
jsonwspclient Documentation

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Contents

1	Contents	3
1.1	Features	3
1.2	Installation	7
1.3	Examples	8
1.4	jsonwspclient	13
1.5	Changelog	20
1.6	License	20
1.7	Developers	20
2	Indices and tables	21
	Python Module Index	23

jsonwspclient wants to be a simple and, i hope, flexible python client for JSON-WSP services. It is designed for make easy to call services methods and to access to response info and attachments.

JsonWspClient is based on python [Requests](#) and uses the [Session object](#). So allows you to persist certain parameters and the cookies across requests.

It supports also *Events handling*, *Response processing*, *Parameters mapping* and *Fault handling*. So you can have a good control over your scripts flow.

Note: **jsonwspclient** is designed to be used with [Ladon](#). and it is based on the original ladon's [jsonwsp](#) client.

However it should be flexible enough to be used with other JSON-WSP services.

1.1 Features

1.1.1 Multiple services

You can load multiple service *descriptions* for a single *JsonWspClient* instance.

So will be more simple make services interact.

```
cli = JsonWspClient(testserver.url, services=['Authenticate', 'TransferService'])
```

1.1.2 Quick service method access

You can call directly the service method as client method (if the name is not already taken).

So you can have a service **Authenticate** with **auth** method and a service **TransferService** with **download** and **upload** methods:

```
cli = JsonWspClient(testserver.url, services=['Authenticate', 'TransferService'])

# which becomes:

cli.auth(...)
cli.download(...)
cli.upload(...)
```

Obviously you can access to services and relative methods too (services name will be lowercase).

```
cli = JsonWspClient(testserver.url, services=['Authenticate', 'TransferService'])

cli.authenticate.auth(...)
cli.transferservice.download(...)
cli.transferservice.upload(...)
```

Note: All service methods can accept the `raise_for_fault` parameter which force the response to raise an Exception in case of JSON-WSP fault.

1.1.3 Service methods info

Another thing that could be useful is the method's **info attributes** and **info dictionary**.

info attributes are:

- `doc_lines`: list of string with doc lines.
- `mandatory`: list of mandatory parameter names.
- `method_name`: string with the method name.
- `optional`: list of optional parameters.
- `params_info`: dictionary with parameters and relative info.
- `params_order`: list with parameters order.

And the **info** attribute is a dictionary with all the above information.

```
cli = JsonWspClient(testserver.url, services=['Authenticate'])

print(cli.auth.mandatory)

['username', 'password']
```

1.1.4 Response access:

Every service method call return a *JsonWspResponse* object which is a wrapper for the `requests.Reponse` object. So you can have all the response things plus some specific features.

The *JsonWspResponse* works in two ways:

- Simple response.
- Multi part response.

When the call to a service method return a simple JSON response **JsonWspResponse** behaves as *simple response* and you can access only to the `response_dict` and the `result()` attributes which are *interesting*.

When the called method return a *multipart/related* response **JsonWspResponse** behaves as *multi part response* and the methods `next()` `read_all()` and `save_all()` became usable to access the attachments.

See *Response access*: examples.

1.1.5 Context manager

Both *JsonWspClient* and *JsonWspResponse* supports a basic Context manager protocol. So you can use the **with** Statement.

```
with JsonWspClient('http://mysite.com', services=['Authenticate', 'TransferService']) as cli:
    with cli.auth(username="name", password="password") as res:
        token = cli.result['token']
```



```
with cli.secure_download(token=token, name='testfile.txt') as dres:
    if not dres.has_fault:
        dres.save_all('/tmp')
```

1.1.6 Events handling

JsonWspClient handle these events which. Is possible to group events simply by specify only the first part of the event name (it uses the *startswith* to check the event name). Or you can process all events using the * char instead of the event name.

So you can group events using something like ('file.', file_handler) or ('client.post', mypost). Or all events with ('*', all_events).

See *Event handling* example.

Note: For all event callbacks only the event_name is mandatory all the other parameters are passed as optional keyword arguments.

client

- **client.post.after (event_name, client, path, data, method):**
 - **client:** JsonWspClient instance.
 - **path:** request path relative to the JsonWspClient instance URL.
 - **data:** data passed to the request.
 - **method:** method used for the request.
- **client.post.before (event_name, client, path, data, method):**
 - **client:** JsonWspClient instance.
 - **path:** request path relative to the JsonWspClient instance URL.
 - **data:** data passed to the request.
 - **method:** method used for the request.
- **client.post_mp.after (event_name, client, path, attaches, data, method):**
 - **client:** JsonWspClient instance.
 - **path:** request path relative to the JsonWspClient instance URL.
 - **attachs** Dictionary with attachments.
 - **data:** data passed to the request.
 - **method:** method used for the request.
- **client.post_mp.before (event_name, client, path, attaches, data, method):**
 - **client:** JsonWspClient instance.
 - **path:** request path relative to the JsonWspClient instance URL.
 - **attachs** Dictionary with attachments.
 - **data:** data passed to the request.

