
qbittorrent-api

Release 2023.11.56

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INTRODUCTION

Python client implementation for qBittorrent Web API.

Currently supports qBittorrent [v4.6.1](#) (Web API v2.9.3) released on November 20, 2023.

1.1 Features

- The entire qBittorrent [Web API](#) is implemented.
- qBittorrent version checking for an endpoint's existence/features is automatically handled.
- If the authentication cookie expires, a new one is automatically requested in line with any API call.

1.2 Installation

- Install via pip from [PyPI](#):

```
python -m pip install qbittorrent-api
```

- Install a specific release (e.g. [v2022.8.34](#)):

```
python -m pip install qbittorrent-api==2022.8.34
```

- Install direct from main:

```
pip install git+https://github.com/rmartin16/qbittorrent-api.git@main#egg=qbittorrent-api
```

- Enable WebUI in qBittorrent: Tools -> Preferences -> Web UI
- If the Web API will be exposed to the Internet, follow the [recommendations](#).

1.3 Getting Started

```
import qbittorrentapi

# instantiate a Client using the appropriate WebUI configuration
conn_info = dict(
    host="localhost",
    port=8080,
    username="admin",
    password="adminadmin",
)
qbt_client = qbittorrentapi.Client(**conn_info)

# the Client will automatically acquire/maintain a logged-in state
# in line with any request. therefore, this is not strictly necessary;
# however, you may want to test the provided login credentials.
try:
    qbt_client.auth_log_in()
except qbittorrentapi.LoginFailed as e:
    print(e)

# if the Client will not be long-lived or many Clients may be created
# in a relatively short amount of time, be sure to log out:
qbt_client.auth_log_out()

# or use a context manager:
with qbittorrentapi.Client(**conn_info) as qbt_client:
    if qbt_client.torrents_add(urls="...") != "Ok.":
        raise Exception("Failed to add torrent.")

# display qBittorrent info
print(f"qBittorrent: {qbt_client.app.version}")
print(f"qBittorrent Web API: {qbt_client.app.web_api_version}")
for k, v in qbt_client.app.build_info.items():
    print(f"{k}: {v}")

# retrieve and show all torrents
for torrent in qbt_client.torrents_info():
    print(f"{torrent.hash[-6:]}: {torrent.name} ({torrent.state})")

# pause all torrents
qbt_client.torrents.pause.all()
```

1.4 Usage

First, the Web API endpoints are organized in to eight namespaces.

- Authentication (auth)
- Application (app)
- Log (log)
- Sync (sync)
- Transfer (transfer)
- Torrent Management (torrents)
- RSS (rss)
- Search (search)

Second, this client has two modes of interaction with the qBittorrent Web API.

Each Web API endpoint is implemented one-to-one as a method of the instantiated client.

```
import qbittorrentapi
qbt_client = qbittorrentapi.Client(host='localhost:8080', username='admin', password=
↳ 'adminadmin')
qbt_client.app_version()
qbt_client.rss_rules()
qbt_client.torrents_info()
qbt_client.torrents_resume(torrent_hashes='...')
# and so on
```

However, a more robust interface to the endpoints is available via each namespace. This is intended to provide a more seamless and intuitive interface to the Web API.

```
import qbittorrentapi
qbt_client = qbittorrentapi.Client(host='localhost:8080', username='admin', password=
↳ 'adminadmin')
# changing a preference
is_dht_enabled = qbt_client.app.preferences.dht
qbt_client.app.preferences = dict(dht=not is_dht_enabled)
# stopping all torrents
qbt_client.torrents.pause.all()
# retrieve different views of the log
qbt_client.log.main.warning()
qbt_client.log.main.normal()
```

Finally, some of the objects returned by the client support methods of their own. This is most pronounced for torrents themselves.

```
import qbittorrentapi
qbt_client = qbittorrentapi.Client(host='localhost:8080', username='admin', password=
↳ 'adminadmin')

for torrent in qbt_client.torrents.info.active():
    torrent.set_location(location='/home/user/torrents/')

```

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```
torrent.reannounce()  
torrent.upload_limit = -1
```

1.4.1 Introduction

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- If the Web API will be exposed to the Internet, follow the [recommendations](#).

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```

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print(f"qBittorrent: {qbt_client.app.version}")
print(f"qBittorrent Web API: {qbt_client.app.web_api_version}")
for k, v in qbt_client.app.build_info.items():
    print(f"{k}: {v}")

# retrieve and show all torrents
for torrent in qbt_client.torrents_info():
    print(f"{torrent.hash[-6:]}: {torrent.name} ({torrent.state})")

# pause all torrents
qbt_client.torrents.pause.all()

```

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```

import qbittorrentapi
qbt_client = qbittorrentapi.Client(host='localhost:8080', username='admin', password=

```

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```

↪ 'adminadmin')
qbt_client.app_version()
qbt_client.rss_rules()
qbt_client.torrents_info()
qbt_client.torrents_resume(torrent_hashes='...')
# and so on

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is_dht_enabled = qbt_client.app.preferences.dht
qbt_client.app.preferences = dict(dht=not is_dht_enabled)
# stopping all torrents
qbt_client.torrents.pause.all()
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```

Finally, some of the objects returned by the client support methods of their own. This is most pronounced for torrents themselves.

```

import qbittorrentapi
qbt_client = qbittorrentapi.Client(host='localhost:8080', username='admin', password=
↪ 'adminadmin')

for torrent in qbt_client.torrents.info.active():
    torrent.set_location(location='/home/user/torrents/')
    torrent.reannounce()
    torrent.upload_limit = -1

```

1.4.2 Behavior & Configuration

Host, Username and Password

- The authentication credentials can be provided when instantiating *Client*:

```
qbt_client = Client(host="localhost:8080", username='...', password='...')
```

- The credentials can also be specified after *Client* is created but calling *auth_log_in()* is not strictly necessary to authenticate the client; this will happen automatically for any API request.

```
qbt_client.auth_log_in(username='...', password='...')
```

- Alternatively, the credentials can be specified in environment variables:
 - QBITTORRENTAPI_HOST
 - QBITTORRENTAPI_USERNAME
 - QBITTORRENTAPI_PASSWORD

qBittorrent Session Management

- Any time a connection is established with qBittorrent, it instantiates a session to manage authentication for all subsequent API requests.
- This client will transparently manage sessions by ensuring the client is always logged in in-line with any API request including requesting a new session upon expiration of an existing session.
- However, each new *Client* instantiation will create a new session in qBittorrent.
- Therefore, if many *Client* instances will be created be sure to call *auth_log_out* for each instance or use a context manager.
- Otherwise, qBittorrent may experience abnormally high memory usage.

```
with qbittorrentapi.Client(**conn_info) as qbt_client:
    if qbt_client.torrents_add(urls="...") != "Ok.":
        raise Exception("Failed to add torrent.")
```

Untrusted WebUI Certificate

- qBittorrent allows you to configure HTTPS with an untrusted certificate; this commonly includes self-signed certificates.
- When using such a certificate, instantiate Client with `VERIFY_WEBUI_CERTIFICATE=False` or set environment variable `QBITTORRENTAPI_DO_NOT_VERIFY_WEBUI_CERTIFICATE` to a non-null value.
- Failure to do this for will cause connections to qBittorrent to fail.
- As a word of caution, doing this actually does turn off certificate verification. Therefore, for instance, potential man-in-the-middle attacks will not be detected and reported (since the error is suppressed). However, the connection will remain encrypted.

```
qbt_client = Client(..., VERIFY_WEBUI_CERTIFICATE=False)
```

Requests Configuration

- The *Requests* package is used to issue HTTP requests to qBittorrent to facilitate this API.
- Much of *Requests* configuration for making HTTP requests can be controlled with parameters passed along with the request payload.
- For instance, HTTP Basic Authorization credentials can be provided via *auth*, timeouts via *timeout*, or Cookies via *cookies*. See *Requests documentation* for full details.
- These parameters are exposed here in two ways; the examples below tell *Requests* to use a connect timeout of 3.1 seconds and a read timeout of 30 seconds.
- When you instantiate *Client*, you can specify the parameters to use in all HTTP requests to qBittorrent:

```
qbt_client = Client(..., REQUESTS_ARGS={'timeout': (3.1, 30)})
```

- Alternatively, parameters can be specified for individual requests:

```
qbt_client.torrents_info(..., requests_args={'timeout': (3.1, 30)})
```

Additional HTTP Headers

- For consistency, HTTP Headers can be specified using the method above; for backwards compatibility, the methods below are supported as well.
- Either way, these additional headers will be incorporated (using clobbering) into the rest of the headers to be sent.
- To send a custom HTTP header in all requests made from an instantiated client, declare them during instantiation:

```
qbt_client = Client(..., EXTRA_HEADERS={'X-My-Fav-Header': 'header value'})
```

- Alternatively, you can send custom headers in individual requests:

```
qbt_client.torrents.add(..., headers={'X-My-Fav-Header': 'header value'})
```

Unimplemented API Endpoints

- Since the qBittorrent Web API has evolved over time, some endpoints may not be available from the qBittorrent host.
- By default, if a request is made to endpoint that doesn't exist for the version of the qBittorrent host (e.g., the Search endpoints were introduced in Web API v2.1.1), there's a debug logger output and None is returned.
- To raise `NotImplementedError` instead, instantiate `Client` with:

```
qbt_client = Client(..., RAISE_NOTIMPLEMENTEDERROR_FOR_UNIMPLEMENTED_API_ENDPOINTS=True)
```

qBittorrent Version Checking

- It is also possible to either raise an Exception for qBittorrent hosts that are not “fully” supported or manually check for support.
- The most likely situation for this to occur is if the qBittorrent team publishes a new release but its changes have not been incorporated in to this client yet.
- Instantiate `Client` like below to raise `UnsupportedQbittorrentVersion` exception for versions not fully supported:

```
qbt_client = Client(..., RAISE_ERROR_FOR_UNSUPPORTED_QBITTORRENT_VERSIONS=True)
```

- Additionally, the `qbittorrentapi.Version` class can be used for manual introspection of the versions.

```
Version.is_app_version_supported(qbt_client.app.version)
```

Disable Logging Debug Output

- Instantiate Client with `DISABLE_LOGGING_DEBUG_OUTPUT=True` or manually disable logging for the relevant packages:

```
logging.getLogger('qbittorrentapi').setLevel(logging.INFO)
logging.getLogger('requests').setLevel(logging.INFO)
logging.getLogger('urllib3').setLevel(logging.INFO)
```

1.4.3 Performance

By default, complex objects are returned from some endpoints. These objects allow for accessing the response's items as attributes and include methods for contextually relevant actions (such as `start()` and `stop()` for a torrent, for example).

This comes at the cost of performance, though. Generally, this cost isn't large; however, some endpoints, such as `torrents_files()`, may need to convert a large payload and the cost can be significant.

This client can be configured to always return only the simple JSON if desired. Simply set `SIMPLE_RESPONSES=True` when instantiating the client.

```
qbt_client = qbittorrentapi.Client(
    host='localhost:8080',
    username='admin',
    password='adminadmin',
    SIMPLE_RESPONSES=True,
)
```

Alternatively, `SIMPLE_RESPONSES` can be set to `True` to return the simple JSON only for an individual method call.

```
qbt_client.torrents.files(torrent_hash='...', SIMPLE_RESPONSES=True)
```

1.4.4 Exceptions

exception `APIError`

Bases: `Exception`

Base error for all exceptions from this Client.

exception `UnsupportedQbittorrentVersion`

Bases: `APIError`

Connected qBittorrent is not fully supported by this Client.

exception `FileError`

Bases: `OSError`, `APIError`

Base class for all exceptions for file handling.

exception `TorrentFileError`

Bases: `FileError`

Base class for all exceptions for torrent files.

exception `TorrentFileNotFoundError`

Bases: `TorrentFileError`

Specified torrent file does not appear to exist.

exception `TorrentFilePermissionError`

Bases: `TorrentFileError`

Permission was denied to read the specified torrent file.

exception `APIConnectionError(*args, **kwargs)`

Bases: `RequestException`, `APIError`

Base class for all communications errors including HTTP errors.

exception `LoginFailed(*args, **kwargs)`

Bases: `APIConnectionError`

This can technically be raised with any request since log in may be attempted for any request and could fail.

exception `HTTPError(*args, **kwargs)`

Bases: `HTTPError`, `APIConnectionError`

Base error for all HTTP errors.

All errors following a successful connection to qBittorrent are returned as HTTP statuses.

http_status_code: `int`

exception `HTTP4XXError(*args, **kwargs)`

Bases: `HTTPError`

Base error for all HTTP 4XX statuses.

exception `HTTP5XXError(*args, **kwargs)`

Bases: `HTTPError`

Base error for all HTTP 5XX statuses.

exception `HTTP400Error(*args, **kwargs)`

Bases: `HTTP4XXError`

HTTP 400 Status.

http_status_code: `int = 400`

exception `HTTP401Error(*args, **kwargs)`

Bases: `HTTP4XXError`

HTTP 401 Status.

http_status_code: `int = 401`

exception `HTTP403Error(*args, **kwargs)`

Bases: `HTTP4XXError`

HTTP 403 Status.

http_status_code: `int = 403`

exception HTTP404Error(*args, **kwargs)

Bases: [HTTP4XXError](#)

HTTP 404 Status.

http_status_code: `int` = 404

exception HTTP405Error(*args, **kwargs)

Bases: [HTTP4XXError](#)

HTTP 405 Status.

http_status_code: `int` = 405

exception HTTP409Error(*args, **kwargs)

Bases: [HTTP4XXError](#)

HTTP 409 Status.

http_status_code: `int` = 409

exception HTTP415Error(*args, **kwargs)

Bases: [HTTP4XXError](#)

HTTP 415 Status.

http_status_code: `int` = 415

exception HTTP500Error(*args, **kwargs)

Bases: [HTTP5XXError](#)

HTTP 500 Status.

http_status_code: `int` = 500

exception MissingRequiredParameters400Error(*args, **kwargs)

Bases: [HTTP400Error](#)

Endpoint call is missing one or more required parameters.

exception InvalidRequest400Error(*args, **kwargs)

Bases: [HTTP400Error](#)

One or more endpoint arguments are malformed.

exception Unauthorized401Error(*args, **kwargs)

Bases: [HTTP401Error](#)

Primarily reserved for XSS and host header issues.

exception Forbidden403Error(*args, **kwargs)

Bases: [HTTP403Error](#)

Not logged in, IP has been banned, or calling an API method that isn't public.

exception NotFound404Error(*args, **kwargs)

Bases: [HTTP404Error](#)

This should mean qBittorrent couldn't find a torrent for the torrent hash.

exception MethodNotAllowed405Error(*args, **kwargs)

Bases: [HTTP405Error](#)

HTTP method is not supported for the API endpoint.

exception Conflict409Error(*args, **kwargs)

Bases: [HTTP409Error](#)

Returned if arguments don't make sense specific to the endpoint.

exception UnsupportedMediaType415Error(*args, **kwargs)

Bases: [HTTP415Error](#)

torrents/add endpoint will return this for invalid URL(s) or files.

exception InternalServerError500Error(*args, **kwargs)

Bases: [HTTP500Error](#)

Returned if qBittorrent errors internally while processing the request.

1.4.5 API Reference

Application

class AppAPIMixin(host=None, port=None, username=None, password=None, EXTRA_HEADERS=None, REQUESTS_ARGS=None, VERIFY_WEBUI_CERTIFICATE=True, FORCE_SCHEME_FROM_HOST=False, RAISE_NOTIMPLEMENTEDERROR_FOR_UNIMPLEMENTED_API_ENDPOINTS=False, RAISE_ERROR_FOR_UNSUPPORTED_QBITTORRENT_VERSIONS=False, VERBOSE_RESPONSE_LOGGING=False, SIMPLE_RESPONSES=False, DISABLE_LOGGING_DEBUG_OUTPUT=False) → None

Bases: [AuthAPIMixin](#)

Implementation of all Application API methods.

Usage

```
>>> from qbittorrentapi import Client
>>> client = Client(host="localhost:8080", username="admin", password=
↳ "adminadmin")
>>> client.app_version()
>>> client.app_preferences()
```

app_build_info(**kwargs) → [BuildInfoDictionary](#)

qBittorrent build info.

This method was introduced with qBittorrent v4.2.0 (Web API v2.3).

Return type

[BuildInfoDictionary](#)

app_default_save_path(**kwargs) → str

The default path where torrents are saved.

Return type

str

app_network_interface_address_list(*interface_name=""*, ***kwargs*) → *NetworkInterfaceAddressList*

The addresses for a network interface; omit name for all addresses.

This method was introduced with qBittorrent v4.2.0 (Web API v2.3).

Parameters

interface_name (*str*) – Name of interface to retrieve addresses for

Return type

NetworkInterfaceAddressList

app_network_interface_list(***kwargs*) → *NetworkInterfaceList*

The list of network interfaces on the host.

This method was introduced with qBittorrent v4.2.0 (Web API v2.3).

Return type

NetworkInterfaceList

app_preferences(***kwargs*) → *ApplicationPreferencesDictionary*

Retrieve qBittorrent application preferences.

Return type

ApplicationPreferencesDictionary

app_set_preferences(*prefs=None*, ***kwargs*) → *None*

Set one or more preferences in qBittorrent application.

Parameters

prefs (*Optional[Mapping[str, Any]]*) – dictionary of preferences to set

Return type

None

app_shutdown(***kwargs*) → *None*

Shutdown qBittorrent.

Return type

None

app_version(***kwargs*) → *str*

qBittorrent application version.

Return type

str

app_web_api_version(***kwargs*) → *str*

qBittorrent Web API version.

Return type

str

class Application(*args, client, ***kwargs*)

Allows interaction with Application API endpoints.

Usage

```
>>> from qbittorrentapi import Client
>>> client = Client(host="localhost:8080", username="admin", password=
↳ "adminadmin")
>>> # these are all the same attributes that are available as named in_
```

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```

↪ the
>>> # endpoints or the more pythonic names in Client (with or without
↪ 'app_' prepended)
>>> webapiVersion = client.application.webapiVersion
>>> web_api_version = client.application.web_api_version
>>> app_web_api_version = client.application.web_api_version
>>> # access and set preferences as attributes
>>> is_dht_enabled = client.application.preferences.dht
>>> # supports sending a just subset of preferences to update
>>> client.application.preferences = dict(dht=(not is_dht_enabled))
>>> prefs = client.application.preferences
>>> prefs["web_ui_clickjacking_protection_enabled"] = True
>>> client.app.preferences = prefs
>>>
>>> client.application.shutdown()

```

property build_info: *BuildInfoDictionary*

qBittorrent build info.

