python-binance Documentation

Release 0.2.0

Sam McHardy

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Contents

CHAPTER 1

Note

this library is not under active development by sammchardy. however, the community has been actively contributing lots of PRs. If you find missing features please submit a PR. please keep PRs small and non-breaking.

This is an unofficial Python wrapper for the Binance exchange REST API v3. I am in no way affiliated with Binance, use at your own risk.

If you came here looking for the Binance exchange to purchase cryptocurrencies, then go here. If you want to automate interactions with Binance stick around.

If you're interested in Binance's new DEX Binance Chain see my python-binance-chain library

Source code https://github.com/sammchardy/python-binance

Documentation https://python-binance.readthedocs.io/en/latest/

Binance API Telegram https://t.me/binance_api_english

Blog with examples https://sammchardy.github.io

Make sure you update often and check the Changelog for new features and bug fixes.

CHAPTER 2

Features

- Implementation of all General, Market Data and Account endpoints.
- Simple handling of authentication
- No need to generate timestamps yourself, the wrapper does it for you
- Response exception handling
- Websocket handling with reconnection and multiplexed connections
- Symbol Depth Cache
- Historical Kline/Candle fetching function
- Withdraw functionality
- Deposit addresses
- Margin Trading
- Futures Trading
- Support other domains (.us, .jp, etc)

CHAPTER 3

Quick Start

Register an account with Binance.

Generate an API Key and assign relevant permissions.

```
pip install python-binance
```

```
from binance.client import Client
client = Client(api_key, api_secret)

# get market depth
depth = client.get_order_book(symbol='BNBBTC')

# place a test market buy order, to place an actual order use the create_order␣
↪function
order = client.create_test_order(
    symbol='BNBBTC',
    side=Client.SIDE_BUY,
    type=Client.ORDER_TYPE_MARKET,
    quantity=100)

# get all symbol prices
prices = client.get_all_tickers()

# withdraw 100 ETH
# check docs for assumptions around withdrawals
from binance.exceptions import BinanceAPIException, BinanceWithdrawException
try:
    result = client.withdraw(
        asset='ETH',
        address='<eth_address>',
        amount=100)
except BinanceAPIException as e:
    print(e)
except BinanceWithdrawException as e:
```

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```
    print(e)
else:
    print("Success")

# fetch list of withdrawals
withdraws = client.get_withdraw_history()

# fetch list of ETH withdrawals
eth_withdraws = client.get_withdraw_history(asset='ETH')

# get a deposit address for BTC
address = client.get_deposit_address(asset='BTC')

# start aggregated trade websocket for BNBBTC
def process_message(msg):
    print("message type: {}".format(msg['e']))
    print(msg)
    # do something

from binance.websockets import BinanceSocketManager
bm = BinanceSocketManager(client)
bm.start_aggtrade_socket('BNBBTC', process_message)
bm.start()

# get historical kline data from any date range

# fetch 1 minute klines for the last day up until now
klines = client.get_historical_klines("BNBBTC", Client.KLINE_INTERVAL_1MINUTE, "1 day␣
↪ago UTC")

# fetch 30 minute klines for the last month of 2017
klines = client.get_historical_klines("ETHBTC", Client.KLINE_INTERVAL_30MINUTE, "1␣
↪Dec, 2017", "1 Jan, 2018")

# fetch weekly klines since it listed
klines = client.get_historical_klines("NEOBTC", Client.KLINE_INTERVAL_1WEEK, "1 Jan,␣
↪2017")
```

For more check out the documentation.

CHAPTER 4

Donate

If this library helped you out feel free to donate.

- ETH: 0xD7a7fDdCfA687073d7cC93E9E51829a727f9fE70
- LTC: LPC5vw9ajR1YndE1hYVeo3kJ9LdHjcRCUZ
- NEO: AVJB4ZgN7VgSUtArCt94y7ZYT6d5NDfpBo
- BTC: 1Dknp6L6oRZrHDECRedihPzx2sSfmvEBys

CHAPTER 5

Other Exchanges

If you use Binance Chain check out my python-binance-chain library.

If you use Kucoin check out my python-kucoin library.

If you use IDEX check out my python-idex library.

5.1 Contents

5.1.1 Getting Started

Installation

`python-binance` is available on PYPI. Install with `pip`:

```
pip install python-binance
```

Windows

If you see errors building Twisted indication Microsoft Visual C++ is required you may need to install the Visual C++ Build Tools refer to the Python Wiki on Widows Compilers for your relevant version.

Register on Binance

Firstly register an account with Binance.

Generate an API Key

To use signed account methods you are required to create an API Key.

Initialise the client

Pass your API Key and Secret

```
from binance.client import Client
client = Client(api_key, api_secret)
```

Making API Calls

Every method supports the passing of arbitrary parameters via keyword matching those in the‘Binance API documentation <https://github.com/binance-exchange/binance-official-api-docs>‘_. These keyword arguments will be sent directly to the relevant endpoint.

Each API method returns a dictionary of the JSON response as per the Binance API documentation. The docstring of each method in the code references the endpoint it implements.

The Binance API documentation references a *timestamp* parameter, this is generated for you where required.

Some methods have a *recvWindow* parameter for timing security, see Binance documentation.

API Endpoints are rate limited by Binance at 20 requests per second, ask them if you require more.

API Rate Limit

Check the get_exchange_info() call for up to date rate limits.

At the current time Binance rate limits are:

- 1200 requests per minute
- 10 orders per second
- 100,000 orders per 24hrs

Some calls have a higher weight than others especially if a call returns information about all symbols. Read the **‘official Binance documentation <https://github.com/binance-exchange/binance-official-api-docs‘_** for specific information.

Requests Settings

python-binance uses the requests library.

You can set custom requests parameters for all API calls when creating the client.

```
client = Client("api-key", "api-secret", {"verify": False, "timeout": 20})
```

You may also pass custom requests parameters through any API call to override default settings or the above settingsspecify new ones like the example below.

```
# this would result in verify: False and timeout: 5 for the get_all_orders call
client = Client("api-key", "api-secret", {"verify": False, "timeout": 20})
client.get_all_orders(symbol='BNBBTC', requests_params={'timeout': 5})
```

Check out the requests documentation for all options.

Proxy Settings

You can use the Requests Settings method above

```
proxies = {
    'http': 'http://10.10.1.10:3128',
    'https': 'http://10.10.1.10:1080'
}

# in the Client instantiation
client = Client("api-key", "api-secret", {'proxies': proxies})

# or on an individual call
client.get_all_orders(symbol='BNBBTC', requests_params={'proxies': proxies})
```

Or set an environment variable for your proxy if required to work across all requests.

An example for Linux environments from the requests Proxies documentation is as follows.

```
$ export HTTP_PROXY="http://10.10.1.10:3128"
$ export HTTPS_PROXY="http://10.10.1.10:1080"
```

For Windows environments

```
C:\>set HTTP_PROXY=http://10.10.1.10:3128
C:\>set HTTPS_PROXY=http://10.10.1.10:1080
```

5.1.2 Binance Constants

Binance requires specific string constants for Order Types, Order Side, Time in Force, Order response and Kline intervals these are found on *binance.client.Client*.

```
SYMBOL_TYPE_SPOT = 'SPOT'

ORDER_STATUS_NEW = 'NEW'
ORDER_STATUS_PARTIALLY_FILLED = 'PARTIALLY_FILLED'
ORDER_STATUS_FILLED = 'FILLED'
ORDER_STATUS_CANCELED = 'CANCELED'
ORDER_STATUS_PENDING_CANCEL = 'PENDING_CANCEL'
ORDER_STATUS_REJECTED = 'REJECTED'
ORDER_STATUS_EXPIRED = 'EXPIRED'

KLINE_INTERVAL_1MINUTE = '1m'
KLINE_INTERVAL_3MINUTE = '3m'
KLINE_INTERVAL_5MINUTE = '5m'
KLINE_INTERVAL_15MINUTE = '15m'
KLINE_INTERVAL_30MINUTE = '30m'
KLINE_INTERVAL_1HOUR = '1h'
KLINE_INTERVAL_2HOUR = '2h'
KLINE_INTERVAL_4HOUR = '4h'
KLINE_INTERVAL_6HOUR = '6h'
KLINE_INTERVAL_8HOUR = '8h'
KLINE_INTERVAL_12HOUR = '12h'
KLINE_INTERVAL_1DAY = '1d'
KLINE_INTERVAL_3DAY = '3d'
KLINE_INTERVAL_1WEEK = '1w'
KLINE_INTERVAL_1MONTH = '1M'

SIDE_BUY = 'BUY'
SIDE_SELL = 'SELL'
```

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```
ORDER_TYPE_LIMIT = 'LIMIT'
ORDER_TYPE_MARKET = 'MARKET'
ORDER_TYPE_STOP_LOSS = 'STOP_LOSS'
ORDER_TYPE_STOP_LOSS_LIMIT = 'STOP_LOSS_LIMIT'
ORDER_TYPE_TAKE_PROFIT = 'TAKE_PROFIT'
ORDER_TYPE_TAKE_PROFIT_LIMIT = 'TAKE_PROFIT_LIMIT'
ORDER_TYPE_LIMIT_MAKER = 'LIMIT_MAKER'

TIME_IN_FORCE_GTC = 'GTC'
TIME_IN_FORCE_IOC = 'IOC'
TIME_IN_FORCE_FOK = 'FOK'

ORDER_RESP_TYPE_ACK = 'ACK'
ORDER_RESP_TYPE_RESULT = 'RESULT'
ORDER_RESP_TYPE_FULL = 'FULL'

# For accessing the data returned by Client.aggregate_trades().
AGG_ID             = 'a'
AGG_PRICE          = 'p'
AGG_QUANTITY       = 'q'
AGG_FIRST_TRADE_ID = 'f'
AGG_LAST_TRADE_ID  = 'l'
AGG_TIME           = 'T'
AGG_BUYER_MAKES    = 'm'
AGG_BEST_MATCH     = 'M'
```

For Websocket Depth these are found on *binance.websockets.BinanceSocketManager*

```
WEBSOCKET_DEPTH_5 = '5'
WEBSOCKET_DEPTH_10 = '10'
WEBSOCKET_DEPTH_20 = '20'
```

To use in your code reference either binance.client.Client or binance.websockets.BinanceSocketManager

```
from binance.client import Client
from binance.websockets import BinanceSocketManager

side = Client.SIDE_BUY
```

5.1.3 General Endpoints

Ping the server

```
client.ping()
```

Get the server time

```
time_res = client.get_server_time()
```

Get system status

```
status = client.get_system_status()
```

Returns

```
{
    "status": 0,        # 0: normal1system maintenance
    "msg": "normal"     # normal or System maintenance.
}
```

Get Exchange Info

```
info = client.get_exchange_info()
```

Get Symbol Info

Get the exchange info for a particular symbol

```
info = client.get_symbol_info('BNBBTC')
```

Get All Coins Info

Get information of coins (available for deposit and withdraw) for user

```
info = client.get_all_tickers()
```

Get Get Daily Account Snapshot

Get daily account snapshot of specific type. Valid types: SPOT/MARGIN/FUTURES.

```
info = client.get_account_snapshot(type='SPOT')
```

Get Current Products

This call is deprecated, use the above Exchange Info call

```
products = client.get_products()
```

5.1.4 Market Data Endpoints

Get Market Depth

```
depth = client.get_order_book(symbol='BNBBTC')
```

Get Recent Trades

```
trades = client.get_recent_trades(symbol='BNBBTC')
```

Get Historical Trades

```
trades = client.get_historical_trades(symbol='BNBBTC')
```

Get Aggregate Trades

```
trades = client.get_aggregate_trades(symbol='BNBBTC')
```

Aggregate Trade Iterator

Iterate over aggregate trades for a symbol from a given date or a given order id.

```
agg_trades = client.aggregate_trade_iter(symbol='ETHBTC', start_str='30 minutes ago␣
↪UTC')

# iterate over the trade iterator
for trade in agg_trades:
    print(trade)
    # do something with the trade data

# convert the iterator to a list
# note: generators can only be iterated over once so we need to call it again
agg_trades = client.aggregate_trade_iter(symbol='ETHBTC', '30 minutes ago UTC')
agg_trade_list = list(agg_trades)

# example using last_id value
agg_trades = client.aggregate_trade_iter(symbol='ETHBTC', last_id=23380478)
agg_trade_list = list(agg_trades)
```

Get Kline/Candlesticks

```
candles = client.get_klines(symbol='BNBBTC', interval=Client.KLINE_INTERVAL_30MINUTE)
```

Get Historical Kline/Candlesticks

Fetch klines for any date range and interval

```
# fetch 1 minute klines for the last day up until now
klines = client.get_historical_klines("BNBBTC", Client.KLINE_INTERVAL_1MINUTE, "1 day␣
↪ago UTC")

# fetch 30 minute klines for the last month of 2017
klines = client.get_historical_klines("ETHBTC", Client.KLINE_INTERVAL_30MINUTE, "1␣
↪Dec, 2017", "1 Jan, 2018")
```

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```
# fetch weekly klines since it listed
klines = client.get_historical_klines("NEOBTC", Client.KLINE_INTERVAL_1WEEK, "1 Jan,␣
↪2017")
```

Get Historical Kline/Candlesticks using a generator

Fetch klines using a generator

```
for kline in client.get_historical_klines_generator("BNBBTC", Client.KLINE_INTERVAL_
↪1MINUTE, "1 day ago UTC")
    print(kline)
    # do something with the kline
```

Get average price for a symbol

```
avg_price = client.get_avg_price(symbol='BNBBTC')
```

Get 24hr Ticker

```
tickers = client.get_ticker()
```

Get All Prices

Get last price for all markets.

