python-wepay Documentation

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lehins

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Python WePay SDK (third party)

Based on official Python Wepay SDK, and designed to be completely compatible with it.

Before using this package get yourself familiar with actual WePay API Documentation.

WePay is a great service, highly recommend it.

CHAPTER 1

Contents:

1.1 wepay.api Module

This module was designed to help making WePay API calls.

class `wepay.api.`**`WePay`**(*production=True*, *access_token=None*, *api_version=None*, *timeout=30*, *silent=None*, *use_requests=None*)

A full client for the WePay API.

Parameters

- **`production`** (*bool*) – When `False`, the `stage.wepay.com` API server will be used instead of the default production.
- **`access_token`** (*str*) – The access token associated with your application.
- **`api_version`** (*str*) – sets default version of API which will be accepting calls. It is also possible to specify different version per API call, since all calls accept a keyword argument *api_version* as well. More on API versioning.
- **`timeout`** (*float*) – time in seconds before HTTPS call request will timeout. Also can be changed on per call basis.
- **`silent`** (*bool*) – if set to *None* (default) will print `WePayWarning` if *production=True* and raise them otherwise. Set it to *True* to stop parameter validation and suppress all warnings, or *False* to raise all warnings.
- **`use_requests`** (*bool*) – set to *False* in order to explicitly turn off requests library usage and fallback to urllib

Instance of this class contains attributes, which correspond to WePay objects and should be used to perform API calls. If a WePay object has a lookup call, corresponding attribute will also be callable. Example:

```
>>> api = WePay(production=False, access_token=WEPAY_ACCESS_TOKEN)
>>> response = api.account.create('Test Account', 'Short Description')
>>> api.account(response['account_id'])
```

Each method that performs an API call accepts all required parameters as positional arguments, optional parameters as keyword arguments, as well as one or more keyword arguments that are used to control behavior of a call. All these methods accept keyword arguments `api_version`, `timeout` and if documented also possible keyword arguments `batch_mode`, `batch_reference_id` and `access_token`:

- `api_version` will make sure the call is made to a specified API version (cannot be used together with `batch_mode`)

- `timeout` specifies a connection timeout in seconds for the call (cannot be used together with `batch_mode`)
- `access_token` will make sure the call is made with this access_token, also use it to set *authorization* param in `batch_mode`.
- `batch_mode` instead of performing an actual call to WePay, a method will return a dictionary that is ready to be added to */batch/create*, namely to calls list parameter. `batch.create`
- `batch_reference_id` will set *reference_id* param in a batch call, it is an error to use it without `batch_mode` set to `True`

Batch mode usage example:

```
>>> api = WePay(production=False, access_token=WEPAY_ACCESS_TOKEN)
>>> calls = []
>>> calls.append(api.account.create('Test Account', 'Short Description', batch_mode=True, ac
>>> calls.append(api.checkout(12345, batch_mode=True))
>>> api.batch.create(CLIENT_ID, CLIENT_SECRET, calls)
```

oauth2
`OAuth2` call instance.

app
`App` call instance

user
`User` call instance

account
`Account` call instance

checkout
`Checkout` call instance

preapproval
`Preapproval` call instance

withdrawal
`Withdrawal` call instance

credit_card
`CreditCard` call instance

subscription_plan
`SubscriptionPlan` call instance

subscription
`Subscription` call instance

subscription_charge
`SubscriptionCharge` call instance

batch
`Batch` call instance

call(*uri*, *params=None*, *access_token=None*, *api_version=None*, *timeout=None*)
Calls wepay.com/v2/`uri` with `params` and returns the JSON response as a python *dict*. The optional `access_token` parameter takes precedence over instance's `access_token` if it is set. Essentially this is the place for all api calls.

Parameters

- **uri** (*str*) – API uri to call
- **params** (*dict*) – parameters to include in the call
- **access_token** (*str*) – access_token to use for the call.
- **api_version** (*str*) – allows to create a call to specific version of API
- **timeout** (*float*) – a way to specify a call timeout in seconds. If *None* will use *WePay.timeout*.