This method was introduced with qBittorrent v4.2.0 (Web API v2.3).

property default_save_path: *str*

The default path where torrents are saved.

network_interface_address_list(*interface_name=""*, ***kwargs*) → *NetworkInterfaceAddressList*

The addresses for a network interface; omit name for all addresses.

This method was introduced with qBittorrent v4.2.0 (Web API v2.3).

Parameters

interface_name (*str*) – Name of interface to retrieve addresses for

Return type

NetworkInterfaceAddressList

property network_interface_list: *NetworkInterfaceList*

The list of network interfaces on the host.

This method was introduced with qBittorrent v4.2.0 (Web API v2.3).

property preferences: *ApplicationPreferencesDictionary*

Retrieve qBittorrent application preferences.

set_preferences(*prefs=None*, ***kwargs*) → *None*

Set one or more preferences in qBittorrent application.

Parameters

prefs (*Optional[Mapping[str, Any]]*) – dictionary of preferences to set

Return type

None

shutdown(***kwargs*) → *None*

Shutdown qBittorrent.

Return type

None

property version: `str`

qBittorrent application version.

property web_api_version: `str`

qBittorrent Web API version.

class ApplicationPreferencesDictionary(*data=None, **kwargs*)

Bases: `Dictionary[Union[None, int, str, bool, Sequence[JsonValueT], Mapping[str, JsonValueT]]]`

Response for `app_preferences()`

Definition: [https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-\(qBittorrent-4.1\)#user-content-get-application-preferences](https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-(qBittorrent-4.1)#user-content-get-application-preferences)

class BuildInfoDictionary(*data=None, **kwargs*)

Bases: `Dictionary[Union[str, int]]`

Response for `app_build_info()`

Definition: [https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-\(qBittorrent-4.1\)#user-content-get-build-info](https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-(qBittorrent-4.1)#user-content-get-build-info)

class NetworkInterfaceList(*list_entries, client=None*)

Bases: `List[NetworkInterface]`

Response for `app_network_interface_list()`

class NetworkInterface(*data=None, **kwargs*)

Bases: `ListEntry`

Item in `NetworkInterfaceList`

class NetworkInterfaceAddressList(*list_entries, client=None*)

Bases: `List[str]`

Response for `app_network_interface_address_list()`

AttrDict (internal)

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class AttrDict(*args, **kwargs) → `None`

Bases: `Dict[str, V], MutableAttr[V]`

A dict that implements MutableAttr.

class MutableAttr

Bases: `Attr[str, V], MutableMapping[str, V], ABC`

A mixin mapping class that allows for attribute-style access of values.

class Attr

Bases: `Mapping[K, V], ABC`

A mixin class for a mapping that allows for attribute-style access of values.

A key may be used as an attribute if:

- It is a string
- It matches `^[A-Za-z][A-Za-z0-9_]*$` (i.e., a public attribute)

- The key doesn't overlap with any class attributes (for `Attr`, those would be `get`, `items`, `keys`, `values`, `mro`, and `register`).

If a value which is accessed as an attribute is a Sequence-type (and is not a string/bytes), it will be converted to a `_sequence_type` with any mappings within it converted to `Attrs`.

NOTE:

This means that if `_sequence_type` is not `None`, then a sequence accessed as an attribute will be a different object than if accessed as an attribute than if it is accessed as an item.

Authentication

```
class AuthAPIMixin(host=None, port=None, username=None, password=None, EXTRA_HEADERS=None,
                    REQUESTS_ARGS=None, VERIFY_WEBUI_CERTIFICATE=True,
                    FORCE_SCHEME_FROM_HOST=False,
                    RAISE_NOTIMPLEMENTEDERROR_FOR_UNIMPLEMENTED_API_ENDPOINTS=False,
                    RAISE_ERROR_FOR_UNSUPPORTED_QBITTORRENT_VERSIONS=False,
                    VERBOSE_RESPONSE_LOGGING=False, SIMPLE_RESPONSES=False,
                    DISABLE_LOGGING_DEBUG_OUTPUT=False) → None
```

Bases: `Request`

Implementation of all Authorization API methods.

Usage

```
>>> from qbittorrentapi import Client
>>> client = Client(host="localhost:8080", username="admin", password=
↳ "adminadmin")
>>> _ = client.is_logged_in
>>> client.auth_log_in(username="admin", password="adminadmin")
>>> client.auth_log_out()
```

`auth_log_in(username=None, password=None, **kwargs) → None`

Log in to qBittorrent host.

Raises

- `LoginFailed` – if credentials failed to log in
- `Forbidden403Error` – if user is banned...or not logged in

Parameters

- `username` (`Optional[str]`) – username for qBittorrent client
- `password` (`Optional[str]`) – password for qBittorrent client

Return type

`None`

`auth_log_out(**kwargs) → None`

End session with qBittorrent.

Return type

`None`

property `is_logged_in: bool`

Returns True if low-overhead API call succeeds; False otherwise.

There isn't a reliable way to know if an existing session is still valid without attempting to use it. qBittorrent invalidates cookies when they expire.

Returns

True/False if current authorization cookie is accepted by qBittorrent

class Authorization(*args, client, **kwargs)

Allows interaction with the Authorization API endpoints.

Usage

```
>>> from qbittorrentapi import Client
>>> client = Client(host="localhost:8080", username="admin", password=
↳ "adminadmin")
>>> is_logged_in = client.auth.is_logged_in
>>> client.auth.log_in(username="admin", password="adminadmin")
>>> client.auth.log_out()
```

property is_logged_in

Returns True if low-overhead API call succeeds; False otherwise.

There isn't a reliable way to know if an existing session is still valid without attempting to use it. qBittorrent invalidates cookies when they expire.

Returns

True/False if current authorization cookie is accepted by qBittorrent

log_in(username=None, password=None, **kwargs) → None

Log in to qBittorrent host.

Raises

- **LoginFailed** – if credentials failed to log in
- **Forbidden403Error** – if user is banned... or not logged in

Parameters

- **username** (Optional[str]) – username for qBittorrent client
- **password** (Optional[str]) – password for qBittorrent client

Return type

None

log_out(**kwargs) → None

End session with qBittorrent.

Return type

None

Client

```
class Client(host="", port=None, username=None, password=None, EXTRA_HEADERS=None,
            REQUESTS_ARGS=None, VERIFY_WEBUI_CERTIFICATE=True,
            FORCE_SCHEME_FROM_HOST=False,
            RAISE_NOTIMPLEMENTEDERROR_FOR_UNIMPLEMENTED_API_ENDPOINTS=False,
            RAISE_ERROR_FOR_UNSUPPORTED_QBITTORRENT_VERSIONS=False,
            VERBOSE_RESPONSE_LOGGING=False, SIMPLE_RESPONSES=False,
            DISABLE_LOGGING_DEBUG_OUTPUT=False)
```

Bases: `LogAPIMixin`, `SyncAPIMixin`, `TransferAPIMixin`, `TorrentsAPIMixin`, `RSSAPIMixin`, `SearchAPIMixin`

Initialize API for qBittorrent client.

Host must be specified. Username and password can be specified at login. A call to `auth_log_in()` is not explicitly required if username and password are provided during Client construction.

Usage

```
>>> from qbittorrentapi import Client
>>> client = Client(host='localhost:8080', username='admin', password=
↳ 'adminadmin')
>>> torrents = client.torrents_info()
```

Parameters

- **host** (`str`) – hostname for qBittorrent Web API, `[http[s]://]localhost[:8080][/path]`
- **port** (`UnionType[str, int, None]`) – port number for qBittorrent Web API (ignored if host contains a port)
- **username** (`Optional[str]`) – username for qBittorrent Web API
- **password** (`Optional[str]`) – password for qBittorrent Web API
- **SIMPLE_RESPONSES** (`bool`) – By default, complex objects are returned from some endpoints. These objects will allow for accessing responses' items as attributes and include methods for contextually relevant actions. This comes at the cost of performance. Generally, this cost isn't large; however, some endpoints, such as `torrents_files()` method, may need to convert a large payload. Set this to `True` to return the simple JSON back. Alternatively, set this to `True` only for an individual method call. For instance, when requesting the files for a torrent: `client.torrents_files(torrent_hash='...', SIMPLE_RESPONSES=True)`
- **VERIFY_WEBUI_CERTIFICATE** (`bool`) – Set to `False` to skip verify certificate for HTTPS connections; for instance, if the connection is using a self-signed certificate. Not setting this to `False` for self-signed certs will cause a `APIConnectionError` exception to be raised.
- **EXTRA_HEADERS** (`Optional[Mapping[str, str]]`) – Dictionary of HTTP Headers to include in all requests made to qBittorrent.
- **REQUESTS_ARGS** (`Optional[Mapping[str, Any]]`) – Dictionary of configuration for Requests package: <https://requests.readthedocs.io/en/latest/api/#requests.request>
- **FORCE_SCHEME_FROM_HOST** (`bool`) – If a scheme (i.e. `http` or `https`) is specified in host, it will be used regardless of whether qBittorrent is configured for HTTP or HTTPS communication. Normally, this client will attempt to determine which scheme qBittorrent is actually listening on... but this can cause problems in rare cases. Defaults `False`.

- **RAISE_NOTIMPLEMENTEDERROR_FOR_UNIMPLEMENTED_API_ENDPOINTS** (*bool*) – Some Endpoints may not be implemented in older versions of qBittorrent. Setting this to True will raise a `NotImplementedError` instead of just returning ``None``.
- **RAISE_ERROR_FOR_UNSUPPORTED_QBITTORRENT_VERSIONS** (*bool*) – raise the `UnsupportedQbittorrentVersion` exception if the connected version of qBittorrent is not fully supported by this client. Defaults False.
- **DISABLE_LOGGING_DEBUG_OUTPUT** (*bool*) – Turn off debug output from logging for this package as well as Requests & urllib3.

Definitions

APIKwargsT

Type Any for kwargs parameters for API methods.

class `APINames`(*value, names=None, *, module=None, qualname=None, type=None, start=1, boundary=None*)

Bases: `str, Enum`

API namespaces for API endpoints.

e.g torrents in `http://localhost:8080/api/v2/torrents/addTrackers`

Application = 'app'

Authorization = 'auth'

EMPTY = ''

Log = 'log'

RSS = 'rss'

Search = 'search'

Sync = 'sync'

Torrents = 'torrents'

Transfer = 'transfer'

class `ClientCache`(**args, client, **kwargs*)

Bases: `Generic[ClientT]`

Caches the client.

Subclass this for any object that needs access to the Client.

class `ClientT`

Type for this API Client.

alias of `TypeVar('ClientT', bound=Request)`

class `Dictionary`(*data=None, **kwargs*)

Bases: `AttrDict[V]`

Base definition of dictionary-like objects returned from qBittorrent.

FilesToSendT

Type for Files input to API method.

alias of `Mapping[str, Union[bytes, Tuple[str, bytes]]]`

JsonValueT

Type to define JSON.

alias of `Union[None, int, str, bool, Sequence[JsonValueT], Mapping[str, JsonValueT]]`

class `List`(*list_entries=None, entry_class=None, **kwargs*)

Bases: `UserList[ListEntryT]`

Base definition for list-like objects returned from qBittorrent.

class `ListEntry`(*data=None, **kwargs*)

Bases: `Dictionary[Union[None, int, str, bool, Sequence[JsonValueT], Mapping[str, JsonValueT]]]`

Base definition for objects within a list returned from qBittorrent.

class `ListEntryT`

Type for entry in List from API.

alias of `TypeVar('ListEntryT', bound=ListEntry)`

ListInputT

Type for List input to API method.

alias of `Iterable[Mapping[str, Union[None, int, str, bool, Sequence[JsonValueT], Mapping[str, JsonValueT]]]]`

class `TorrentState`(*value, names=None, *, module=None, qualname=None, type=None, start=1, boundary=None*)

Bases: `str, Enum`

Torrent States as defined by qBittorrent.

Definitions:

- wiki: [https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-\(qBittorrent-4.1\)#user-content-get-torrent-list](https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-(qBittorrent-4.1)#user-content-get-torrent-list)
- code: <https://github.com/qbittorrent/qBittorrent/blob/5dcc14153f046209f1067299494a82e5294d883a/src/base/bittorrent/torrent.h#L73>

Usage

```
>>> from qbittorrentapi import Client, TorrentState
>>> client = Client()
>>> # print torrent hashes for torrents that are downloading
>>> for torrent in client.torrents_info():
>>>     # check if torrent is downloading
>>>     if torrent.state_enum.is_downloading:
>>>         print(f'{torrent.hash} is downloading...')
>>>     # the appropriate enum member can be directly derived
>>>     state_enum = TorrentState(torrent.state)
>>>     print(f'{torrent.hash}: {state_enum.value}')
```

`ALLOCATING = 'allocating'`


```
CHECKING_DOWNLOAD = 'checkingDL'
CHECKING_RESUME_DATA = 'checkingResumeData'
CHECKING_UPLOAD = 'checkingUP'
DOWNLOADING = 'downloading'
ERROR = 'error'
FORCED_DOWNLOAD = 'forcedDL'
FORCED_METADATA_DOWNLOAD = 'forcedMetaDL'
FORCED_UPLOAD = 'forcedUP'
METADATA_DOWNLOAD = 'metaDL'
MISSING_FILES = 'missingFiles'
MOVING = 'moving'
PAUSED_DOWNLOAD = 'pausedDL'
PAUSED_UPLOAD = 'pausedUP'
QUEUED_DOWNLOAD = 'queuedDL'
QUEUED_UPLOAD = 'queuedUP'
STALLED_DOWNLOAD = 'stalledDL'
STALLED_UPLOAD = 'stalledUP'
UNKNOWN = 'unknown'
UPLOADING = 'uploading'

property is_checking: bool
    Returns True if the State is categorized as Checking.

property is_complete: bool
    Returns True if the State is categorized as Complete.

property is_downloading: bool
    Returns True if the State is categorized as Downloading.

property is_errored: bool
    Returns True if the State is categorized as Errored.

property is_paused: bool
    Returns True if the State is categorized as Paused.

property is_uploading: bool
    Returns True if the State is categorized as Uploading.
```

```
class TrackerStatus(value, names=None, *, module=None, qualname=None, type=None, start=1,
                    boundary=None)
```

Bases: `int`, `Enum`

Tracker Statuses as defined by qBittorrent.

Definitions:

- wiki: [https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-\(qBittorrent-4.1\)#user-content-get-torrent-trackers](https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-(qBittorrent-4.1)#user-content-get-torrent-trackers)
- code: <https://github.com/qbittorrent/qBittorrent/blob/5dcc14153f046209f1067299494a82e5294d883a/src/base/bittorrent/trackerentry.h#L42>

Usage

```
>>> from qbittorrentapi import Client, TrackerStatus
>>> client = Client()
>>> # print torrent hashes for torrents that are downloading
>>> for torrent in client.torrents_info():
>>>     for tracker in torrent.trackers:
>>>         # display status for each tracker
>>>         print(f"{torrent.hash[-6:]}: {TrackerStatus(tracker.status).
↳display:>13} :{tracker.url}")
```

`DISABLED = 0`

`NOT_CONTACTED = 1`

`NOT_WORKING = 4`

`UPDATING = 3`

`WORKING = 2`

property `display`: `str`

Returns a descriptive display value for status.

Log

```
class LogAPIMixin(host=None, port=None, username=None, password=None, EXTRA_HEADERS=None,
                  REQUESTS_ARGS=None, VERIFY_WEBUI_CERTIFICATE=True,
                  FORCE_SCHEME_FROM_HOST=False,
                  RAISE_NOTIMPLEMENTEDERROR_FOR_UNIMPLEMENTED_API_ENDPOINTS=False,
                  RAISE_ERROR_FOR_UNSUPPORTED_QBITTORRENT_VERSIONS=False,
                  VERBOSE_RESPONSE_LOGGING=False, SIMPLE_RESPONSES=False,
                  DISABLE_LOGGING_DEBUG_OUTPUT=False) → None
```

Bases: `AppAPIMixin`

Implementation of all Log API methods.

