
OBS WebSocket RemoteControl Documentation

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CHAPTER 1

Introduction

What's this?

obs-ws-rc is a Python 3.5+ library that allows you to establish client connections to the **obs-websocket** plugin for OBS Studio.

It's based on **asyncio**-approach which it inherited from the underlying WebSocket library - [websockets](#)

Performing requests

Firstly, **obs-websocket**'s protocol provides you with the ability to send *requests* and retrieve *responses* to and from OBS Studio.

Let's see how it's done with **obs-ws-rc**:

```
"""Example shows how to send requests and get responses."""

import asyncio

from obswsrsrc import OBSWS
from obswsrsrc.requests import ResponseStatus, StartStreamingRequest
from obswsrsrc.types import Stream, StreamSettings

async def main():

    async with OBSWS('localhost', 4444, "password") as obsws:

        # We can send an empty StartStreaming request (in that case the plugin
        # will use OBS configuration), but let's provide some settings as well
        stream_settings = StreamSettings(
            server="rtmp://example.org/my_application",
            key="secret_stream_key",
```

```
        use_auth=False
    )
    stream = Stream(
        settings=stream_settings,
        type="rtmp_custom",
    )

    # Now let's actually perform a request
    response = await obsws.require(StartStreamingRequest(stream=stream))

    # Check if everything is OK
    if response.status == ResponseStatus.OK:
        print("Streaming has started")
    else:
        print("Couldn't start the stream! Reason:", response.error)

loop = asyncio.get_event_loop()
loop.run_until_complete(main())
loop.close()
```

Listening to events

Secondly, the plugin sends *events* from time to time. This library lets you listen to these events and handle them:

```
"""Example shows how to listen to events."""

import asyncio
import logging
import sys

from obswsrc import OBSWS
from obswsrc.logs import logger

# We will output logging to sys.stdout, as many events might raise errors
# on creation (that's because protocol.json is not perfect) - such errors
# are logged by obs-ws-rc automatically, we just need to see them
logger.setLevel(logging.ERROR)
logger.addHandler(logging.StreamHandler(stream=sys.stdout))

async def main():

    async with OBSWS('localhost', 4444, "password") as obsws:

        print("Connection established.")

        # We will receive events here by awaiting for them (you can await for
        # an event of a specific type by providing `type_name` argument to
        # the obsws.event() method)
        event = await obsws.event()

        # Awaited event might be None if connection is closed
        while event is not None:
            print("Awaited for '{}' event!".format(event.type_name))
```

```
        event = await obsws.event()

        print("Connection terminated.")

loop = asyncio.get_event_loop()
loop.run_until_complete(main())
loop.close()
```

Protocol description

The protocol *requests*, *responses* and *events* are declared in the [PROTOCOL.md](#) by the authors of the **obs-websocket** plugin.

However, there are minor mistakes in that file. And the field naming of the original protocol is inconsistent. For example, there're fields like `authRequired`, at the same time there're plenty of fields that use a hyphen as a word separator (like `kbits-per-sec`).

This library internally maps such fields to more pythonic names (`auth_required` and `kbits_per_sec` as such) - that allows for convenient passing fields as keyword arguments.

The version of the protocol used by this library can be found in `./obswsrc/protocol.json`.

Package: obswsrc

Submodules

obswsrc.client module

exception obswsrc.client.**AuthError**

Bases: Exception

Raised by *OBSWS.connect()* if authentication has failed.

class obswsrc.client.**OBSWS** (*host, port=4444, password=None, *, skip_auth=False, loop=None*)

Bases: object

Main class used for obs-websocket communication. Can be used as a context manager (given you use it in `async with` statement).

Example usage:

```
async with OBSWS("localhost") as obsws:
    ...
```

This is an equivalent to the following:

```
obsws = OBSWS("localhost")
await obsws.connect()

try:
    ...
finally:
    await obsws.close()
```

This class also supports Future-like protocol (it implements `__await__()` method). You can await for the OBSWS instance for it to close:

```
await obsws
```

Note: When entering the context manager (using `async with` statement), you should be ready to except `AuthError` that might raise due to failed auth, or `OSError` that can be raised by the underlying websockets library in case of being unable to connect to OBS Studio.

See also:

`connect()` `close()`

Parameters

- **host** (*str*) – Server host
- **port** (*int*) – Server port
- **password** (*str/None*) – Server password (if needed)
- **skip_auth** (*bool*) – Whether or not to skip authentication
- **loop** (*asyncio.AbstractEventLoop/None*) – Event loop to use

close()

Clean shutdown. Consequent calls on an already closed instance have not effect.

Note: This method is a coroutine.

closed

Return whether or not this OBSWS instance is closed.

connect()

Establish connection to the server, start the event loop and perform authentication (the latter can be skipped with `skip_auth` argument in `__init__()`).

Raises

- **ValueError** – if already connected
- **AuthError** – if auth is enabled but password is invalid or not set
- **OSError** – raised by the underlying websockets library if connection attempt is failed

Note: This method is a coroutine.

event (*type_name=None*)

Return a future that, when awaited for, returns an event of type `type_name`. If `type_name` is `None`, the future result will be the first occurred event. If connection is closed while future is not done, the future result is `None`.

Parameters **type_name** (*str/None*) – Event type to await for, `None` to await for an event of any type

Returns Future

Return type `asyncio.Future`

Raises **ValueError** – if not connected

Changed in version 2.3.0: This method is not a coroutine now, but it returns a `asyncio.Future` object.

host

The host that OBSWS was instantiated with (read-only).

Returns Server host

Return type str

password

The port that OBSWS was instantiated with (read-only).

Returns Server password (None if not given)

Return type str|None

port

The port that OBSWS was instantiated with (read-only).

Returns Server port

Return type int

register_event_handler (*type_name*, *callback*)

Register event handler (either a regular one or an async-coroutine).

Parameters

- **type_name** – Event name
- **callback** (*callable*) – Function or coroutine function

Raises **ValueError** – if callback is already registered for the event

Deprecated since version 2.2: Use `event()` instead.

require (*request*)

Send a request to the server and await, return the response.

Parameters **request** (`requests.BaseRequest`) – Fully formed request

Returns Response from the server (None if the connection was closed during communication)

Return type requests.BaseResponse|None

Raises **ValueError** – if not connected

Note: This method is a coroutine.

unregister_event_handler (*type_name*, *callback*)

Unregister previously registered event handler.

