_domain\_controller*: *Optional[str] = None*)

The procedure changes global setting for SMB version 2 or 3 across all connection. Don't change value, if any SMB connection version 2 or 3 is active.

**Parameters**

- **no\_dfs** – Disables DFS support - useful as a bug fix.
- **disable\_secure\_negotiate** – Disables secure negotiate requirement for a SMB connection.
- **dfs\_domain\_controller** – The DFS domain controller address. Useful in case, when `rfstools` fails to find it itself.

---

## RFSLIB.FS\_PCONNECTION MODULE

**class** `rfslib.fs_pconnection.FsPConnection(settings: rfslib.abstract_pconnection.p_connection_settings)`  
Bases: `rfslib.abstract_pconnection.PConnection`

Class for operating with local filesystem. Public interface with an exception of `__init__` and `close` is inherited from `PConnection`.

**`__init__`**(*settings: rfslib.abstract\_pconnection.p\_connection\_settings*)  
The constructor of `FsPConnection`.

**Parameters** **settings** – The settings for super class `PConnection`.

**`_exists`**(*remote\_path*)  
Protected method which checks, whether a remote file exist. If the remote file is a broken symlink, it returns `False`.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** `True`, if remote file is exist. `False`, if remote file doesn't exist

**`_isdir`**(*remote\_path*)  
Protected method which checks, whether a remote file is a directory. The function is DEPRECATED and will be substituted using `stat` or `lstat`.

**Parameters** **remote\_path** – A path of a directory.

**Returns** `True`, if remote file is folder. `False`, if it isn't a folder. Undefined if the file doesn't exist.

**`_lexists`**(*remote\_path*)  
Protected method which checks, whether a remote file exist. If the remote file is a broken symlink, it returns `True`.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** `True`, if remote file is exist. `False`, if remote file doesn't exist

**`_listdir`**(*remote\_path*)  
Protected method which returns a list of files in the folder including hidden files. Undefined if the remote file doesn't exist or isn't a folder.

**Parameters** **remote\_path** – The remote path of a remote folder.

**Returns** List of files in the remote folder

**`_mkdir`**(*remote\_path*)  
Protected method which creates a new directory. Behavior is undefined if remote folder already exist, or destination folder doesn't exist.

**Parameters** **remote\_path** – A path of a new remote directory.

**`_pull(remote_path, local_path)`**

Protected method which downloads/pulls a nondirectory file from a remote storage to a local storage in the binary form. Behavior is undefined if source file or destination folder doesn't exist.

**Parameters**

- **`remote_path`** – Path of a remote file to download.
- **`local_path`** – Path of a local file, where to download/pull a remote file or local file already exists.

**`_push(local_path, remote_path)`**

Protected method which uploads/pushes a nondirectory file from a local storage to a remote storage in the binary form. Behavior is undefined if destination folder or source file doesn't exist, source is directory or remote file already exists.

**Parameters**

- **`local_path`** – Path of a local file to upload.
- **`remote_path`** – Path on the remote storage, where to upload/push a local file.

**`_rename(old_name, new_name)`**

Protected method which renames/moves a file. Behavior is undefined, if `new_name` file exists or `old_name` file doesn't exist.

**Parameters**

- **`old_name`** – Remote path a file to move.
- **`new_name`** – Remote path to which move the file.

**`_rmdir(remote_path)`**

Protected method which removes an empty remote directory. Behavior is undefined if remote directory doesn't exist or it isn't empty.

**Parameters** **`remote_path`** – Path of an empty remote directory to delete.

**`_stat(remote_path)`**

Protected method which returns statistics of a file (eg. size, last date modified,...) Follows symlinks to a destination file. Undefined behavior if remote file doesn't exist or it is a broken symlink.

**Parameters** **`remote_path`** – Path of a remote file.

**Returns** The function returns `os.stat_result` like object, which is further parsed by `_stat_unpack` function. For more details please see source code.