- **method:** method used for the request.

file

- **file.close (event_name, fobj, value, max_value):**
 - **fobj:** file-like object instance.
 - **value:** bytes read/write.
 - **max_value:** file length.
- **file.closed (event_name, fobj, value, max_value):**
 - **fobj:** file-like object instance.
 - **value:** bytes read/write.
 - **max_value:** file length.
- **file.init (event_name, fobj, value, max_value):**
 - **fobj:** file-like object instance.
 - **value:** bytes read/write.
 - **max_value:** file length.
- **file.read (event_name, fobj, value, max_value):**
 - **fobj:** file-like object instance.
 - **value:** bytes read/write.
 - **max_value:** file length.
- **file.write (event_name, fobj, value, max_value):**
 - **fobj:** file-like object instance.
 - **value:** bytes read/write.
 - **max_value:** file length.

service

- **service.call_method.after (event_name, service, method, attachment_map, **kwargs):**
 - **service:** service instance.
 - **method:** called service method name.
 - **attachment_map:** attachment map (if any).
 - ****kwargs:** dictionary with passed params.
- **service.call_method.before (event_name, service, method, attachment_map, **kwargs):**
 - **service:** service instance.
 - **method:** called service method name.
 - **attachment_map:** attachment map (if any).
 - ****kwargs:** dictionary with passed params.
- **service.description_loaded (event_name, service):**

- **service:** service instance.

1.1.7 Response processing

JsonWspClient can process responses before they are returned by the called service method. So you can analyze and/or modify the response on the fly before use it. You can also concatenate multiple **response_processors** obviously all them must return the response object.

```
response_processors(response, service, client, method_name, **kwargs)
```

Note: Only the response is mandatory all the other parameters are passed as optional keyword arguments.

See *Response processing* example.

1.1.8 Parameters mapping

You can also map service methods params to client attributes or methods, string or function. So you can memorize values and silently pass them to services method call as parameters if the method need them.

If you map a parameter with a callable you will receive the method name as first keyword argument and all the other arguments passed to the method (all arguments are optional).

```
def token(method_name, **kwargs):
    """Conditional param"""
    if method_name == 'get_user':
        return '12345'
    return '5678'

cli = JsonWspClient(testserver.url, services=['Authenticate'], params_mapping={'token
↪': token})
```

See *Parameters mapping* example.

1.1.9 Fault handling

JsonWspClient raises automatically response's exceptions (*raise_for_status*) and *jsonwspexceptions.ParamsError*. However, JSON-WSP errors are normally dealt with silently and are managed by checking the response *has_fault* property. In order for the *JsonWspClient* to raise an exception in case of response fault, you must pass the parameter *raise_for_fault=True* to the client instance or service method. Or use the *raise_for_fault()* method of the response BEFORE using it.

See *Fault handling* example.

Note: In case of parameter *raise_for_fault=True* the response processors are ignored in case of error. While with the *raise_for_fault()* method they are processed BEFORE raising the exception. So, your response processor, must consider it

1.2 Installation

pip install jsonwspclient

1.3 Examples

Some useful example.

1.3.1 Multiple services and quick method access

```
from jsonwspclient import JsonWspClient

# loads multiple services for mysite.com.
cli = JsonWspClient('http://mysite.com', ['Authenticate', 'TransferService'])
# retrieve the user with the *Authenticate.auth* method.
res = cli.auth(username='username', password='password')
# user is in the response_dict.
user = res.response_dict
# download the file with the *TransferService.download* method
# using the retrieved user-token as credentials.
cli.download(token=user['token'], name='testfile.txt').save_all('/tmp')
```

1.3.2 Response access:

Sum numbers and simply print the result.

```
from __future__ import print_function
from jsonwspclient import JsonWspClient

# our client with CalcService.
cli = JsonWspClient('http://mysite.com', ['CalcService'])
# we know our CalcService.sum return a simple int number passing a list of int.
print(cli.sum(numbers=[1, 2, 3]).result)
```