Usage

```
>>> from qbittorrentapi import Client
>>> client = Client(host="localhost:8080", username="admin", password=
↳"adminadmin")
```

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```
>>> client.log_main(info=False)
>>> client.log_peers()
```

log_main(*normal=None, info=None, warning=None, critical=None, last_known_id=None, **kwargs*) → *LogMainList*

Retrieve the qBittorrent log entries. Iterate over returned object.

Parameters

- **normal** (*Optional[bool]*) – False to exclude normal entries
- **info** (*Optional[bool]*) – False to exclude info entries
- **warning** (*Optional[bool]*) – False to exclude warning entries
- **critical** (*Optional[bool]*) – False to exclude critical entries
- **last_known_id** (*UnionType[str, int, None]*) – only entries with an ID greater than this value will be returned

Return type

LogMainList

log_peers(*last_known_id=None, **kwargs*) → *LogPeersList*

Retrieve qBittorrent peer log.

Parameters

- **last_known_id** (*UnionType[str, int, None]*) – only entries with an ID greater than this value will be returned

Return type

LogPeersList

class Log(*client*)

Allows interaction with Log API endpoints.

Usage

```
>>> from qbittorrentapi import Client
>>> client = Client(host="localhost:8080", username="admin", password=
↳ "adminadmin")
>>> # this is all the same attributes that are available as named in the
>>> # endpoints or the more pythonic names in Client (with or without
↳ 'log_' prepended)
>>> log_list = client.log.main()
>>> peers_list = client.log.peers(last_known_id="...")
>>> # can also filter log down with additional attributes
>>> log_info = client.log.main.info(last_known_id=1)
>>> log_warning = client.log.main.warning(last_known_id=1)
```

peers(*last_known_id=None, **kwargs*) → *LogPeersList*

Retrieve qBittorrent peer log.

Parameters

- **last_known_id** (*UnionType[str, int, None]*) – only entries with an ID greater than this value will be returned

Return type

LogPeersList

class `LogPeersList`(*list_entries*, *client=None*)

Bases: `List[LogPeer]`

Response for `log_peers()`

class `LogPeer`(*data=None*, ***kwargs*)

Bases: `ListEntry`

Item in `LogPeersList`

class `LogMainList`(*list_entries*, *client=None*)

Bases: `List[LogEntry]`

Response to `log_main()`

class `LogEntry`(*data=None*, ***kwargs*)

Bases: `ListEntry`

Item in `LogMainList`

Request (internal)

class `QbittorrentSession`

Bases: `Session`

Wrapper to augment Requests Session.

Requests doesn't allow Session to default certain configuration globally. This gets around that by setting defaults for each request.

request(*method*, *url*, *params=None*, *data=None*, *headers=None*, *cookies=None*, *files=None*, *auth=None*, *timeout=None*, *allow_redirects=True*, *proxies=None*, *hooks=None*, *stream=None*, *verify=None*, *cert=None*, *json=None*)

Constructs a `Request`, prepares it and sends it. Returns Response object.

Parameters

- **method** – method for the new `Request` object.
- **url** – URL for the new `Request` object.
- **params** – (optional) Dictionary or bytes to be sent in the query string for the `Request`.
- **data** – (optional) Dictionary, list of tuples, bytes, or file-like object to send in the body of the `Request`.
- **json** – (optional) json to send in the body of the `Request`.
- **headers** – (optional) Dictionary of HTTP Headers to send with the `Request`.
- **cookies** – (optional) Dict or CookieJar object to send with the `Request`.
- **files** – (optional) Dictionary of 'filename': file-like-objects for multipart encoding upload.
- **auth** – (optional) Auth tuple or callable to enable Basic/Digest/Custom HTTP Auth.
- **timeout** (*float* or *tuple*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (`connect timeout`, `read timeout`) tuple.
- **allow_redirects** (*bool*) – (optional) Set to True by default.

- **proxies** – (optional) Dictionary mapping protocol or protocol and hostname to the URL of the proxy.
- **stream** – (optional) whether to immediately download the response content. Defaults to False.
- **verify** – (optional) Either a boolean, in which case it controls whether we verify the server's TLS certificate, or a string, in which case it must be a path to a CA bundle to use. Defaults to True. When set to False, requests will accept any TLS certificate presented by the server, and will ignore hostname mismatches and/or expired certificates, which will make your application vulnerable to man-in-the-middle (MitM) attacks. Setting verify to False may be useful during local development or testing.
- **cert** – (optional) if String, path to ssl client cert file (.pem). If Tuple, ('cert', 'key') pair.

Return type*Response***class** QbittorrentURL(*client*)Bases: *object*

Management for the qBittorrent Web API URL.

build(*api_namespace*, *api_method*, *headers=None*, *requests_kwargs=None*, *base_path='api/v2'*) → *str*

Create a fully qualified URL for the API endpoint.

Parameters

- **api_namespace** (*APINames* | *str*) – the namespace for the API endpoint (e.g. *torrents*)
- **api_method** (*str*) – the specific method for the API endpoint (e.g. *info*)
- **base_path** (*str*) – base path for URL (e.g. *api/v2*)
- **headers** (*Optional*[*Mapping*[*str*, *str*]]) – HTTP headers for request
- **requests_kwargs** (*Optional*[*Mapping*[*str*, *Any*]]) – kwargs for any calls to Requests

Return type*str***Returns**

fully qualified URL string for endpoint

build_base_url(*headers*, *requests_kwargs*) → *str*

Determine the Base URL for the Web API endpoints.

A URL is only actually built here if it's the first time here or the context was re-initialized. Otherwise, the most recently built URL is used.

If the user doesn't provide a scheme for the URL, it will try HTTP first and fall back to HTTPS if that doesn't work. While this is probably backwards, qBittorrent or an intervening proxy can simply redirect to HTTPS and that'll be respected.

Additionally, if users want to augment the path to the API endpoints, any path provided here will be pre-served in the returned Base URL and prefixed to all subsequent API calls.

Parameters

- **headers** (*Mapping*[*str*, *str*]) – HTTP headers for request
- **requests_kwargs** (*Mapping*[*str*, *Any*]) – arguments from user for HTTP HEAD request

Return type*str*

Returns

base URL as a string for Web API endpoint

detect_scheme(*base_url*, *default_scheme*, *alt_scheme*, *headers*, *requests_kwargs*) → *str*

Determine if the URL endpoint is using HTTP or HTTPS.

Parameters

- **base_url** (*ParseResult*) – urllib *ParseResult* URL object
- **default_scheme** (*str*) – default scheme to use for URL
- **alt_scheme** (*str*) – alternative scheme to use for URL if default doesn't work
- **headers** (*Mapping*[*str*, *str*]) – HTTP headers for request
- **requests_kwargs** (*Mapping*[*str*, *Any*]) – kwargs for calls to Requests

Return type

str

Returns

scheme (i.e. HTTP or HTTPS)

class Request(*host=None*, *port=None*, *username=None*, *password=None*, *EXTRA_HEADERS=None*, *REQUESTS_ARGS=None*, *VERIFY_WEBUI_CERTIFICATE=True*, *FORCE_SCHEME_FROM_HOST=False*, *RAISE_NOTIMPLEMENTEDERROR_FOR_UNIMPLEMENTED_API_ENDPOINTS=False*, *RAISE_ERROR_FOR_UNSUPPORTED_QBITTORRENT_VERSIONS=False*, *VERBOSE_RESPONSE_LOGGING=False*, *SIMPLE_RESPONSES=False*, *DISABLE_LOGGING_DEBUG_OUTPUT=False*) → *None*

Bases: *object*

Facilitates HTTP requests to qBittorrent's Web API.

_auth_request(*http_method*, *api_namespace*, *api_method*, *_retry_backoff_factor=0.3*, *requests_args=None*, *requests_params=None*, *headers=None*, *params=None*, *data=None*, *files=None*, *response_class=<class 'requests.models.Response'>*, *version_introduced=""*, *version_removed=""*, ***kwargs*) → *Any*

Wraps API call with re-authorization if first attempt is not authorized.

Return type

Any

_cast(*response*, *response_class*, ***response_kwargs*) → *Any*

Returns the API response casted to the requested class.

Parameters

- **response** (*Response*) – requests *Response* from API
- **response_class** (*type*) – class to return response as; if none, response is returned
- **response_kwargs** (*Any*) – request-specific configuration for response

Return type

Any

static _format_payload(*http_method*, *params=None*, *data=None*, *files=None*, ***kwargs*) → *tuple*[*dict*[*str*, *Any*], *dict*[*str*, *Any*], *Mapping*[*str*, *bytes* | *Tuple*[*str*, *bytes*]]]

Determine data, params, and files for the Requests call.

Parameters

- **http_method** (`str`) – get or post
- **params** (`Optional[Mapping[str, Any]]`) – key value pairs to send with GET calls
- **data** (`Optional[Mapping[str, Any]]`) – key value pairs to send with POST calls
- **files** (`Optional[Mapping[str, Union[bytes, Tuple[str, bytes]]]]`) – dictionary of files to send with request

Return type

`tuple[dict[str, Any], dict[str, Any], Mapping[str, Union[bytes, Tuple[str, bytes]]]]`

`_get(_name, _method, requests_args=None, requests_params=None, headers=None, params=None, data=None, files=None, response_class=<class 'requests.models.Response'>, version_introduced='', version_removed='', **kwargs) → Any`

Send GET request.

Parameters

- **api_namespace** – the namespace for the API endpoint (e.g. [APINames](#) or `torrents`)
- **api_method** – the name for the API endpoint (e.g. `add`)
- **kwargs** (`Any`) – see `_request()`

Return type

`Any`

Returns

Requests [Response](#)

`_get_cast(_name, _method, response_class, requests_args=None, requests_params=None, headers=None, params=None, data=None, files=None, version_introduced='', version_removed='', **kwargs) → ResponseT`

Send GET request with casted response.

Parameters

- **api_namespace** – the namespace for the API endpoint (e.g. [APINames](#) or `torrents`)
- **api_method** – the name for the API endpoint (e.g. `add`)
- **kwargs** (`Any`) – see `_request()`

Return type

`TypeVar(ResponseT)`

`static _handle_error_responses(data, params, response) → None`

Raise proper exception if qBittorrent returns Error HTTP Status.

Return type

`None`

`_initialize_context() → None`

Initialize and reset communications context with qBittorrent.

This is necessary on startup or when the authorization cookie needs to be replaced...perhaps because it expired, qBittorrent was restarted, significant settings changes, etc.

Return type

`None`

`_initialize_settings`(*EXTRA_HEADERS=None, REQUESTS_ARGS=None, VERIFY_WEBUI_CERTIFICATE=True, FORCE_SCHEME_FROM_HOST=False, RAISE_NOTIMPLEMENTEDERROR_FOR_UNIMPLEMENTED_API_ENDPOINTS=False, RAISE_ERROR_FOR_UNSUPPORTED_QBITTORRENT_VERSIONS=False, VERBOSE_RESPONSE_LOGGING=False, SIMPLE_RESPONSES=False, DISABLE_LOGGING_DEBUG_OUTPUT=False*) → `None`

Initialize lesser used configuration.

Return type
`None`

`_is_endpoint_supported_for_version`(*endpoint, version_introduced, version_removed*) → `bool`

Prevent using an API methods that doesn't exist in this version of qBittorrent.

Parameters

- **`endpoint`** (`str`) – name of the removed endpoint, e.g. torrents/ban_peers
- **`version_introduced`** (`str`) – the Web API version the endpoint was introduced
- **`version_removed`** (`str`) – the Web API version the endpoint was removed

Return type
`bool`

`classmethod _list2string`(*input_list, delimiter='|'*) → `str` | `T`

Convert entries in a list to a concatenated string.

Parameters

- **`input_list`** (`TypeVar(T)`) – list to convert
- **`delimiter`** (`str`) – delimiter for concatenation

Return type
`Union[str, TypeVar(T)]`

`_post`(*_name, _method, requests_args=None, requests_params=None, headers=None, params=None, data=None, files=None, response_class=<class 'requests.models.Response'>, version_introduced="", version_removed="", **kwargs*) → `Any`

Send POST request.

Parameters

- **`api_namespace`** – the namespace for the API endpoint (e.g. [APINames](#) or torrents)
- **`api_method`** – the name for the API endpoint (e.g. add)
- **`kwargs`** (`Any`) – see [_request\(\)](#)

Return type
`Any`

`_post_cast`(*_name, _method, response_class, requests_args=None, requests_params=None, headers=None, params=None, data=None, files=None, version_introduced="", version_removed="", **kwargs*) → `ResponseT`

Send POST request with casted response.

Parameters

- **`api_namespace`** – the namespace for the API endpoint (e.g. [APINames](#) or torrents)
- **`api_method`** – the name for the API endpoint (e.g. add)

- **kwargs** (*Any*) – see `_request()`

Return type

TypeVar(ResponseT)

_request (*http_method*, *api_namespace*, *api_method*, *requests_args=None*, *requests_params=None*, *headers=None*, *params=None*, *data=None*, *files=None*, *response_class=<class 'requests.models.Response'>*, ***kwargs*) → *Any*

Meat and potatoes of sending requests to qBittorrent.

Parameters

- **http_method** (*str*) – get or post
- **api_namespace** (*APINames* | *str*) – the namespace for the API endpoint (e.g. *APINames* or *torrents*)
- **api_method** (*str*) – the name for the API endpoint (e.g. *add*)
- **requests_args** (*Optional[Mapping[str, Any]]*) – default location for Requests kwargs
- **requests_params** (*Optional[Mapping[str, Any]]*) – alternative location for Requests kwargs
- **headers** (*Optional[Mapping[str, str]]*) – HTTP headers to send with the request
- **params** (*Optional[Mapping[str, Any]]*) – key/value pairs to send with a GET request
- **data** (*Optional[Mapping[str, Any]]*) – key/value pairs to send with a POST request
- **files** (*Optional[Mapping[str, Union[bytes, Tuple[str, bytes]]]]*) – files to be sent with the request
- **response_class** (*type*) – class to use to cast the API response
- **kwargs** (*Any*) – arbitrary keyword arguments to send with the request

Return type

Any

_request_manager (*http_method*, *api_namespace*, *api_method*, *_retries=1*, *_retry_backoff_factor=0.3*, *requests_args=None*, *requests_params=None*, *headers=None*, *params=None*, *data=None*, *files=None*, *response_class=<class 'requests.models.Response'>*, *version_introduced=""*, *version_removed=""*, ***kwargs*) → *Any*

Wrapper to manage request retries and severe exceptions.

This should retry at least once to account for the Web API switching from HTTP to HTTPS. During the second attempt, the URL is rebuilt using HTTP or HTTPS as appropriate.

Return type

Any

property _session: *QbittorrentSession*

Create or return existing HTTP session.

_trigger_session_initialization() → *None*

Effectively resets the HTTP session by removing the reference to it.

During the next request, a new session will be created.

Return type

None

_verbose_logging(url, data, params, requests_kwargs, response) → [None](#)

Log verbose information about request; can be useful during development.

Return type

[None](#)

RSS

```
class RSSAPIMixin(host=None, port=None, username=None, password=None, EXTRA_HEADERS=None,
    REQUESTS_ARGS=None, VERIFY_WEBUI_CERTIFICATE=True,
    FORCE_SCHEME_FROM_HOST=False,
    RAISE_NOTIMPLEMENTEDERROR_FOR_UNIMPLEMENTED_API_ENDPOINTS=False,
    RAISE_ERROR_FOR_UNSUPPORTED_QBITTORRENT_VERSIONS=False,
    VERBOSE_RESPONSE_LOGGING=False, SIMPLE_RESPONSES=False,
    DISABLE_LOGGING_DEBUG_OUTPUT=False) → None
```

Bases: [AppAPIMixin](#)

Implementation of all RSS API methods.

Usage