Parameters

- **type_name** – Event name
- **callback** (*callable*) – Function or coroutine function

Deprecated since version 2.2: Use `event()` instead.

obswsrsrc.events module

This module holds dynamically generated classes. For more info see `protocol.py` and `protocol.json`.

```
class obswsrc.events.BaseEvent (*args, **kwargs)
    Bases: obswsrc.struct.Struct

    type_name

class obswsrc.events.BaseEventMeta (name, bases, namespace)
    Bases: obswsrc.struct.StructMeta
```

obswsrc.protocol module

```
exception obswsrc.protocol.UnknownType
    Bases: Exception

obswsrc.protocol.build_events (protocol, known_types)
obswsrc.protocol.build_requests (protocol, known_types)
obswsrc.protocol.build_types (protocol)
```

obswsrc.requests module

This module holds dynamically generated classes. For more info see protocol.py and protocol.json.

```
class obswsrc.requests.BaseRequest (*args, **kwargs)
    Bases: obswsrc.struct.Struct

    get_request_data (message_id)

    class response_class (*args, **kwargs)
        Bases: obswsrc.requests.BaseResponse

        BaseRequest.type_name

class obswsrc.requests.BaseResponse (*args, **kwargs)
    Bases: obswsrc.struct.Struct

class obswsrc.requests.BaseResponseMeta (name, bases, namespace)
    Bases: obswsrc.struct.StructMeta

class obswsrc.requests.ResponseStatus
    Bases: enum.Enum

    An enumeration.

    ERROR = 'ERROR'

    OK = 'OK'

obswsrc.requests.dummy_request (**kwargs)
```

obswsrc.struct module

```
class obswsrc.struct.BaseStruct
    Bases: dict

class obswsrc.struct.Struct (*args, **kwargs)
    Bases: obswsrc.struct.BaseStruct
```

```
class obswsrc.struct.StructField(attr_name, field_name, value_type, optional=False)  
    Bases: object  
  
class obswsrc.struct.StructMeta(name, bases, namespace)  
    Bases: type  
  
class obswsrc.struct.VariableStruct(**kwargs)  
    Bases: obswsrc.struct.BaseStruct
```

obswsrc.types module

This module holds dynamically generated classes. For more info see protocol.py and protocol.json.

Types

bool

- **Style:** This type is native to Python

float

- **Style:** This type is native to Python

int

- **Style:** This type is native to Python

str

- **Style:** This type is native to Python

Font

- **Style:** This type contains statically typed fields
- **Fields:**
 - FACE
 - * **type:** *str*
 - * **pythonic name:** *face*

- * **internal name:** *face*
- * **is optional?** Yes
- FLAGS
 - * **type:** *int*
 - * **pythonic name:** *flags*
 - * **internal name:** *flags*
 - * **is optional?** Yes
- SIZE
 - * **type:** *int*
 - * **pythonic name:** *size*
 - * **internal name:** *size*
 - * **is optional?** Yes
- STYLE
 - * **type:** *str*
 - * **pythonic name:** *style*
 - * **internal name:** *style*
 - * **is optional?** Yes

Profile

- **Style:** This type contains statically typed fields
- **Fields:**
 - PROFILE NAME
 - * **type:** *str*
 - * **pythonic name:** *profile_name*
 - * **internal name:** *profile-name*
 - * **is optional?** No

profile_list

- **Style:** This type represents a list of objects of other type
- **Item type:** *Profile*

scene_collection_list

- **Style:** This type represents a list of objects of other type
- **Item type:** *SceneCollection*

scene_list

- **Style:** This type represents a list of objects of other type
- **Item type:** *source_list*

SceneCollection

- **Style:** This type contains statically typed fields
- **Fields:**
 - SC NAME
 - * **type:** *str*
 - * **pythonic name:** `sc_name`
 - * **internal name:** *sc-name*
 - * **is optional?** No

SceneSource

- **Style:** This type contains statically typed fields
- **Fields:**
 - NAME
 - * **type:** *str*
 - * **pythonic name:** `name`
 - * **internal name:** *name*
 - * **is optional?** No
 - TYPE
 - * **type:** *str*
 - * **pythonic name:** `type`
 - * **internal name:** *type*
 - * **is optional?** No
 - VOLUME
 - * **type:** *float*
 - * **pythonic name:** `volume`
 - * **internal name:** *volume*
 - * **is optional?** No
 - X
 - * **type:** *float*
 - * **pythonic name:** `x`
 - * **internal name:** *x*

- * **is optional?** No
- Y
 - * **type:** *float*
 - * **pythonic name:** *y*
 - * **internal name:** *y*
 - * **is optional?** No
- SOURCE CX
 - * **type:** *int*
 - * **pythonic name:** *source_cx*
 - * **internal name:** *source_cx*
 - * **is optional?** No
- SOURCE CY
 - * **type:** *int*
 - * **pythonic name:** *source_cy*
 - * **internal name:** *source_cy*
 - * **is optional?** No
- CX
 - * **type:** *float*
 - * **pythonic name:** *cx*
 - * **internal name:** *cx*
 - * **is optional?** No
- CY
 - * **type:** *float*
 - * **pythonic name:** *cy*
 - * **internal name:** *cy*
 - * **is optional?** No
- RENDER
 - * **type:** *bool*
 - * **pythonic name:** *render*
 - * **internal name:** *render*
 - * **is optional?** No

source_list

- **Style:** This type represents a list of objects of other type
- **Item type:** *SceneSource*

Stream

- **Style:** This type contains statically typed fields
- **Fields:**
 - SETTINGS
 - * **type:** *StreamSettings*
 - * **pythonic name:** `settings`
 - * **internal name:** *settings*
 - * **is optional?** Yes
 - TYPE
 - * **type:** *str*
 - * **pythonic name:** `type`
 - * **internal name:** *type*
 - * **is optional?** Yes
 - METADATA
 - * **type:** *StreamMetadata*
 - * **pythonic name:** `metadata`
 - * **internal name:** *metadata*
 - * **is optional?** Yes

StreamMetadata

- **Style:** The number and types of the fields can vary
- **Allowed types:** *str float int bool*