Returns WePay response as documented per call

Return type dict

Raises `WePayClientError`

Raises `WePayServerError`

Raises `WePayConnectionError`

1.2 `wepay.calls.account` Module

class `wepay.calls.account.`**`Account`**(*api*)

The /account API calls

`membership`

`Membership` call instance

`__call__`(*account_id*, ***kwargs*)

Call documentation: /account, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

`find`(***kwargs*)

Call documentation: /account/find, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

`create`(*name*, *description*, ***kwargs*)

Call documentation: /account/create, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

modify (*account_id*, ***kwargs*)

Call documentation: /account/modify, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

delete (*account_id*, ***kwargs*)

Call documentation: /account/delete, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

get_update_uri (*account_id*, ***kwargs*)

Call documentation: /account/get_update_uri, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

get_reserve_details (*account_id*, ***kwargs*)

Call documentation: /account/get_reserve_details, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`

- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

balance (*account_id*, ***kwargs*)

Call documentation: /account/balance, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

> **Warning:** This call is depricated as of API version '2014-01-08'.

add_bank (*account_id*, ***kwargs*)

Call documentation: /account/add_bank, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

> **Warning:** This call is depricated as of API version '2014-01-08'.

set_tax (*account_id*, *taxes*, ***kwargs*)

Call documentation: /account/set_tax, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

> **Warning:** This call is depricated as of API version '2014-01-08'.

get_tax (*account_id*, ***kwargs*)

Call documentation: /account/get_tax, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`

- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

Warning: This call is depricated as of API version '2014-01-08'.

1.3 `wepay.calls.app` Module

class `wepay.calls.app.`**App**(*api*)

The /app API calls

__call__(*client_id*, *client_secret*, ***kwargs*)

Call documentation: /app, plus extra keyword parameter:

Parameters

- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

modify(*client_id*, *client_secret*, ***kwargs*)

Call documentation: /app/modify, plus extra keyword parameter:

Parameters

- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

1.4 `wepay.calls.batch` Module

class `wepay.calls.batch.`**Batch**(*api*)

The /batch API calls

create(*client_id*, *client_secret*, *calls*, ***kwargs*)

Call documentation: /batch/create, plus extra keyword parameter:

Parameters **access_token** (*str*) – will be used instead of instance's `access_token`

1.5 `wepay.calls.checkout` Module

class `wepay.calls.checkout.`**Checkout**(*api*)

The /checkout API calls

__call__(*checkout_id*, ***kwargs*)

Call documentation: /checkout, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

find(*account_id*, ***kwargs*)

Call documentation: /checkout/find, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

create(*account_id*, *short_description*, *type*, *amount*, ***kwargs*)

Call documentation: /checkout/create, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

cancel(*checkout_id*, *cancel_reason*, ***kwargs*)

Call documentation: /checkout/cancel, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

refund(*checkout_id*, *refund_reason*, ***kwargs*)

Call documentation: /checkout/refund, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`

- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

capture(*checkout_id*, ***kwargs*)

Call documentation: /checkout/capture, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

modify(*checkout_id*, ***kwargs*)

Call documentation: /checkout/modify, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

1.6 `wepay.calls.credit_card` Module

class `wepay.calls.credit_card.`**CreditCard**(*api*)

The /credit_card API calls

__call__(*client_id*, *client_secret*, *credit_card_id*, ***kwargs*)

Call documentation: /credit_card, plus extra keyword parameter:

Parameters

- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

create(*client_id*, *cc_number*, *cvv*, *expiration_month*, *expiration_year*, *user_name*, *email*, *address*, ***kwargs*)

Call documentation: /credit_card/create, plus extra keyword parameter:

Parameters

- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

authorize(*client_id*, *client_secret*, *credit_card_id*, ***kwargs*)

Call documentation: /credit_card/authorize, plus extra keyword parameter:

Parameters

- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

find(*client_id*, *client_secret*, ***kwargs*)
Call documentation: /credit_card/find, plus extra keyword parameter:

Parameters

- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

delete(*client_id*, *client_secret*, *credit_card_id*, ***kwargs*)
Call documentation: /credit_card/delete, plus extra keyword parameter:

Parameters

- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

transfer(*client_id*, *client_secret*, *cc_number*, *expiration_month*, *expiration_year*, *user_name*, *email*, *address*, ***kwargs*)
Call documentation: /credit_card/transfer, plus extra keyword parameter:

Parameters

- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

1.7 `wepay.calls.oauth2` Module

class `wepay.calls.oauth2.`**OAuth2**(*api*)
API OAuth2 Endpoints

authorize(*client_id*, *redirect_uri*, *scope*, *state=None*, *user_name=None*, *user_email=None*)
Documentation: /oauth2/authorize.