A more complex sum task.

```
from __future__ import print_function
from jsonwspclient import JsonWspClient

# our client with CalcService.
cli = JsonWspClient('http://mysite.com', ['CalcService'])
# we know our CalcService.sum return a simple int number passing a list of int.
# so we will use a list of int list.
numbers_list = [
    [1, 2, 3, 4, 5],
    [10, 20, 5, 7],
    [12, 4, 32, 6],
    [40, 2],
]
# cycle through the number list.
for numbers in numbers_list:
    # print some information.
    print("numbers to add up ", " + ".join([str(a) for a in numbers]))
    # get the sum from our number list from the server.
    with cli.sum(numbers=numbers) as res:
        # simple test and result print.
        if res.result == 42:
            print("the result is: The answer to the ultimate question of life, the_
↪universe and everything")
```

```

else:
    print("the result is:", res.result)

```

Cycles over attachments and save.

```

from __future__ import print_function
from jsonwspclient import JsonWspClient

cli = JsonWspClient('http://mysite.com', ['TransferService'])
res = cli.multi_download(names=['test-20-1.txt', 'test-20-2.txt'])
for attach in res:
    filename = "down-file{}".format(attach.index)
    print("Saving", filename)
    attach.save('/tmp/', filename=filename)

```

1.3.3 Event handling

Very simple download monitoring.

```

from __future__ import print_function # python 2
from jsonwspclient import JsonWspClient

# out simple event handler.
def download_event(event_name, fobj, value, max_value):
    """Print event"""
    # print the percentage
    pct = value * float(max_value) / 100
    print("{}%\r".format(pct), end='')

# instantiate out client passing the **download_event** function as handler.
# for the file.read event.
cli = JsonWspClient('http://mysite.com', services=['TransferService'], events=[('file.
→read', download_event)])
cli.download(name='testfile.txt').save_all('/tmp')

```

Deprecation warning on old part in request URL.

```

from jsonwspclient import JsonWspClient

def before_post(event_name, path='', **kwargs):
    """warning"""
    if 'old_request_path' in path:
        raise DeprecationWarning("old_request_path is deprecated, use new_request_path_
→instead")

cli = JsonWspClient('http://mysite.com', services=['TransferService'], events=[(
→'client.post.before', before_post)])
cli.download(name='testfile.txt').save_all('/tmp')

```

See *Events handling*.

1.3.4 Response processing

Imagine we need to authenticate to the server and then keep track of the username and the user token to use them in future service calls. We can achieve this easily with the **response processors**.

```
from jsonwspclient import JsonWspClient

# our response_processors
def objectify_result(response, **kwargs):
    """objectify the result"""
    # we add the attribute **result** to the response which will contain the object
    # version of the **result** part of the response_dict.
    response.result = type('Result', (object, ), response.response_dict['result'])
    # we MUST return the response in a processors function.
    return response

def set_user_info(response, service, client, method_name, **kwargs):
    """Set user info if needed"""
    # we check the right service and method:
    if service.name == 'Authenticate' and method_name == 'auth':
        # we concatenated the response_processors so we have the objectified result
        # so we can use it and set the client username and token.
        client.username = response.result['username']
        client.token = response.result['token']

# our client with processors.
cli = JsonWspClient('http://mysite.com', services=['Authenticate'],
                    processors=[objectify_result, set_user_info])

# Authenticate
res = cli.auth(username='username', password='password')
# now our client object have the token attribute.
print(cli.token)
```

See *Response processing*.

1.3.5 Parameters mapping

Simple reference to client's attribute mapping.

```
from jsonwspclient import JsonWspClient

# loads multiple services for mysite.com.
cli = JsonWspClient('http://mysite.com', ['Authenticate', 'TransferService'], params_
↳ mapping={'token': 'token'})
# retrieve the user with the *Authenticate.auth* method.
res = cli.auth(username='username', password='password')
# set the client attribute token with the result from the request.
cli.token = res.response_dict['result']['token']
# download the file with the *TransferService.download* method
# notice we don't need to pass the token argument because now is mapped to
# the client attribute **token** and if the download method need it it will
# be passed automatically.
cli.secure_download(name='testfile.txt').save_all('/tmp')
```

More simple *direct value* mapping

```
from jsonwspclient import JsonWspClient

# direct param mapping: *token* param will be passed with value of '1234'.
cli = JsonWspClient('http://mysite.com', ['TransferService'], params_mapping={'token
↳ ': '1234'})
cli.secure_download(name='testfile.txt').save_all('/tmp')
```

```

from jsonwspclient import JsonWspClient
def get_token(method_name, **kwargs):
    """conditional token"""
    if method_name == 'get_user':
        return 'empty'
    return '12345'
cli = JsonWspClient(
    'http://mysite.com', ['Authenticate', 'TransferService'],
    params_mapping={'token': get_token})
cli.token = cli.get_user().result['token']
cli.download(name="testfile.txt").save_all('/tmp')