StreamSettings

- **Style:** This type contains statically typed fields
- **Fields:**
 - SERVER
 - * **type:** *str*
 - * **pythonic name:** `server`
 - * **internal name:** *server*
 - * **is optional?** Yes
 - KEY
 - * **type:** *str*
 - * **pythonic name:** `key`
 - * **internal name:** *key*

- * **is optional?** Yes
- USE AUTH
 - * **type:** *bool*
 - * **pythonic name:** `use_auth`
 - * **internal name:** *use-auth*
 - * **is optional?** Yes
- USERNAME
 - * **type:** *str*
 - * **pythonic name:** `username`
 - * **internal name:** *username*
 - * **is optional?** Yes
- PASSWORD
 - * **type:** *str*
 - * **pythonic name:** `password`
 - * **internal name:** *password*
 - * **is optional?** Yes

Transition

- **Style:** This type contains statically typed fields
- **Fields:**
 - NAME
 - * **type:** *str*
 - * **pythonic name:** `name`
 - * **internal name:** *name*
 - * **is optional?** Yes
 - DURATION
 - * **type:** *int*
 - * **pythonic name:** `duration`
 - * **internal name:** *duration*
 - * **is optional?** Yes

transition_name_list

- **Style:** This type represents a list of objects of other type
- **Item type:** *TransitionName*

TransitionName

- **Style:** This type contains statically typed fields
- **Fields:**
 - NAME
 - * **type:** *str*
 - * **pythonic name:** *name*
 - * **internal name:** *name*
 - * **is optional?** No

Requests

Authenticate

- **Description:** view [PROTOCOL.md](#) entry on ‘Authenticate’
- **Request Fields:**
 - AUTH
 - * **type:** *str*
 - * **pythonic name:** *auth*
 - * **internal name:** *auth*
 - * **is optional?** No
- **Response Fields:**

DisableStudioMode

- **Description:** view [PROTOCOL.md](#) entry on ‘DisableStudioMode’
- **Request Fields:**
- **Response Fields:**

EnableStudioMode

- **Description:** view [PROTOCOL.md](#) entry on ‘EnableStudioMode’
- **Request Fields:**
- **Response Fields:**

GetAuthRequired

- **Description:** view [PROTOCOL.md](#) entry on ‘GetAuthRequired’
- **Request Fields:**
- **Response Fields:**

- AUTH REQUIRED
 - * **type:** *bool*
 - * **pythonic name:** `auth_required`
 - * **internal name:** *authRequired*
 - * **is optional?** No
- CHALLENGE
 - * **type:** *str*
 - * **pythonic name:** `challenge`
 - * **internal name:** *challenge*
 - * **is optional?** Yes
- SALT
 - * **type:** *str*
 - * **pythonic name:** `salt`
 - * **internal name:** *salt*
 - * **is optional?** Yes

GetCurrentProfile

- **Description:** view [PROTOCOL.md](#) entry on ‘GetCurrentProfile’
- **Request Fields:**
- **Response Fields:**
 - PROFILE NAME
 - * **type:** *str*
 - * **pythonic name:** `profile_name`
 - * **internal name:** *profile-name*
 - * **is optional?** No

GetCurrentScene

- **Description:** view [PROTOCOL.md](#) entry on ‘GetCurrentScene’
- **Request Fields:**
- **Response Fields:**
 - NAME
 - * **type:** *str*
 - * **pythonic name:** `name`
 - * **internal name:** *name*
 - * **is optional?** No
 - SOURCES

- * **type:** *source_list*
- * **pythonic name:** *sources*
- * **internal name:** *sources*
- * **is optional?** No

GetCurrentSceneCollection

- **Description:** view [PROTOCOL.md](#) entry on ‘GetCurrentSceneCollection’
- **Request Fields:**
- **Response Fields:**
 - SC NAME
 - * **type:** *str*
 - * **pythonic name:** *sc_name*
 - * **internal name:** *sc-name*
 - * **is optional?** No

GetCurrentTransition

- **Description:** view [PROTOCOL.md](#) entry on ‘GetCurrentTransition’
- **Request Fields:**
- **Response Fields:**
 - NAME
 - * **type:** *str*
 - * **pythonic name:** *name*
 - * **internal name:** *name*
 - * **is optional?** No
 - DURATION
 - * **type:** *int*
 - * **pythonic name:** *duration*
 - * **internal name:** *duration*
 - * **is optional?** Yes

GetMute

- **Description:** view [PROTOCOL.md](#) entry on ‘GetMute’
- **Request Fields:**
 - SOURCE
 - * **type:** *str*

- * **pythonic name:** `source`
- * **internal name:** `source`
- * **is optional?** No
- **Response Fields:**
 - NAME
 - * **type:** `str`
 - * **pythonic name:** `name`
 - * **internal name:** `name`
 - * **is optional?** No
 - MUTED
 - * **type:** `bool`
 - * **pythonic name:** `muted`
 - * **internal name:** `muted`
 - * **is optional?** No

GetPreviewScene

- **Description:** view [PROTOCOL.md](#) entry on ‘GetPreviewScene’
- **Request Fields:**
- **Response Fields:**
 - NAME
 - * **type:** `str`
 - * **pythonic name:** `name`
 - * **internal name:** `name`
 - * **is optional?** No
 - SOURCES
 - * **type:** `source_list`
 - * **pythonic name:** `sources`
 - * **internal name:** `sources`
 - * **is optional?** No

GetRecordingFolder

- **Description:** view [PROTOCOL.md](#) entry on ‘GetRecordingFolder’
- **Request Fields:**
- **Response Fields:**
 - REC FOLDER
 - * **type:** `str`

- * **pythonic name:** `rec_folder`
- * **internal name:** `rec-folder`
- * **is optional?** No

GetSceneList

- **Description:** view [PROTOCOL.md](#) entry on ‘GetSceneList’
- **Request Fields:**
- **Response Fields:**
 - CURRENT SCENE
 - * **type:** `str`
 - * **pythonic name:** `current_scene`
 - * **internal name:** `current-scene`
 - * **is optional?** No
 - SCENES
 - * **type:** `scene_list`
 - * **pythonic name:** `scenes`
 - * **internal name:** `scenes`
 - * **is optional?** No