> **Note:** This is not an API call but an actual uri that you send the user to.

token(*client_id*, *redirect_uri*, *client_secret*, *code*, ***kwargs*)
Call documentation: /oauth2/token, plus extra keyword parameter:

Parameters

- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`

- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

1.8 `wepay.calls.preapproval` Module

class `wepay.calls.preapproval.`**`Preapproval`**(*api*)

The /preapproval API calls

`__call__`(*preapproval_id*, ***kwargs*)

Call documentation: /preapproval, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

`find`(***kwargs*)

Call documentation: /preapproval/find, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

`create`(*short_description*, *period*, ***kwargs*)

Call documentation: /preapproval/create, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

`cancel`(*preapproval_id*, ***kwargs*)

Call documentation: /preapproval/cancel, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`

- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

modify (*preapproval_id*, ***kwargs*)
Call documentation: /preapproval/modify, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

1.9 `wepay.calls.subscription` Module

class `wepay.calls.subscription.`**Subscription** (*api*)
The /subscription API calls

__call__ (*subscription_id*, ***kwargs*)
Call documentation: /subscription, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

find (*subscription_plan_id*, ***kwargs*)
Call documentation: /subscription/find, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

create (*subscription_plan_id*, ***kwargs*)
Call documentation: /subscription/create, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`

- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

cancel (*subscription_id*, ***kwargs*)
Call documentation: /subscription/cancel, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

modify (*subscription_id*, ***kwargs*)
Call documentation: /subscription/modify, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

1.10 `wepay.calls.subscription_charge` Module

class `wepay.calls.subscription_charge.`**SubscriptionCharge** (*api*)
The /subscription_charge API calls

__call__ (*subscription_charge_id*, ***kwargs*)
Call documentation: /subscription_charge, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

find (*subscription_id*, ***kwargs*)
Call documentation: /subscription_charge/find, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`

- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

refund(*subscription_charge_id*, ***kwargs*)

Call documentation: /subscription_charge/refund, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

1.11 `wepay.calls.subscription_plan` Module

class `wepay.calls.subscription_plan.`**SubscriptionPlan**(*api*)

The /subscription_plan API calls

__call__(*subscription_plan_id*, ***kwargs*)

Call documentation: /subscription_plan, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

find(***kwargs*)

Call documentation: /subscription_plan/find, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

create(*account_id*, *name*, *short_description*, *amount*, *period*, ***kwargs*)

Call documentation: /subscription_plan/create, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`

- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

delete (*subscription_plan_id*, ***kwargs*)
Call documentation: /subscription_plan/delete, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

get_button (*account_id*, *button_type*, ***kwargs*)
Call documentation: /subscription_plan/get_button, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

modify (*subscription_plan_id*, ***kwargs*)
Call documentation: /subscription_plan/modify, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

1.12 `wepay.calls.user` Module

class `wepay.calls.user.`**User** (*api*)
The /user API calls

mfa
`Membership` call instance

__call__ (***kwargs*)
Call documentation: /user, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

modify(***kwargs*)

Call documentation: /user/modify, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

register(*client_id*, *client_secret*, *email*, *scope*, *first_name*, *last_name*, *original_ip*, *original_device*, ***kwargs*)

Call documentation: /user/register, plus extra keyword parameter:

Parameters

- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

Note: This call is NOT supported by API versions older then '2014-01-08'.

send_confirmation(***kwargs*)

Call documentation: /user/resend_confirmation, plus extra keyword parameter:

Parameters

- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

Note: This call is NOT supported by API versions older then '2014-01-08'.

1.13 `wepay.calls.withdrawal` Module

class `wepay.calls.withdrawal.`**Withdrawal**(*api*)

The /withdrawal API calls

__call__(*withdrawal_id*, ***kwargs*)

Call documentation: /withdrawal, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

find(*account_id*, ***kwargs*)

Call documentation: /withdrawal/find, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

modify(*withdrawal_id*, ***kwargs*)

Call documentation: /withdrawal/modify, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

create(*account_id*, ***kwargs*)

Call documentation: /withdrawal/create, plus extra keyword parameters:

Parameters

- **access_token** (*str*) – will be used instead of instance's `access_token`, with `batch_mode=True` will set *authorization* param to it's value.
- **batch_mode** (*bool*) – turn on/off the batch_mode, see `wepay.api.WePay`
- **batch_reference_id** (*str*) – *reference_id* param for batch call, see `wepay.api.WePay`
- **api_version** (*str*) – WePay API version, see `wepay.api.WePay`

> **Warning:** This call is depricated as of API version '2015-09-09'.