```

1.3.6 Fault handling

Simple fault handling by checking the `has_fault` property.

```

from jsonwspclient import JsonWspClient

with JsonWspClient('http://mysite.com', ['TransferService']) as cli:
    with cli.download(name='wrong-filename.txt') as res:
        if not res.has_fault:
            res.save_all('/tmp')

```

Passing the `raise_for_fault` parameter to the service method.

```

from __future__ import print_function
from jsonwspclient import JsonWspClient
from jsonwspclient.jsonwspexceptions import JsonWspFault

with JsonWspClient('http://mysite.com', ['TransferService']) as cli:
    try:
        cli.download(raise_for_fault=True, name='wrong-filename.txt').save_all('/tmp')
    except JsonWspFault as error:
        print(error)

```

Passing the `raise_for_fault` parameter while instantiate the client.

```

from __future__ import print_function
from jsonwspclient import JsonWspClient
from jsonwspclient.jsonwspexceptions import JsonWspFault

with JsonWspClient('http://mysite.com', ['TransferService'], raise_for_fault=True) as cli:
    cli:
        try:
            cli.download(name='wrong-filename-1.txt').save_all('/tmp')
            cli.download(name='wrong-filename-2.txt').save_all('/tmp')
        except JsonWspFault as error:
            print(error)

```

Using the `raise_for_fault()` method.

```

from __future__ import print_function
from jsonwspclient import JsonWspClient
from jsonwspclient.jsonwspexceptions import JsonWspFault

```

```
with JsonWspClient('http://mysite.com', ['TransferService']) as cli:
    try:
        cli.download(name='wrong-filename-1.txt').raise_for_fault().save_all('/tmp')
        cli.download(name='wrong-filename-2.txt').raise_for_fault().save_all('/tmp')
    except JsonWspFault as error:
        print(error)
```

Warning: Remember while passing the `raise_for_fault=True` parameter, either to the service method or client creation, the *exception* will be raised **BEFORE** the *reponse processors* otherwise if you use the `raise_for_fault()` method you will need to take care about the *exceptions* in your *reponse processors*.

1.3.7 All together now (with subclassing)

```
from jsonwspclient import JsonWspClient
from jsonwspclient.jsonwspexceptions import JsonWspFault

# our event handler for file download monitoring.
def file_handler(event_name, value=0, max_value=0):
    """file Handler"""
    pct = value * float(max_value) / 100
    print("{} {}%\r".format(event_name, pct), end='')

# silly objectify function
def objectify(response, **dummy_kwargs):
    """objectify"""
    # our objpart will be an empty dict if response have some fault.
    # else it can be response.result.
    objpart = {} if response.has_fault else response.result
    # set the right objpart for the response.
    response.objpart = type('ObjPart', (object, ), objpart)
    # return the response.
    return response

# our client
class MyClient(JsonWspClient):
    """My Client"""
    # we can specify some thing in the class creation
    # we will download only so we will bind only the file.write event.
    events = [('file.read', file_handler)]
    # we will objectify the result.
    processors = [objectify]
    # and map the token param to the get_token method of the client.
    params_mapping = {'token': 'get_token'}
    user = None

    def authenticate(self, username, password):
        """Authenticate"""
        res = self.auth(username=username, password=password)
        # We set the user only if we not have faults.
        # (see the response processors).
        self.user = res.objpart if res.has_fault else None
        # Is a good practice to return the response if we are wrapping or
        # overriding some service method
```



```

        return res

    def get_token(self):
        """get token"""
        # return the user token (see params_mapping)
        return self.user.token

# instantiate the client.
with MyClient("http://mysite.com", ['Authenticate', 'TransferService']) as cli:
    # authenticate user.
    cli.authenticate('username', 'password')
    if cli.user:
        try:
            # try to download the file (automatically uses the user token as
            ↪parameter)
            # we use the :meth:`raise_for_fault` method which returns the response
            # or a JsonWspFault.
            cli.secure_download(name="testfile.txt").raise_for_fault().save_all("/tmp
            ↪")
        except JsonWspFault as error:
            print("error", error)

```

The example above can be write in a more simple way, but we need to mix features.

1.4 jsonwspclient

1.4.1 jsonwspclient package

Submodules

jsonwspclient.jsonwspclient module

Jsonwspclient jsonwspclient.Jsonwspclient

```

class jsonwspclient.jsonwspclient.JsonWspClient(url, services, headers=None,
                                                  events=None, processors=None,
                                                  params_mapping=None,
                                                  raise_for_fault=False, auth=None,
                                                  proxies=None, verify=False, re-
                                                  sponse_class=None, **kwargs)

```

Bases: `object`

JsonWsp Client.