GetSpecialSources

- **Description:** view [PROTOCOL.md](#) entry on ‘GetSpecialSources’
- **Request Fields:**
- **Response Fields:**
 - DESKTOP1
 - * **type:** `str`
 - * **pythonic name:** `desktop1`
 - * **internal name:** `desktop-1`
 - * **is optional?** Yes
 - DESKTOP2
 - * **type:** `str`
 - * **pythonic name:** `desktop2`
 - * **internal name:** `desktop-2`
 - * **is optional?** Yes
 - MIC1
 - * **type:** `str`
 - * **pythonic name:** `mic1`

- * **internal name:** *mic-1*
- * **is optional?** Yes
- MIC2
 - * **type:** *str*
 - * **pythonic name:** `mic2`
 - * **internal name:** *mic-2*
 - * **is optional?** Yes
- MIC3
 - * **type:** *str*
 - * **pythonic name:** `mic3`
 - * **internal name:** *mic-3*
 - * **is optional?** Yes

GetStreamingStatus

- **Description:** view [PROTOCOL.md](#) entry on ‘GetStreamingStatus’
- **Request Fields:**
- **Response Fields:**
 - STREAMING
 - * **type:** *bool*
 - * **pythonic name:** `streaming`
 - * **internal name:** *streaming*
 - * **is optional?** No
 - RECORDING
 - * **type:** *bool*
 - * **pythonic name:** `recording`
 - * **internal name:** *recording*
 - * **is optional?** No
 - STREAM TIMECODE
 - * **type:** *str*
 - * **pythonic name:** `stream_timecode`
 - * **internal name:** *stream-timecode*
 - * **is optional?** Yes
 - REC TIMECODE
 - * **type:** *str*
 - * **pythonic name:** `rec_timecode`
 - * **internal name:** *rec-timecode*

- * **is optional?** Yes
- PREVIEW ONLY
 - * **type:** *bool*
 - * **pythonic name:** `preview_only`
 - * **internal name:** *preview-only*
 - * **is optional?** No

GetStreamSettings

- **Description:** view [PROTOCOL.md](#) entry on ‘GetStreamSettings’
- **Request Fields:**
- **Response Fields:**
 - TYPE
 - * **type:** *str*
 - * **pythonic name:** `type`
 - * **internal name:** *type*
 - * **is optional?** No
 - SETTINGS
 - * **type:** *StreamSettings*
 - * **pythonic name:** `settings`
 - * **internal name:** *settings*
 - * **is optional?** No

GetStudioModeStatus

- **Description:** view [PROTOCOL.md](#) entry on ‘GetStudioModeStatus’
- **Request Fields:**
- **Response Fields:**
 - STUDIO MODE
 - * **type:** *bool*
 - * **pythonic name:** `studio_mode`
 - * **internal name:** *studio-mode*
 - * **is optional?** No

GetTextGDIPlusProperties

- **Description:** view [PROTOCOL.md](#) entry on ‘GetTextGDIPlusProperties’

- **Request Fields:**

- SOURCE
 - * **type:** *str*
 - * **pythonic name:** `source`
 - * **internal name:** *source*
 - * **is optional?** No
- SCENE NAME
 - * **type:** *str*
 - * **pythonic name:** `scene_name`
 - * **internal name:** *scene-name*
 - * **is optional?** Yes

- **Response Fields:**

- ALIGN
 - * **type:** *str*
 - * **pythonic name:** `align`
 - * **internal name:** *align*
 - * **is optional?** No
- BK COLOR
 - * **type:** *int*
 - * **pythonic name:** `bk_color`
 - * **internal name:** *bk_color*
 - * **is optional?** No
- BK OPACITY
 - * **type:** *int*
 - * **pythonic name:** `bk_opacity`
 - * **internal name:** *bk_opacity*
 - * **is optional?** No
- CHATLOG
 - * **type:** *bool*
 - * **pythonic name:** `chatlog`
 - * **internal name:** *chatlog*
 - * **is optional?** No
- CHATLOG LINES
 - * **type:** *int*

- * **pythonic name:** `chatlog_lines`
- * **internal name:** `chatlog_lines`
- * **is optional?** No
- COLOR
 - * **type:** `int`
 - * **pythonic name:** `color`
 - * **internal name:** `color`
 - * **is optional?** No
- EXTENTS
 - * **type:** `bool`
 - * **pythonic name:** `extents`
 - * **internal name:** `extents`
 - * **is optional?** No
- EXTENTS WRAP
 - * **type:** `bool`
 - * **pythonic name:** `extents_wrap`
 - * **internal name:** `extents_wrap`
 - * **is optional?** No
- EXTENTS CX
 - * **type:** `int`
 - * **pythonic name:** `extents_cx`
 - * **internal name:** `extents_cx`
 - * **is optional?** No
- EXTENTS CY
 - * **type:** `int`
 - * **pythonic name:** `extents_cy`
 - * **internal name:** `extents_cy`
 - * **is optional?** No
- FILE
 - * **type:** `str`
 - * **pythonic name:** `file`
 - * **internal name:** `file`
 - * **is optional?** No
- READ FROM FILE
 - * **type:** `bool`
 - * **pythonic name:** `read_from_file`

- * **internal name:** *read_from_file*
 - * **is optional?** No
- FONT
 - * **type:** *Font*
 - * **pythonic name:** *font*
 - * **internal name:** *font*
 - * **is optional?** No
- GRADIENT
 - * **type:** *bool*
 - * **pythonic name:** *gradient*
 - * **internal name:** *gradient*
 - * **is optional?** No
- GRADIENT COLOR
 - * **type:** *int*
 - * **pythonic name:** *gradient_color*
 - * **internal name:** *gradient_color*
 - * **is optional?** No
- GRADIENT DIR
 - * **type:** *float*
 - * **pythonic name:** *gradient_dir*
 - * **internal name:** *gradient_dir*
 - * **is optional?** No
- GRADIENT OPACITY
 - * **type:** *int*
 - * **pythonic name:** *gradient_opacity*
 - * **internal name:** *gradient_opacity*
 - * **is optional?** No
- OUTLINE
 - * **type:** *bool*
 - * **pythonic name:** *outline*
 - * **internal name:** *outline*
 - * **is optional?** No
- OUTLINE COLOR
 - * **type:** *int*
 - * **pythonic name:** *outline_color*
 - * **internal name:** *outline_color*