```
prices = client.get_all_tickers()
```

Get Orderbook Tickers

Get first bid and ask entry in the order book for all markets.

```
tickers = client.get_orderbook_tickers()
```

5.1.5 Account Endpoints

Orders

Order Validation

Binance has a number of rules around symbol pair orders with validation on minimum price, quantity and total order value.

Read more about their specifics in the Filters section of the official API.

It can be helpful to format the output using the following snippet

```
amount = 0.000234234
precision = 5
amt_str = "{:0.0{}f}".format(amount, precision)
```

Fetch all orders

```
orders = client.get_all_orders(symbol='BNBBTC', limit=10)
```

Place an order

Place an order

Use the *create_order* function to have full control over creating an order

```
from binance.enums import *
order = client.create_order(
    symbol='BNBBTC',
    side=SIDE_BUY,
    type=ORDER_TYPE_LIMIT,
    timeInForce=TIME_IN_FORCE_GTC,
    quantity=100,
    price='0.00001')
```

Place a limit order

Use the helper functions to easily place a limit buy or sell order

```
order = client.order_limit_buy(
    symbol='BNBBTC',
    quantity=100,
    price='0.00001')

order = client.order_limit_sell(
    symbol='BNBBTC',
    quantity=100,
    price='0.00001')
```

Place a market order

Use the helper functions to easily place a market buy or sell order

```
order = client.order_market_buy(
    symbol='BNBBTC',
    quantity=100)

order = client.order_market_sell(
    symbol='BNBBTC',
    quantity=100)
```

Place an OCO order

Use the *create_oco_order* function to have full control over creating an OCO order

```
from binance.enums import *
order = client.create_oco_order(
    symbol='BNBBTC',
    side=SIDE_SELL,
    stopLimitTimeInForce=TIME_IN_FORCE_GTC,
    quantity=100,
    stopPrice='0.00001',
    price='0.00002')
```

Place a test order

Creates and validates a new order but does not send it into the exchange.

```
from binance.enums import *
order = client.create_test_order(
    symbol='BNBBTC',
    side=SIDE_BUY,
    type=ORDER_TYPE_LIMIT,
    timeInForce=TIME_IN_FORCE_GTC,
    quantity=100,
    price='0.00001')
```

Check order status

```
order = client.get_order(
    symbol='BNBBTC',
    orderId='orderId')
```

Cancel an order

```
result = client.cancel_order(
    symbol='BNBBTC',
    orderId='orderId')
```

Get all open orders

```
orders = client.get_open_orders(symbol='BNBBTC')
```

Get all orders

```
orders = client.get_all_orders(symbol='BNBBTC')
```

Account

Get account info

```
info = client.get_account()
```

Get asset balance

```
balance = client.get_asset_balance(asset='BTC')
```

Get account status

```
status = client.get_account_status()
```

Get account API trading status

```
status = client.get_account_api_trading_status()
```

Get trades

```
trades = client.get_my_trades(symbol='BNBBTC')
```

Get trade fees

```
# get fees for all symbols
fees = client.get_trade_fee()

# get fee for one symbol
fees = client.get_trade_fee(symbol='BNBBTC')
```

Get asset details

```
details = client.get_asset_details()
```

Get dust log

```
log = client.get_dust_log()
```

Transfer dust

```
transfer = client.transfer_dust(asset='BNZ')
```

Get Asset Dividend History

```
history = client.get_asset_dividend_history()
```

Disable Fast Withdraw Switch

```
client.disable_fast_withdraw_switch()
```

Enable Fast Withdraw Switch

```
client.enable_fast_withdraw_switch()
```

5.1.6 Sub Account Endpoints

Get Sub Account list

```
accounts = client.get_sub_account_list()
```

Get Sub Account Transfer History

```
history = client.get_sub_account_transfer_history(email='blah@gmail.com')
```

Create Sub Account Transfer

```
transfer = client.create_sub_account_transfer(
    fromEmail='from@gmail.com',
    toEmail='to@gmail.com',
    asset='BNB',
    amount='100'
)
```

Get Sub Account Assets

```
assets = client.get_sub_account_assets(email='blah@gmail.com')
```

5.1.7 Margin Trading Endpoints

Note: Cross-margin vs isolated margin trading

Binance offers both *cross-margin* trading (where all margin is in one account) and *isolated margin* trading (where each pair is a separate margin account). Make sure you are interacting with the right one.

Some of the API endpoints apply to the cross-margin or isolated margin accounts only. Other endpoints, such as the trade execution endpoints, are used for the cross-margin account trades by default, but you can use your isolated margin accounts by using the `isIsolated` or `isolatedSymbol` parameters. See the documentation below.

Market Data

Get cross-margin asset info

```
info = client.get_margin_asset(asset='BNB')
```

Get cross-margin symbol info

```
info = client.get_margin_symbol(symbol='BTCUSDT')
```

Get isolated margin symbol info

```
info = client.get_isolated_margin_symbol(symbol='BTCUSDT')
```

Get all isolated margin symbols

```
info = client.get_all_isolated_margin_symbols()
```

Get margin price index

```
info = client.get_margin_price_index(symbol='BTCUSDT')
```

Orders

Cross-margin vs isolated margin orders

By default, these trade execution endpoints will create an order using the *cross-margin* account.

To use the *isolated margin* account for the `symbol` you have specified, simply add the `isIsolated='TRUE'` parameter to the API calls below in this 'Orders' section.

Order Validation

Binance has a number of rules around symbol pair orders with validation on minimum price, quantity and total order value.

Read more about their specifics in the Filters section of the official API.

It can be helpful to format the output using the following snippet

```
amount = 0.000234234
precision = 5
amt_str = "{:0.0{}f}".format(amount, precision)
```

Fetch all margin_orders

```
orders = client.get_all_margin_orders(symbol='BNBBTC', limit=10)
```

Place a margin order

Use the *create_margin_order* function to have full control over creating an order

```
from binance.enums import *
order = client.create_margin_order(
    symbol='BNBBTC',
    side=SIDE_BUY,
    type=ORDER_TYPE_LIMIT,
    timeInForce=TIME_IN_FORCE_GTC,
    quantity=100,
    price='0.00001')
```

Check order status

```
order = client.get_margin_order(
    symbol='BNBBTC',
    orderId='orderId')
```

Cancel a margin order

```
result = client.cancel_margin_order(
    symbol='BNBBTC',
    orderId='orderId')
```

Get all open margin orders

```
orders = client.get_open_margin_orders(symbol='BNBBTC')
```

For isolated margin, add the `isIsolated='TRUE'` parameter.

Get all margin orders

```
orders = client.get_all_margin_orders(symbol='BNBBTC')
```

For isolated margin, add the `isIsolated='TRUE'` parameter.

Account

Get cross-margin account info

```
info = client.get_margin_account()
```

Create isolated margin account

```
account = client.create_isolated_margin_account(base='BTC', quote='ETH')
```

Get isolated margin account info

```
info = client.get_isolated_margin_account()
```

Transfer spot to cross-margin account

```
transaction = client.transfer_spot_to_margin(asset='BTC', amount='1.1')
```

Transfer cross-margin account to spot

```
transaction = client.transfer_margin_to_spot(asset='BTC', amount='1.1')
```

Transfer spot to isolated margin account

```
transaction = client.transfer_spot_to_isolated_margin(asset='BTC',
                                                       symbol='ETHBTC', amount='1.1')
```

Transfer isolated margin account to spot

```
transaction = client.transfer_isolated_margin_to_spot(asset='BTC',
                                                       symbol='ETHBTC', amount='1.1')
```

Get max transfer amount

```
details = client.get_max_margin_transfer(asset='BTC')
```

This max transfer is for the cross-margin account by default. For isolated margin records, add the `isolatedSymbol=symbol_name` parameter.

Trades

Get all margin trades

```
trades = client.get_margin_trades(symbol='BNBBTC')
```

For isolated margin trades, add the `isIsolated='TRUE'` parameter.

Loans

Create loan

```
transaction = client.create_margin_loan(asset='BTC', amount='1.1')
```

This for the cross-margin account by default. For isolated margin, add the `isIsolated='TRUE'` and the `symbol=symbol_name` parameters.

Repay loan

```
transaction = client.repay_margin_loan(asset='BTC', amount='1.1')
```

This for the cross-margin account by default. For isolated margin, add the `isIsolated='TRUE'` and the `symbol=symbol_name` parameters.

Get loan details

```
details = client.get_margin_loan_details(asset='BTC', txId='100001')
```

This for the cross-margin account by default. For isolated margin records, add the `isolatedSymbol=symbol_name` parameter.

Get repay details

```
details = client.get_margin_repay_details(asset='BTC', txId='100001')
```

This for the cross-margin account by default. For isolated margin records, add the `isolatedSymbol=symbol_name` parameter.

Get max loan amount

```
details = client.get_max_margin_loan(asset='BTC')
```

The max loan is for the cross-margin account by default. For isolated margin records, add the `isolatedSymbol=symbol_name` parameter.

5.1.8 Websockets

Sockets are handled through a Socket Manager BinanceSocketManager.

Multiple socket connections can be made through the manager.

Only one instance of each socket type will be created, i.e. only one BNBBTC Depth socket can be created and there can be both a BNBBTC Depth and a BNBBTC Trade socket open at once.

When creating socket connections a callback function is passed which receives the messages.

Messages are received as dictionary objects relating to the message formats defined in the Binance WebSocket API documentation.

Websockets are setup to reconnect with a maximum of 5 retries.

Websocket Usage

Create the manager like so, passing the API client.

```
from binance.websockets import BinanceSocketManager
bm = BinanceSocketManager(client)
# start any sockets here, i.e a trade socket
conn_key = bm.start_trade_socket('BNBBTC', process_message)
# then start the socket manager
bm.start()
```

A callback to process messages would take the format

```
def process_message(msg):
    print("message type: {}".format(msg['e']))
    print(msg)
    # do something
```

Set a custom timeout for the websocket connection

```
# set a timeout of 60 seconds
bm = BinanceSocketManager(client, user_timeout=60)
```

Websocket Errors

If the websocket is disconnected and is unable to reconnect a message is sent to the callback to indicate this. The format is

```
{
    'e': 'error',
    'm': 'Max reconnect retries reached'
}

# check for it like so
def process_message(msg):
    if msg['e'] == 'error':
        # close and restart the socket
    else:
        # process message normally
```

Multiplex Socket

Create a socket combining multiple streams.

These streams can include the depth, kline, ticker and trade streams but not the user stream which requires extra authentication.

Symbols in socket name must be lowercase i.e bnbbtc@aggTrade, neobtc@ticker

See the Binance Websocket Streams API documentation for details on socket names.