The JSON-WSP Client class

Parameters

- **url** (*str*) – base url where to retrieve all services.
- **services** (*[str]*) – list of Service names to retrieve.
- **headers** (*dict*) – Headers to add or repalce.
- **events** (*[(str, function)]*) – list of tuples contaning the event name and the relative function.

- **processors** (*[function]*) – list of functions that can process and/or modify responses before they are returned.
- **params_mapping** (*dict*) – Dictionary with mapping for client attributes or methods to service command parameters.
- **raise_for_fault** (*bool*) – Automatically raise Exceptions on JSON-WSP response faults.
- **auth** (*any*) – Authentication according with [Requests Authentication](#) in most case a simple tuple with **username** and **password** should be enough.
- **proxies** (*dict*) – Dictionary mapping protocol to the URL of the proxy (see [Requests proxies](#)).
- **verify** (*bool, str*) – 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. (see [Requests SSL Cert Verification](#)).
- **response_class** (*JsonWspResponse subclass*) – Custom Response class with subclass `JsonWspResponse` (default `JsonWspResponse`).

add_events (**events*)

Add events.

close ()

Close.

events = []

(*[(str, function)]*) – list of tuples containing the event name and the relative function.

method

return method.

Parameters **name** (*str*) – name of the service to retrieve

Returns the services method if possible.

Return type function

params_mapping = {}

(*dict*) – Dictionary with mapping for client attributes or methods to service command parameters.

post (*path, data=None, method='POST'*)

Post a request.

Parameters

- **path** (*str*) – Path relative to base url of the client instance.
- **data** (*dict*) – Dictionary with data to post (will be convert into json string).
- **method** (*str*) – Method to use (default to POST)

Returns The response to the request.

Return type *JsonWspResponse*

post_mp (*path, data=None, attaches=None, method='POST'*)

Post a multipart requests.

Parameters

- **path** (*str*) – Path relative to base url of the client instance.
- **data** (*dict*) – Dictionary with data to post (will be convert into json string).

- **attaches** (*dict*) – Dictionary with files id and relative file object. ({fileid: fileobject})
- **method** (*str*) – Method to use (default to POST)

Returns The response to the request.

Return type *JsonWspResponse*

processors = []

(*[function]*) – list of functions that can process and/or modify responses before they are returned.

remove_events (**events*)

Remove events.

service

return service.

Parameters **name** (*str*) – name of the service to retrieve

Returns the service object

Return type *JsonWspService*

jsonwspclient.jsonwspexceptions module

Jsonwspexceptions jsonwspclient.jsonwspexceptions

exception jsonwspclient.jsonwspexceptions.**ClientFault** (**args, **kwargs*)

Bases: *jsonwspclient.jsonwspexceptions.JsonWspFault*

Client Fault.

exception jsonwspclient.jsonwspexceptions.**IncompatibleFault** (**args, **kwargs*)

Bases: *jsonwspclient.jsonwspexceptions.JsonWspFault*

Incompatible Fault.

exception jsonwspclient.jsonwspexceptions.**JsonWspException**

Bases: *exceptions.Exception*

Base Exception

exception jsonwspclient.jsonwspexceptions.**JsonWspFault** (**args, **kwargs*)

Bases: *jsonwspclient.jsonwspexceptions.JsonWspException*

Base exception.

code = ''

description = ''

details = ()

fault = {}

filename = ()

hint = ''

lineno = ()

exception jsonwspclient.jsonwspexceptions.**ParamsError**

Bases: *jsonwspclient.jsonwspexceptions.JsonWspException*

Params Error.

exception jsonwspclient.jsonwspexceptions.**ServerFault** (*args, **kwargs)
Bases: *jsonwspclient.jsonwspexceptions.JsonWspFault*
Server fault error.

jsonwspclient.jsonwspmultipart module

Jsonwspmultipart jsonwspclient.jsonwspmultipart

class jsonwspclient.jsonwspmultipart.**JsonWspAttachment** (index=0)
Bases: *object*
Class for the attachments

Parameters **index** (*int*) – Attachment index.

descriptor
any – File descriptor.

path
str – Temporary file path.

att_id = None
(*str*) – Attachment id.

close()
Try to close the temp file.

filename = None
(*str*) – filename if found in headers.

headers = None
(*CaseInsensitiveDict*) – attachment headers.

index = None
(*int*) – Attachment index.

open (mode='rb')
Open the temp file and return the opened file object

Parameters **mode** (*srt, optional*) – open mode for the file object.