- * **is optional?** No
- OUTLINE SIZE
 - * **type:** *int*
 - * **pythonic name:** `outline_size`
 - * **internal name:** *outline_size*
 - * **is optional?** No
- OUTLINE OPACITY
 - * **type:** *int*
 - * **pythonic name:** `outline_opacity`
 - * **internal name:** *outline_opacity*
 - * **is optional?** No
- TEXT
 - * **type:** *str*
 - * **pythonic name:** `text`
 - * **internal name:** *text*
 - * **is optional?** No
- VALIGN
 - * **type:** *bool*
 - * **pythonic name:** `valign`
 - * **internal name:** *valign*
 - * **is optional?** No
- VERTICAL
 - * **type:** *bool*
 - * **pythonic name:** `vertical`
 - * **internal name:** *vertical*
 - * **is optional?** No
- RENDER
 - * **type:** *bool*
 - * **pythonic name:** `render`
 - * **internal name:** *render*
 - * **is optional?** No

GetTransitionDuration

- **Description:** view [PROTOCOL.md](#) entry on 'GetTransitionDuration'
- **Request Fields:**
- **Response Fields:**

- TRANSITION DURATION
 - * **type:** *int*
 - * **pythonic name:** `transition_duration`
 - * **internal name:** *transition-duration*
 - * **is optional?** No

GetTransitionList

- **Description:** view [PROTOCOL.md](#) entry on ‘GetTransitionList’
- **Request Fields:**
- **Response Fields:**
 - CURRENT TRANSITION
 - * **type:** *str*
 - * **pythonic name:** `current_transition`
 - * **internal name:** *current-transition*
 - * **is optional?** No
 - TRANSITIONS
 - * **type:** *transition_name_list*
 - * **pythonic name:** `transitions`
 - * **internal name:** *transitions*
 - * **is optional?** No

GetVersion

- **Description:** view [PROTOCOL.md](#) entry on ‘GetVersion’
- **Request Fields:**
- **Response Fields:**
 - VERSION
 - * **type:** *float*
 - * **pythonic name:** `version`
 - * **internal name:** *version*
 - * **is optional?** No
 - OBS WEBSOCKET VERSION
 - * **type:** *str*
 - * **pythonic name:** `obs_websocket_version`
 - * **internal name:** *obs-websocket-version*
 - * **is optional?** No
 - OBS STUDIO VERSION

- * **type:** *str*
- * **pythonic name:** `obs_studio_version`
- * **internal name:** *obs-studio-version*
- * **is optional?** No

GetVolume

- **Description:** view [PROTOCOL.md](#) entry on ‘GetVolume’
- **Request Fields:**
 - SOURCE
 - * **type:** *str*
 - * **pythonic name:** `source`
 - * **internal name:** *source*
 - * **is optional?** No
- **Response Fields:**
 - NAME
 - * **type:** *str*
 - * **pythonic name:** `name`
 - * **internal name:** *name*
 - * **is optional?** No
 - VOLUME
 - * **type:** *float*
 - * **pythonic name:** `volume`
 - * **internal name:** *volume*
 - * **is optional?** No
 - MUTED
 - * **type:** *bool*
 - * **pythonic name:** `muted`
 - * **internal name:** *muted*
 - * **is optional?** No

ListProfiles

- **Description:** view [PROTOCOL.md](#) entry on ‘ListProfiles’
- **Request Fields:**
- **Response Fields:**
 - PROFILES
 - * **type:** *profile_list*

- * **pythonic name:** `profiles`
- * **internal name:** `profiles`
- * **is optional?** No

ListSceneCollections

- **Description:** view [PROTOCOL.md](#) entry on ‘ListSceneCollections’
- **Request Fields:**
- **Response Fields:**
 - SCENE COLLECTIONS
 - * **type:** `scene_collection_list`
 - * **pythonic name:** `scene_collections`
 - * **internal name:** `scene-collections`
 - * **is optional?** No

SaveStreamSettings

- **Description:** view [PROTOCOL.md](#) entry on ‘SaveStreamSettings’
- **Request Fields:**
- **Response Fields:**

SetCurrentProfile

- **Description:** view [PROTOCOL.md](#) entry on ‘SetCurrentProfile’
- **Request Fields:**
 - PROFILE NAME
 - * **type:** `str`
 - * **pythonic name:** `profile_name`
 - * **internal name:** `profile-name`
 - * **is optional?** No
- **Response Fields:**

SetCurrentScene

- **Description:** view [PROTOCOL.md](#) entry on ‘SetCurrentScene’
- **Request Fields:**
 - SCENE NAME
 - * **type:** `str`
 - * **pythonic name:** `scene_name`

- * **internal name:** *scene-name*
 - * **is optional?** No
- **Response Fields:**

SetCurrentSceneCollection

- **Description:** view [PROTOCOL.md](#) entry on ‘SetCurrentSceneCollection’
- **Request Fields:**
 - SC NAME
 - * **type:** *str*
 - * **pythonic name:** `sc_name`
 - * **internal name:** *sc-name*
 - * **is optional?** No
- **Response Fields:**

SetCurrentTransition

- **Description:** view [PROTOCOL.md](#) entry on ‘SetCurrentTransition’
- **Request Fields:**
 - TRANSITION NAME
 - * **type:** *str*
 - * **pythonic name:** `transition_name`
 - * **internal name:** *transition-name*
 - * **is optional?** No
- **Response Fields:**

SetMute

- **Description:** view [PROTOCOL.md](#) entry on ‘SetMute’
- **Request Fields:**
 - SOURCE
 - * **type:** *str*
 - * **pythonic name:** `source`
 - * **internal name:** *source*
 - * **is optional?** No
 - MUTE
 - * **type:** *bool*
 - * **pythonic name:** `mute`

- * **internal name:** *mute*
 - * **is optional?** No
- **Response Fields:**

SetPreviewScene

- **Description:** view [PROTOCOL.md](#) entry on ‘SetPreviewScene’
- **Request Fields:**
 - SCENE NAME
 - * **type:** *str*
 - * **pythonic name:** `scene_name`
 - * **internal name:** *scene-name*
 - * **is optional?** No
- **Response Fields:**

SetRecordingFolder

- **Description:** view [PROTOCOL.md](#) entry on ‘SetRecordingFolder’
- **Request Fields:**
 - REC FOLDER
 - * **type:** *str*
 - * **pythonic name:** `rec_folder`
 - * **internal name:** *rec-folder*
 - * **is optional?** No
- **Response Fields:**