```
def process_m_message(msg):
    print("stream: {} data: {}".format(msg['stream'], msg['data']))

# pass a list of stream names
conn_key = bm.start_multiplex_socket(['bnbbtc@aggTrade', 'neobtc@ticker'], process_m_
↪message)
```

Depth Socket

Depth sockets have an optional depth parameter to receive partial book rather than a diff response. By default this the diff response is returned. Valid depth values are 5, 10 and 20 and defined as enums.

```
# depth diff response
diff_key = bm.start_depth_socket('BNBBTC', process_message)

# partial book response
partial_key = bm.start_depth_socket('BNBBTC', process_message,␣
↪depth=BinanceSocketManager.WEBSOCKET_DEPTH_5)
```

Kline Socket

Kline sockets have an optional interval parameter. By default this is set to 1 minute. Valid interval values are defined as enums.

```
from binance.enums import *
conn_key = bm.start_kline_socket('BNBBTC', process_message, interval=KLINE_INTERVAL_
↪30MINUTE)
```

Aggregated Trade Socket

```
conn_key = bm.start_aggtrade_socket('BNBBTC', process_message)
```

Trade Socket

```
conn_key = bm.start_trade_socket('BNBBTC', process_message)
```

Symbol Ticker Socket

```
conn_key = bm.start_symbol_ticker_socket('BNBBTC', process_message)
```

Ticker Socket

```
conn_key = bm.start_ticker_socket(process_message)
```

Mini Ticker Socket

```
# by default updates every second
conn_key = bm.start_miniticker_socket(process_message)

# this socket can take an update interval parameter
# set as 5000 to receive updates every 5 seconds
conn_key = bm.start_miniticker_socket(process_message, 5000)
```

User Socket

This watches for 3 different user events

- Account Update Event
- Order Update Event
- Trade Update Event

The Manager handles keeping the socket alive.

There are separate sockets for Spot, Cross-margin and separate Isolated margin accounts.

Spot trading

```
bm.start_user_socket(process_message)
```

Cross-margin

```
bm.start_margin_socket(process_message)
```

Isolated margin

```
bm.start_isolated_margin_socket(symbol, process_message)
```

Close a Socket

To close an individual socket call the *stop_socket* function. This takes a conn_key parameter which is returned when starting the socket.

```
bm.stop_socket(conn_key)
```

To stop all sockets and end the manager call *close* after doing this a *start* call would be required to connect any new sockets.

```
bm.close()
```

Close and exit program

Websockets utilise a reactor loop from the Twisted library. Using the *close* method above will close the websocket connections but it won't stop the reactor loop so your code may not exit when you expect.

If you do want to exit then use the *stop* method from reactor like below.

```
from twisted.internet import reactor

# program code here

# when you need to exit
reactor.stop()
```

5.1.9 Depth Cache

To follow the depth cache updates for a symbol use the *DepthCacheManager*. For vanilla options use the *Options-DepthCacheManager*.

Create the manager like so, passing the api client, symbol and an optional callback function.

```
from binance.depthcache import DepthCacheManager
dcm = DepthCacheManager(client, 'BNBBTC', callback=process_depth)
```

The callback function receives the current *DepthCache* object which allows access to a pre-sorted list of bids or asks able to be filtered as required.

Access the symbol value from the *depth_cache* object in case you have multiple caches using the same callback.

By default the depth cache will fetch the order book via REST request every 30 minutes. This duration can be changed by using the *refresh_interval* parameter. To disable the refresh pass 0 or None. The socket connection will stay open receiving updates to be replayed once the full order book is received.

Share a Socket Manager

Here dcm1 and dcm2 share the same instance of BinanceSocketManager

```
from binance.websockets import BinanceSocketManager
from binance.depthcache import DepthCacheManager
bm = BinanceSocketManager(client)
dcm1 = DepthCacheManager(client, 'BNBBTC', callback=process_depth1, bm=bm)
dcm2 = DepthCacheManager(client, 'ETHBTC', callback=process_depth2, bm=bm)
```

Because they both share the same BinanceSocketManager calling close can close both message streams.

```
# close just dcm1 stream
dcm1.close()

# close the underlying socket manager as well
dcm1.close(close_socket=True)
```

Websocket Errors

If the underlying websocket is disconnected and is unable to reconnect None is returned for the depth_cache parameter.

Examples

```
# 1 hour interval refresh
dcm = DepthCacheManager(client, 'BNBBTC', callback=process_depth, refresh_
↪interval=60*60)

# disable refreshing
dcm = DepthCacheManager(client, 'BNBBTC', callback=process_depth, refresh_interval=0)
```

```
def process_depth(depth_cache):
    if depth_cache is not None:
        print("symbol {}".format(depth_cache.symbol))
        print("top 5 bids")
        print(depth_cache.get_bids()[:5])
        print("top 5 asks")
        print(depth_cache.get_asks()[:5])
        print("last update time {}".format(depth_cache.update_time)
    else:
        # depth cache had an error and needs to be restarted
```

At any time the current *DepthCache* object can be retrieved from the *DepthCacheManager*

```
depth_cache = dcm.get_depth_cache()
if depth_cache is not None:
    print("symbol {}".format(depth_cache.symbol))
    print("top 5 bids")
    print(depth_cache.get_bids()[:5])
    print("top 5 asks")
    print(depth_cache.get_asks()[:5])
        print("last update time {}".format(depth_cache.update_time)
else:
    # depth cache had an error and needs to be restarted
```

To stop the *DepthCacheManager* from returning messages use the *close* method. This will close the internal websocket and this instance of the *DepthCacheManager* will not be able to be used again.

```
dcm.close()
```

5.1.10 Withdraw Endpoints

Place a withdrawal

Make sure you enable Withdrawal permissions for your API Key to use this call.

You must have withdrawn to the address through the website and approved the withdrawal via email before you can withdraw using the API.

Raises a BinanceWithdrawException if the withdraw fails.

```
from binance.exceptions import BinanceAPIException, BinanceWithdrawException
try:
    # name parameter will be set to the asset value by the client if not passed
    result = client.withdraw(
        asset='ETH',
        address='<eth_address>',
        amount=100)
except BinanceAPIException as e:
    print(e)
except BinanceWithdrawException as e:
    print(e)
else:
    print("Success")

# passing a name parameter
result = client.withdraw(
    asset='ETH',
    address='<eth_address>',
    amount=100,
    name='Withdraw')

# if the coin requires a extra tag or name such as XRP or XMR then pass an
↪`addressTag` parameter.
result = client.withdraw(
    asset='XRP',
    address='<xrp_address>',
    addressTag='<xrp_address_tag>',
    amount=10000)
```

Fetch deposit history

```
deposits = client.get_deposit_history()
btc_deposits = client.get_deposit_history(asset='BTC')
```

Fetch withdraw history

```
withdraws = client.get_withdraw_history()
btc_withdraws = client.get_withdraw_history(asset='BTC')
```

Get deposit address

```
address = client.get_deposit_address(asset='BTC')
```

5.1.11 Helper Functions

`binance.helpers`
alias of *binance.helpers*

5.1.12 Exceptions

BinanceRequestException

Raised if a non JSON response is returned

BinanceAPIException

On an API call error a binance.exceptions.BinanceAPIException will be raised.

The exception provides access to the

- *status_code* - response status code
- *response* - response object
- *code* - Binance error code
- *message* - Binance error message
- *request* - request object if available