1.14 wepay.exceptions Module

exception `wepay.exceptions.`**`WePayError`**(*error*, *error_code*, *error_description*)

Raised whenever WePay API call was not successfull. WePay API Errors Documentation

`error`

Generic `error` category. Returned by WePay.

`error_code`

A specific "error_code" that you can use to program responses to errors. Returned by WePay.

`error_description`

A human readable `error_description` that explains why the error happened. Returned by WePay.

exception `wepay.exceptions.`**`WePayHTTPError`**(*http_error*, *status_code*, *error=None*, *error_code=None*, *error_description=None*)

This is a base http error

`status_code`

Error Code as specified by RFC 2616.

`http_error`

Instance of `urllib.error.HTTPError` or `requests.exceptions.HTTPError`, depending on the library you chose.

exception `wepay.exceptions.`**`WePayClientError`**(*http_error*, *status_code*, *error=None*, *error_code=None*, *error_description=None*)

This is a 4xx type error, which, most of the time, carries important error information about the object of interest.

exception `wepay.exceptions.`**`WePayServerError`**(*http_error*, *status_code*, *error=None*, *error_code=None*, *error_description=None*)

This is a 5xx type error, which, most of the time, means there is an error in implemetation or some unknown WePay Error, in latter case there is a chance there will be no *error*, *error_code* or *error_description* from WePay. It is recommended this exception is to be ignored or handled separatly in production.

exception `wepay.exceptions.`**`WePayConnectionError`**(*error*)

Raised in case there is a problem connecting to WePay servers, for instance when request times out.

`error`

Original exception raised by *urllib* or *requests* library. It will be either `urllib.error.URLError` or a subclass of `requests.exceptions.RequestExeption`. See their corresponding documentation if necessary.

CHAPTER 2

Installation

```
pip install python-wepay
```

CHAPTER 3

Latest build

Forkme on Github: python-wepay

CHAPTER 4

Quickstart Guide

This package suppose to make it easier to construct and send API calls in more Pythonic way rather than building dictionary with parameters and simply sending it to WePay servers.

Just like with official SDK the core of this package is `wepay.WePay` class, which needs to be instantiated with valid `access_token` and `production` arguments of your WePay Application, after which API calls can be made. All methods within `WePay` object mimic API calls from official Documentation in the way that normally would be expected, call names are directly mapped into functions with same names moreover all required parameters are passed to functions as `args` and optional ones as `kwargs`.

Methods that can perform calls on behalf of WePay User accept optional keyword argument `access_token`, which will then be used to perform a call instead of one the `wepay.WePay` class was instantiated with. Methods that can be used in a '/batch/create' call also accept `batch_mode` keyword argument, which instead of making a call will force it to return a dictionary, that can be used later on to perform a `wepay.WePay.batch_create()` call. Additionally each call accepts `api_version` and `timeout` keyword arguments, which specify a WePay API version and connection timeout respectively. An unrecognized keyword passed to those functions will produce a warning and an actuall error from WePay, if it is in fact an unrecognized parameter.

Quick Example

```
>>> WEPAY_ACCESS_TOKEN = 'STAGE_243b....'
>>> WEPAY_CLIENT_ID = 123456
>>> WEPAY_CLIENT_SECRET = '1a2b3c4e5f'
>>> WEPAY_DEFAULT_SCOPE = "manage_accounts,collect_payments,view_balance,view_user,preapprove_payment
>>> REDIRECT_URI = 'https://example.com/user/wepay/redirect'
>>> api = WePay(production=False, access_token=WEPAY_ACCESS_TOKEN)
>>> api.app(WEPAY_CLIENT_ID, WEPAY_CLIENT_SECRET)
{u'status': u'approved', u'theme_object': .....}
>>> redirect_uri = api.oauth2.authorize(WEPAY_CLIENT_ID, REDIRECT_URI, WEPAY_DEFAULT_SCOPE, user_emai
>>> redirect_uri
'https://stage.wepay.com/v2/oauth2/authorize?scope=manage_accounts%2C........'
>>> # Get the 'code' from url... (for detailed instructions on how to do it follow WePay documentatio
>>> response = api.oauth2.token(WEPAY_CLIENT_ID, redirect_uri, WEPAY_CLIENT_SECRET, '8c3e4aca23e1ed7
>>> response
{u'access_token': u'STAGE_f87....', u'token_type': u'BEARER', u'user_id': 87654321}
>>> access_token = response['access_token']
>>> api.account.create("Test Account", "Account will be used to make a lot of money", access_token=ac
{u'account_id': 1371765417, u'account_uri': u'https://stage.wepay.com/account/1371765417'}
>>> api.checkout.create(1371765417, "Short description.....
```