SetSceneItemCrop

- **Description:** view [PROTOCOL.md](#) entry on ‘SetSceneItemCrop’
- **Request Fields:**
 - ITEM
 - * **type:** *str*
 - * **pythonic name:** `item`
 - * **internal name:** *item*
 - * **is optional?** No
 - SCENE NAME
 - * **type:** *str*
 - * **pythonic name:** `scene_name`

- * **internal name:** *scene-name*
- * **is optional?** No
- TOP
 - * **type:** *int*
 - * **pythonic name:** `top`
 - * **internal name:** *top*
 - * **is optional?** No
- BOTTOM
 - * **type:** *int*
 - * **pythonic name:** `bottom`
 - * **internal name:** *bottom*
 - * **is optional?** No
- LEFT
 - * **type:** *int*
 - * **pythonic name:** `left`
 - * **internal name:** *left*
 - * **is optional?** No
- RIGHT
 - * **type:** *int*
 - * **pythonic name:** `right`
 - * **internal name:** *right*
 - * **is optional?** No
- **Response Fields:**

SetSceneItemPosition

- **Description:** [view PROTOCOL.md entry on ‘SetSceneItemPosition’](#)
- **Request Fields:**
 - ITEM
 - * **type:** *str*
 - * **pythonic name:** `item`
 - * **internal name:** *item*
 - * **is optional?** No
 - X
 - * **type:** *float*
 - * **pythonic name:** `x`
 - * **internal name:** *x*

- * is optional? No
- Y
 - * type: *float*
 - * pythonic name: *y*
 - * internal name: *y*
 - * is optional? No
- SCENE NAME
 - * type: *str*
 - * pythonic name: *scene_name*
 - * internal name: *scene-name*
 - * is optional? No

- **Response Fields:**

SetSceneItemTransform

- **Description:** view [PROTOCOL.md](#) entry on ‘SetSceneItemTransform’
- **Request Fields:**

- ITEM
 - * type: *str*
 - * pythonic name: *item*
 - * internal name: *item*
 - * is optional? No
- X SCALE
 - * type: *float*
 - * pythonic name: *x_scale*
 - * internal name: *x-scale*
 - * is optional? No
- Y SCALE
 - * type: *float*
 - * pythonic name: *y_scale*
 - * internal name: *y-scale*
 - * is optional? No
- ROTATION
 - * type: *float*
 - * pythonic name: *rotation*
 - * internal name: *rotation*
 - * is optional? No

- SCENE NAME
 - * **type:** *str*
 - * **pythonic name:** `scene_name`
 - * **internal name:** *scene-name*
 - * **is optional?** No

- **Response Fields:**

SetSourceRender

- **Description:** view [PROTOCOL.md](#) entry on ‘SetSourceRender’

- **Request Fields:**

- SOURCE
 - * **type:** *str*
 - * **pythonic name:** `source`
 - * **internal name:** *source*
 - * **is optional?** No
- RENDER
 - * **type:** *bool*
 - * **pythonic name:** `render`
 - * **internal name:** *render*
 - * **is optional?** No
- SCENE NAME
 - * **type:** *str*
 - * **pythonic name:** `scene_name`
 - * **internal name:** *scene-name*
 - * **is optional?** Yes

- **Response Fields:**

SetStreamSettings

- **Description:** view [PROTOCOL.md](#) entry on ‘SetStreamSettings’

- **Request Fields:**

- TYPE
 - * **type:** *str*
 - * **pythonic name:** `type`
 - * **internal name:** *type*
 - * **is optional?** No
- SETTINGS

- * **type:** *StreamSettings*
- * **pythonic name:** *settings*
- * **internal name:** *settings*
- * **is optional?** No
- SAVE
 - * **type:** *bool*
 - * **pythonic name:** *save*
 - * **internal name:** *save*
 - * **is optional?** No
- **Response Fields:**
 - TYPE
 - * **type:** *str*
 - * **pythonic name:** *type*
 - * **internal name:** *type*
 - * **is optional?** No
 - SETTINGS
 - * **type:** *StreamSettings*
 - * **pythonic name:** *settings*
 - * **internal name:** *settings*
 - * **is optional?** No

SetTransitionDuration

- **Description:** view [PROTOCOL.md](#) entry on ‘SetTransitionDuration’
- **Request Fields:**
 - DURATION
 - * **type:** *int*
 - * **pythonic name:** *duration*
 - * **internal name:** *duration*
 - * **is optional?** No
- **Response Fields:**

SetVolume

- **Description:** view [PROTOCOL.md](#) entry on ‘SetVolume’
- **Request Fields:**
 - SOURCE
 - * **type:** *str*

- * **pythonic name:** `source`
- * **internal name:** `source`
- * **is optional?** No
- VOLUME
 - * **type:** *float*
 - * **pythonic name:** `volume`
 - * **internal name:** `volume`
 - * **is optional?** No
- **Response Fields:**

StartRecording

- **Description:** view [PROTOCOL.md](#) entry on ‘StartRecording’
- **Request Fields:**
- **Response Fields:**

StartStopRecording

- **Description:** view [PROTOCOL.md](#) entry on ‘StartStopRecording’
- **Request Fields:**
 - STREAM
 - * **type:** *Stream*
 - * **pythonic name:** `stream`
 - * **internal name:** `stream`
 - * **is optional?** Yes
- **Response Fields:**

StartStopStreaming

- **Description:** view [PROTOCOL.md](#) entry on ‘StartStopStreaming’
- **Request Fields:**
- **Response Fields:**

StartStreaming

- **Description:** view [PROTOCOL.md](#) entry on ‘StartStreaming’
- **Request Fields:**
 - STREAM
 - * **type:** *Stream*

- * **pythonic name:** `stream`
- * **internal name:** `stream`
- * **is optional?** Yes

- **Response Fields:**

StopRecording

- **Description:** view [PROTOCOL.md](#) entry on ‘StopRecording’
- **Request Fields:**
- **Response Fields:**

StopStreaming

- **Description:** view [PROTOCOL.md](#) entry on ‘StopStreaming’
- **Request Fields:**
- **Response Fields:**

ToggleMute

- **Description:** view [PROTOCOL.md](#) entry on ‘ToggleMute’
- **Request Fields:**
 - SOURCE
 - * **type:** `str`
 - * **pythonic name:** `source`
 - * **internal name:** `source`
 - * **is optional?** No
- **Response Fields:**