```
try:
    client.get_all_orders()
except BinanceAPIException as e:
    print e.status_code
    print e.message
```

BinanceWithdrawException

Raised if the withdraw fails.

5.1.13 FAQ

Q: Why do I get "Timestamp for this request is not valid"

A: This occurs in 2 different cases.

The timestamp sent is outside of the serverTime - recvWindow value The timestamp sent is more than 1000ms ahead of the server time

Check that your system time is in sync. See this issue for some sample code to check the difference between your local time and the Binance server time.

Q: Why do I get "Signature for this request is not valid"

A1: One of your parameters may not be in the correct format.

Check recvWindow is an integer and not a string.

A2: You may need to regenerate your API Key and Secret

A3: You may be attempting to access the API from a Chinese IP address, these are now restricted by Binance.

Q: Twisted won't install using pip on Windows

A:If you see errors building Twisted indication Microsoft Visual C++ is required you may need to install the Visual C++ Build Tools refer to the Python Wiki on Widows Compilers for your relevant version.

5.1.14 Changelog

v0.7.5.dev

Changed - Stock json lib to ujson (https://github.com/sammchardy/python-binance/pull/383)

v0.7.5 - 2020-02-06

Added

- Futures REST endpoints
- Lending REST endpoints
- OCO Orders function *create_oco_order*, *order_oco_buy*, *order_oco_sell*
- Average Price function *get_avg_price*
- Support for other domains (.us, .jp, etc)

Updated

- dependencies

Fixed

- websocket keepalive callback not found

v0.7.4 - 2019-09-22

Added

- symbol book ticker websocket streams
- margin websocket stream

Updated

- can call Client without any params
- make response a property of the Client class so you can access response properties after a request

Fixed

- issue with None value params causing errors

v0.7.3 - 2019-08-12

Added

- sub account endpoints
- dust transfer endpoint
- asset divident history endpoint

Removed

- deprecated withdraw fee endpoint

v0.7.2 - 2019-08-01

Added

- margin trading endpoints

Fixed

- depth cache clearing bug

v0.7.1 - 2019-01-23

Added

- limit param to DepthCacheManager
- limit param to get_historical_klines
- update_time to DepthCache class

Updated

- test coverage

Fixed

- super init in Websocket class
- removal of request params from signature
- empty set issue in aggregate_trade_iter

v0.7.0 - 2018-08-08

Added

- get_asset_details endpoint
- get_dust_log endpoint
- get_trade_fee endpoint
- ability for multiple DepthCacheManagers to share a BinanceSocketManager
- get_historial_klines_generator function
- custom socket timeout param for BinanceSocketManager

Updated

- general dependency version
- removed support for python3.3

Fixed

- add a super init on BinanceClientProtocol

v0.6.9 - 2018-04-27

Added

- timestamp in milliseconds to *get_historical_klines* function
- timestamp in milliseconds to *aggregate_trade_iter* function

Fixed

- Don't close user stream listen key on socket close

v0.6.8 - 2018-03-29

Added

- *get_withdraw_fee* function

Fixed

- Remove unused LISTENKEY_NOT_EXISTS
- Optimise the historical klines function to reduce requests
- Issue with end_time in aggregate trade iterator

v0.6.7 - 2018-03-14

Fixed

- Issue with *get_historical_klines* when response had exactly 500 results
- Changed BinanceResponseException to BinanceRequestException
- Set default code value in BinanceApiException properly

v0.6.6 - 2018-02-17

Fixed

- User stream websocket keep alive strategy updated

v0.6.5 - 2018-02-13

Fixed

- *get_historical_klines* response for month interval

v0.6.4 - 2018-02-09

Added

- system status endpoint *get_system_status*

v0.6.3 - 2018-01-29

Added

- mini ticker socket function *start_miniticker_socket*
- aggregate trade iterator *aggregate_trade_iter*

Fixes

- clean up *interval_to_milliseconds* logic
- general doc and file cleanups

v0.6.2 - 2018-01-12

Fixes

- fixed handling Binance errors that aren't JSON objects

v0.6.1 - 2018-01-10

Fixes

- added missing dateparser dependency to setup.py
- documentation fixes

v0.6.0 - 2018-01-09

New version because why not.

Added

- get_historical_klines function to fetch klines for any date range
- ability to override requests parameters globally
- error on websocket disconnect
- example related to blog post

Fixes

- documentation fixes

v0.5.17 - 2018-01-08

Added

- check for name parameter in withdraw, set to asset parameter if not passed

Update

- Windows install error documentation

Removed

- reference to disable_validation in documentation

v0.5.16 - 2018-01-06

Added

- addressTag documentation to withdraw function
- documentation about requests proxy environment variables

Update

- FAQ for signature error with solution to regenerate API key
- change create_order to create_test_order in example

Fixed

- reference to BinanceAPIException in documentation

v0.5.15 - 2018-01-03

Fixed

- removed all references to WEBSOCKET_DEPTH_1 enum

v0.5.14 - 2018-01-02

Added

- Wait for depth cache socket to start
- check for sequential depth cache messages

Updated

- documentation around depth websocket and diff and partial responses

Removed

- Removed unused WEBSOCKET_DEPTH_1 enum
- removed unused libraries and imports

v0.5.13 - 2018-01-01

Fixed

- Signature invalid error

v0.5.12 - 2017-12-29

Added

- get_asset_balance helper function to fetch an individual asset's balance

Fixed

- added timeout to requests call to prevent hanging
- changed variable type to str for price parameter when creating an order
- documentation fixes

v0.5.11 - 2017-12-28

Added

- refresh interval parameter to depth cache to keep it fresh, set default at 30 minutes

Fixed

- watch depth cache socket before fetching order book to replay any messages

v0.5.10 - 2017-12-28

Updated

- updated dependencies certifi and cryptography to help resolve signature error

v0.5.9 - 2017-12-26

Fixed

- fixed websocket reconnecting, was no distinction between manual close or network error

v0.5.8 - 2017-12-25

Changed

- change symbol parameter to optional for get_open_orders function
- added listenKey parameter to stream_close function

Added

- get_account_status function that was missed

v0.5.7 - 2017-12-24

Changed

- change depth cache callback parameter to optional

Added

- note about stopping Twisted reactor loop to exit program

v0.5.6 - 2017-12-20

Added

- get_symbol_info function to simplify getting info about a particular symbol

v0.5.5 - 2017-12-19

Changed

- Increased default limit for order book on depth cache from 10 to 500

v0.5.4 - 2017-12-14

Added

- symbol property made public on DepthCache class

Changed

- Enums now also accessible from binance.client.Client and binance.websockets.BinanceSocketManager

v0.5.3 - 2017-12-09

Changed

- User stream refresh timeout from 50 minutes to 30 minutes
- User stream socket listen key change check simplified

v0.5.2 - 2017-12-08

Added

- start_multiplex_socket function to BinanceSocketManager to create multiplexed streams

v0.5.1 - 2017-12-06

Added

- Close method for DepthCacheManager

Fixes

- Fixed modifying array error message when closing the BinanceSocketManager

v0.5.0 - 2017-12-05

Updating to match new API documentation

Added

- Recent trades endpoint
- Historical trades endpoint
- Order response type option
- Check for invalid user stream listen key in socket to keep connected

Fixes

- Fixed exchange info endpoint as it was renamed slightly

v0.4.3 - 2017-12-04

Fixes

- Fixed stopping sockets where they were reconnecting
- Fixed websockets unable to be restarted after close

- Exception in parsing non-JSON websocket message

v0.4.2 - 2017-11-30

Removed

- Removed websocket update time as 0ms option is not available

v0.4.1 - 2017-11-24

Added

- Reconnecting websockets, automatic retry on disconnect

v0.4.0 - 2017-11-19

Added

- Get deposit address endpoint
- Upgraded withdraw endpoints to v3
- New exchange info endpoint with rate limits and full symbol info

Removed

- Order validation to return at a later date

v0.3.8 - 2017-11-17

Fixes

- Fix order validation for market orders
- WEBSOCKET_DEPTH_20 value, 20 instead of 5
- General tidy up

v0.3.7 - 2017-11-16

Fixes

- Fix multiple depth caches sharing a cache by initialising bid and ask objects each time

v0.3.6 - 2017-11-15

Fixes

- check if Reactor is already running

v0.3.5 - 2017-11-06

Added

- support for BNB market

Fixes

- fixed error if new market type is created that we don't know about

v0.3.4 - 2017-10-31

Added

- depth parameter to depth socket
- interval parameter to kline socket
- update time parameter for compatible sockets
- new enums for socket depth and update time values
- better websocket documentation

Changed

- Depth Cache Manager uses 0ms socket update time
- connection key returned when creating socket, this key is then used to stop it

Fixes

- General fixes

v0.3.3 - 2017-10-31

Fixes

- Fixes for broken tests

v0.3.2 - 2017-10-30

Added

- More test coverage of requests

Fixes

- Order quantity validation fix

v0.3.1 - 2017-10-29

Added

- Withdraw exception handler with translation of obscure error

Fixes

- Validation fixes

v0.3.0 - 2017-10-29

Added

- Withdraw endpoints
- Order helper functions

v0.2.0 - 2017-10-27

Added

- Symbol Depth Cache

v0.1.6 - 2017-10-25

Changes

- Upgrade to v3 signed endpoints
- Update function documentation

v0.1.5 - 2017-09-12

Changes

- Added get_all_tickers call
- Added get_orderbook_tickers call
- Added some FAQs

Fixes

- Fix error in enum value

v0.1.4 - 2017-09-06

Changes

- Added parameter to disable client side order validation

v0.1.3 - 2017-08-26

Changes

- Updated documentation

Fixes

- Small bugfix

v0.1.2 - 2017-08-25

Added

- Travis.CI and Coveralls support

Changes

- Validation for pairs using public endpoint

v0.1.1 - 2017-08-17

Added

- Validation for HSR/BTC pair

v0.1.0 - 2017-08-16

Websocket release

Added

- Websocket manager
- Order parameter validation
- Order and Symbol enums
- API Endpoints for Data Streams

v0.0.2 - 2017-08-14

Initial version

Added

- General, Market Data and Account endpoints

5.1.15 Binance API

client module

class `binance.client.`**`Client`**(*api_key=None*, *api_secret=None*, *requests_params=None*, *tld='com'*, *testnet=False*)

Bases: `object`

`AGG_BEST_MATCH = 'M'`

`AGG_BUYER_MAKES = 'm'`

`AGG_FIRST_TRADE_ID = 'f'`

`AGG_ID = 'a'`

`AGG_LAST_TRADE_ID = 'l'`

`AGG_PRICE = 'p'`

`AGG_QUANTITY = 'q'`

`AGG_TIME = 'T'`

```
API_URL = 'https://api.binance.{}/api'
COIN_FUTURE_TO_SPOT = 'CMFUTURE_MAIN'
FIAT_TO_MINING = 'C2C_MINING'
FIAT_TO_SPOT = 'C2C_MAIN'
FIAT_TO_USDT_FUTURE = 'C2C_UMFUTURE'
FUTURES_API_VERSION = 'v1'
FUTURES_API_VERSION2 = 'v2'
FUTURES_COIN_DATA_URL = 'https://dapi.binance.{}/futures/data'
FUTURES_COIN_URL = 'https://dapi.binance.{}/dapi'
FUTURES_DATA_URL = 'https://fapi.binance.{}/futures/data'
FUTURES_URL = 'https://fapi.binance.{}/fapi'
FUTURE_ORDER_TYPE_LIMIT = 'LIMIT'
FUTURE_ORDER_TYPE_LIMIT_MAKER = 'LIMIT_MAKER'
FUTURE_ORDER_TYPE_MARKET = 'MARKET'
FUTURE_ORDER_TYPE_STOP = 'STOP'
FUTURE_ORDER_TYPE_STOP_MARKET = 'STOP_MARKET'
FUTURE_ORDER_TYPE_TAKE_PROFIT = 'TAKE_PROFIT'
FUTURE_ORDER_TYPE_TAKE_PROFIT_MARKET = 'TAKE_PROFIT_MARKET'
KLINE_INTERVAL_12HOUR = '12h'
KLINE_INTERVAL_15MINUTE = '15m'
KLINE_INTERVAL_1DAY = '1d'
KLINE_INTERVAL_1HOUR = '1h'
KLINE_INTERVAL_1MINUTE = '1m'
KLINE_INTERVAL_1MONTH = '1M'
KLINE_INTERVAL_1WEEK = '1w'
KLINE_INTERVAL_2HOUR = '2h'
KLINE_INTERVAL_30MINUTE = '30m'
KLINE_INTERVAL_3DAY = '3d'
KLINE_INTERVAL_3MINUTE = '3m'
KLINE_INTERVAL_4HOUR = '4h'
KLINE_INTERVAL_5MINUTE = '5m'
KLINE_INTERVAL_6HOUR = '6h'
KLINE_INTERVAL_8HOUR = '8h'
MARGIN_API_URL = 'https://api.binance.{}/sapi'
MARGIN_API_VERSION = 'v1'
MARGIN_CROSS_TO_SPOT = 'MARGIN_MAIN'
```

```
MARGIN_CROSS_TO_USDT_FUTURE = 'MARGIN_UMFUTURE'
MINING_TO_FIAT = 'MINING_C2C'
MINING_TO_SPOT = 'MINING_MAIN'
MINING_TO_USDT_FUTURE = 'MINING_UMFUTURE'
OPTIONS_API_VERSION = 'v1'
OPTIONS_TESTNET_URL = 'https://testnet.binanceops.{}/vapi'
OPTIONS_URL = 'https://vapi.binance.{}/vapi'
ORDER_RESP_TYPE_ACK = 'ACK'
ORDER_RESP_TYPE_FULL = 'FULL'
ORDER_RESP_TYPE_RESULT = 'RESULT'
ORDER_STATUS_CANCELED = 'CANCELED'
ORDER_STATUS_EXPIRED = 'EXPIRED'
ORDER_STATUS_FILLED = 'FILLED'
ORDER_STATUS_NEW = 'NEW'
ORDER_STATUS_PARTIALLY_FILLED = 'PARTIALLY_FILLED'
ORDER_STATUS_PENDING_CANCEL = 'PENDING_CANCEL'
ORDER_STATUS_REJECTED = 'REJECTED'
ORDER_TYPE_LIMIT = 'LIMIT'
ORDER_TYPE_LIMIT_MAKER = 'LIMIT_MAKER'
ORDER_TYPE_MARKET = 'MARKET'
ORDER_TYPE_STOP_LOSS = 'STOP_LOSS'
ORDER_TYPE_STOP_LOSS_LIMIT = 'STOP_LOSS_LIMIT'
ORDER_TYPE_TAKE_PROFIT = 'TAKE_PROFIT'
ORDER_TYPE_TAKE_PROFIT_LIMIT = 'TAKE_PROFIT_LIMIT'
PRIVATE_API_VERSION = 'v3'
PUBLIC_API_VERSION = 'v1'
SIDE_BUY = 'BUY'
SIDE_SELL = 'SELL'
SPOT_TO_COIN_FUTURE = 'MAIN_CMFUTURE'
SPOT_TO_FIAT = 'MAIN_C2C'
SPOT_TO_MARGIN_CROSS = 'MAIN_MARGIN'
SPOT_TO_MINING = 'MAIN_MINING'
SPOT_TO_USDT_FUTURE = 'MAIN_UMFUTURE'
SYMBOL_TYPE_SPOT = 'SPOT'
TIME_IN_FORCE_FOK = 'FOK'
TIME_IN_FORCE_GTC = 'GTC'
```

TIME_IN_FORCE_IOC = 'IOC'

USDT_FUTURE_TO_FIAT = 'UMFUTURE_C2C'

USDT_FUTURE_TO_MARGIN_CROSS = 'UMFUTURE_MARGIN'

USDT_FUTURE_TO_SPOT = 'UMFUTURE_MAIN'

WEBSITE_URL = 'https://www.binance.{}'

WITHDRAW_API_URL = 'https://api.binance.{}/wapi'

WITHDRAW_API_VERSION = 'v3'

__init__(*api_key=None*, *api_secret=None*, *requests_params=None*, *tld='com'*, *testnet=False*)

Binance API Client constructor

Parameters

- **api_key** (*str.*) – Api Key
- **api_secret** (*str.*) – Api Secret
- **requests_params** (*dict.*) – optional - Dictionary of requests params to use for all calls
- **testnet** (*bool*) – Use testnet environment - only available for vanilla options at the moment

aggregate_trade_iter(*symbol*, *start_str=None*, *last_id=None*)

Iterate over aggregate trade data from (start_time or last_id) to the end of the history so far.

If start_time is specified, start with the first trade after start_time. Meant to initialise a local cache of trade data.

If last_id is specified, start with the trade after it. This is meant for updating a pre-existing local trade data cache.

Only allows start_str or last_id—not both. Not guaranteed to work right if you're running more than one of these simultaneously. You will probably hit your rate limit.

See dateparser docs for valid start and end string formats http://dateparser.readthedocs.io/en/latest/

If using offset strings for dates add "UTC" to date string e.g. "now UTC", "11 hours ago UTC"

Parameters

- **symbol** (*str*) – Symbol string e.g. ETHBTC
- **start_str** – Start date string in UTC format or timestamp in milliseconds. The iterator will

return the first trade occurring later than this time. :type start_str: str|int :param last_id: aggregate trade ID of the last known aggregate trade. Not a regular trade ID. See https://github.com/binance/binance-spot-api-docs/blob/master/rest-api.md#compressedaggregate-trades-list.

Returns an iterator of JSON objects, one per trade. The format of

each object is identical to Client.aggregate_trades().

cancel_margin_order(***params*)

Cancel an active order for margin account.

Either orderId or origClientOrderId must be sent.

https://binance-docs.github.io/apidocs/spot/en/#margin-account-cancel-order-trade

Parameters

- **symbol** (*str*) – required
- **isIsolated** (*str*) – set to 'TRUE' for isolated margin (default 'FALSE')
- **orderId** (*str*) –
- **origClientOrderId** (*str*) –
- **newClientOrderId** (*str*) – Used to uniquely identify this cancel. Automatically generated by default.
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns

API response

{ "symbol": "LTCBTC", "orderId": 28, "origClientOrderId": "myOrder1", "clientOrderId": "cancelMyOrder1", "transactTime": 1507725176595, "price": "1.00000000", "origQty": "10.00000000", "executedQty": "8.00000000", "cummulativeQuoteQty": "8.00000000", "status": "CANCELED", "timeInForce": "GTC", "type": "LIMIT", "side": "SELL"

}

Raises BinanceRequestException, BinanceAPIException

cancel_order (***params*)

Cancel an active order. Either orderId or origClientOrderId must be sent.

https://github.com/binance/binance-spot-api-docs/blob/master/rest-api.md#cancel-order-trade

Parameters

- **symbol** (*str*) – required
- **orderId** (*int*) – The unique order id
- **origClientOrderId** (*str*) – optional
- **newClientOrderId** (*str*) – Used to uniquely identify this cancel. Automatically generated by default.
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response