```
>>> from qbittorrentapi import Client
>>> client = Client(host="localhost:8080", username="admin", password=
↳ "adminadmin")
>>> rss_rules = client.rss_rules()
>>> client.rss_set_rule(rule_name="...", rule_def={...})
```

rss_add_feed(url=None, item_path=None, **kwargs) → [None](#)

Add new RSS feed. Folders in path must already exist.

Raises

[Conflict409Error](#) –

Parameters

- **url** ([Optional\[str\]](#)) – URL of RSS feed (e.g. <https://distrowatch.com/news/torrents.xml>)
- **item_path** ([Optional\[str\]](#)) – Name and/or path for new feed (e.g. Folder\Subfolder\FeedName)

Return type

[None](#)

rss_add_folder(folder_path=None, **kwargs) → [None](#)

Add an RSS folder. Any intermediate folders in path must already exist.

Raises

[Conflict409Error](#) –

Parameters

folder_path ([Optional\[str\]](#)) – path to new folder (e.g. Linux\ISOs)

Return type

[None](#)

rss_items(include_feed_data=None, **kwargs) → [RSSItemsDictionary](#)

Retrieve RSS items and optionally feed data.

Parameters

include_feed_data (*Optional*[*bool*]) – True or false to include feed data

Return type

RSSItemsDictionary

rss_mark_as_read(*item_path=None, article_id=None, **kwargs*) → *None*

Mark RSS article as read. If article ID is not provided, the entire feed is marked as read.

This method was introduced with qBittorrent v4.2.5 (Web API v2.5.1).

Raises

NotFound404Error –

Parameters

- **item_path** (*Optional*[*str*]) – path to item to be refreshed (e.g. Folder\Subfolder\ItemName)
- **article_id** (*UnionType*[*str, int, None*]) – article ID from *rss_items()*

Return type

None

rss_matching_articles(*rule_name=None, **kwargs*) → *RSSItemsDictionary*

Fetch all articles matching a rule.

This method was introduced with qBittorrent v4.2.5 (Web API v2.5.1).

Parameters

rule_name (*Optional*[*str*]) – Name of rule to return matching articles

Return type

RSSItemsDictionary

rss_move_item(*orig_item_path=None, new_item_path=None, **kwargs*) → *None*

Move/rename an RSS item (folder, feed, etc.).

Raises

Conflict409Error –

Parameters

- **orig_item_path** (*Optional*[*str*]) – path to item to be removed (e.g. Folder\Subfolder\ItemName)
- **new_item_path** (*Optional*[*str*]) – path to item to be removed (e.g. Folder\Subfolder\ItemName)

Return type

None

rss_refresh_item(*item_path=None, **kwargs*) → *None*

Trigger a refresh for an RSS item.

Note: qBittorrent v4.1.5 through v4.1.8 all use Web API 2.2 but this endpoint was introduced with v4.1.8; so, behavior may be undefined for these versions.

Parameters

item_path (*Optional*[*str*]) – path to item to be refreshed (e.g. Folder\Subfolder\ItemName)

Return type

None

rss_remove_item(*item_path=None*, ***kwargs*) → *None*

Remove an RSS item (folder, feed, etc).

NOTE: Removing a folder also removes everything in it.

Raises

Conflict409Error –

Parameters

item_path (*Optional[str]*) – path to item to be removed (e.g. Folder\Subfolder\ItemName)

Return type

None

rss_remove_rule(*rule_name=None*, ***kwargs*) → *None*

Delete a RSS auto-downloading rule.

Parameters

rule_name (*Optional[str]*) – Name of rule to delete

Return type

None

rss_rename_rule(*orig_rule_name=None*, *new_rule_name=None*, ***kwargs*) → *None*

Rename an RSS auto-download rule.

This method did not work properly until qBittorrent v4.3.0 (Web API v2.6).

Parameters

- **orig_rule_name** (*Optional[str]*) – current name of rule
- **new_rule_name** (*Optional[str]*) – new name for rule

Return type

None

rss_rules(***kwargs*) → *RSSRulesDictionary*

Retrieve RSS auto-download rule definitions.

Return type

RSSRulesDictionary

rss_set_feed_url(*url=None*, *item_path=None*, ***kwargs*) → *None*

Update the URL for an existing RSS feed.

This method was introduced with qBittorrent v4.6.0 (Web API v2.9.1).

Raises

Conflict409Error –

Parameters

- **url** (*Optional[str]*) – URL of RSS feed (e.g. <https://distrowatch.com/news/torrents.xml>)
- **item_path** (*Optional[str]*) – Name and/or path for feed (e.g. Folder\Subfolder\FeedName)

Return type

None

rss_set_rule(rule_name=None, rule_def=None, **kwargs) → None

Create a new RSS auto-downloading rule.

Parameters

- **rule_name** (Optional[str]) – name for new rule
- **rule_def** (Optional[Mapping[str, Union[None, int, str, bool, Sequence[Union[None, int, str, bool, Sequence[JsonValueT], Mapping[str, JsonValueT]]], Mapping[str, Union[None, int, str, bool, Sequence[JsonValueT], Mapping[str, JsonValueT]]]]]]) – dictionary with rule fields - [https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-\(qBittorrent-4.1\)#user-content-set-auto-downloading-rule](https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-(qBittorrent-4.1)#user-content-set-auto-downloading-rule)

Return type

None

class RSS(client)

Allows interaction with RSS API endpoints.

Usage

```
>>> from qbittorrentapi import Client
>>> client = Client(host="localhost:8080", username="admin", password=
↳ "adminadmin")
>>> # this is all the same attributes that are available as named in the
>>> # endpoints or the more pythonic names in Client (with or without
↳ 'log_' prepended)
>>> rss_rules = client.rss.rules
>>> client.rss.addFolder(folder_path="TPB")
>>> client.rss.addFeed(url="...", item_path="TPB\Top100")
>>> client.rss.remove_item(item_path="TPB") # deletes TPB and Top100
>>> client.rss.set_rule(rule_name="...", rule_def={...})
>>> items = client.rss.items.with_data
>>> items_no_data = client.rss.items.without_data
```

add_feed(url=None, item_path=None, **kwargs) → None

Add new RSS feed. Folders in path must already exist.

Raises

Conflict409Error –

Parameters

- **url** (Optional[str]) – URL of RSS feed (e.g. <https://distrowatch.com/news/torrents.xml>)
- **item_path** (Optional[str]) – Name and/or path for new feed (e.g. Folder\Subfolder\FeedName)

Return type

None

add_folder(folder_path=None, **kwargs) → None

Add an RSS folder. Any intermediate folders in path must already exist.

Raises

Conflict409Error –

Parameters

folder_path (*Optional[str]*) – path to new folder (e.g. Linux\ISOs)

Return type

None

mark_as_read(*item_path=None, article_id=None, **kwargs*) → *None*

Mark RSS article as read. If article ID is not provided, the entire feed is marked as read.

This method was introduced with qBittorrent v4.2.5 (Web API v2.5.1).

Raises

NotFound404Error –

Parameters

- **item_path** (*Optional[str]*) – path to item to be refreshed (e.g. Folder\Subfolder\ItemName)
- **article_id** (*UnionType[str, int, None]*) – article ID from *rss_items()*

Return type

None

matching_articles(*rule_name=None, **kwargs*) → *RSSItemsDictionary*

Fetch all articles matching a rule.

This method was introduced with qBittorrent v4.2.5 (Web API v2.5.1).

Parameters

rule_name (*Optional[str]*) – Name of rule to return matching articles

Return type

RSSItemsDictionary

move_item(*orig_item_path=None, new_item_path=None, **kwargs*) → *None*

Move/rename an RSS item (folder, feed, etc.).

Raises

Conflict409Error –

Parameters

- **orig_item_path** (*Optional[str]*) – path to item to be removed (e.g. Folder\Subfolder\ItemName)
- **new_item_path** (*Optional[str]*) – path to item to be removed (e.g. Folder\Subfolder\ItemName)

Return type

None

refresh_item(*item_path=None, **kwargs*) → *None*

Trigger a refresh for an RSS item.

Note: qBittorrent v4.1.5 through v4.1.8 all use Web API 2.2 but this endpoint was introduced with v4.1.8; so, behavior may be undefined for these versions.

Parameters

item_path (*Optional[str]*) – path to item to be refreshed (e.g. Folder\Subfolder\ItemName)

Return type

None

remove_item(*item_path=None*, ***kwargs*) → *None*

Remove an RSS item (folder, feed, etc).

NOTE: Removing a folder also removes everything in it.

Raises

Conflict409Error –

Parameters

item_path (*Optional[str]*) – path to item to be removed (e.g. Folder\Subfolder\ItemName)

Return type

None

remove_rule(*rule_name=None*, ***kwargs*) → *None*

Delete a RSS auto-downloading rule.

Parameters

rule_name (*Optional[str]*) – Name of rule to delete

Return type

None

rename_rule(*orig_rule_name=None*, *new_rule_name=None*, ***kwargs*) → *None*

Rename an RSS auto-download rule.

This method did not work properly until qBittorrent v4.3.0 (Web API v2.6).

Parameters

- **orig_rule_name** (*Optional[str]*) – current name of rule
- **new_rule_name** (*Optional[str]*) – new name for rule

Return type

None

property rules: *RSSRulesDictionary*

Retrieve RSS auto-download rule definitions.

set_feed_url(*url=None*, *item_path=None*, ***kwargs*) → *None*

Update the URL for an existing RSS feed.

This method was introduced with qBittorrent v4.6.0 (Web API v2.9.1).

Raises

Conflict409Error –

Parameters

- **url** (*Optional[str]*) – URL of RSS feed (e.g. <https://distrowatch.com/news/torrents.xml>)
- **item_path** (*Optional[str]*) – Name and/or path for feed (e.g. Folder\Subfolder\FeedName)

Return type

None

set_rule(*rule_name=None*, *rule_def=None*, ***kwargs*) → *None*

Create a new RSS auto-downloading rule.

Parameters

- **rule_name** (`Optional[str]`) – name for new rule
- **rule_def** (`Optional[Mapping[str, Union[None, int, str, bool, Sequence[Union[None, int, str, bool, Sequence[JsonValueT], Mapping[str, JsonValueT]]], Mapping[str, Union[None, int, str, bool, Sequence[JsonValueT], Mapping[str, JsonValueT]]]]]]`) – dictionary with rule fields - [https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-\(qBittorrent-4.1\)#user-content-set-auto-downloading-rule](https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-(qBittorrent-4.1)#user-content-set-auto-downloading-rule)

Return type`None`**class** `RSSItemsDictionary`(*data=None, **kwargs*)Bases: `Dictionary[Union[None, int, str, bool, Sequence[JsonValueT], Mapping[str, JsonValueT]]]`Response for `rss_items()`**class** `RSSRulesDictionary`(*data=None, **kwargs*)Bases: `Dictionary[Union[None, int, str, bool, Sequence[JsonValueT], Mapping[str, JsonValueT]]]`Response for `rss_rules()`

Search

class `SearchAPIMixin`(*host=None, port=None, username=None, password=None, EXTRA_HEADERS=None, REQUESTS_ARGS=None, VERIFY_WEBUI_CERTIFICATE=True, FORCE_SCHEME_FROM_HOST=False, RAISE_NOTIMPLEMENTEDERROR_FOR_UNIMPLEMENTED_API_ENDPOINTS=False, RAISE_ERROR_FOR_UNSUPPORTED_QBITTORRENT_VERSIONS=False, VERBOSE_RESPONSE_LOGGING=False, SIMPLE_RESPONSES=False, DISABLE_LOGGING_DEBUG_OUTPUT=False*) → `None`Bases: `AppAPIMixin`

Implementation for all Search API methods.

Usage

```
>>> from qbittorrentapi import Client
>>> client = Client(host="localhost:8080", username="admin", password=
↳ "adminadmin")
>>> search_job = client.search_start(pattern="Ubuntu", plugins="all",
↳ category="all")
>>> client.search_stop(search_id=search_job.id)
>>> # or
>>> search_job.stop()
```

search_categories(*plugin_name=None, **kwargs*) → `SearchCategoriesList`

Retrieve categories for search.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1) and removed with qBittorrent v4.3.0 (Web API v2.6).

Parameters**plugin_name** (`Optional[str]`) – Limit categories returned by plugin(s) (supports all and enabled)**Return type**`SearchCategoriesList`

search_delete(*search_id=None, **kwargs*) → *None*

Delete a search job.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

Raises

NotFound404Error –

Parameters

search_id (*UnionType*[*str*, *int*, *None*]) – ID of search to delete

Return type

None

search_enable_plugin(*plugins=None, enable=None, **kwargs*) → *None*

Enable or disable search plugin(s).

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

Parameters

- **plugins** (*Optional*[*Iterable*[*str*]]) – list of plugin names
- **enable** (*Optional*[*bool*]) – Defaults to True if None or unset; use False to disable

Return type

None

search_install_plugin(*sources=None, **kwargs*) → *None*

Install search plugins from either URL or file.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

Parameters

sources (*Optional*[*Iterable*[*str*]]) – list of URLs or filepaths

Return type

None

search_plugins(***kwargs*) → *SearchPluginsList*

Retrieve details of search plugins.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

Return type

SearchPluginsList

search_results(*search_id=None, limit=None, offset=None, **kwargs*) → *SearchResultsDictionary*

Retrieve the results for the search.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

Raises

- *NotFound404Error* –
- *Conflict409Error* –

Parameters

- **search_id** (*UnionType*[*str*, *int*, *None*]) – ID of search job
- **limit** (*UnionType*[*str*, *int*, *None*]) – number of results to return
- **offset** (*UnionType*[*str*, *int*, *None*]) – where to start returning results

Return type*SearchResultsDictionary***search_start**(*pattern=None, plugins=None, category=None, **kwargs*) → *SearchJobDictionary*

Start a search. Python must be installed. Host may limit number of concurrent searches.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

Raises*Conflict409Error* –**Parameters**

- **pattern** (*Optional[str]*) – term to search for
- **plugins** (*Optional[Iterable[str]]*) – list of plugins to use for searching (supports ‘all’ and ‘enabled’)
- **category** (*Optional[str]*) – categories to limit search; dependent on plugins. (supports ‘all’)

Return type*SearchJobDictionary***search_status**(*search_id=None, **kwargs*) → *SearchStatusesList*

Retrieve status of one or all searches.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

Raises*NotFound404Error* –**Parameters**

search_id (*UnionType[str, int, None]*) – ID of search to get status; leave empty for status of all jobs

Return type*SearchStatusesList***search_stop**(*search_id=None, **kwargs*) → *None*

Stop a running search.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

Raises*NotFound404Error* –**Parameters**

search_id (*UnionType[str, int, None]*) – ID of search job to stop

Return type*None***search_uninstall_plugin**(*names=None, **kwargs*) → *None*

Uninstall search plugins.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

Parameters

names (*Optional[Iterable[str]]*) – names of plugins to uninstall

Return type*None*

search_update_plugins(**kwargs) → None

Auto update search plugins.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

Return type

None

class Search(*args, client, **kwargs)

Allows interaction with Search API endpoints.

Usage

```
>>> from qbittorrentapi import Client
>>> client = Client(host="localhost:8080", username="admin", password=
↳ "adminadmin")
>>> # this is all the same attributes that are available as named in the
>>> # endpoints or the more pythonic names in Client (with or without
↳ 'search_' prepended)
>>> # initiate searches and retrieve results
>>> search_job = client.search.start(pattern="Ubuntu", plugins="all",
↳ category="all")
>>> status = search_job.status()
>>> results = search_job.result()
>>> search_job.delete()
>>> # inspect and manage plugins
>>> plugins = client.search.plugins
>>> cats = client.search.categories(plugin_name="...")
>>> client.search.install_plugin(sources="...")
>>> client.search.update_plugins()
```

categories(plugin_name=None, **kwargs) → SearchCategoriesList

Retrieve categories for search.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1) and removed with qBittorrent v4.3.0 (Web API v2.6).

Parameters

plugin_name (Optional[str]) – Limit categories returned by plugin(s) (supports all and enabled)

Return type

SearchCategoriesList

delete(search_id=None, **kwargs) → None

Delete a search job.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

Raises

NotFound404Error –

Parameters

search_id (UnionType[str, int, None]) – ID of search to delete

Return type

None

enable_plugin(*plugins=None, enable=None, **kwargs*) → *None*

Enable or disable search plugin(s).

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

Parameters

- **plugins** (*Optional[Iterable[str]]*) – list of plugin names
- **enable** (*Optional[bool]*) – Defaults to True if None or unset; use False to disable

Return type

None

install_plugin(*sources=None, **kwargs*) → *None*

Install search plugins from either URL or file.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

Parameters

sources (*Optional[Iterable[str]]*) – list of URLs or filepaths

Return type

None

property plugins: *SearchPluginsList*

Retrieve details of search plugins.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

results(*search_id=None, limit=None, offset=None, **kwargs*) → *SearchResultsDictionary*

Retrieve the results for the search.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

Raises

- *NotFound404Error* –
- *Conflict409Error* –

Parameters

- **search_id** (*UnionType[str, int, None]*) – ID of search job
- **limit** (*UnionType[str, int, None]*) – number of results to return
- **offset** (*UnionType[str, int, None]*) – where to start returning results

Return type

SearchResultsDictionary

start(*pattern=None, plugins=None, category=None, **kwargs*) → *SearchJobDictionary*

Start a search. Python must be installed. Host may limit number of concurrent searches.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

Raises

Conflict409Error –

Parameters

- **pattern** (*Optional[str]*) – term to search for
- **plugins** (*Optional[Iterable[str]]*) – list of plugins to use for searching (supports ‘all’ and ‘enabled’)

- **category** (`Optional[str]`) – categories to limit search; dependent on plugins. (supports 'all')

Return type`SearchJobDictionary`**status**(`search_id=None, **kwargs`) → `SearchStatusesList`

Retrieve status of one or all searches.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

Raises`NotFound404Error` –**Parameters****search_id** (`UnionType[str, int, None]`) – ID of search to get status; leave empty for status of all jobs**Return type**`SearchStatusesList`**stop**(`search_id=None, **kwargs`) → `None`

Stop a running search.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

Raises`NotFound404Error` –**Parameters****search_id** (`UnionType[str, int, None]`) – ID of search job to stop**Return type**`None`**uninstall_plugin**(`names=None, **kwargs`) → `None`

Uninstall search plugins.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

Parameters**names** (`Optional[Iterable[str]]`) – names of plugins to uninstall**Return type**`None`**update_plugins**(`**kwargs`) → `None`

Auto update search plugins.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

Return type`None`**class** `SearchJobDictionary`(`data, client`)Bases: `ClientCache[SearchAPIMixin]`, `Dictionary[Union[None, int, str, bool, Sequence[JsonValueT], Mapping[str, JsonValueT]]]`Response for `search_start()`**delete**(`search_id=None, **kwargs`) → `None`

Delete a search job.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

Raises

NotFound404Error –

Parameters

search_id (*UnionType*[*str*, *int*, *None*]) – ID of search to delete

Return type

None

results(*search_id=None, limit=None, offset=None, **kwargs*) → *SearchResultsDictionary*

Retrieve the results for the search.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

Raises

- *NotFound404Error* –
- *Conflict409Error* –

Parameters

- **search_id** (*UnionType*[*str*, *int*, *None*]) – ID of search job
- **limit** (*UnionType*[*str*, *int*, *None*]) – number of results to return
- **offset** (*UnionType*[*str*, *int*, *None*]) – where to start returning results

Return type

SearchResultsDictionary

status(*search_id=None, **kwargs*) → *SearchStatusesList*

Retrieve status of one or all searches.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

Raises

NotFound404Error –

Parameters

search_id (*UnionType*[*str*, *int*, *None*]) – ID of search to get status; leave empty for status of all jobs

Return type

SearchStatusesList

stop(*search_id=None, **kwargs*) → *None*

Stop a running search.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

Raises

NotFound404Error –

Parameters

search_id (*UnionType*[*str*, *int*, *None*]) – ID of search job to stop

Return type

None

class *SearchResultsDictionary*(*data=None, **kwargs*)

Bases: *Dictionary*[*Union*[*None*, *int*, *str*, *bool*, *Sequence*[*JsonValueT*], *Mapping*[*str*, *JsonValueT*]]]

Response for *search_results()*

Definition: [https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-\(qBittorrent-4.1\)](https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-(qBittorrent-4.1)#user-content-get-search-results)
[#user-content-get-search-results](#)

class SearchStatusesList(*list_entries*, *client=None*)

Bases: [List\[SearchStatus\]](#)

Response for [search_status\(\)](#)

Definition: [https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-\(qBittorrent-4.1\)](https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-(qBittorrent-4.1)#user-content-get-search-status)
[#user-content-get-search-status](#)

class SearchStatus(*data=None*, ***kwargs*)

Bases: [ListEntry](#)

Item in [SearchStatusesList](#)

class SearchCategoriesList(*list_entries*, *client=None*)

Bases: [List\[SearchCategory\]](#)

Response for [search_categories\(\)](#)

class SearchCategory(*data=None*, ***kwargs*)

Bases: [ListEntry](#)

Item in [SearchCategoriesList](#)

class SearchPluginsList(*list_entries*, *client=None*)

Bases: [List\[SearchPlugin\]](#)

Response for [search_plugins\(\)](#).

Definition: [https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-\(qBittorrent-4.1\)](https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-(qBittorrent-4.1)#user-content-get-search-plugins)
[#user-content-get-search-plugins](#)

class SearchPlugin(*data=None*, ***kwargs*)

Bases: [ListEntry](#)

Item in [SearchPluginsList](#)

Sync

class SyncAPIMixin(*host=None*, *port=None*, *username=None*, *password=None*, *EXTRA_HEADERS=None*,
REQUESTS_ARGS=None, *VERIFY_WEBUI_CERTIFICATE=True*,
FORCE_SCHEME_FROM_HOST=False,
RAISE_NOTIMPLEMENTEDERROR_FOR_UNIMPLEMENTED_API_ENDPOINTS=False,
RAISE_ERROR_FOR_UNSUPPORTED_QBITTORRENT_VERSIONS=False,
VERBOSE_RESPONSE_LOGGING=False, *SIMPLE_RESPONSES=False*,
DISABLE_LOGGING_DEBUG_OUTPUT=False) → None

Bases: [AppAPIMixin](#)

Implementation of all Sync API Methods.

Usage