ToggleStudioMode

- **Description:** view [PROTOCOL.md](#) entry on ‘ToggleStudioMode’
- **Request Fields:**
- **Response Fields:**

TransitionToProgram

- **Description:** view [PROTOCOL.md](#) entry on ‘TransitionToProgram’
- **Request Fields:**
 - WITH TRANSITION
 - * **type:** `Transition`

- * **pythonic name:** `with_transition`
- * **internal name:** `with-transition`
- * **is optional?** No
- **Response Fields:**

Events

Exiting

- **Description:** view [PROTOCOL.md](#) entry on ‘Exiting’
- **Request Fields:**
- **Response Fields:**

PreviewSceneChanged

- **Description:** view [PROTOCOL.md](#) entry on ‘PreviewSceneChanged’
- **Request Fields:**
 - SCENE NAME
 - * **type:** `str`
 - * **pythonic name:** `scene_name`
 - * **internal name:** `scene-name`
 - * **is optional?** No
 - SOURCES
 - * **type:** `source_list`
 - * **pythonic name:** `sources`
 - * **internal name:** `sources`
 - * **is optional?** No
- **Response Fields:**

ProfileChanged

- **Description:** view [PROTOCOL.md](#) entry on ‘ProfileChanged’
- **Request Fields:**
- **Response Fields:**

ProfileListChanged

- **Description:** view [PROTOCOL.md](#) entry on ‘ProfileListChanged’
- **Request Fields:**
- **Response Fields:**

RecordingStarted

- **Description:** view [PROTOCOL.md](#) entry on ‘RecordingStarted’
- **Request Fields:**
- **Response Fields:**

RecordingStarting

- **Description:** view [PROTOCOL.md](#) entry on ‘RecordingStarting’
- **Request Fields:**
- **Response Fields:**

RecordingStopped

- **Description:** view [PROTOCOL.md](#) entry on ‘RecordingStopped’
- **Request Fields:**
- **Response Fields:**

RecordingStopping

- **Description:** view [PROTOCOL.md](#) entry on ‘RecordingStopping’
- **Request Fields:**
- **Response Fields:**

SceneCollectionChanged

- **Description:** view [PROTOCOL.md](#) entry on ‘SceneCollectionChanged’
- **Request Fields:**
- **Response Fields:**

SceneCollectionListChanged

- **Description:** view [PROTOCOL.md](#) entry on ‘SceneCollectionListChanged’
- **Request Fields:**
- **Response Fields:**

SceneItemAdded

- **Description:** view [PROTOCOL.md](#) entry on ‘SceneItemAdded’
- **Request Fields:**
 - SCENE NAME
 - * **type:** *str*
 - * **pythonic name:** *scene_name*
 - * **internal name:** *scene-name*
 - * **is optional?** No
 - ITEM NAME
 - * **type:** *str*
 - * **pythonic name:** *item_name*
 - * **internal name:** *item-name*
 - * **is optional?** No
- **Response Fields:**

SceneItemRemoved

- **Description:** view [PROTOCOL.md](#) entry on ‘SceneItemRemoved’
- **Request Fields:**
 - SCENE NAME
 - * **type:** *str*
 - * **pythonic name:** *scene_name*
 - * **internal name:** *scene-name*
 - * **is optional?** No
 - ITEM NAME
 - * **type:** *str*
 - * **pythonic name:** *item_name*
 - * **internal name:** *item-name*
 - * **is optional?** No
- **Response Fields:**

SceneItemVisibilityChanged

- **Description:** view [PROTOCOL.md](#) entry on ‘SceneItemVisibilityChanged’
- **Request Fields:**
 - SCENE NAME
 - * **type:** *str*

- * **pythonic name:** `scene_name`
 - * **internal name:** `scene-name`
 - * **is optional?** No
 - ITEM NAME
 - * **type:** `str`
 - * **pythonic name:** `item_name`
 - * **internal name:** `item-name`
 - * **is optional?** No
 - ITEM VISIBLE
 - * **type:** `bool`
 - * **pythonic name:** `item_visible`
 - * **internal name:** `item-visible`
 - * **is optional?** No
- **Response Fields:**

ScenesChanged

- **Description:** view [PROTOCOL.md](#) entry on ‘ScenesChanged’
- **Request Fields:**
- **Response Fields:**

SourceOrderChanged

- **Description:** view [PROTOCOL.md](#) entry on ‘SourceOrderChanged’
- **Request Fields:**
 - SCENE NAME
 - * **type:** `str`
 - * **pythonic name:** `scene_name`
 - * **internal name:** `scene-name`
 - * **is optional?** No
- **Response Fields:**

StreamStarted

- **Description:** view [PROTOCOL.md](#) entry on ‘StreamStarted’
- **Request Fields:**
- **Response Fields:**

StreamStarting

- **Description:** view [PROTOCOL.md](#) entry on ‘StreamStarting’
- **Request Fields:**
 - PREVIEW ONLY
 - * **type:** *bool*
 - * **pythonic name:** `preview_only`
 - * **internal name:** *preview-only*
 - * **is optional?** No
- **Response Fields:**

StreamStatus

- **Description:** view [PROTOCOL.md](#) entry on ‘StreamStatus’
- **Request Fields:**
 - STREAMING
 - * **type:** *bool*
 - * **pythonic name:** `streaming`
 - * **internal name:** *streaming*
 - * **is optional?** No
 - RECORDING
 - * **type:** *bool*
 - * **pythonic name:** `recording`
 - * **internal name:** *recording*
 - * **is optional?** No
 - PREVIEW ONLY
 - * **type:** *bool*
 - * **pythonic name:** `preview_only`
 - * **internal name:** *preview-only*
 - * **is optional?** No
 - BYTES PER SEC
 - * **type:** *int*
 - * **pythonic name:** `bytes_per_sec`
 - * **internal name:** *bytes-per-sec*
 - * **is optional?** No
 - KBITS PER SEC
 - * **type:** *int*