```
{
    "symbol": "LTCBTC",
    "origClientOrderId": "myOrder1",
    "orderId": 1,
    "clientOrderId": "cancelMyOrder1"
}
```

Raises BinanceRequestException, BinanceAPIException

change_fixed_activity_to_daily_position (***params*)

Change Fixed/Activity Position to Daily Position

https://binance-docs.github.io/apidocs/spot/en/#change-fixed-activity-position-to-daily-position-user_data

create_isolated_margin_account(***params*)
Create isolated margin account for symbol

https://binance-docs.github.io/apidocs/spot/en/#create-isolated-margin-account-margin

Parameters

- **base** (*str*) – Base asset of symbol
- **quote** (*str*) – Quote asset of symbol

```
pair_details = client.create_isolated_margin_account(base='USDT', quote='BTC')
```

Returns API response

```
{
    "success": true,
    "symbol": "BTCUSDT"
}
```

Raises BinanceRequestException, BinanceAPIException

create_margin_loan(***params*)
Apply for a loan in cross-margin or isolated-margin account.

https://binance-docs.github.io/apidocs/spot/en/#margin-account-borrow-margin

Parameters

- **asset** (*str*) – name of the asset
- **amount** (*str*) – amount to transfer
- **isIsolated** (*str*) – set to 'TRUE' for isolated margin (default 'FALSE')
- **symbol** (*str*) – Isolated margin symbol (default blank for cross-margin)
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

```
transaction = client.margin_create_loan(asset='BTC', amount='1.1')

transaction = client.margin_create_loan(asset='BTC', amount='1.1',
                                        isIsolated='TRUE', symbol='ETHBTC')
```

Returns API response

```
{
    "tranId": 100000001
}
```

Raises BinanceRequestException, BinanceAPIException

create_margin_order(***params*)
Post a new order for margin account.

https://binance-docs.github.io/apidocs/spot/en/#margin-account-new-order-trade

Parameters

- **symbol** (*str*) – required

- **isIsolated** (*str*) – set to 'TRUE' for isolated margin (default 'FALSE')
- **side** (*str*) – required
- **type** (*str*) – required
- **quantity** (*decimal*) – required
- **price** (*str*) – required
- **stopPrice** (*str*) – Used with STOP_LOSS, STOP_LOSS_LIMIT, TAKE_PROFIT, and TAKE_PROFIT_LIMIT orders.
- **timeInForce** (*str*) – required if limit order GTC,IOC,FOK
- **newClientOrderId** (*str*) – A unique id for the order. Automatically generated if not sent.
- **icebergQty** (*str*) – Used with LIMIT, STOP_LOSS_LIMIT, and TAKE_PROFIT_LIMIT to create an iceberg order.
- **newOrderRespType** (*str*) – Set the response JSON. ACK, RESULT, or FULL; MARKET and LIMIT order types default to FULL, all other orders default to ACK.
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response

Response ACK:

```
{
    "symbol": "BTCUSDT",
    "orderId": 28,
    "clientOrderId": "6gCrw2kRUAF9CvJDGP16IP",
    "transactTime": 1507725176595
}
```

Response RESULT:

```
{
    "symbol": "BTCUSDT",
    "orderId": 28,
    "clientOrderId": "6gCrw2kRUAF9CvJDGP16IP",
    "transactTime": 1507725176595,
    "price": "1.00000000",
    "origQty": "10.00000000",
    "executedQty": "10.00000000",
    "cummulativeQuoteQty": "10.00000000",
    "status": "FILLED",
    "timeInForce": "GTC",
    "type": "MARKET",
    "side": "SELL"
}
```

Response FULL:

```
{
    "symbol": "BTCUSDT",
    "orderId": 28,
    "clientOrderId": "6gCrw2kRUAF9CvJDGP16IP",
    "transactTime": 1507725176595,
    "price": "1.00000000",
```

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```
    "origQty": "10.00000000",
    "executedQty": "10.00000000",
    "cummulativeQuoteQty": "10.00000000",
    "status": "FILLED",
    "timeInForce": "GTC",
    "type": "MARKET",
    "side": "SELL",
    "fills": [
        {
            "price": "4000.00000000",
            "qty": "1.00000000",
            "commission": "4.00000000",
            "commissionAsset": "USDT"
        },
        {
            "price": "3999.00000000",
            "qty": "5.00000000",
            "commission": "19.99500000",
            "commissionAsset": "USDT"
        },
        {
            "price": "3998.00000000",
            "qty": "2.00000000",
            "commission": "7.99600000",
            "commissionAsset": "USDT"
        },
        {
            "price": "3997.00000000",
            "qty": "1.00000000",
            "commission": "3.99700000",
            "commissionAsset": "USDT"
        },
        {
            "price": "3995.00000000",
            "qty": "1.00000000",
            "commission": "3.99500000",
            "commissionAsset": "USDT"
        }
    ]
}
```


Raises BinanceRequestException, BinanceAPIException, BinanceOrderException, BinanceOrderMinAmountException, BinanceOrderMinPriceException, BinanceOrderMinTotalException, BinanceOrderUnknownSymbolException, BinanceOrderInactiveSymbolException

create_oco_order(***params*)

Send in a new OCO order

https://github.com/binance/binance-spot-api-docs/blob/master/rest-api.md#new-oco-trade

Parameters

- **symbol** (*str*) – required
- **listClientOrderId** (*str*) – A unique id for the list order. Automatically generated if not sent.
- **side** (*str*) – required

- **quantity** (*decimal*) – required
- **limitClientOrderId** (*str*) – A unique id for the limit order. Automatically generated if not sent.
- **price** (*str*) – required
- **limitIcebergQty** (*decimal*) – Used to make the LIMIT_MAKER leg an iceberg order.
- **stopClientOrderId** (*str*) – A unique id for the stop order. Automatically generated if not sent.
- **stopPrice** (*str*) – required
- **stopLimitPrice** (*str*) – If provided, stopLimitTimeInForce is required.
- **stopIcebergQty** (*decimal*) – Used with STOP_LOSS_LIMIT leg to make an iceberg order.
- **stopLimitTimeInForce** (*str*) – Valid values are GTC/FOK/IOC.
- **newOrderRespType** (*str*) – Set the response JSON. ACK, RESULT, or FULL; default: RESULT.
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response

Response ACK:

```
{
}
```

Response RESULT:

```
{
}
```

Response FULL:

```
{
}
```

Raises BinanceRequestException, BinanceAPIException, BinanceOrderException, BinanceOrderMinAmountException, BinanceOrderMinPriceException, BinanceOrderMinTotalException, BinanceOrderUnknownSymbolException, BinanceOrderInactiveSymbolException

create_order (***params*)

Send in a new order

Any order with an icebergQty MUST have timeInForce set to GTC.

https://github.com/binance/binance-spot-api-docs/blob/master/rest-api.md#new-order–trade

Parameters

- **symbol** (*str*) – required
- **side** (*str*) – required
- **type** (*str*) – required
- **timeInForce** (*str*) – required if limit order

- **quantity** (*decimal*) – required
- **quoteOrderQty** (*decimal*) – amount the user wants to spend (when buying) or receive (when selling) of the quote asset, applicable to MARKET orders
- **price** (*str*) – required
- **newClientOrderId** (*str*) – A unique id for the order. Automatically generated if not sent.
- **icebergQty** (*decimal*) – Used with LIMIT, STOP_LOSS_LIMIT, and TAKE_PROFIT_LIMIT to create an iceberg order.
- **newOrderRespType** (*str*) – Set the response JSON. ACK, RESULT, or FULL; default: RESULT.
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response

Response ACK:

```
{
    "symbol":"LTCBTC",
    "orderId": 1,
    "clientOrderId": "myOrder1" # Will be newClientOrderId
    "transactTime": 1499827319559
}
```

Response RESULT:

```
{
    "symbol": "BTCUSDT",
    "orderId": 28,
    "clientOrderId": "6gCrw2kRUAF9CvJDGP16IP",
    "transactTime": 1507725176595,
    "price": "0.00000000",
    "origQty": "10.00000000",
    "executedQty": "10.00000000",
    "status": "FILLED",
    "timeInForce": "GTC",
    "type": "MARKET",
    "side": "SELL"
}
```

Response FULL:

```
{
    "symbol": "BTCUSDT",
    "orderId": 28,
    "clientOrderId": "6gCrw2kRUAF9CvJDGP16IP",
    "transactTime": 1507725176595,
    "price": "0.00000000",
    "origQty": "10.00000000",
    "executedQty": "10.00000000",
    "status": "FILLED",
    "timeInForce": "GTC",
    "type": "MARKET",
    "side": "SELL",
    "fills": [
```

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```
        {
            "price": "4000.00000000",
            "qty": "1.00000000",
            "commission": "4.00000000",
            "commissionAsset": "USDT"
        },
        {
            "price": "3999.00000000",
            "qty": "5.00000000",
            "commission": "19.99500000",
            "commissionAsset": "USDT"
        },
        {
            "price": "3998.00000000",
            "qty": "2.00000000",
            "commission": "7.99600000",
            "commissionAsset": "USDT"
        },
        {
            "price": "3997.00000000",
            "qty": "1.00000000",
            "commission": "3.99700000",
            "commissionAsset": "USDT"
        },
        {
            "price": "3995.00000000",
            "qty": "1.00000000",
            "commission": "3.99500000",
            "commissionAsset": "USDT"
        }
    ]
}
```


Raises BinanceRequestException, BinanceAPIException, BinanceOrderException, BinanceOrderMinAmountException, BinanceOrderMinPriceException, BinanceOrderMinTotalException, BinanceOrderUnknownSymbolException, BinanceOrderInactiveSymbolException

create_sub_account_futures_transfer(***params*)

Execute sub-account Futures transfer

https://github.com/binance-exchange/binance-official-api-docs/blob/9dbe0e961b80557bb19708a707c7fad08842b28e/wapi-api.md#sub-account-transferfor-master-account

Parameters

- **fromEmail** (*str*) – required - Sender email
- **toEmail** (*str*) – required - Recipient email
- **futuresType** (*int*) – required
- **asset** (*str*) – required
- **amount** (*decimal*) – required
- **recvWindow** (*int*) – optional

Returns API response