```
>>> from qbittorrentapi import Client
>>> client = Client(host="localhost:8080", username="admin", password=
↳ "adminadmin")
>>> maindata = client.sync_maindata(rid="...")
>>> torrent_peers = client.sync_torrent_peers(torrent_hash="...", rid="
↳ ..")
```

sync_maindata(rid=0, **kwargs) → *SyncMainDataDictionary*

Retrieves sync data.

Parameters

rid (*str* | *int*) – response ID

Return type

SyncMainDataDictionary

sync_torrent_peers(torrent_hash=None, rid=0, **kwargs) → *SyncTorrentPeersDictionary*

Retrieves torrent sync data.

Raises

NotFound404Error –

Parameters

- **torrent_hash** (*Optional*[*str*]) – hash for torrent
- **rid** (*str* | *int*) – response ID

Return type

SyncTorrentPeersDictionary

class Sync(client) → *None*

Allows interaction with the Sync API endpoints.

Usage:

```
>>> from qbittorrentapi import Client
>>> client = Client(host="localhost:8080", username="admin", password=
↳ "adminadmin")
>>> # these are all the same attributes that are available as named in the
>>> # endpoints or the more pythonic names in Client (with or without 'sync_'
↳ prepended)
>>> maindata = client.sync.maindata(rid="...")
>>> # for use when continuously calling maindata for changes in torrents
>>> # this will automatically request the changes since the last call
>>> md = client.sync.maindata.delta()
>>> #
>>> torrentPeers = client.sync.torrentPeers(torrent_hash="...", rid="...")
>>> torrent_peers = client.sync.torrent_peers(torrent_hash="...", rid="...")
```

class SyncMainDataDictionary(data=None, **kwargs)

Bases: *Dictionary*[*Union*[*None*, *int*, *str*, *bool*, *Sequence*[*JsonValueT*], *Mapping*[*str*, *JsonValueT*]]]

Response for *sync_maindata()*

Definition: [https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-\(qBittorrent-4.1\)](https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-(qBittorrent-4.1)#user-content-get-main-data)
#user-content-get-main-data

class SyncTorrentPeersDictionary(data=None, **kwargs)

Bases: *Dictionary*[*Union*[*None*, *int*, *str*, *bool*, *Sequence*[*JsonValueT*], *Mapping*[*str*, *JsonValueT*]]]

Response for *sync_torrent_peers()*

Definition: [https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-\(qBittorrent-4.1\)](https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-(qBittorrent-4.1)#user-content-get-torrent-peers-data)
#user-content-get-torrent-peers-data

Torrents

```
class TorrentsAPIMixin(host=None, port=None, username=None, password=None,
                        EXTRA_HEADERS=None, REQUESTS_ARGS=None,
                        VERIFY_WEBUI_CERTIFICATE=True, FORCE_SCHEME_FROM_HOST=False,
                        RAISE_NOTIMPLEMENTEDERROR_FOR_UNIMPLEMENTED_API_ENDPOINTS=False,
                        RAISE_ERROR_FOR_UNSUPPORTED_QBITTORRENT_VERSIONS=False,
                        VERBOSE_RESPONSE_LOGGING=False, SIMPLE_RESPONSES=False,
                        DISABLE_LOGGING_DEBUG_OUTPUT=False) → None
```

Bases: [AppAPIMixin](#)

Implementation of all Torrents API methods.

Usage

```
>>> from qbittorrentapi import Client
>>> client = Client(host="localhost:8080", username="admin", password=
↳ "adminadmin")
>>> client.torrents_add(urls="...")
>>> client.torrents_reannounce()
```