Returns the open file.

Return type (*file*)

save (path, filename=None, overwrite=True)
Save the file to path

Parameters

- **path** (*str*) – Path where to save the file.
- **filename** (*str, optional*) – Name for the file (if not already in path)
- **overwrite** (*bool, optional*) – Overwrite the file or no (default True)

Raises *ValueError* – if a filename is not found.

Note: If *path* is just a folder without the filename and no filename param is specified it will try to use the filename in the content-disposition header if one.

```

    size = None
        (int) – Attachment size.

    update (headers)
        update headers

class jsonwspclient.jsonwspmultipart.JsonWspAttachmentMeta
    Bases: type

    Meta for instance check

class jsonwspclient.jsonwspmultipart.MultiPartReader (headers, content, size=None, chunk_size=8192)
    Bases: object

    Reader

    iterator (chunk_size=None)
        Iterator

    read (chunk_size=None)

    read_all (chunk_size=None)

    read_chunk (size=None)

    write (data, save=False)
        Write

class jsonwspclient.jsonwspmultipart.MultiPartWriter (jsonpart, files, chunk_size=8192, boundary=None, encoding='UTF-8')
    Bases: object

    close ()
        Close

    next ()
        Next

    read (chunk_size=None)
        Read

jsonwspclient.jsonwspmultipart.get_filename ()
    findall(string[, pos[, endpos]]) -> list. Return a list of all non-overlapping matches of pattern in string.

jsonwspclient.jsonwspmultipart.get_headers ()
    findall(string[, pos[, endpos]]) -> list. Return a list of all non-overlapping matches of pattern in string.

jsonwspclient.jsonwspmultipart.split_headers ()
    search(string[, pos[, endpos]]) -> match object or None. Scan through string looking for a match, and return a corresponding match object instance. Return None if no position in the string matches.

jsonwspclient.jsonwspmultipart.stringify_headers (headers, encoding='UTF-8')
    stringi

```

jsonwsclient.jsonwsresponse module

Jsonwsresponse jsonwsclient.jsonwsresponse

class jsonwsclient.jsonwsresponse.JsonWsResponse(*response, trigger*)

Bases: `object`

JsonWsResponse (wrapper for `requests Response object`) is not meant to be instantiate manually but only as response from `JsonWsClient` requests.

attachments = `None`

(*dict*) – Attachments dictionary, not really useful.

fault = `None`

(*dict*) – Fault dictionary if response has fault.

fault_code = `None`

(*str*) – Fault code if response has fault.

has_fault = `None`

(*bool*) – True if response has fault.

is_multipart = `None`

(*bool*) – True if response is multipart.

length = `None`

(*int*) – response content length

next ()

If JsonWsResponse is multipart returns the next attachment.

Returns the attachment object.

Return type `JsonWsAttachment`

raise_for_fault ()

Raise error if needed else return self.

read_all (*chunk_size=None*)

Read all the data and return a Dictionary containig the Attachments.

Parameters **chunk_size** (*int*) – bytes to read each time.

Returns Dictionary with all attachments.

Return type `dict`

response_dict = `None`

(*dict*) – JSON part of the response.

result = `None`

(*dict,list*) – **data** of the JSON part of the response.

save_all (*path, name='name', overwrite=True*)

Save all the attachments ad once.

Parameters

- **path** (*str*) – Path where to save.
- **name** (*str, optional*) – key with which the file name is specified in the dictionary (default name).
- **overwrite** (*bool, optional*) – overwrite the file if exists (default True).

jsonwspclient.jsonwspservice module

Jsonwspservice jsonwspclient.jsonwspservice

```
class jsonwspclient.jsonwspservice.JsonWspService(client, service_name)
    Bases: object
    Service.
    list_methods()
        list_methods.
```