CHAPTER 5

Error Handling

Whenever you perform an API call and it results in an error, the are two possible causes:

- either there is a problem connecting to a WePay server (internet connection is down, WePay server is down, request times out, ssl validation failed, etc) in which case a call will raise `WePayConnectionError`. If the cause is timeout, consider increasing `timeout` value during `WePay` initialization or on per call basis, in particular for `batch.create()` call, since it can take a while for WePay to process up to 50 batched calls in one request.
- or there is a problem processing the actual call due to a WePay documented reason or for some other unknown reason, like an implemetation error on WePay side or a malformed response for instance. In this case either `WePayServerError` or `WePayClientError` will be raised.

So far, I've noticed that `WePayServerError's` happen due to incorect usage of API (ex. unrecognized api call) or a problem with WePay, while `WePayClientError's` can happen anytime, for instance in case of a credit card decline. I would recommend handling them in a separate way, but you can also simply catch `WePayHTTPError` and handle it depending on `error_code` and `status_code`. Above mentioned exceptions also give you access to the actual HTTP Error: `http_error` which will carry a response body inside, hence can give some more information on the nature of the error. If you really don't care about response body or HTTP status code, it is possible to just always catch `WePayError`, which carries only information documented by WePay.

Also note, that depending on the library used for making calls, different types of errors will be contained in `http_error` and `error`. Refer to their documentation to find detailed information: requests or urllib

So here is an example:

```
from wepay import WePay
from wepay.exceptions import WePayClientError, WePayServerError, WePayConnectionError

def get_withdrawal_uri(account_id, access_token):
    api = WePay(production=True, access_token=access_token, silent=True)
    try:
        response = api.account(account_id)
        for balance in response['balances']:
            if balance['currency'] == "USD":
                usd_balance = balance['balance']
                break
        if usd_balance > 0:
            response = api.withdrawal.create(account_id, currency="USD", note="Need Money!")
            return response['withdrawal_uri']
    except WePayClientError as exc:
        if exc.error_code == 3003:
            print "Sorry, this account was deleted"
        elif exc.error_code == 3002:
```

```
            print "Dummy, you used a wrong access_token"
        elif exc.error_code == 6002:
            print "What are you doing? You are not allowed to get money"
        else:
            print exc
    except WePayServerError as exc:
        print "Oh oh, something went wrong, please contact api@wepay.com"
        print exc
    except WePayConnectionError as exc:
        print "there was a problem connecting to WePay, please try again later"
        print exc
```

So now you could use this function to get a url where to send a user in case there is a positive balance. It's kind of useless, since WePay schedules Withdrawals automatically and it only supports "USD" currency at the moment, moreover it's easier to handle a 3005 `error_code`, instead of checking a balance first, but I hope it's good enough for demonstrating error handling.

```
>>> from myapp.settings import WEPAY_ACCOUNT_ID, WEPAY_ACCESS_TOKEN
>>> withdrawal_uri = get_withdrawal_uri(WEPAY_ACCOUNT_ID, WEPAY_ACCESS_TOKEN)
>>> if withdrawal_uri:
>>>     # send user to this uri to finish withdrawal creation process.
```

CHAPTER 6

Customizing SDK

Let's say you would like default values provided right away, or customize calls in some other handy way. For example you would like to supply some default values related specifically to your application and turn off objects you will never use:

```
from wepay import WePay, calls
from wepay.utils import cached_property

from myapp.settings import WEPAY_PRODUCTION, WEPAY_ACCESS_TOKEN, WEPAY_CLIENT_ID, WEPAY_CLIENT_SECRET


class App(calls.App):

    def __call__(self, **kwargs):
        return super(App, self).__call__(WEPAY_CLIENT_ID, WEPAY_CLIENT_SECRET, **kwargs)

    def modify(self, **kwargs):
        return super(App, self).modify(WEPAY_CLIENT_ID, WEPAY_CLIENT_SECRET, **kwargs)


class User(calls.User):

    def register(self, *args, **kwargs):
        return super(User, self).register(
            WEPAY_CLIENT_ID, WEPAY_CLIENT_SECRET, *args, **kwargs)


class Batch(calls.Batch):

    def create(self, calls, **kwargs):
        return super(Batch, self).create(
            WEPAY_CLIENT_ID, WEPAY_CLIENT_SECRET, calls, **kwargs)


class MyWePay(WePay):
    credit_card = None
    subscription_plan = None
    subscription = None
    subscription_charge = None

    def __init__(self, **kwargs):
         kwargs.setdefault('production', WEPAY_PRODUCTION)
         kwargs.setdefault('timeout', 45)
         kwargs.setdefault('access_token', WEPAY_ACCESS_TOKEN)
```

```
        kwargs['silent'] = True
        super(MyWePay, self).__init__(**kwargs)

    @cached_property
    def app(self):
        return App(self)

    @cached_property
    def user(self):
        return User(self)

    @cached_property
    def batch(self):
        return Batch(self)
```