```
torrents_add(urls=None, torrent_files=None, save_path=None, cookie=None, category=None,
             is_skip_checking=None, is_paused=None, is_root_folder=None, rename=None,
             upload_limit=None, download_limit=None, use_auto_torrent_management=None,
             is_sequential_download=None, is_first_last_piece_priority=None, tags=None,
             content_layout=None, ratio_limit=None, seeding_time_limit=None, download_path=None,
             use_download_path=None, stop_condition=None, **kwargs) → str
```

Add one or more torrents by URLs and/or torrent files.

Returns `Ok.` for success and `Fails.` for failure.

Raises

- **[UnsupportedMediaType415Error](#)** – if file is not a valid torrent file
- **[TorrentFileNotFoundError](#)** – if a torrent file doesn't exist
- **[TorrentFilePermissionError](#)** – if read permission is denied to torrent file

Parameters

- **urls** ([Optional](#)[[Iterable](#)[[str](#)]]) – single instance or an iterable of URLs ([http://](#), [https://](#), [magnet:](#), [bc://bt/](#))
- **torrent_files** ([Optional](#)[[TypeVar](#)([TorrentFilesT](#), [bytes](#), [str](#), [IO](#)[[bytes](#)], [Mapping](#)[[str](#), [Union](#)[[bytes](#), [str](#), [IO](#)[[bytes](#)]]], [Iterable](#)[[Union](#)[[bytes](#), [str](#), [IO](#)[[bytes](#)]]]]) – several options are available to send torrent files to qBittorrent:
 - single instance of bytes: useful if torrent file already read from disk or downloaded from internet.
 - single instance of file handle to torrent file: use `open(<filepath>, 'rb')` to open the torrent file.
 - single instance of a filepath to torrent file: e.g. `/home/user/torrent_filename.torrent`
 - an iterable of the single instances above to send more than one torrent file
 - dictionary with key/value pairs of torrent name and single instance of above object

Note: The torrent name in a dictionary is useful to identify which torrent file errored. qBittorrent provides back that name in the error text. If a torrent name is not provided, then the name of the file will be used. And in the case of bytes (or if filename cannot be determined), the value 'torrent__n' will be used.

- **save_path** (`Optional[str]`) – location to save the torrent data
- **cookie** (`Optional[str]`) – cookie to retrieve torrents by URL
- **category** (`Optional[str]`) – category to assign to torrent(s)
- **is_skip_checking** (`Optional[bool]`) – True to skip hash checking
- **is_paused** (`Optional[bool]`) – True to add the torrent(s) without starting their downloading
- **is_root_folder** (`Optional[bool]`) – True or False to create root folder (superseded by `content_layout` with v4.3.2)
- **rename** (`Optional[str]`) – new name for torrent(s)
- **upload_limit** (`UnionType[str, int, None]`) – upload limit in bytes/second
- **download_limit** (`UnionType[str, int, None]`) – download limit in bytes/second
- **use_auto_torrent_management** (`Optional[bool]`) – True or False to use automatic torrent management
- **is_sequential_download** (`Optional[bool]`) – True or False for sequential download
- **is_first_last_piece_priority** (`Optional[bool]`) – True or False for first and last piece download priority
- **tags** (`Optional[Iterable[str]]`) – tag(s) to assign to torrent(s) (added in Web API 2.6.2)
- **content_layout** (`Optional[Literal['Original', 'Subfolder', 'NoSubFolder']]`) – Original, Subfolder, or NoSubFolder to control filesystem structure for content (added in Web API 2.7)
- **ratio_limit** (`UnionType[str, float, None]`) – share limit as ratio of upload amt over download amt; e.g. 0.5 or 2.0 (added in Web API 2.8.1)
- **seeding_time_limit** (`UnionType[str, int, None]`) – number of minutes to seed torrent (added in Web API 2.8.1)
- **download_path** (`Optional[str]`) – location to download torrent content before moving to `save_path` (added in Web API 2.8.4)
- **use_download_path** (`Optional[bool]`) – True or False whether `download_path` should be used. ... defaults to True if `download_path` is specified (added in Web API 2.8.4)
- **stop_condition** (`Optional[Literal['MetadataReceived', 'FilesChecked']]`) – MetadataReceived or FilesChecked to stop the torrent when started automatically (added in Web API 2.8.15)

Return type

`str`

torrents_add_peers(*peers=None, torrent_hashes=None, **kwargs*) → *TorrentsAddPeersDictionary*

Add one or more peers to one or more torrents.

This method was introduced with qBittorrent v4.4.0 (Web API v2.3.0).

Raises

InvalidRequest400Error – for invalid peers

Parameters

- **peers** (*Optional[Iterable[str]]*) – one or more peers to add. each peer should take the form ‘host:port’
- **torrent_hashes** (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type

TorrentsAddPeersDictionary

torrents_add_tags(tags=None, torrent_hashes=None, **kwargs) → None

Add one or more tags to one or more torrents.

Note: Tags that do not exist will be created on-the-fly.

This method was introduced with qBittorrent v4.2.0 (Web API v2.3.0).

Parameters

- **tags** (*Optional[Iterable[str]]*) – tag name or list of tags
- **torrent_hashes** (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type

None

torrents_add_trackers(torrent_hash=None, urls=None, **kwargs) → None

Add trackers to a torrent.

Raises

NotFound404Error –

Parameters

- **torrent_hash** (*Optional[str]*) – hash for torrent
- **urls** (*Optional[Iterable[str]]*) – tracker URLs to add to torrent

Return type

None

torrents_bottom_priority(torrent_hashes=None, **kwargs) → None

Set torrent as lowest priority. Torrent Queuing must be enabled.

Raises

Conflict409Error –

Parameters

torrent_hashes (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type

None

torrents_categories(**kwargs) → *TorrentCategoriesDictionary*

Retrieve all category definitions.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

Note: torrents/categories is not available until v2.1.0

Return type*TorrentCategoriesDictionary***torrents_count()** → *int*

Retrieve count of torrents.

Return type*int***torrents_create_category**(*name=None, save_path=None, download_path=None, enable_download_path=None, **kwargs*) → *None*

Create a new torrent category.

Raises*Conflict409Error* – if category name is not valid or unable to create**Parameters**

- **name** (*Optional[str]*) – name for new category
- **save_path** (*Optional[str]*) – location to save torrents for this category (added in Web API 2.1.0)
- **download_path** (*Optional[str]*) – download location for torrents with this category
- **enable_download_path** (*Optional[bool]*) – True or False to enable or disable download path

Return type*None***torrents_create_tags**(*tags=None, **kwargs*) → *None*

Create one or more tags.

This method was introduced with qBittorrent v4.2.0 (Web API v2.3.0).

Parameters**tags** (*Optional[Iterable[str]]*) – tag name or list of tags**Return type***None***torrents_decrease_priority**(*torrent_hashes=None, **kwargs*) → *None*

Decrease the priority of a torrent. Torrent Queuing must be enabled.

Raises*Conflict409Error* –**Parameters****torrent_hashes** (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.**Return type***None***torrents_delete**(*delete_files=False, torrent_hashes=None, **kwargs*) → *None*

Remove a torrent from qBittorrent and optionally delete its files.

Parameters

- **torrent_hashes** (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.
- **delete_files** (*Optional[bool]*) – True to delete the torrent's files

Return type*None***torrents_delete_tags**(*tags=None, **kwargs*) → *None*

Delete one or more tags.

This method was introduced with qBittorrent v4.2.0 (Web API v2.3.0).

Parameters**tags** (*Optional[Iterable[str]]*) – tag name or list of tags**Return type***None***torrents_download_limit**(*torrent_hashes=None, **kwargs*) → *TorrentLimitsDictionary*

Retrieve the download limit for one or more torrents.

Return type*TorrentLimitsDictionary***torrents_edit_category**(*name=None, save_path=None, download_path=None, enable_download_path=None, **kwargs*) → *None*

Edit an existing category.

This method was introduced with qBittorrent v4.1.3 (Web API v2.1.0).

Raises*Conflict409Error* – if category name is not valid or unable to create**Parameters**

- **name** (*Optional[str]*) – category to edit
- **save_path** (*Optional[str]*) – new location to save files for this category
- **download_path** (*Optional[str]*) – download location for torrents with this category
- **enable_download_path** (*Optional[bool]*) – True or False to enable or disable download path

Return type*None***torrents_edit_tracker**(*torrent_hash=None, original_url=None, new_url=None, **kwargs*) → *None*

Replace a torrent's tracker with a different one.

This method was introduced with qBittorrent v4.1.4 (Web API v2.2.0).

Raises

- *InvalidRequest400Error* –
- *NotFound404Error* –
- *Conflict409Error* –

Parameters

- **torrent_hash** (*Optional[str]*) – hash for torrent
- **original_url** (*Optional[str]*) – URL for existing tracker
- **new_url** (*Optional[str]*) – new URL to replace

Return type*None*

torrents_export(*torrent_hash=None, **kwargs*) → *bytes*

Export a .torrent file for the torrent.

This method was introduced with qBittorrent v4.5.0 (Web API v2.8.14).

Raises

- *NotFound404Error* – torrent not found
- *Conflict409Error* – unable to export .torrent file

Parameters

torrent_hash (*Optional[str]*) – hash for torrent

Return type

bytes

torrents_file_priority(*torrent_hash=None, file_ids=None, priority=None, **kwargs*) → *None*

Set priority for one or more files.

Raises

- *InvalidRequest400Error* – if priority is invalid or at least one file ID is not an integer
- *NotFound404Error* –
- *Conflict409Error* – if torrent metadata has not finished downloading or at least one file was not found

Parameters

- **torrent_hash** (*Optional[str]*) – hash for torrent
- **file_ids** (*Union[int, Iterable[str | int], None]*) – single file ID or a list.
- **priority** (*UnionType[str, int, None]*) – priority for file(s) - [https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-\(qBittorrent-4.1\)#user-content-set-file-priority](https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-(qBittorrent-4.1)#user-content-set-file-priority)

Return type

None

torrents_files(*torrent_hash=None, **kwargs*) → *TorrentFilesList*

Retrieve individual torrent's files.

Raises

- *NotFound404Error* –

Parameters

torrent_hash (*Optional[str]*) – hash for torrent

Return type

TorrentFilesList

torrents_increase_priority(*torrent_hashes=None, **kwargs*) → *None*

Increase the priority of a torrent. Torrent Queuing must be enabled.

Raises

- *Conflict409Error* –

Parameters

torrent_hashes (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type

None

torrents_info(*status_filter=None, category=None, sort=None, reverse=None, limit=None, offset=None, torrent_hashes=None, tag=None, **kwargs*) → *TorrentInfoList*

Retrieves list of info for torrents.

Parameters

- **status_filter** (*Optional[Literal['all', 'downloading', 'seeding', 'completed', 'paused', 'active', 'inactive', 'resumed', 'stalled', 'stalled_uploading', 'stalled_downloading', 'checking', 'moving', 'errored']]*) – Filter list by torrent status. all, downloading, seeding, completed, paused active, inactive, resumed, errored Added in Web API 2.4.1: stalled, stalled_uploading, and stalled_downloading Added in Web API 2.8.4: checking Added in Web API 2.8.18: moving
- **category** (*Optional[str]*) – Filter list by category
- **sort** (*Optional[str]*) – Sort list by any property returned
- **reverse** (*Optional[bool]*) – Reverse sorting
- **limit** (*UnionType[str, int, None]*) – Limit length of list
- **offset** (*UnionType[str, int, None]*) – Start of list (if < 0, offset from end of list)
- **torrent_hashes** (*Optional[Iterable[str]]*) – Filter list by hash (separate multiple hashes with a '|') (added in Web API 2.0.1)
- **tag** (*Optional[str]*) – Filter list by tag (empty string means “untagged”; no “tag” parameter means “any tag”; added in Web API 2.8.3)

Return type

TorrentInfoList

torrents_pause(*torrent_hashes=None, **kwargs*) → *None*

Pause one or more torrents in qBittorrent.

Parameters

torrent_hashes (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type

None

torrents_piece_hashes(*torrent_hash=None, **kwargs*) → *TorrentPieceInfoList*

Retrieve individual torrent’s pieces’ hashes.

Raises

NotFound404Error –

Parameters

torrent_hash (*Optional[str]*) – hash for torrent

Return type

TorrentPieceInfoList

torrents_piece_states(*torrent_hash=None, **kwargs*) → *TorrentPieceInfoList*

Retrieve individual torrent’s pieces’ states.

Raises

NotFound404Error –

Parameters

torrent_hash (*Optional[str]*) – hash for torrent

Return type*TorrentPieceInfoList***torrents_properties**(*torrent_hash=None, **kwargs*) → *TorrentPropertiesDictionary*

Retrieve individual torrent's properties.

Raises*NotFound404Error* –**Parameters****torrent_hash** (*Optional[str]*) – hash for torrent**Return type***TorrentPropertiesDictionary***torrents_reannounce**(*torrent_hashes=None, **kwargs*) → *None*

Reannounce a torrent.

This method was introduced with qBittorrent v4.1.2 (Web API v2.0.2).

Parameters**torrent_hashes** (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.**Return type***None***torrents_recheck**(*torrent_hashes=None, **kwargs*) → *None*

Recheck a torrent in qBittorrent.

Parameters**torrent_hashes** (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.**Return type***None***torrents_remove_categories**(*categories=None, **kwargs*) → *None*

Delete one or more categories.

Parameters**categories** (*Optional[Iterable[str]]*) – categories to delete**Return type***None***torrents_remove_tags**(*tags=None, torrent_hashes=None, **kwargs*) → *None*

Add one or more tags to one or more torrents.

This method was introduced with qBittorrent v4.2.0 (Web API v2.3.0).

Parameters

- **tags** (*Optional[Iterable[str]]*) – tag name or list of tags
- **torrent_hashes** (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type*None*

torrents_remove_trackers(*torrent_hash=None, urls=None, **kwargs*) → *None*

Remove trackers from a torrent.

This method was introduced with qBittorrent v4.1.4 (Web API v2.2.0).

Raises

- *NotFound404Error* –
- *Conflict409Error* –

Parameters

- **torrent_hash** (*Optional[str]*) – hash for torrent
- **urls** (*Optional[Iterable[str]]*) – tracker URLs to removed from torrent

Return type

None

torrents_rename(*torrent_hash=None, new_torrent_name=None, **kwargs*) → *None*

Rename a torrent.

Raises

- *NotFound404Error* –

Parameters

- **torrent_hash** (*Optional[str]*) – hash for torrent
- **new_torrent_name** (*Optional[str]*) – new name for torrent

Return type

None

torrents_rename_file(*torrent_hash=None, file_id=None, new_file_name=None, old_path=None, new_path=None, **kwargs*) → *None*

Rename a torrent file.

This method was introduced with qBittorrent v4.2.1 (Web API v2.4.0).

Raises

- *MissingRequiredParameters400Error* –
- *NotFound404Error* –
- *Conflict409Error* –

Parameters

- **torrent_hash** (*Optional[str]*) – hash for torrent
- **file_id** (*UnionType[str, int, None]*) – id for file (removed in Web API 2.7)
- **new_file_name** (*Optional[str]*) – new name for file (removed in Web API 2.7)
- **old_path** (*Optional[str]*) – path of file to rename (added in Web API 2.7)
- **new_path** (*Optional[str]*) – new path of file to rename (added in Web API 2.7)

Return type

None

torrents_rename_folder(*torrent_hash=None, old_path=None, new_path=None, **kwargs*) → *None*

Rename a torrent folder.

This method was introduced with qBittorrent v4.3.2 (Web API v2.7).

Raises

- *MissingRequiredParameters400Error* –
- *NotFound404Error* –
- *Conflict409Error* –

Parameters

- **torrent_hash** (*Optional[str]*) – hash for torrent
- **old_path** (*Optional[str]*) – path of file to rename (added in Web API 2.7)
- **new_path** (*Optional[str]*) – new path of file to rename (added in Web API 2.7)

Return type

None

torrents_resume(*torrent_hashes=None, **kwargs*) → *None*

Resume one or more torrents in qBittorrent.

Parameters

torrent_hashes (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type

None

torrents_set_auto_management(*enable=None, torrent_hashes=None, **kwargs*) → *None*

Enable or disable automatic torrent management for one or more torrents.

Parameters

- **torrent_hashes** (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.
- **enable** (*Optional[bool]*) – Defaults to True if None or unset; use False to disable

Return type

None

torrents_set_category(*category=None, torrent_hashes=None, **kwargs*) → *None*

Set a category for one or more torrents.

Raises

Conflict409Error – for bad category

Parameters

- **torrent_hashes** (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.
- **category** (*Optional[str]*) – category to assign to torrent

Return type

None

torrents_set_download_limit(*limit=None, torrent_hashes=None, **kwargs*) → *None*

Set the download limit for one or more torrents.

Parameters

- **torrent_hashes** (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.
- **limit** (*UnionType[str, int, None]*) – bytes/second (-1 sets the limit to infinity)

Return type

None

torrents_set_download_path(*download_path=None, torrent_hashes=None, **kwargs*) → *None*

Set the Download Path for one or more torrents.

This method was introduced with qBittorrent v4.4.0 (Web API v2.8.4).

Raises

- **Forbidden403Error** – cannot write to directory
- **Conflict409Error** – cannot create directory

Parameters

- **download_path** (*Optional[str]*) – file path to save torrent contents before torrent finishes downloading
- **torrent_hashes** (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type

None

torrents_set_force_start(*enable=None, torrent_hashes=None, **kwargs*) → *None*

Force start one or more torrents.

Parameters

- **torrent_hashes** (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.
- **enable** (*Optional[bool]*) – Defaults to True if None or unset; False is equivalent to *torrents_resume()*.

Return type

None

torrents_set_location(*location=None, torrent_hashes=None, **kwargs*) → *None*

Set location for torrents' files.

Raises

- **Forbidden403Error** – if the user doesn't have permissions to write to the location (only before v4.5.2 - write check was removed.)
- **Conflict409Error** – if the directory cannot be created at the location

Parameters

- **torrent_hashes** (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.
- **location** (*Optional[str]*) – disk location to move torrent's files

Return type`None`**torrents_set_save_path**(*save_path=None, torrent_hashes=None, **kwargs*) → `None`

Set the Save Path for one or more torrents.

This method was introduced with qBittorrent v4.4.0 (Web API v2.8.4).

Raises

- **`Forbidden403Error`** – cannot write to directory
- **`Conflict409Error`** – cannot create directory

Parameters

- **save_path** (`Optional[str]`) – file path to save torrent contents
- **torrent_hashes** (`Optional[Iterable[str]]`) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type`None`**torrents_set_share_limits**(*ratio_limit=None, seeding_time_limit=None, inactive_seeding_time_limit=None, torrent_hashes=None, **kwargs*) → `None`

Set share limits for one or more torrents.

This method was introduced with qBittorrent v4.1.1 (Web API v2.0.1).

Parameters

- **torrent_hashes** (`Optional[Iterable[str]]`) – single torrent hash or list of torrent hashes. Or all for all torrents.
- **ratio_limit** (`UnionType[str, int, None]`) – max ratio to seed a torrent. (-2 means use the global value and -1 is no limit)
- **seeding_time_limit** (`UnionType[str, int, None]`) – minutes (-2 means use the global value and -1 is no limit)
- **inactive_seeding_time_limit** (`UnionType[str, int, None]`) – minutes (-2 means use the global value and -1 is no limit) (added in Web API v2.9.2)

Return type`None`**torrents_set_super_seeding**(*enable=None, torrent_hashes=None, **kwargs*) → `None`

Set one or more torrents as super seeding.

Parameters

- **torrent_hashes** (`Optional[Iterable[str]]`) – single torrent hash or list of torrent hashes. Or all for all torrents.
- **enable** (`Optional[bool]`) – Defaults to True if None or unset; False to disable

Return type`None`**torrents_set_upload_limit**(*limit=None, torrent_hashes=None, **kwargs*) → `None`

Set the upload limit for one or more torrents.

Parameters

- **torrent_hashes** (`Optional[Iterable[str]]`) – single torrent hash or list of torrent hashes. Or all for all torrents.
- **limit** (`UnionType[str, int, None]`) – bytes/second (-1 sets the limit to infinity)

Return type`None`**torrents_tags**(***kwargs*) → `TagList`

Retrieve all tag definitions.

This method was introduced with qBittorrent v4.2.0 (Web API v2.3.0).

Return type`TagList`**torrents_toggle_first_last_piece_priority**(*torrent_hashes=None, **kwargs*) → `None`

Toggle priority of first/last piece downloading.

Parameters**torrent_hashes** (`Optional[Iterable[str]]`) – single torrent hash or list of torrent hashes. Or all for all torrents.**Return type**`None`**torrents_toggle_sequential_download**(*torrent_hashes=None, **kwargs*) → `None`

Toggle sequential download for one or more torrents.

Parameters**torrent_hashes** (`Optional[Iterable[str]]`) – single torrent hash or list of torrent hashes. Or all for all torrents.**Return type**`None`**torrents_top_priority**(*torrent_hashes=None, **kwargs*) → `None`

Set torrent as highest priority. Torrent Queuing must be enabled.

Raises`Conflict409Error` –**Parameters****torrent_hashes** (`Optional[Iterable[str]]`) – single torrent hash or list of torrent hashes. Or all for all torrents.**Return type**`None`**torrents_trackers**(*torrent_hash=None, **kwargs*) → `TrackersList`Retrieve individual torrent's trackers. Tracker status is defined in `TrackerStatus`.**Raises**`NotFound404Error` –**Parameters****torrent_hash** (`Optional[str]`) – hash for torrent**Return type**`TrackersList`

torrents_upload_limit(*torrent_hashes=None, **kwargs*) → *TorrentLimitsDictionary*

Retrieve the upload limit for one or more torrents.

Parameters

torrent_hashes (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type

TorrentLimitsDictionary

torrents_webseeds(*torrent_hash=None, **kwargs*) → *WebSeedsList*

Retrieve individual torrent's web seeds.

Raises

NotFound404Error –

Parameters

torrent_hash (*Optional[str]*) – hash for torrent

Return type

WebSeedsList

class Torrents(*client*) → *None*

Allows interaction with the Torrents API endpoints.

Usage

```
>>> from qbittorrentapi import Client
>>> client = Client(host="localhost:8080", username="admin", password=
↳ "adminadmin")
>>> # these are all the same attributes that are available as named in
↳ the
>>> # endpoints or the more pythonic names in Client (with or without
↳ 'torrents_' prepended)
>>> torrent_list = client.torrents.info()
>>> torrent_list_active = client.torrents.info.active()
>>> torrent_list_active_partial = client.torrents.info.active(limit=100,
↳ offset=200)
>>> torrent_list_downloading = client.torrents.info.downloading()
>>> # torrent looping
>>> for torrent in client.torrents.info.completed()
>>> # all torrents endpoints with a 'hashes' parameters support all
↳ method to apply action to all torrents
>>> client.torrents.pause.all()
>>> client.torrents.resume.all()
>>> # or specify the individual hashes
>>> client.torrents.downloadLimit(torrent_hashes=["...", "..."])
```

add(*urls=None, torrent_files=None, save_path=None, cookie=None, category=None, is_skip_checking=None, is_paused=None, is_root_folder=None, rename=None, upload_limit=None, download_limit=None, use_auto_torrent_management=None, is_sequential_download=None, is_first_last_piece_priority=None, tags=None, content_layout=None, ratio_limit=None, seeding_time_limit=None, download_path=None, use_download_path=None, stop_condition=None, **kwargs*) → *str*

Add one or more torrents by URLs and/or torrent files.

Returns *Ok.* for success and *Fails.* for failure.

Raises

- ***UnsupportedMediaType415Error*** – if file is not a valid torrent file
- ***TorrentFileNotFoundError*** – if a torrent file doesn't exist
- ***TorrentFilePermissionError*** – if read permission is denied to torrent file

Parameters

- **urls** (`Optional[Iterable[str]]`) – single instance or an iterable of URLs (`http://`, `https://`, `magnet:`, `bc://bt/`)
- **torrent_files** (`Optional[TypeVar(TorrentFilesT, bytes, str, IO[bytes], Mapping[str, Union[bytes, str, IO[bytes]]], Iterable[Union[bytes, str, IO[bytes]]])]`) – several options are available to send torrent files to qBittorrent:
 - single instance of bytes: useful if torrent file already read from disk or downloaded from internet.
 - single instance of file handle to torrent file: use `open(<filepath>, 'rb')` to open the torrent file.
 - single instance of a filepath to torrent file: e.g. `/home/user/torrent_filename.torrent`
 - an iterable of the single instances above to send more than one torrent file
 - dictionary with key/value pairs of torrent name and single instance of above object

Note: The torrent name in a dictionary is useful to identify which torrent file errored. qBittorrent provides back that name in the error text. If a torrent name is not provided, then the name of the file will be used. And in the case of bytes (or if filename cannot be determined), the value `'torrent__n'` will be used.

- **save_path** (`Optional[str]`) – location to save the torrent data
- **cookie** (`Optional[str]`) – cookie to retrieve torrents by URL
- **category** (`Optional[str]`) – category to assign to torrent(s)
- **is_skip_checking** (`Optional[bool]`) – True to skip hash checking
- **is_paused** (`Optional[bool]`) – True to add the torrent(s) without starting their downloading
- **is_root_folder** (`Optional[bool]`) – True or False to create root folder (superseded by `content_layout` with v4.3.2)
- **rename** (`Optional[str]`) – new name for torrent(s)
- **upload_limit** (`UnionType[str, int, None]`) – upload limit in bytes/second
- **download_limit** (`UnionType[str, int, None]`) – download limit in bytes/second
- **use_auto_torrent_management** (`Optional[bool]`) – True or False to use automatic torrent management
- **is_sequential_download** (`Optional[bool]`) – True or False for sequential download
- **is_first_last_piece_priority** (`Optional[bool]`) – True or False for first and last piece download priority
- **tags** (`Optional[Iterable[str]]`) – tag(s) to assign to torrent(s) (added in Web API 2.6.2)

- **content_layout** (`Optional[Literal['Original', 'Subfolder', 'NoSubFolder']]`) – Original, Subfolder, or NoSubFolder to control filesystem structure for content (added in Web API 2.7)
- **ratio_limit** (`UnionType[str, float, None]`) – share limit as ratio of upload amt over download amt; e.g. 0.5 or 2.0 (added in Web API 2.8.1)
- **seeding_time_limit** (`UnionType[str, int, None]`) – number of minutes to seed torrent (added in Web API 2.8.1)
- **download_path** (`Optional[str]`) – location to download torrent content before moving to save_path (added in Web API 2.8.4)
- **use_download_path** (`Optional[bool]`) – True or False whether download_path should be used... defaults to True if download_path is specified (added in Web API 2.8.4)
- **stop_condition** (`Optional[Literal['MetadataReceived', 'FilesChecked']]`) – MetadataReceived or FilesChecked to stop the torrent when started automatically (added in Web API 2.8.15)

Return type`str`**add_trackers**(*torrent_hash=None, urls=None, **kwargs*) → `None`

Add trackers to a torrent.

Raises`NotFound404Error` –**Parameters**

- **torrent_hash** (`Optional[str]`) – hash for torrent
- **urls** (`Optional[Iterable[str]]`) – tracker URLs to add to torrent

Return type`None`**count**() → `int`

Retrieve count of torrents.

Return type`int`**edit_tracker**(*torrent_hash=None, original_url=None, new_url=None, **kwargs*) → `None`

Replace a torrent's tracker with a different one.

This method was introduced with qBittorrent v4.1.4 (Web API v2.2.0).

Raises

- `InvalidRequest400Error` –
- `NotFound404Error` –
- `Conflict409Error` –

Parameters

- **torrent_hash** (`Optional[str]`) – hash for torrent
- **original_url** (`Optional[str]`) – URL for existing tracker
- **new_url** (`Optional[str]`) – new URL to replace

Return type`None`**export**(*torrent_hash*=`None`, ***kwargs*) → `bytes`

Export a .torrent file for the torrent.

This method was introduced with qBittorrent v4.5.0 (Web API v2.8.14).

Raises

- **NotFound404Error** – torrent not found
- **Conflict409Error** – unable to export .torrent file

Parameters**torrent_hash** (`Optional[str]`) – hash for torrent**Return type**`bytes`**file_priority**(*torrent_hash*=`None`, *file_ids*=`None`, *priority*=`None`, ***kwargs*) → `None`

Set priority for one or more files.

Raises

- **InvalidRequest400Error** – if priority is invalid or at least one file ID is not an integer
- **NotFound404Error** –
- **Conflict409Error** – if torrent metadata has not finished downloading or at least one file was not found

Parameters

- **torrent_hash** (`Optional[str]`) – hash for torrent
- **file_ids** (`Union[int, Iterable[str | int], None]`) – single file ID or a list.
- **priority** (`UnionType[str, int, None]`) – priority for file(s) - [https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-\(qBittorrent-4.1\)#user-content-set-file-priority](https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-(qBittorrent-4.1)#user-content-set-file-priority)

Return type`None`**files**(*torrent_hash*=`None`, ***kwargs*) → `TorrentFilesList`

Retrieve individual torrent's files.

Raises**NotFound404Error** –**Parameters****torrent_hash** (`Optional[str]`) – hash for torrent**Return type**`TorrentFilesList`**piece_hashes**(*torrent_hash*=`None`, ***kwargs*) → `TorrentPieceInfoList`

Retrieve individual torrent's pieces' hashes.

Raises**NotFound404Error** –**Parameters****torrent_hash** (`Optional[str]`) – hash for torrent

Return type*TorrentPieceInfoList***piece_states**(*torrent_hash=None, **kwargs*) → *TorrentPieceInfoList*

Retrieve individual torrent's pieces' states.

Raises*NotFound404Error* –**Parameters****torrent_hash** (*Optional[str]*) – hash for torrent**Return type***TorrentPieceInfoList***properties**(*torrent_hash=None, **kwargs*) → *TorrentPropertiesDictionary*

Retrieve individual torrent's properties.

Raises*NotFound404Error* –**Parameters****torrent_hash** (*Optional[str]*) – hash for torrent**Return type***TorrentPropertiesDictionary***remove_trackers**(*torrent_hash=None, urls=None, **kwargs*) → *None*

Remove trackers from a torrent.

This method was introduced with qBittorrent v4.1.4 (Web API v2.2.0).

Raises

- *NotFound404Error* –
- *Conflict409Error* –

Parameters

- **torrent_hash** (*Optional[str]*) – hash for torrent
- **urls** (*Optional[Iterable[str]]*) – tracker URLs to removed from torrent

Return type*None***rename**(*torrent_hash=None, new_torrent_name=None, **kwargs*) → *None*

Rename a torrent.

Raises*NotFound404Error* –**Parameters**

- **torrent_hash** (*Optional[str]*) – hash for torrent
- **new_torrent_name** (*Optional[str]*) – new name for torrent

Return type*None*

rename_file(*torrent_hash=None, file_id=None, new_file_name=None, old_path=None, new_path=None, **kwargs*) → *None*

Rename a torrent file.

This method was introduced with qBittorrent v4.2.1 (Web API v2.4.0).

Raises

- *MissingRequiredParameters400Error* –
- *NotFound404Error* –
- *Conflict409Error* –

Parameters

- **torrent_hash** (*Optional[str]*) – hash for torrent
- **file_id** (*UnionType[str, int, None]*) – id for file (removed in Web API 2.7)
- **new_file_name** (*Optional[str]*) – new name for file (removed in Web API 2.7)
- **old_path** (*Optional[str]*) – path of file to rename (added in Web API 2.7)
- **new_path** (*Optional[str]*) – new path of file to rename (added in Web API 2.7)

Return type

None

rename_folder(*torrent_hash=None, old_path=None, new_path=None, **kwargs*) → *None*

Rename a torrent folder.

This method was introduced with qBittorrent v4.3.2 (Web API v2.7).

Raises

- *MissingRequiredParameters400Error* –
- *NotFound404Error* –
- *Conflict409Error* –

Parameters

- **torrent_hash** (*Optional[str]*) – hash for torrent
- **old_path** (*Optional[str]*) – path of file to rename (added in Web API 2.7)
- **new_path** (*Optional[str]*) – new path of file to rename (added in Web API 2.7)

Return type

None

trackers(*torrent_hash=None, **kwargs*) → *TrackersList*

Retrieve individual torrent's trackers. Tracker status is defined in *TrackerStatus*.

Raises

- *NotFound404Error* –

Parameters

- **torrent_hash** (*Optional[str]*) – hash for torrent

Return type

TrackersList

webseeds(*torrent_hash=None, **kwargs*) → *WebSeedsList*

Retrieve individual torrent's web seeds.

Raises

NotFound404Error –

Parameters

torrent_hash (*Optional[str]*) – hash for torrent

Return type

WebSeedsList

class TorrentDictionary(*data, client*) → *None*

Bases: *ClientCache[TorrentsAPIMixin]*, *ListEntry*

Item in *TorrentInfoList*. Allows interaction with individual torrents via the Torrents API endpoints.

Usage