```
{
    "success":true,
    "txnId":"2934662589"
}
```


Raises BinanceRequestException, BinanceAPIException

create_sub_account_transfer(***params*)

Execute sub-account transfer

https://binance-docs.github.io/apidocs/spot/en/#sub-account-spot-asset-transfer-for-master-account

Parameters

- **fromEmail** (*str*) – required - Sender email
- **toEmail** (*str*) – required - Recipient email
- **asset** (*str*) – required
- **amount** (*decimal*) – required
- **recvWindow** (*int*) – optional

Returns API response


```
{
    "success":true,
    "txnId":"2966662589"
}
```


Raises BinanceRequestException, BinanceAPIException

create_test_order(***params*)

Test new order creation and signature/recvWindow long. Creates and validates a new order but does not send it into the matching engine.

https://github.com/binance/binance-spot-api-docs/blob/master/rest-api.md#test-new-order-trade

Parameters

- **symbol** (*str*) – required
- **side** (*str*) – required
- **type** (*str*) – required
- **timeInForce** (*str*) – required if limit order
- **quantity** (*decimal*) – required
- **price** (*str*) – required
- **newClientOrderId** (*str*) – A unique id for the order. Automatically generated if not sent.
- **icebergQty** (*decimal*) – Used with iceberg orders
- **newOrderRespType** (*str*) – Set the response JSON. ACK, RESULT, or FULL; default: RESULT.
- **recvWindow** (*int*) – The number of milliseconds the request is valid for

Returns API response

```
{}
```

Raises BinanceRequestException, BinanceAPIException, BinanceOrderException, BinanceOrderMinAmountException, BinanceOrderMinPriceException, BinanceOrderMinTotalException, BinanceOrderUnknownSymbolException, BinanceOrderInactiveSymbolException

disable_fast_withdraw_switch(***params*)
Disable Fast Withdraw Switch

https://binance-docs.github.io/apidocs/spot/en/#disable-fast-withdraw-switch-user_data

Parameters **recvWindow** (*int*) – optional

Returns API response

Raises BinanceRequestException, BinanceAPIException

enable_fast_withdraw_switch(***params*)
Enable Fast Withdraw Switch

https://binance-docs.github.io/apidocs/spot/en/#enable-fast-withdraw-switch-user_data

Parameters **recvWindow** (*int*) – optional

Returns API response

Raises BinanceRequestException, BinanceAPIException

enable_subaccount_futures(***params*)
Enable Futures for Sub-account (For Master Account)

https://binance-docs.github.io/apidocs/spot/en/#enable-futures-for-sub-account-for-master-account

Parameters

- **email** (*str*) – required - Sub account email
- **recvWindow** (*int*) – optional

Returns API response

```
{

    "email":"123@test.com",

    "isFuturesEnabled": true  // true or false

}
```

Raises BinanceRequestException, BinanceAPIException

enable_subaccount_margin(***params*)
Enable Margin for Sub-account (For Master Account)

https://binance-docs.github.io/apidocs/spot/en/#enable-margin-for-sub-account-for-master-account

Parameters

- **email** (*str*) – required - Sub account email
- **recvWindow** (*int*) – optional

Returns API response

```
{
    "email":"123@test.com",
    "isMarginEnabled": true
}
```


Raises BinanceRequestException, BinanceAPIException

futures_account(***params*)
Get current account information.

https://binance-docs.github.io/apidocs/futures/en/#account-information-user_data

futures_account_balance(***params*)
Get futures account balance

https://binance-docs.github.io/apidocs/futures/en/#future-account-balance-user_data

futures_account_trades(***params*)
Get trades for the authenticated account and symbol.

https://binance-docs.github.io/apidocs/futures/en/#account-trade-list-user_data

futures_account_transfer(***params*)
Execute transfer between spot account and futures account.

https://binance-docs.github.io/apidocs/futures/en/#new-future-account-transfer

futures_aggregate_trades(***params*)
Get compressed, aggregate trades. Trades that fill at the time, from the same order, with the same price will have the quantity aggregated.

https://binance-docs.github.io/apidocs/futures/en/#compressed-aggregate-trades-list-market_data

futures_cancel_all_open_orders(***params*)
Cancel all open futures orders

https://binance-docs.github.io/apidocs/futures/en/#cancel-all-open-orders-trade

futures_cancel_order(***params*)
Cancel an active futures order.

https://binance-docs.github.io/apidocs/futures/en/#cancel-order-trade

futures_cancel_orders(***params*)
Cancel multiple futures orders

https://binance-docs.github.io/apidocs/futures/en/#cancel-multiple-orders-trade

futures_change_leverage(***params*)
Change user's initial leverage of specific symbol market

https://binance-docs.github.io/apidocs/futures/en/#change-initial-leverage-trade

futures_change_margin_type(***params*)
Change the margin type for a symbol

https://binance-docs.github.io/apidocs/futures/en/#change-margin-type-trade

futures_change_position_margin(***params*)
Change the position margin for a symbol

https://binance-docs.github.io/apidocs/futures/en/#modify-isolated-position-margin-trade

futures_change_position_mode(***params*)
Change position mode for authenticated account

https://binance-docs.github.io/apidocs/futures/en/#change-position-mode-trade

futures_coin_account(***params*)
Get current account information.

https://binance-docs.github.io/apidocs/delivery/en/#account-information-user_data

futures_coin_account_balance(***params*)
Get futures account balance

https://binance-docs.github.io/apidocs/delivery/en/#futures-account-balance-user_data

futures_coin_account_trades(***params*)
Get trades for the authenticated account and symbol.

https://binance-docs.github.io/apidocs/delivery/en/#account-trade-list-user_data

futures_coin_aggregate_trades(***params*)
Get compressed, aggregate trades. Trades that fill at the time, from the same order, with the same price will have the quantity aggregated.

https://binance-docs.github.io/apidocs/delivery/en/#compressed-aggregate-trades-list

futures_coin_cancel_all_open_orders(***params*)
Cancel all open futures orders

https://binance-docs.github.io/apidocs/delivery/en/#cancel-all-open-orders-trade

futures_coin_cancel_order(***params*)
Cancel an active futures order.

https://binance-docs.github.io/apidocs/delivery/en/#cancel-order-trade

futures_coin_cancel_orders(***params*)
Cancel multiple futures orders

https://binance-docs.github.io/apidocs/delivery/en/#cancel-multiple-orders-trade

futures_coin_change_leverage(***params*)
Change user's initial leverage of specific symbol market

https://binance-docs.github.io/apidocs/delivery/en/#change-initial-leverage-trade

futures_coin_change_margin_type(***params*)
Change the margin type for a symbol

https://binance-docs.github.io/apidocs/delivery/en/#change-margin-type-trade

futures_coin_change_position_margin(***params*)
Change the position margin for a symbol

https://binance-docs.github.io/apidocs/delivery/en/#modify-isolated-position-margin-trade

futures_coin_change_position_mode(***params*)
Change user's position mode (Hedge Mode or One-way Mode) on EVERY symbol

https://binance-docs.github.io/apidocs/delivery/en/#change-position-mode-trade

futures_coin_continous_klines(***params*)
Kline/candlestick bars for a specific contract type. Klines are uniquely identified by their open time.

https://binance-docs.github.io/apidocs/delivery/en/#continuous-contract-kline-candlestick-data

futures_coin_create_order(***params*)
Send in a new order.

https://binance-docs.github.io/apidocs/delivery/en/#new-order-trade

futures_coin_exchange_info()
Current exchange trading rules and symbol information

https://binance-docs.github.io/apidocs/delivery/en/#exchange-information

futures_coin_funding_rate(***params*)
Get funding rate history

https://binance-docs.github.io/apidocs/delivery/en/#get-funding-rate-history-of-perpetual-futures

futures_coin_get_all_orders(***params*)
Get all futures account orders; active, canceled, or filled.

https://binance-docs.github.io/apidocs/delivery/en/#all-orders-user_data

futures_coin_get_open_orders(***params*)
Get all open orders on a symbol.

https://binance-docs.github.io/apidocs/delivery/en/#current-all-open-orders-user_data

futures_coin_get_order(***params*)
Check an order's status.

https://binance-docs.github.io/apidocs/delivery/en/#query-order-user_data

futures_coin_get_position_mode(***params*)
Get user's position mode (Hedge Mode or One-way Mode) on EVERY symbol

https://binance-docs.github.io/apidocs/delivery/en/#get-current-position-mode-user_data

futures_coin_historical_trades(***params*)
Get older market historical trades.

https://binance-docs.github.io/apidocs/delivery/en/#old-trades-lookup-market_data

futures_coin_income_history(***params*)
Get income history for authenticated account

https://binance-docs.github.io/apidocs/delivery/en/#get-income-history-user_data

futures_coin_index_price_klines(***params*)
Kline/candlestick bars for the index price of a pair..

https://binance-docs.github.io/apidocs/delivery/en/#index-price-kline-candlestick-data

futures_coin_klines(***params*)
Kline/candlestick bars for a symbol. Klines are uniquely identified by their open time.

https://binance-docs.github.io/apidocs/delivery/en/#kline-candlestick-data

futures_coin_leverage_bracket(***params*)
Notional and Leverage Brackets

https://binance-docs.github.io/apidocs/delivery/en/#notional-bracket-for-pair-user_data

futures_coin_liquidation_orders(***params*)
Get all liquidation orders

https://binance-docs.github.io/apidocs/delivery/en/#get-all-liquidation-orders

futures_coin_mark_price(***params*)
Get Mark Price and Funding Rate

https://binance-docs.github.io/apidocs/delivery/en/#index-price-and-mark-price

futures_coin_mark_price_klines(***params*)
Kline/candlestick bars for the index price of a pair..

https://binance-docs.github.io/apidocs/delivery/en/#mark-price-kline-candlestick-data

futures_coin_open_interest(***params*)
Get present open interest of a specific symbol.

https://binance-docs.github.io/apidocs/delivery/en/#open-interest

futures_coin_open_interest_hist(***params*)
Get open interest statistics of a specific symbol.

https://binance-docs.github.io/apidocs/delivery/en/#open-interest-statistics-market-data

futures_coin_order_book(***params*)
Get the Order Book for the market

https://binance-docs.github.io/apidocs/delivery/en/#order-book

futures_coin_orderbook_ticker(***params*)
Best price/qty on the order book for a symbol or symbols.

https://binance-docs.github.io/apidocs/delivery/en/#symbol-order-book-ticker

futures_coin_ping()
Test connectivity to the Rest API

https://binance-docs.github.io/apidocs/delivery/en/#test-connectivity

futures_coin_position_information(***params*)
Get position information

https://binance-docs.github.io/apidocs/delivery/en/#position-information-user_data

futures_coin_position_margin_history(***params*)
Get position margin change history

https://binance-docs.github.io/apidocs/delivery/en/#get-position-margin-change-history-trade

futures_coin_recent_trades(***params*)
Get recent trades (up to last 500).

https://binance-docs.github.io/apidocs/delivery/en/#recent-trades-list

futures_coin_symbol_ticker(***params*)
Latest price for a symbol or symbols.

https://binance-docs.github.io/apidocs/delivery/en/#symbol-price-ticker

futures_coin_ticker(***params*)
24 hour rolling window price change statistics.

https://binance-docs.github.io/apidocs/delivery/en/#24hr-ticker-price-change-statistics

futures_coin_time()
Test connectivity to the Rest API and get the current server time.

https://binance-docs.github.io/apidocs/delivery/en/#check-server-time

futures_continous_klines(***params*)
Kline/candlestick bars for a specific contract type. Klines are uniquely identified by their open time.

https://binance-docs.github.io/apidocs/futures/en/#continuous-contract-kline-candlestick-data

futures_create_order(***params*)
Send in a new order.

https://binance-docs.github.io/apidocs/futures/en/#new-order-trade

futures_exchange_info()
Current exchange trading rules and symbol information

https://binance-docs.github.io/apidocs/futures/en/#exchange-information-market_data

futures_funding_rate(***params*)
Get funding rate history

https://binance-docs.github.io/apidocs/futures/en/#get-funding-rate-history-market_data

futures_get_all_orders(***params*)
Get all futures account orders; active, canceled, or filled.

https://binance-docs.github.io/apidocs/futures/en/#all-orders-user_data

futures_get_open_orders(***params*)
Get all open orders on a symbol.

https://binance-docs.github.io/apidocs/futures/en/#current-open-orders-user_data

futures_get_order(***params*)
Check an order's status.

https://binance-docs.github.io/apidocs/futures/en/#query-order-user_data

futures_get_position_mode(***params*)
Get position mode for authenticated account

https://binance-docs.github.io/apidocs/futures/en/#get-current-position-mode-user_data

futures_historical_klines(*symbol*, *interval*, *start_str*, *end_str=None*, *limit=500*)
Get historical futures klines from Binance

Parameters

- **symbol** (*str*) – Name of symbol pair e.g BNBBTC
- **interval** (*str*) – Binance Kline interval
- **start_str** (*str|int*) – Start date string in UTC format or timestamp in milliseconds
- **end_str** (*str|int*) – optional - end date string in UTC format or timestamp in milliseconds (default will fetch everything up to now)
- **limit** (*int*) – Default 500; max 1000.

Returns list of OHLCV values

futures_historical_klines_generator(*symbol*, *interval*, *start_str*, *end_str=None*)
Get historical futures klines generator from Binance

Parameters

- **symbol** (*str*) – Name of symbol pair e.g BNBBTC
- **interval** (*str*) – Binance Kline interval
- **start_str** (*str|int*) – Start date string in UTC format or timestamp in milliseconds

- **end_str** (*str|int*) – optional - end date string in UTC format or timestamp in milliseconds (default will fetch everything up to now)

Returns generator of OHLCV values

futures_historical_trades (***params*)
Get older market historical trades.

https://binance-docs.github.io/apidocs/futures/en/#old-trades-lookup-market_data

futures_income_history (***params*)
Get income history for authenticated account

https://binance-docs.github.io/apidocs/futures/en/#get-income-history-user_data

futures_klines (***params*)
Kline/candlestick bars for a symbol. Klines are uniquely identified by their open time.

https://binance-docs.github.io/apidocs/futures/en/#kline-candlestick-data-market_data

futures_leverage_bracket (***params*)
Notional and Leverage Brackets

https://binance-docs.github.io/apidocs/futures/en/#notional-and-leverage-brackets-market_data

futures_liquidation_orders (***params*)
Get all liquidation orders

https://binance-docs.github.io/apidocs/futures/en/#get-all-liquidation-orders-market_data

futures_mark_price (***params*)
Get Mark Price and Funding Rate

https://binance-docs.github.io/apidocs/futures/en/#mark-price-market_data

futures_open_interest (***params*)
Get present open interest of a specific symbol.

https://binance-docs.github.io/apidocs/futures/en/#open-interest-market_data

futures_open_interest_hist (***params*)
Get open interest statistics of a specific symbol.

https://binance-docs.github.io/apidocs/futures/en/#open-interest-statistics

futures_order_book (***params*)
Get the Order Book for the market

https://binance-docs.github.io/apidocs/futures/en/#order-book-market_data

futures_orderbook_ticker (***params*)
Best price/qty on the order book for a symbol or symbols.

https://binance-docs.github.io/apidocs/futures/en/#symbol-order-book-ticker-market_data

futures_ping ()
Test connectivity to the Rest API

https://binance-docs.github.io/apidocs/futures/en/#test-connectivity

futures_position_information (***params*)
Get position information

https://binance-docs.github.io/apidocs/futures/en/#position-information-user_data

futures_position_margin_history(***params*)
Get position margin change history

https://binance-docs.github.io/apidocs/futures/en/#get-postion-margin-change-history-trade

futures_recent_trades(***params*)
Get recent trades (up to last 500).

https://binance-docs.github.io/apidocs/futures/en/#recent-trades-list-market_data

futures_symbol_ticker(***params*)
Latest price for a symbol or symbols.

https://binance-docs.github.io/apidocs/futures/en/#symbol-price-ticker-market_data

futures_ticker(***params*)
24 hour rolling window price change statistics.

https://binance-docs.github.io/apidocs/futures/en/#24hr-ticker-price-change-statistics-market_data

futures_time()
Test connectivity to the Rest API and get the current server time.

https://binance-docs.github.io/apidocs/futures/en/#check-server-time

get_account(***params*)
Get current account information.

https://github.com/binance/binance-spot-api-docs/blob/master/rest-api.md#account-information-user_data

Parameters **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response