This will effectively supply all of your WePay Application related info, for all of the calls you are planning on using, since other objects don't rely on `client_id` or `client_secret`, with an exception of App level Preapprovals, of course. `cached_property` decorator alows lazy call initialization and, although you could use a regular `property` decorator, `cached_property` is more efficient, since it initializes a call object only once per *`WePay`* instance, instead of every time a call is performed.

CHAPTER 7

Project Info

7.1 Changelog

7.1.1 1.5.0

- added `/account/membership/` calls.
- added `/user/mfa/` calls.
- New API version 2015-09-09 changes are reflected in this SDK version:
  - `/withrawal/create` is deprecated.
- New API version 2015-08-15 changes are reflected in this SDK version:
  - `/account/create` now accepts both old and new style params.
- removed deprecated call `/user/resend_confirmation`.
- `/accout/create` and `/account/modify` now accept `country_options` and `fee_schedule_slot` params
- added restricted `credit_card/transfer` call.

7.1.2 1.4.4

- renamed `user.resend_confirmation` call to `user.send_confirmation`.

7.1.3 1.4.3

- improved documentation.

7.1.4 1.4.0

- Removed backward compatibility with official Python WePay SDK.
- introduced `WePayHTTPError`, which is a base exception for both `WePayClientError` and `WePayServerError`
- added `cached_property` decorator.
- changed they way calls are initialized. This change doesn't affect the way calls are made.

7.1.5 1.3.5

- Fixed and improved error handling, new exceptions: `WePayClientError` and `WePayServerError`.

7.1.6 1.3.4

- Connection `timeout` can be specified on per call basis.

7.1.7 1.3.0

- Python 3 compatible
- Calls are made using requests library by default (if installed), falls back to urllib if *requests* are not installed or if `WePay` is initialized with `use_requests=False`.
- `WePayConnectionError` is raised in case there is a problem connecting to WePay server, ex. timeout.
- Addition of a full test suit.
- Minor:
  - 'original_ip' and 'original_device' params are now optional in */credit_card/create*.
  - `silent` mode is more flexible.
  - Moved `SubscriptionPlan` and `SubscriptionCharge` to their own modules.
  - Moved `WePayWarning` over to `wepay.exceptions` module.

7.1.8 1.2.0

- New API version 2014-01-08 changes are reflected in this SDK version:
  - implemented */user/register* and *user/resend_confirmation* calls.
  - added */account/get_update_uri* and */account/get_reserve_details*
  - depricated */account/add_bank*, */account/balance*, */account/get_tax* and */account/set_tax* calls.
- restructured SDK in such a way that all API objects are separate classes, so as an example, if we have a WePay instance `api = WePay()` and we want to make a */account/find* call, it will look like this `api.account.find()` instead of `api.account_find()` (notice `.` instead of _), although in this version both are equivalent, latter one is depricated and will be removed in version 1.3. Despite these changes lookup calls will be the same, ex. `api.account(12345)`.
- Added flexibility to use different API version per call basis. So it is now possible to make a depricated call like this: `api.account.balance(1234, api_version='2011-01-15')`
- added `batch_reference_id` keyword argument to each call that accepts `batch_mode`

7.1.9 1.1.2

- Added required arguments to */credit_card/create* call:
  - original_ip
  - original_device

7.1.10 1.1.0

- Added subscription calls:
  - */subscription_plan*
  - */subscription*
  - */subscription_charge*
- Few bug and spelling fixes.

7.1.11 1.0.0

- Initial release

7.2 Authors

- Alexey Kuleshevich <lehins@yandex.ru> @lehins

7.3 License

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