```
>>> from qbittorrentapi import Client
>>> client = Client(host="localhost:8080", username="admin", password=
↳ "adminadmin")
>>> # these are all the same attributes that are available as named in
↳ the
>>> # endpoints or the more pythonic names in Client (with or without
↳ 'transfer_' prepended)
>>> torrent = client.torrents.info()[0]
>>> torrent_hash = torrent.info.hash
>>> # Attributes without inputs and a return value are properties
>>> properties = torrent.properties
>>> trackers = torrent.trackers
>>> files = torrent.files
>>> # Action methods
>>> torrent.edit_tracker(original_url="...", new_url="...")
>>> torrent.remove_trackers(urls="http://127.0.0.2/")
>>> torrent.rename(new_torrent_name="...")
>>> torrent.resume()
>>> torrent.pause()
>>> torrent.recheck()
>>> torrent.torrents_top_priority()
>>> torrent.setLocation(location="/home/user/torrents/")
>>> torrent.setCategory(category="video")
```

add_tags(*tags=None, torrent_hashes=None, **kwargs*) → *None*

Add one or more tags to one or more torrents.

Note: Tags that do not exist will be created on-the-fly.

This method was introduced with qBittorrent v4.2.0 (Web API v2.3.0).

Parameters

- **tags** (*Optional[Iterable[str]]*) – tag name or list of tags
- **torrent_hashes** (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type

None

add_trackers(*torrent_hash=None, urls=None, **kwargs*) → *None*

Add trackers to a torrent.

Raises

NotFound404Error –

Parameters

- **torrent_hash** (*Optional[str]*) – hash for torrent
- **urls** (*Optional[Iterable[str]]*) – tracker URLs to add to torrent

Return type

None

bottom_priority(*torrent_hashes=None, **kwargs*) → *None*

Set torrent as lowest priority. Torrent Queuing must be enabled.

Raises

Conflict409Error –

Parameters

torrent_hashes (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type

None

decrease_priority(*torrent_hashes=None, **kwargs*) → *None*

Decrease the priority of a torrent. Torrent Queuing must be enabled.

Raises

Conflict409Error –

Parameters

torrent_hashes (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type

None

delete(*delete_files=False, torrent_hashes=None, **kwargs*) → *None*

Remove a torrent from qBittorrent and optionally delete its files.

Parameters

- **torrent_hashes** (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.
- **delete_files** (*Optional[bool]*) – True to delete the torrent's files

Return type

None

property download_limit: *TorrentLimitsDictionary*

Retrieve the download limit for one or more torrents.

edit_tracker(*torrent_hash=None, original_url=None, new_url=None, **kwargs*) → *None*

Replace a torrent's tracker with a different one.

This method was introduced with qBittorrent v4.1.4 (Web API v2.2.0).

Raises

- *InvalidRequest400Error* –
- *NotFound404Error* –
- *Conflict409Error* –

Parameters

- **torrent_hash** (*Optional[str]*) – hash for torrent
- **original_url** (*Optional[str]*) – URL for existing tracker
- **new_url** (*Optional[str]*) – new URL to replace

Return type*None***export**(*torrent_hash=None, **kwargs*) → *bytes*

Export a .torrent file for the torrent.

This method was introduced with qBittorrent v4.5.0 (Web API v2.8.14).

Raises

- *NotFound404Error* – torrent not found
- *Conflict409Error* – unable to export .torrent file

Parameters**torrent_hash** (*Optional[str]*) – hash for torrent**Return type***bytes***file_priority**(*torrent_hash=None, file_ids=None, priority=None, **kwargs*) → *None*

Set priority for one or more files.

Raises

- *InvalidRequest400Error* – if priority is invalid or at least one file ID is not an integer
- *NotFound404Error* –
- *Conflict409Error* – if torrent metadata has not finished downloading or at least one file was not found

Parameters

- **torrent_hash** (*Optional[str]*) – hash for torrent
- **file_ids** (*Union[int, Iterable[str | int], None]*) – single file ID or a list.
- **priority** (*UnionType[str, int, None]*) – priority for file(s) - [https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-\(qBittorrent-4.1\)#user-content-set-file-priority](https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-(qBittorrent-4.1)#user-content-set-file-priority)

Return type*None***property files:** *TorrentFilesList*

Retrieve individual torrent's files.

Raises*NotFound404Error* –**Parameters****torrent_hash** (*Optional[str]*) – hash for torrent

increase_priority(*torrent_hashes=None, **kwargs*) → *None*

Increase the priority of a torrent. Torrent Queuing must be enabled.

Raises

Conflict409Error –

Parameters

torrent_hashes (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type

None

property info: *TorrentDictionary*

Returns data from *torrents_info()* for the torrent.

pause(*torrent_hashes=None, **kwargs*) → *None*

Pause one or more torrents in qBittorrent.

Parameters

torrent_hashes (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type

None

property piece_hashes: *TorrentPieceInfoList*

Retrieve individual torrent's pieces' hashes.

Raises

NotFound404Error –

Parameters

torrent_hash (*Optional[str]*) – hash for torrent

property piece_states: *TorrentPieceInfoList*

Retrieve individual torrent's pieces' states.

Raises

NotFound404Error –

Parameters

torrent_hash (*Optional[str]*) – hash for torrent

property properties: *TorrentPropertiesDictionary*

Retrieve individual torrent's properties.

Raises

NotFound404Error –

Parameters

torrent_hash (*Optional[str]*) – hash for torrent

reannounce(*torrent_hashes=None, **kwargs*) → *None*

Reannounce a torrent.

This method was introduced with qBittorrent v4.1.2 (Web API v2.0.2).

Parameters

torrent_hashes (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type

`None`

recheck(*torrent_hashes=None, **kwargs*) → `None`

Recheck a torrent in qBittorrent.

Parameters

torrent_hashes (`Optional[Iterable[str]]`) – single torrent hash or list of torrent hashes. Or `all` for all torrents.

Return type

`None`

remove_tags(*tags=None, torrent_hashes=None, **kwargs*) → `None`

Add one or more tags to one or more torrents.

This method was introduced with qBittorrent v4.2.0 (Web API v2.3.0).

Parameters

- **tags** (`Optional[Iterable[str]]`) – tag name or list of tags
- **torrent_hashes** (`Optional[Iterable[str]]`) – single torrent hash or list of torrent hashes. Or `all` for all torrents.

Return type

`None`

remove_trackers(*torrent_hash=None, urls=None, **kwargs*) → `None`

Remove trackers from a torrent.

This method was introduced with qBittorrent v4.1.4 (Web API v2.2.0).

Raises

- **`NotFound404Error`** –
- **`Conflict409Error`** –

Parameters

- **torrent_hash** (`Optional[str]`) – hash for torrent
- **urls** (`Optional[Iterable[str]]`) – tracker URLs to removed from torrent

Return type

`None`

rename(*torrent_hash=None, new_torrent_name=None, **kwargs*) → `None`

Rename a torrent.

Raises

- **`NotFound404Error`** –

Parameters

- **torrent_hash** (`Optional[str]`) – hash for torrent
- **new_torrent_name** (`Optional[str]`) – new name for torrent

Return type

`None`

rename_file(*torrent_hash=None, file_id=None, new_file_name=None, old_path=None, new_path=None, **kwargs*) → *None*

Rename a torrent file.

This method was introduced with qBittorrent v4.2.1 (Web API v2.4.0).

Raises

- *MissingRequiredParameters400Error* –
- *NotFound404Error* –
- *Conflict409Error* –

Parameters

- **torrent_hash** (*Optional[str]*) – hash for torrent
- **file_id** (*UnionType[str, int, None]*) – id for file (removed in Web API 2.7)
- **new_file_name** (*Optional[str]*) – new name for file (removed in Web API 2.7)
- **old_path** (*Optional[str]*) – path of file to rename (added in Web API 2.7)
- **new_path** (*Optional[str]*) – new path of file to rename (added in Web API 2.7)

Return type

None

rename_folder(*torrent_hash=None, old_path=None, new_path=None, **kwargs*) → *None*

Rename a torrent folder.

This method was introduced with qBittorrent v4.3.2 (Web API v2.7).

Raises

- *MissingRequiredParameters400Error* –
- *NotFound404Error* –
- *Conflict409Error* –

Parameters

- **torrent_hash** (*Optional[str]*) – hash for torrent
- **old_path** (*Optional[str]*) – path of file to rename (added in Web API 2.7)
- **new_path** (*Optional[str]*) – new path of file to rename (added in Web API 2.7)

Return type

None

resume(*torrent_hashes=None, **kwargs*) → *None*

Resume one or more torrents in qBittorrent.

Parameters

torrent_hashes (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type

None

setDownloadPath(*download_path=None, torrent_hashes=None, **kwargs*) → *None*

Set the Download Path for one or more torrents.

This method was introduced with qBittorrent v4.4.0 (Web API v2.8.4).

Raises

- **`Forbidden403Error`** – cannot write to directory
- **`Conflict409Error`** – cannot create directory

Parameters

- **`download_path`** (`Optional[str]`) – file path to save torrent contents before torrent finishes downloading
- **`torrent_hashes`** (`Optional[Iterable[str]]`) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type`None`

`setSavePath`(`save_path=None`, `torrent_hashes=None`, `**kwargs`) → `None`

Set the Save Path for one or more torrents.

This method was introduced with qBittorrent v4.4.0 (Web API v2.8.4).

Raises

- **`Forbidden403Error`** – cannot write to directory
- **`Conflict409Error`** – cannot create directory

Parameters

- **`save_path`** (`Optional[str]`) – file path to save torrent contents
- **`torrent_hashes`** (`Optional[Iterable[str]]`) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type`None`

`set_auto_management`(`enable=None`, `torrent_hashes=None`, `**kwargs`) → `None`

Enable or disable automatic torrent management for one or more torrents.

Parameters

- **`torrent_hashes`** (`Optional[Iterable[str]]`) – single torrent hash or list of torrent hashes. Or all for all torrents.
- **`enable`** (`Optional[bool]`) – Defaults to True if None or unset; use False to disable

Return type`None`

`set_category`(`category=None`, `torrent_hashes=None`, `**kwargs`) → `None`

Set a category for one or more torrents.

Raises

`Conflict409Error` – for bad category

Parameters

- **`torrent_hashes`** (`Optional[Iterable[str]]`) – single torrent hash or list of torrent hashes. Or all for all torrents.
- **`category`** (`Optional[str]`) – category to assign to torrent

Return type`None`

set_download_limit(*limit=None, torrent_hashes=None, **kwargs*) → *None*

Set the download limit for one or more torrents.

Parameters

- **torrent_hashes** (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.
- **limit** (*UnionType[str, int, None]*) – bytes/second (-1 sets the limit to infinity)

Return type

None

set_download_path(*download_path=None, torrent_hashes=None, **kwargs*) → *None*

Set the Download Path for one or more torrents.

This method was introduced with qBittorrent v4.4.0 (Web API v2.8.4).

Raises

- **Forbidden403Error** – cannot write to directory
- **Conflict409Error** – cannot create directory

Parameters

- **download_path** (*Optional[str]*) – file path to save torrent contents before torrent finishes downloading
- **torrent_hashes** (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type

None

set_force_start(*enable=None, torrent_hashes=None, **kwargs*) → *None*

Force start one or more torrents.

Parameters

- **torrent_hashes** (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.
- **enable** (*Optional[bool]*) – Defaults to True if None or unset; False is equivalent to *torrents_resume()*.

Return type

None

set_location(*location=None, torrent_hashes=None, **kwargs*) → *None*

Set location for torrents' files.

Raises

- **Forbidden403Error** – if the user doesn't have permissions to write to the location (only before v4.5.2 - write check was removed.)
- **Conflict409Error** – if the directory cannot be created at the location

Parameters

- **torrent_hashes** (*Optional[Iterable[str]]*) – single torrent hash or list of torrent hashes. Or all for all torrents.
- **location** (*Optional[str]*) – disk location to move torrent's files

Return type`None`**set_save_path**(*save_path=None, torrent_hashes=None, **kwargs*) → `None`

Set the Save Path for one or more torrents.

This method was introduced with qBittorrent v4.4.0 (Web API v2.8.4).

Raises

- **`Forbidden403Error`** – cannot write to directory
- **`Conflict409Error`** – cannot create directory

Parameters

- **save_path** (`Optional[str]`) – file path to save torrent contents
- **torrent_hashes** (`Optional[Iterable[str]]`) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type`None`**set_share_limits**(*ratio_limit=None, seeding_time_limit=None, inactive_seeding_time_limit=None, torrent_hashes=None, **kwargs*) → `None`

Set share limits for one or more torrents.

This method was introduced with qBittorrent v4.1.1 (Web API v2.0.1).

Parameters

- **torrent_hashes** (`Optional[Iterable[str]]`) – single torrent hash or list of torrent hashes. Or all for all torrents.
- **ratio_limit** (`UnionType[str, int, None]`) – max ratio to seed a torrent. (-2 means use the global value and -1 is no limit)
- **seeding_time_limit** (`UnionType[str, int, None]`) – minutes (-2 means use the global value and -1 is no limit)
- **inactive_seeding_time_limit** (`UnionType[str, int, None]`) – minutes (-2 means use the global value and -1 is no limit) (added in Web API v2.9.2)

Return type`None`**set_super_seeding**(*enable=None, torrent_hashes=None, **kwargs*) → `None`

Set one or more torrents as super seeding.

Parameters

- **torrent_hashes** (`Optional[Iterable[str]]`) – single torrent hash or list of torrent hashes. Or all for all torrents.
- **enable** (`Optional[bool]`) – Defaults to True if None or unset; False to disable

Return type`None`**set_upload_limit**(*limit=None, torrent_hashes=None, **kwargs*) → `None`

Set the upload limit for one or more torrents.

Parameters

- **torrent_hashes** (`Optional[Iterable[str]]`) – single torrent hash or list of torrent hashes. Or all for all torrents.
- **limit** (`UnionType[str, int, None]`) – bytes/second (-1 sets the limit to infinity)

Return type

`None`

property state_enum: `TorrentState`

Torrent state enum.

sync_local() → `None`

Update local cache of torrent info.

Return type

`None`

toggle_first_last_piece_priority(`torrent_hashes=None, **kwargs`) → `None`

Toggle priority of first/last piece downloading.

Parameters

torrent_hashes (`Optional[Iterable[str]]`) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type

`None`

toggle_sequential_download(`torrent_hashes=None, **kwargs`) → `None`

Toggle sequential download for one or more torrents.

Parameters

torrent_hashes (`Optional[Iterable[str]]`) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type

`None`

top_priority(`torrent_hashes=None, **kwargs`) → `None`

Set torrent as highest priority. Torrent Queuing must be enabled.

Raises

`Conflict409Error` –

Parameters

torrent_hashes (`Optional[Iterable[str]]`) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type

`None`

property trackers: `TrackersList`

Retrieve individual torrent's trackers. Tracker status is defined in `TrackerStatus`.

Raises

`NotFound404Error` –

Parameters

torrent_hash (`Optional[str]`) – hash for torrent

property upload_limit: `TorrentLimitsDictionary`

Retrieve the upload limit for one or more torrents.

Parameters

torrent_hashes (`Optional[Iterable[str]]`) – single torrent hash or list of torrent hashes. Or all for all torrents.

property webseeds: `WebSeedsList`

Retrieve individual torrent's web seeds.

Raises

`NotFound404Error` –

Parameters

torrent_hash (`Optional[str]`) – hash for torrent

class TorrentCategories(*args, client, **kwargs)

Bases: `ClientCache[TorrentsAPIMixin]`

Allows interaction with torrent categories within the Torrents API endpoints.

Usage