```
{
    "makerCommission": 15,
    "takerCommission": 15,
    "buyerCommission": 0,
    "sellerCommission": 0,
    "canTrade": true,
    "canWithdraw": true,
    "canDeposit": true,
    "balances": [
        {
            "asset": "BTC",
            "free": "4723846.89208129",
            "locked": "0.00000000"
        },
        {
            "asset": "LTC",
            "free": "4763368.68006011",
            "locked": "0.00000000"
        }
    ]
}
```

Raises BinanceRequestException, BinanceAPIException

get_account_api_trading_status(***params*)
Fetch account api trading status detail.

https://binance-docs.github.io/apidocs/spot/en/#account-api-trading-status-user_data

Parameters **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response

{ "success": true, // Query result "status": { // API trading status detail

"isLocked": false, // API trading function is locked or not "plannedRecoverTime": 0, // If API trading function is locked, this is the planned recover time "triggerCondition": {

"gcr": 150, // Number of GTC orders "ifer": 150, // Number of FOK/IOC orders "ufr": 300 // Number of orders

}, "indicators": { // The indicators updated every 30 seconds

"BTCUSDT": [// The symbol

{ "i": "UFR", // Unfilled Ratio (UFR) "c": 20, // Count of all orders "v": 0.05, // Current UFR value "t": 0.995 // Trigger UFR value

}, {

"i": "IFER", // IOC/FOK Expiration Ratio (IFER) "c": 20, // Count of FOK/IOC orders "v": 0.99, // Current IFER value "t": 0.99 // Trigger IFER value

}, {

"i": "GCR", // GTC Cancellation Ratio (GCR) "c": 20, // Count of GTC orders "v": 0.99, // Current GCR value "t": 0.99 // Trigger GCR value

}

], "ETHUSDT": [

{ "i": "UFR", "c": 20, "v": 0.05, "t": 0.995

}, {

"i": "IFER", "c": 20, "v": 0.99, "t": 0.99

}, {

"i": "GCR", "c": 20, "v": 0.99, "t": 0.99

}

]

}, "updateTime": 1547630471725 // The query result return time

}

}

Raises BinanceWithdrawException

get_account_snapshot(***params*)

Get daily account snapshot of specific type.

https://binance-docs.github.io/apidocs/spot/en/#daily-account-snapshot-user_data

Parameters

- **type** (*string*) – required. Valid values are SPOT/MARGIN/FUTURES.
- **startTime** (*int*) – optional
- **endTime** (*int*) – optional
- **limit** (*int*) – optional
- **recvWindow** (*int*) – optional

Returns API response


```
{
   "code":200, // 200 for success; others are error codes
   "msg":"", // error message
   "snapshotVos":[
      {
         "data":{
            "balances":[
               {
                  "asset":"BTC",
                  "free":"0.09905021",
                  "locked":"0.00000000"
               },
               {
                  "asset":"USDT",
                  "free":"1.89109409",
                  "locked":"0.00000000"
               }
            ],
            "totalAssetOfBtc":"0.09942700"
         },
         "type":"spot",
         "updateTime":1576281599000
      }
   ]
}
```


OR


```
{
   "code":200, // 200 for success; others are error codes
   "msg":"", // error message
   "snapshotVos":[
      {
         "data":{
            "marginLevel":"2748.02909813",
            "totalAssetOfBtc":"0.00274803",
            "totalLiabilityOfBtc":"0.00000100",
            "totalNetAssetOfBtc":"0.00274750",
            "userAssets":[
               {
                  "asset":"XRP",
                  "borrowed":"0.00000000",
                  "free":"1.00000000",
                  "interest":"0.00000000",
                  "locked":"0.00000000",
                  "netAsset":"1.00000000"
               }
            ]
```


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```
            },
            "type":"margin",
            "updateTime":1576281599000
        }
    ]
}
```

OR

```
{
    "code":200, // 200 for success; others are error codes
    "msg":"", // error message
    "snapshotVos":[
        {
            "data":{
                "assets":[
                    {
                        "asset":"USDT",
                        "marginBalance":"118.99782335",
                        "walletBalance":"120.23811389"
                    }
                ],
                "position":[
                    {
                        "entryPrice":"7130.41000000",
                        "markPrice":"7257.66239673",
                        "positionAmt":"0.01000000",
                        "symbol":"BTCUSDT",
                        "unRealizedProfit":"1.24029054"
                    }
                ]
            },
            "type":"futures",
            "updateTime":1576281599000
        }
    ]
}
```

Raises BinanceRequestException, BinanceAPIException

get_account_status(***params*)

Get account status detail.

https://binance-docs.github.io/apidocs/spot/en/#account-status-user_data

Parameters **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response

```
{
    "msg": "Order failed:Low Order fill rate! Will be reactivated after 5␣
↪minutes.",
    "success": true,
    "objs": [
        "5"
    ]
}
```

Raises BinanceWithdrawException

get_aggregate_trades(***params*)

Get compressed, aggregate trades. Trades that fill at the time, from the same order, with the same price will have the quantity aggregated.

https://github.com/binance/binance-spot-api-docs/blob/master/rest-api.md#compressedaggregate-trades-list

Parameters

- **symbol** (*str*) – required
- **fromId** (*str*) – ID to get aggregate trades from INCLUSIVE.
- **startTime** (*int*) – Timestamp in ms to get aggregate trades from INCLUSIVE.
- **endTime** (*int*) – Timestamp in ms to get aggregate trades until INCLUSIVE.
- **limit** (*int*) – Default 500; max 500.

Returns API response

```
[
    {
        "a": 26129,         # Aggregate tradeId
        "p": "0.01633102",  # Price
        "q": "4.70443515",  # Quantity
        "f": 27781,         # First tradeId
        "l": 27781,         # Last tradeId
        "T": 1498793709153, # Timestamp
        "m": true,          # Was the buyer the maker?
        "M": true           # Was the trade the best price match?
    }
]
```

Raises BinanceRequestException, BinanceAPIException

get_all_coins_info(***params*)

Get information of coins (available for deposit and withdraw) for user.

https://binance-docs.github.io/apidocs/spot/en/#all-coins-39-information-user_data

Parameters **recvWindow** (*int*) – optional

Returns API response

```
{
    "coin": "BTC",
    "depositAllEnable": true,
    "withdrawAllEnable": true,
    "name": "Bitcoin",
    "free": "0",
    "locked": "0",
    "freeze": "0",
    "withdrawing": "0",
    "ipoing": "0",
    "ipoable": "0",
    "storage": "0",
    "isLegalMoney": false,
    "trading": true,
```

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```
    "networkList": [
        {
            "network": "BNB",
            "coin": "BTC",
            "withdrawIntegerMultiple": "0.00000001",
            "isDefault": false,
            "depositEnable": true,
            "withdrawEnable": true,
            "depositDesc": "",
            "withdrawDesc": "",
            "specialTips": "Both a MEMO and an Address are required to␣
↪successfully deposit your BEP2-BTCB tokens to Binance.",
            "name": "BEP2",
            "resetAddressStatus": false,
            "addressRegex": "^(bnb1)[0-9a-z]{38}$",
            "memoRegex": "^[0-9A-Za-z-_]{1,120}$",
            "withdrawFee": "0.0000026",
            "withdrawMin": "0.0000052",
            "withdrawMax": "0",
            "minConfirm": 1,
            "unLockConfirm": 0
        },
        {
            "network": "BTC",
            "coin": "BTC",
            "withdrawIntegerMultiple": "0.00000001",
            "isDefault": true,
            "depositEnable": true,
            "withdrawEnable": true,
            "depositDesc": "",
            "withdrawDesc": "",
            "specialTips": "",
            "name": "BTC",
            "resetAddressStatus": false,
            "addressRegex": "^[13][a-km-zA-HJ-NP-Z1-9]{25,34}$|^(bc1)[0-9A-
↪Za-z]{39,59}$",
            "memoRegex": "",
            "withdrawFee": "0.0005",
            "withdrawMin": "0.001",
            "withdrawMax": "0",
            "minConfirm": 1,
            "unLockConfirm": 2
        }
    ]
}
```

Raises BinanceRequestException, BinanceAPIException

get_all_isolated_margin_symbols(***params*)

Query isolated margin symbol info for all pairs

https://binance-docs.github.io/apidocs/spot/en/#get-all-isolated-margin-symbol-user_data