jsonwspclient.jsonwsputils module

Jsonwsputils jsonwspclient.jsonwsputils

```
class jsonwspclient.jsonwsputils.FileWithCallBack(path, callback, mode='rb', size=0)
    Bases: object
    FileWithCallBack.
    close()
        Close.
    read(size)
        read.
    write(data)
        write.
```

```
class jsonwspclient.jsonwsputils.Observer(events)
    Bases: object
    Observer for events.
    add(name, funct)
        add event.
    remove(name, funct)
        remove event.
    trigger(event, **kwargs)
        Trigger.
```

```
jsonwspclient.jsonwsputils.check_attachment(items)
    check_attachment.
```

```
jsonwspclient.jsonwsputils.fix_attachment(val, attachment_map)
    Fix attachment.
```

```
jsonwspclient.jsonwsputils.get_boundary(headers)
    return boundary.
```

```
jsonwspclient.jsonwsputils.get_charset(headers)
    return charset.
```

```
jsonwspclient.jsonwsputils.get_fileitem(path, data='data', name='name', mode='rb')
    get fileitem.
```

```
jsonwspclient.jsonwsputils.get_multipart(headers)
    return multipart.
```

```
jsonwspclient.jsonwsputils.has_attachments()
    match(string[, pos[, endpos]]) -> match object or None. Matches zero or more characters at the beginning of
    the string

jsonwspclient.jsonwsputils.make_method(funct, instance, cls)
    Make method

jsonwspclient.jsonwsputils.walk_args_dict(kwargs, attachment_map)
    Walk args.
```

Module contents

```
__init__ jsonwspclient.__init__
```

1.5 Changelog

1.5.1 Version 0.0.1

- Feature A added

1.6 License

The MIT License (MIT)

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1.7 Developers

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CHAPTER 2

Indices and tables

- `genindex`
- `modindex`
- `search`

j

- [jsonwspclient](#), [20](#)
- [jsonwspclient.jsonwspclient](#), [13](#)
- [jsonwspclient.jsonwspexceptions](#), [15](#)
- [jsonwspclient.jsonwspmultipart](#), [16](#)
- [jsonwspclient.jsonwspresponse](#), [18](#)
- [jsonwspclient.jsonwspservice](#), [19](#)
- [jsonwspclient.jsonwsputils](#), [19](#)

A

add() (jsonwspclient.jsonwsputils.Observer method), 19
 add_events() (jsonwspclient.jsonwspclient.JsonWspClient method), 14
 att_id (jsonwspclient.jsonwspmultipart.JsonWspAttachment attribute), 16
 attachments (jsonwspclient.jsonwspresponse.JsonWspResponse attribute), 18

C

check_attachment() (in module jsonwspclient.jsonwsputils), 19
 ClientFault, 15
 close() (jsonwspclient.jsonwspclient.JsonWspClient method), 14
 close() (jsonwspclient.jsonwspmultipart.JsonWspAttachment method), 16
 close() (jsonwspclient.jsonwspmultipart.MultiPartWriter method), 17
 close() (jsonwspclient.jsonwsputils.FileWithCallBack method), 19
 code (jsonwspclient.jsonwspexceptions.JsonWspFault attribute), 15

D

description (jsonwspclient.jsonwspexceptions.JsonWspFault attribute), 15
 descriptor (jsonwspclient.jsonwspmultipart.JsonWspAttachment attribute), 16
 details (jsonwspclient.jsonwspexceptions.JsonWspFault attribute), 15

E

events (jsonwspclient.jsonwspclient.JsonWspClient attribute), 14

F

fault (jsonwspclient.jsonwspexceptions.JsonWspFault attribute), 15

fault (jsonwspclient.jsonwspresponse.JsonWspResponse attribute), 18
 fault_code (jsonwspclient.jsonwspresponse.JsonWspResponse attribute), 18
 filename (jsonwspclient.jsonwspexceptions.JsonWspFault attribute), 15
 filename (jsonwspclient.jsonwspmultipart.JsonWspAttachment attribute), 16
 FileWithCallBack (class in jsonwspclient.jsonwsputils), 19
 fix_attachment() (in module jsonwspclient.jsonwsputils), 19

G

get_boundary() (in module jsonwspclient.jsonwsputils), 19
 get_charset() (in module jsonwspclient.jsonwsputils), 19
 get_fileitem() (in module jsonwspclient.jsonwsputils), 19
 get_filename() (in module jsonwspclient.jsonwspmultipart), 17
 get_headers() (in module jsonwspclient.jsonwspmultipart), 17
 get_multipart() (in module jsonwspclient.jsonwsputils), 19

H

has_attachments() (in module jsonwspclient.jsonwsputils), 19
 has_fault (jsonwspclient.jsonwspresponse.JsonWspResponse attribute), 18
 headers (jsonwspclient.jsonwspmultipart.JsonWspAttachment attribute), 16
 hint (jsonwspclient.jsonwspexceptions.JsonWspFault attribute), 15