```
>>> from qbittorrentapi import Client
>>> client = Client(host="localhost:8080", username="admin", password=
↳ "adminadmin")
>>> # these are all the same attributes that are available as named in
↳ the
>>> # endpoints or the more pythonic names in Client (with or without
↳ 'torrents_' prepended)
>>> categories = client.torrent_categories.categories
>>> # create or edit categories
>>> client.torrent_categories.create_category(name="Video", save_path="/
↳ home/user/torrents/Video")
>>> client.torrent_categories.edit_category(name="Video", save_path="/
↳ data/torrents/Video")
>>> # edit or create new by assignment
>>> client.torrent_categories.categories = dict(name="Video", save_path=
↳ "/home/user/")
>>> # delete categories
>>> client.torrent_categories.removeCategories(categories="Video")
>>> client.torrent_categories.removeCategories(categories=["Audio",
↳ "ISOs"])
```

property categories: `TorrentCategoriesDictionary`

Retrieve all category definitions.

This method was introduced with qBittorrent v4.1.4 (Web API v2.1.1).

Note: torrents/categories is not available until v2.1.0

create_category(name=None, save_path=None, download_path=None, enable_download_path=None, **kwargs) → None

Create a new torrent category.

Raises

`Conflict409Error` – if category name is not valid or unable to create

Parameters

- **name** (`Optional[str]`) – name for new category

- **save_path** (*Optional[str]*) – location to save torrents for this category (added in Web API 2.1.0)
- **download_path** (*Optional[str]*) – download location for torrents with this category
- **enable_download_path** (*Optional[bool]*) – True or False to enable or disable download path

Return type*None*

edit_category(*name=None, save_path=None, download_path=None, enable_download_path=None, **kwargs*) → *None*

Edit an existing category.

This method was introduced with qBittorrent v4.1.3 (Web API v2.1.0).

Raises

Conflict409Error – if category name is not valid or unable to create

Parameters

- **name** (*Optional[str]*) – category to edit
- **save_path** (*Optional[str]*) – new location to save files for this category
- **download_path** (*Optional[str]*) – download location for torrents with this category
- **enable_download_path** (*Optional[bool]*) – True or False to enable or disable download path

Return type*None*

remove_categories(*categories=None, **kwargs*) → *None*

Delete one or more categories.

Parameters

categories (*Optional[Iterable[str]]*) – categories to delete

Return type*None*

class TorrentTags(**args, client, **kwargs*)

Bases: *ClientCache[TorrentsAPIMixin]*

Allows interaction with torrent tags within the “Torrent” API endpoints.

Usage:

```
>>> from qbittorrentapi import Client
>>> client = Client(host="localhost:8080", username="admin", password=
↳ "adminadmin")
>>> tags = client.torrent_tags.tags
>>> client.torrent_tags.tags = "tv show" # create category
>>> client.torrent_tags.create_tags(tags=["tv show", "linux distro"])
>>> client.torrent_tags.delete_tags(tags="tv show")
```

add_tags(*tags=None, torrent_hashes=None, **kwargs*) → *None*

Add one or more tags to one or more torrents.

Note: Tags that do not exist will be created on-the-fly.

This method was introduced with qBittorrent v4.2.0 (Web API v2.3.0).

Parameters

- **tags** (`Optional[Iterable[str]]`) – tag name or list of tags
- **torrent_hashes** (`Optional[Iterable[str]]`) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type

`None`

create_tags(*tags=None, **kwargs*) → `None`

Create one or more tags.

This method was introduced with qBittorrent v4.2.0 (Web API v2.3.0).

Parameters

tags (`Optional[Iterable[str]]`) – tag name or list of tags

Return type

`None`

delete_tags(*tags=None, **kwargs*) → `None`

Delete one or more tags.

This method was introduced with qBittorrent v4.2.0 (Web API v2.3.0).

Parameters

tags (`Optional[Iterable[str]]`) – tag name or list of tags

Return type

`None`

remove_tags(*tags=None, torrent_hashes=None, **kwargs*) → `None`

Add one or more tags to one or more torrents.

This method was introduced with qBittorrent v4.2.0 (Web API v2.3.0).

Parameters

- **tags** (`Optional[Iterable[str]]`) – tag name or list of tags
- **torrent_hashes** (`Optional[Iterable[str]]`) – single torrent hash or list of torrent hashes. Or all for all torrents.

Return type

`None`

property tags: `TagList`

Retrieve all tag definitions.

This method was introduced with qBittorrent v4.2.0 (Web API v2.3.0).

class TorrentPropertiesDictionary(*data=None, **kwargs*)

Bases: `Dictionary[Union[None, int, str, bool, Sequence[JsonValueT], Mapping[str, JsonValueT]]]`

Response to `torrents_properties()`

Definition: [https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-\(qBittorrent-4.1\)#user-content-get-torrent-generic-properties](https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-(qBittorrent-4.1)#user-content-get-torrent-generic-properties)


```

class TorrentLimitsDictionary(data=None, **kwargs)
    Bases: Dictionary[Union[None, int, str, bool, Sequence[JsonValueT], Mapping[str, JsonValueT]]]
    Response to torrents_download_limit()

class TorrentCategoriesDictionary(data=None, **kwargs)
    Bases: Dictionary[Union[None, int, str, bool, Sequence[JsonValueT], Mapping[str, JsonValueT]]]
    Response to torrents_categories()

class TorrentsAddPeersDictionary(data=None, **kwargs)
    Bases: Dictionary[Union[None, int, str, bool, Sequence[JsonValueT], Mapping[str, JsonValueT]]]
    Response to torrents_add_peers()

class TorrentFilesList(list_entries, client=None)
    Bases: List[TorrentFile]
    Response to torrents_files()

    Definition: https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-\(qBittorrent-4.1\)
    #user-content-get-torrent-contents

class TorrentFile(data=None, **kwargs)
    Bases: ListEntry
    Item in TorrentFilesList

class WebSeedsList(list_entries, client=None)
    Bases: List[WebSeed]
    Response to torrents_webseeds()

    Definition: https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-\(qBittorrent-4.1\)
    #user-content-get-torrent-web-seeds

class WebSeed(data=None, **kwargs)
    Bases: ListEntry
    Item in WebSeedsList

class TrackersList(list_entries, client=None)
    Bases: List[Tracker]
    Response to torrents_trackers()

    Definition: https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-\(qBittorrent-4.1\)
    #user-content-get-torrent-trackers

class Tracker(data=None, **kwargs)
    Bases: ListEntry
    Item in TrackersList

class TorrentInfoList(list_entries, client=None)
    Bases: List[TorrentDictionary]
    Response to torrents_info()

    Definition: https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-\(qBittorrent-4.1\)
    #user-content-get-torrent-list

```

```
class TorrentPieceInfoList(list_entries, client=None)
    Bases: List[TorrentPieceData]
    Response to torrents_piece_states() and torrents_piece_hashes()

class TorrentPieceData(data=None, **kwargs)
    Bases: ListEntry
    Item in TorrentPieceInfoList

class TagList(list_entries, client=None)
    Bases: List[Tag]
    Response to torrents_tags()

class Tag(data=None, **kwargs)
    Bases: ListEntry
    Item in TagList
```

Transfer

```
class TransferAPIMixin(host=None, port=None, username=None, password=None,
    EXTRA_HEADERS=None, REQUESTS_ARGS=None,
    VERIFY_WEBUI_CERTIFICATE=True, FORCE_SCHEME_FROM_HOST=False,
    RAISE_NOTIMPLEMENTEDERROR_FOR_UNIMPLEMENTED_API_ENDPOINTS=False,
    RAISE_ERROR_FOR_UNSUPPORTED_QBITTORRENT_VERSIONS=False,
    VERBOSE_RESPONSE_LOGGING=False, SIMPLE_RESPONSES=False,
    DISABLE_LOGGING_DEBUG_OUTPUT=False) → None
```

Bases: [AppAPIMixin](#)

Implementation of all Transfer API methods.

Usage

```
>>> from qbittorrentapi import Client
>>> client = Client(host="localhost:8080", username="admin", password=
↳ "adminadmin")
>>> transfer_info = client.transfer_info()
>>> client.transfer_set_download_limit(limit=1024000)
```

```
transfer_ban_peers(peers=None, **kwargs) → None
```

Ban one or more peers.

This method was introduced with qBittorrent v4.2.0 (Web API v2.3.0).

Parameters

peers ([Union](#)[[str](#), [Iterable](#)[[str](#)], [None](#)]) – one or more peers to ban. each peer should take the form ‘host:port’

Return type

[None](#)

```
transfer_download_limit(**kwargs) → int
```

Retrieves download limit; 0 is unlimited.

Return type

[int](#)

transfer_info(kwargs)** → *TransferInfoDictionary*

Retrieves the global transfer info found in qBittorrent status bar.

Return type

TransferInfoDictionary

transfer_setSpeedLimitsMode(intended_state=None, **kwargs) → *None*

Sets whether alternative speed limits are enabled.

Parameters

intended_state (*Optional*[*bool*]) – True to enable alt speed and False to disable. Leaving None will toggle the current state.

Return type

None

transfer_set_download_limit(limit=None, **kwargs) → *None*

Set the global download limit in bytes/second.

Parameters

limit (*UnionType*[*str*, *int*, *None*]) – download limit in bytes/second (0 or -1 for no limit)

Return type

None

transfer_set_speed_limits_mode(intended_state=None, **kwargs) → *None*

Sets whether alternative speed limits are enabled.

Parameters

intended_state (*Optional*[*bool*]) – True to enable alt speed and False to disable. Leaving None will toggle the current state.

Return type

None

transfer_set_upload_limit(limit=None, **kwargs) → *None*

Set the global download limit in bytes/second.

Parameters

limit (*UnionType*[*str*, *int*, *None*]) – upload limit in bytes/second (0 or -1 for no limit)

Return type

None

transfer_speed_limits_mode(kwargs)** → *str*

Returns 1 if alternative speed limits are currently enabled, 0 otherwise.

Return type

str

transfer_toggle_speed_limits_mode(intended_state=None, **kwargs) → *None*

Sets whether alternative speed limits are enabled.

Parameters

intended_state (*Optional*[*bool*]) – True to enable alt speed and False to disable. Leaving None will toggle the current state.

Return type

None

transfer_upload_limit(**kwargs) → int

Retrieves upload limit; 0 is unlimited.

Return type

int

class Transfer(*args, client, **kwargs)

Allows interaction with the Transfer API endpoints.

Usage

```
>>> from qbittorrentapi import Client
>>> client = Client(host="localhost:8080", username="admin", password=
↳ "adminadmin")
>>> # these are all the same attributes that are available as named in
↳ the
>>> # endpoints or the more pythonic names in Client (with or without
↳ 'transfer_' prepended)
>>> transfer_info = client.transfer.info
>>> # access and set download/upload limits as attributes
>>> dl_limit = client.transfer.download_limit
>>> # this updates qBittorrent in real-time
>>> client.transfer.download_limit = 1024000
>>> # update speed limits mode to alternate or not
>>> client.transfer.speedLimitsMode = True
```

ban_peers(peers=None, **kwargs) → None

Ban one or more peers.

This method was introduced with qBittorrent v4.2.0 (Web API v2.3.0).

Parameters

peers (Union[str, Iterable[str], None]) – one or more peers to ban. each peer should take the form 'host:port'

Return type

None

property download_limit: int

Retrieves download limit; 0 is unlimited.

property info: TransferInfoDictionary

Retrieves the global transfer info found in qBittorrent status bar.

set_download_limit(limit=None, **kwargs) → None

Set the global download limit in bytes/second.

Parameters

limit (UnionType[str, int, None]) – download limit in bytes/second (0 or -1 for no limit)

Return type

None

set_speed_limits_mode(intended_state=None, **kwargs) → None

Sets whether alternative speed limits are enabled.

Parameters

intended_state (Optional[bool]) – True to enable alt speed and False to disable. Leaving None will toggle the current state.

Return type`None`**set_upload_limit**(*limit=None*, ***kwargs*) → `None`

Set the global download limit in bytes/second.

Parameters**limit** (`UnionType[str, int, None]`) – upload limit in bytes/second (0 or -1 for no limit)**Return type**`None`**property speed_limits_mode:** `str`

Returns 1 if alternative speed limits are currently enabled, 0 otherwise.

toggle_speed_limits_mode(*intended_state=None*, ***kwargs*) → `None`

Sets whether alternative speed limits are enabled.

Parameters**intended_state** (`Optional[bool]`) – True to enable alt speed and False to disable. Leaving None will toggle the current state.**Return type**`None`**property upload_limit:** `int`

Retrieves upload limit; 0 is unlimited.

class TransferInfoDictionary(*data=None*, ***kwargs*)Bases: `Dictionary[Union[None, int, str, bool, Sequence[JsonValueT], Mapping[str, JsonValueT]]]`Response to `transfer_info()`Definition: [https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-\(qBittorrent-4.1\)#user-content-get-global-transfer-info](https://github.com/qbittorrent/qBittorrent/wiki/WebUI-API-(qBittorrent-4.1)#user-content-get-global-transfer-info)

Version

class Version

Allows introspection for whether this Client supports different versions of the qBittorrent application and its Web API.

Note that if a version is not listed as “supported” here, many (if not all) methods are likely to function properly since the Web API is largely backwards and forward compatible... albeit with some notable exceptions.

classmethod is_api_version_supported(*api_version*) → `bool`

Returns whether a version of the qBittorrent Web API is fully supported by this API client.

Parameters**api_version** (`str`) – version of qBittorrent Web API version such as 2.8.4**Return type**`bool`**Returns**

True or False for whether version is supported

classmethod `is_app_version_supported(app_version) → bool`

Returns whether a version of the qBittorrent application is fully supported by this API client.

Parameters

app_version (`str`) – version of qBittorrent application such as v4.4.0

Return type

`bool`

Returns

True or False for whether version is supported

classmethod `latest_supported_api_version() → str`

Returns the most recent version of qBittorrent Web API that is supported.

Return type

`str`

classmethod `latest_supported_app_version() → str`

Returns the most recent version of qBittorrent that is supported.

Return type

`str`

classmethod `supported_api_versions() → set[str]`

Set of all supported qBittorrent Web API versions.

Return type

`set[str]`

classmethod `supported_app_versions() → set[str]`

Set of all supported qBittorrent application versions.

Return type

`set[str]`

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