- * **pythonic name:** `kbits_per_sec`
- * **internal name:** `kbits-per-sec`
- * **is optional?** No
- STRAIN
 - * **type:** `float`
 - * **pythonic name:** `strain`
 - * **internal name:** `strain`
 - * **is optional?** No
- TOTAL STREAM TIME
 - * **type:** `int`
 - * **pythonic name:** `total_stream_time`
 - * **internal name:** `total-stream-time`
 - * **is optional?** No
- NUM TOTAL FRAMES
 - * **type:** `int`
 - * **pythonic name:** `num_total_frames`
 - * **internal name:** `num-total-frames`
 - * **is optional?** No
- NUM DROPPED FRAMES
 - * **type:** `int`
 - * **pythonic name:** `num_dropped_frames`
 - * **internal name:** `num-dropped-frames`
 - * **is optional?** No
- FPS
 - * **type:** `float`
 - * **pythonic name:** `fps`
 - * **internal name:** `fps`
 - * **is optional?** No
- **Response Fields:**

StreamStopped

- **Description:** view [PROTOCOL.md](#) entry on ‘StreamStopped’
- **Request Fields:**
- **Response Fields:**

StreamStopping

- **Description:** view [PROTOCOL.md](#) entry on ‘StreamStopping’
- **Request Fields:**
 - PREVIEW ONLY
 - * **type:** *bool*
 - * **pythonic name:** `preview_only`
 - * **internal name:** *preview-only*
 - * **is optional?** No
- **Response Fields:**

StudioModeSwitched

- **Description:** view [PROTOCOL.md](#) entry on ‘StudioModeSwitched’
- **Request Fields:**
 - NEW STATE
 - * **type:** *bool*
 - * **pythonic name:** `new_state`
 - * **internal name:** *new-state*
 - * **is optional?** No
- **Response Fields:**

SwitchScenes

- **Description:** view [PROTOCOL.md](#) entry on ‘SwitchScenes’
- **Request Fields:**
 - SCENE NAME
 - * **type:** *str*
 - * **pythonic name:** `scene_name`
 - * **internal name:** *scene-name*
 - * **is optional?** No
 - SOURCES
 - * **type:** *source_list*
 - * **pythonic name:** `sources`
 - * **internal name:** *sources*
 - * **is optional?** No
- **Response Fields:**

SwitchTransition

- **Description:** view [PROTOCOL.md](#) entry on ‘SwitchTransition’
- **Request Fields:**
 - TRANSITION NAME
 - * **type:** *str*
 - * **pythonic name:** `transition_name`
 - * **internal name:** *transition-name*
 - * **is optional?** No
- **Response Fields:**

TransitionBegin

- **Description:** view [PROTOCOL.md](#) entry on ‘TransitionBegin’
- **Request Fields:**
 - NAME
 - * **type:** *str*
 - * **pythonic name:** `name`
 - * **internal name:** *name*
 - * **is optional?** No
 - DURATION
 - * **type:** *int*
 - * **pythonic name:** `duration`
 - * **internal name:** *duration*
 - * **is optional?** No
- **Response Fields:**

TransitionDurationChanged

- **Description:** view [PROTOCOL.md](#) entry on ‘TransitionDurationChanged’
- **Request Fields:**
 - NEW DURATION
 - * **type:** *int*
 - * **pythonic name:** `new_duration`
 - * **internal name:** *new-duration*
 - * **is optional?** No
- **Response Fields:**

TransitionListChanged

- **Description:** view [PROTOCOL.md](#) entry on ‘TransitionListChanged’
- **Request Fields:**
- **Response Fields:**

What's this?

obs-ws-rc is a Python 3.5+ library that allows you to establish client connections to the **obs-websocket** plugin for OBS Studio.

It's based on **asyncio**-approach which it inherited from the underlying WebSocket library - [websockets](#)

Performing requests

Firstly, **obs-websocket**'s protocol provides you with the ability to send *requests* and retrieve *responses* to and from OBS Studio.

Let's see how it's done with **obs-ws-rc**:

```
"""Example shows how to send requests and get responses."""

import asyncio

from obswsrc import OBSWS
from obswsrc.requests import ResponseStatus, StartStreamingRequest
from obswsrc.types import Stream, StreamSettings

async def main():

    async with OBSWS('localhost', 4444, "password") as obsws:

        # We can send an empty StartStreaming request (in that case the plugin
        # will use OBS configuration), but let's provide some settings as well
        stream_settings = StreamSettings(
            server="rtmp://example.org/my_application",
            key="secret_stream_key",
```

```
        use_auth=False
    )
    stream = Stream(
        settings=stream_settings,
        type="rtmp_custom",
    )

    # Now let's actually perform a request
    response = await obsws.require(StartStreamingRequest(stream=stream))

    # Check if everything is OK
    if response.status == ResponseStatus.OK:
        print("Streaming has started")
    else:
        print("Couldn't start the stream! Reason:", response.error)

loop = asyncio.get_event_loop()
loop.run_until_complete(main())
loop.close()
```

Listening to events

Secondly, the plugin sends *events* from time to time. This library lets you listen to these events and handle them:

```
"""Example shows how to listen to events."""

import asyncio
import logging
import sys

from obswsrsrc import OBSWS
from obswsrsrc.logs import logger

# We will output logging to sys.stdout, as many events might raise errors
# on creation (that's because protocol.json is not perfect) - such errors
# are logged by obs-ws-rc automatically, we just need to see them
logger.setLevel(logging.ERROR)
logger.addHandler(logging.StreamHandler(stream=sys.stdout))

async def main():

    async with OBSWS('localhost', 4444, "password") as obsws:

        print("Connection established.")

        # We will receive events here by awaiting for them (you can await for
        # an event of a specific type by providing `type_name` argument to
        # the obsws.event() method)
        event = await obsws.event()

        # Awaited event might be None if connection is closed
        while event is not None:
            print("Awaited for '{}' event!".format(event.type_name))
```

```
        event = await obsws.event()

        print("Connection terminated.")

loop = asyncio.get_event_loop()
loop.run_until_complete(main())
loop.close()
```

Protocol description

The protocol *requests*, *responses* and *events* are declared in the [PROTOCOL.md](#) by the authors of the **obs-websocket** plugin.

However, there are minor mistakes in that file. And the field naming of the original protocol is inconsistent. For example, there're fields like `authRequired`, at the same time there're plenty of fields that use a hyphen as a word separator (like `kbits-per-sec`).

This library internally maps such fields to more pythonic names (`auth_required` and `kbits_per_sec` as such) - that allows for convenient passing fields as keyword arguments.

The version of the protocol used by this library can be found in `./obswsrc/protocol.json`.

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