**`_unlink(remote_path)`**

Protected method which removes a nondirectory file. Behavior is undefined if remote file doesn't exist or is a directory.

**Parameters** **`remote_path`** – Path of a remote regular file to delete.

**`close()`**

Method to close the opened connection.

**`cp(old_names, new_name, recursive=False)`**

**`dcp(old_names, target_dir, recursive=False)`**

**`dmv(old_names, target_dir)`**

**`exists(remote_path: str) → bool`**

Method which checks, whether a remote file exist. Returns False for broken symlinks.

**Parameters** **`remote_path`** – Path of a remote file.

**Returns** True, if remote file exists. False, if remote file doesn't exist.

**fc***cp*(*old\_name*, *new\_name*)

**find**(*remote\_path*, *child\_first=False*)

**fm***mv*(*old\_name*, *new\_name*)

**get\_default\_dmask**() → int

Returns default\_dmask settings. For more details see *p\_connection\_settings*.

**get\_default\_fmask**() → int

Returns default\_fmask settings. For more details see *p\_connection\_settings*.

**get\_settings**() → *rfslib.abstract\_pconnection.p\_connection\_settings*

The procedure sets all generic settings for PConnection.

**Returns** A *p\_connection\_settings* object with all generic settings of PConnection.

**isdir**(*remote\_path*)

**lexists**(*remote\_path*)

Method which checks, whether a remote file exist. Returns True for broken symlinks.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** True, if remote file exists. False, if remote file doesn't exist.

**listdir**(*remote\_path*)

**ls**(*remote\_path*)

**lstat**(*remote\_path: str*) → *rfslib.abstract\_pconnection.p\_stat\_result*

Returns statistics of a file (eg. size, last date modified,...) Doesn't follow symlinks.

**Parameters** **remote\_path** – Path of a remote file.

**Returns** An object whose attributes correspond to the attributes of Python's stat structure as returned by *os.stat*, except that it contains fewer fields.

**mkdir**(*remote\_path*)

**mv**(*old\_names*, *new\_name*)

**pmkdir**(*remote\_path*)

**pull**(*remote\_path*, *local\_path*)

**push**(*local\_path*, *remote\_path*)

Uploads/pushes a file from a local storage to a remote storage in the binary form.

**Parameters**

- **local\_path** – Path of a local file to upload.
- **remote\_path** – Path on the remote storage, where to upload/push a local file.

**rename**(*old\_name*, *new\_name*)

**rm**(*remote\_path*, *recursive=False*)

**rmdir**(*remote\_path*)

**rpull**(*remote\_path*, *local\_path*)

**rpush**(*local\_path*, *remote\_path*)

**set\_settings**(*settings: rfslib.abstract\_pconnection.p\_connection\_settings*)

The procedure sets all generic settings for PConnection.

**Parameters settings** – A `p_connection_settings` object with all generic settings for `PConnection`. If some attribute in object is missing, no operation will be done with it.

**stat**(*remote\_path*: str) → *rfslib.abstract\_pconnection.p\_stat\_result*

Returns statistics of a file (eg. size, last date modified,...) Follows symlinks to a destination file.

**Parameters remote\_path** – Path of a remote file.

**Returns** An object whose attributes correspond to the attributes of Python's `stat` structure as returned by `os.stat`, except that it contains fewer fields.

**touch**(*remote\_path*)

**unlink**(*remote\_path*)

**xls**(*remote\_path*)



## RFSLIB.PATH\_UTILS MODULE

```
class rfslib.path_utils.GenericPath(path)
    Bases: object
        __init__(path)
rfslib.path_utils.add_r_prefix(path)
rfslib.path_utils.generic_cp(conn, sources, dest, recursive=False)
rfslib.path_utils.generic_mv(conn, sources, dest)
rfslib.path_utils.generic_path_normalize(path)
rfslib.path_utils.is_remote(path)
rfslib.path_utils.path_normalize(path)
rfslib.path_utils.remove_r_prefix(path)
```



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