I

IncompatibleFault, 15
 index (jsonwspclient.jsonwspmultipart.JsonWspAttachment attribute), 16

is_multipart (jsonwspclient.jsonwspresponse.JsonWspResponse attribute), 18

iterator() (jsonwspclient.jsonwspmultipart.MultiPartReader method), 17

J

JsonWspAttachment (class in jsonwspclient.jsonwspmultipart), 16

JsonWspAttachmentMeta (class in jsonwspclient.jsonwspmultipart), 17

JsonWspClient (class in jsonwspclient.jsonwspclient), 13

jsonwspclient (module), 20

jsonwspclient.jsonwspclient (module), 13

jsonwspclient.jsonwspexceptions (module), 15

jsonwspclient.jsonwspmultipart (module), 16

jsonwspclient.jsonwspresponse (module), 18

jsonwspclient.jsonwspservice (module), 19

jsonwspclient.jsonwsputils (module), 19

JsonWspException, 15

JsonWspFault, 15

JsonWspResponse (class in jsonwspclient.jsonwspresponse), 18

JsonWspService (class in jsonwspclient.jsonwspservice), 19

L

length (jsonwspclient.jsonwspresponse.JsonWspResponse attribute), 18

lineno (jsonwspclient.jsonwspexceptions.JsonWspFault attribute), 15

list_methods() (jsonwspclient.jsonwspservice.JsonWspService method), 19

M

make_method() (in module jsonwspclient.jsonwsputils), 20

method (jsonwspclient.jsonwspclient.JsonWspClient attribute), 14

MultiPartReader (class in jsonwspclient.jsonwspmultipart), 17

MultiPartWriter (class in jsonwspclient.jsonwspmultipart), 17

N

next() (jsonwspclient.jsonwspmultipart.MultiPartWriter method), 17

next() (jsonwspclient.jsonwspresponse.JsonWspResponse method), 18

O

Observer (class in jsonwspclient.jsonwsputils), 19

open() (jsonwspclient.jsonwspmultipart.JsonWspAttachment method), 16

P

params_mapping (jsonwspclient.jsonwspclient.JsonWspClient attribute), 14

ParamsError, 15

path (jsonwspclient.jsonwspmultipart.JsonWspAttachment attribute), 16

post() (jsonwspclient.jsonwspclient.JsonWspClient method), 14

post_mp() (jsonwspclient.jsonwspclient.JsonWspClient method), 14

processors (jsonwspclient.jsonwspclient.JsonWspClient attribute), 15

R

raise_for_fault() (jsonwspclient.jsonwspresponse.JsonWspResponse method), 18

read() (jsonwspclient.jsonwspmultipart.MultiPartReader method), 17

read() (jsonwspclient.jsonwspmultipart.MultiPartWriter method), 17

read() (jsonwspclient.jsonwsputils.FileWithCallBack method), 19

read_all() (jsonwspclient.jsonwspmultipart.MultiPartReader method), 17

read_all() (jsonwspclient.jsonwspresponse.JsonWspResponse method), 18

read_chunk() (jsonwspclient.jsonwspmultipart.MultiPartReader method), 17

remove() (jsonwspclient.jsonwsputils.Observer method), 19

remove_events() (jsonwspclient.jsonwspclient.JsonWspClient method), 15

response_dict (jsonwspclient.jsonwspresponse.JsonWspResponse attribute), 18

result (jsonwspclient.jsonwspresponse.JsonWspResponse attribute), 18

split_headers() (in module jsonwspclient.jsonwspmultipart), 17

save() (jsonwspclient.jsonwspmultipart.JsonWspAttachment method), 16

save_all() (jsonwspclient.jsonwspresponse.JsonWspResponse method), 18

ServerFault, 15

service (jsonwspclient.jsonwspclient.JsonWspClient attribute), 15

size (jsonwspclient.jsonwspmultipart.JsonWspAttachment attribute), 16

split_headers() (in module jsonwspclient.jsonwspmultipart), 17

split_headers() (in module jsonwspclient.jsonwspmultipart), 17

split_headers() (in module jsonwspclient.jsonwspmultipart), 17

split_headers() (in module jsonwspclient.jsonwspmultipart), 17

split_headers() (in module jsonwspclient.jsonwspmultipart), 17

split_headers() (in module jsonwspclient.jsonwspmultipart), 17

`stringify_headers()` (in module `jsonwspclient.jsonwspmultipart`), [17](#)

T

`trigger()` (`jsonwspclient.jsonwsputils.Observer` method), [19](#)

U

`update()` (`jsonwspclient.jsonwspmultipart.JsonWspAttachment` method), [17](#)

W

`walk_args_dict()` (in module `jsonwspclient.jsonwsputils`), [20](#)

`write()` (`jsonwspclient.jsonwspmultipart.MultiPartReader` method), [17](#)

`write()` (`jsonwspclient.jsonwsputils.FileWithCallBack` method), [19](#)