```
pair_details = client.get_all_isolated_margin_symbols()
```

Returns API response

```
[
    {
        "base": "BNB",
        "isBuyAllowed": true,
        "isMarginTrade": true,
        "isSellAllowed": true,
        "quote": "BTC",
        "symbol": "BNBBTC"
    },
    {
        "base": "TRX",
        "isBuyAllowed": true,
        "isMarginTrade": true,
        "isSellAllowed": true,
        "quote": "BTC",
        "symbol": "TRXBTC"
    }
]
```


Raises BinanceRequestException, BinanceAPIException

get_all_margin_orders(***params*)

Query all margin accounts orders

If orderId is set, it will get orders >= that orderId. Otherwise most recent orders are returned.

For some historical orders cummulativeQuoteQty will be < 0, meaning the data is not available at this time.

https://binance-docs.github.io/apidocs/spot/en/#query-margin-account-39-s-all-order-user_data

Parameters

- **symbol** (*str*) – required
- **isIsolated** (*str*) – set to 'TRUE' for isolated margin (default 'FALSE')
- **orderId** (*str*) – optional
- **startTime** (*str*) – optional
- **endTime** (*str*) – optional
- **limit** (*int*) – Default 500; max 1000
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns

API response

[

{ "id": 43123876, "price": "0.00395740", "qty": "4.06000000", "quoteQty": "0.01606704", "symbol": "BNBBTC", "time": 1556089977693

}, {

"id": 43123877, "price": "0.00395740", "qty": "0.77000000", "quote-Qty": "0.00304719", "symbol": "BNBBTC", "time": 1556089977693

}, {

"id": 43253549, "price": "0.00428930", "qty": "23.30000000", "quoteQty": "0.09994069", "symbol": "BNBBTC", "time": 1556163963504

}

]

Raises BinanceRequestException, BinanceAPIException

get_all_orders(***params*)

Get all account orders; active, canceled, or filled.

https://github.com/binance/binance-spot-api-docs/blob/master/rest-api.md#all-orders-user_data

Parameters

- **symbol** (*str*) – required
- **orderId** (*int*) – The unique order id
- **limit** (*int*) – Default 500; max 500.
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response

```
[
    {
        "symbol": "LTCBTC",
        "orderId": 1,
        "clientOrderId": "myOrder1",
        "price": "0.1",
        "origQty": "1.0",
        "executedQty": "0.0",
        "status": "NEW",
        "timeInForce": "GTC",
        "type": "LIMIT",
        "side": "BUY",
        "stopPrice": "0.0",
        "icebergQty": "0.0",
        "time": 1499827319559
    }
]
```

Raises BinanceRequestException, BinanceAPIException

get_all_tickers()

Latest price for all symbols.

https://www.binance.com/restapipub.html#symbols-price-ticker

Returns List of market tickers

```
[
    {
        "symbol": "LTCBTC",
        "price": "4.00000200"
    },
    {
        "symbol": "ETHBTC",
        "price": "0.07946600"
```

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```
    }
]
```

Raises BinanceRequestException, BinanceAPIException

get_asset_balance(*asset*, ***params*)

Get current asset balance.

https://github.com/binance/binance-spot-api-docs/blob/master/rest-api.md#account-information-user_data

Parameters

- **asset** (*str*) – required
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns dictionary or None if not found

```
{
    "asset": "BTC",
    "free": "4723846.89208129",
    "locked": "0.00000000"
}
```

Raises BinanceRequestException, BinanceAPIException

get_asset_details(***params*)

Fetch details on assets.

https://binance-docs.github.io/apidocs/spot/en/#asset-detail-user_data

Parameters **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response

```
{
    "success": true,
    "assetDetail": {
        "CTR": {
            "minWithdrawAmount": "70.00000000", //min withdraw amount
            "depositStatus": false,//deposit status
            "withdrawFee": 35, // withdraw fee
            "withdrawStatus": true, //withdraw status
            "depositTip": "Delisted, Deposit Suspended" //reason
        },
        "SKY": {
            "minWithdrawAmount": "0.02000000",
            "depositStatus": true,
            "withdrawFee": 0.01,
            "withdrawStatus": true
        }
    }
}
```

Raises BinanceWithdrawException

get_asset_dividend_history(***params*)

Query asset dividend record.

https://binance-docs.github.io/apidocs/spot/en/#asset-dividend-record-user_data

Parameters

- **asset** (*str*) – optional
- **startTime** (*long*) – optional
- **endTime** (*long*) – optional
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

```
result = client.get_asset_dividend_history()
```

Returns API response

```
{
    "rows":[
        {
            "amount":"10.00000000",
            "asset":"BHFT",
            "divTime":1563189166000,
            "enInfo":"BHFT distribution",
            "tranId":2968885920
        },
        {
            "amount":"10.00000000",
            "asset":"BHFT",
            "divTime":1563189165000,
            "enInfo":"BHFT distribution",
            "tranId":2968885920
        }
    ],
    "total":2
}
```

Raises BinanceRequestException, BinanceAPIException

get_avg_price(***params*)

Current average price for a symbol.

https://github.com/binance/binance-spot-api-docs/blob/master/rest-api.md#current-average-price

Parameters **symbol** (*str*) –

Returns API response

```
{
    "mins": 5,
    "price": "9.35751834"
}
```

get_bnb_burn_spot_margin(***params*)

Get BNB Burn Status

https://binance-docs.github.io/apidocs/spot/en/#get-bnb-burn-status-user_data

```
status = client.get_bnb_burn_spot_margin()
```

Returns API response

```
{
   "spotBNBBurn":true,
   "interestBNBBurn": false
}
```

Raises BinanceRequestException, BinanceAPIException

get_deposit_address(***params*)

Fetch a deposit address for a symbol

https://www.binance.com/restapipub.html

Parameters

- **asset** (*str*) – required
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response

```
{
    "address": "0x6915f16f8791d0a1cc2bf47c13a6b2a92000504b",
    "success": true,
    "addressTag": "1231212",
    "asset": "BNB"
}
```

Raises BinanceRequestException, BinanceAPIException

get_deposit_history(***params*)

Fetch deposit history.

https://www.binance.com/restapipub.html

Parameters

- **asset** (*str*) – optional
- **startTime** (*long*) – optional
- **endTime** (*long*) – optional
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response

```
{
    "depositList": [
        {
            "insertTime": 1508198532000,
            "amount": 0.04670582,
            "asset": "ETH",
            "status": 1
        }
    ],
```

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```
    "success": true
}
```

Raises BinanceRequestException, BinanceAPIException

get_dust_log(***params*)

Get log of small amounts exchanged for BNB.

https://binance-docs.github.io/apidocs/spot/en/#dustlog-user_data

Parameters **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response

```
{
    "success": true,
    "results": {
        "total": 2,   //Total counts of exchange
        "rows": [
            {
                "transfered_total": "0.00132256", # Total transfered BNB␣
↪amount for this exchange.
                "service_charge_total": "0.00002699",   # Total service␣
↪charge amount for this exchange.
                "tran_id": 4359321,
                "logs": [           # Details of  this exchange.
                    {
                        "tranId": 4359321,
                        "serviceChargeAmount": "0.000009",
                        "uid": "10000015",
                        "amount": "0.0009",
                        "operateTime": "2018-05-03 17:07:04",
                        "transferedAmount": "0.000441",
                        "fromAsset": "USDT"
                    },
                    {
                        "tranId": 4359321,
                        "serviceChargeAmount": "0.00001799",
                        "uid": "10000015",
                        "amount": "0.0009",
                        "operateTime": "2018-05-03 17:07:04",
                        "transferedAmount": "0.00088156",
                        "fromAsset": "ETH"
                    }
                ],
                "operate_time": "2018-05-03 17:07:04" //The time of this␣
↪exchange.
            },
            {
                "transfered_total": "0.00058795",
                "service_charge_total": "0.000012",
                "tran_id": 4357015,
                "logs": [       // Details of  this exchange.
                    {
                        "tranId": 4357015,
                        "serviceChargeAmount": "0.00001",
                        "uid": "10000015",
```

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```
                        "amount": "0.001",
                        "operateTime": "2018-05-02 13:52:24",
                        "transferedAmount": "0.00049",
                        "fromAsset": "USDT"
                    },
                    {
                        "tranId": 4357015,
                        "serviceChargeAmount": "0.000002",
                        "uid": "10000015",
                        "amount": "0.0001",
                        "operateTime": "2018-05-02 13:51:11",
                        "transferedAmount": "0.00009795",
                        "fromAsset": "ETH"
                    }
                ],
                "operate_time": "2018-05-02 13:51:11"
            }
        ]
    }
}
```

Raises BinanceWithdrawException

get_exchange_info()

Return rate limits and list of symbols

Returns list - List of product dictionaries

```
{
    "timezone": "UTC",
    "serverTime": 1508631584636,
    "rateLimits": [
        {
            "rateLimitType": "REQUESTS",
            "interval": "MINUTE",
            "limit": 1200
        },
        {
            "rateLimitType": "ORDERS",
            "interval": "SECOND",
            "limit": 10
        },
        {
            "rateLimitType": "ORDERS",
            "interval": "DAY",
            "limit": 100000
        }
    ],
    "exchangeFilters": [],
    "symbols": [
        {
            "symbol": "ETHBTC",
            "status": "TRADING",
            "baseAsset": "ETH",
            "baseAssetPrecision": 8,
            "quoteAsset": "BTC",
```

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```
                "quotePrecision": 8,
                "orderTypes": ["LIMIT", "MARKET"],
                "icebergAllowed": false,
                "filters": [
                    {
                        "filterType": "PRICE_FILTER",
                        "minPrice": "0.00000100",
                        "maxPrice": "100000.00000000",
                        "tickSize": "0.00000100"
                    }, {
                        "filterType": "LOT_SIZE",
                        "minQty": "0.00100000",
                        "maxQty": "100000.00000000",
                        "stepSize": "0.00100000"
                    }, {
                        "filterType": "MIN_NOTIONAL",
                        "minNotional": "0.00100000"
                    }
                ]
            }
        ]
}
```


Raises BinanceRequestException, BinanceAPIException

get_fixed_activity_project_list(***params*)

Get Fixed and Activity Project List

https://binance-docs.github.io/apidocs/spot/en/#get-fixed-and-activity-project-list-user_data

Parameters **asset** – optional

Returns API response


```
[
    {
        "asset": "USDT",
        "displayPriority": 1,
        "duration": 90,
        "interestPerLot": "1.35810000",
        "interestRate": "0.05510000",
        "lotSize": "100.00000000",
        "lotsLowLimit": 1,
        "lotsPurchased": 74155,
        "lotsUpLimit": 80000,
        "maxLotsPerUser": 2000,
        "needKyc": False,
        "projectId": "CUSDT90DAYSS001",
        "projectName": "USDT",
        "status": "PURCHASING",
        "type": "CUSTOMIZED_FIXED",
        "withAreaLimitation": False
    }
]
```


Raises BinanceRequestException, BinanceAPIException

get_historical_klines(*symbol*, *interval*, *start_str*, *end_str=None*, *limit=500*)
Get Historical Klines from Binance

Parameters

- **symbol** (*str*) – Name of symbol pair e.g BNBBTC
- **interval** (*str*) – Binance Kline interval
- **start_str** (*str|int*) – Start date string in UTC format or timestamp in milliseconds
- **end_str** (*str|int*) – optional - end date string in UTC format or timestamp in milliseconds (default will fetch everything up to now)
- **limit** (*int*) – Default 500; max 1000.

Returns list of OHLCV values

get_historical_klines_generator(*symbol*, *interval*, *start_str*, *end_str=None*)
Get Historical Klines generator from Binance

Parameters

- **symbol** (*str*) – Name of symbol pair e.g BNBBTC
- **interval** (*str*) – Binance Kline interval
- **start_str** (*str|int*) – Start date string in UTC format or timestamp in milliseconds
- **end_str** (*str|int*) – optional - end date string in UTC format or timestamp in milliseconds (default will fetch everything up to now)

Returns generator of OHLCV values

get_historical_trades(***params*)
Get older trades.

https://github.com/binance/binance-spot-api-docs/blob/master/rest-api.md#recent-trades-list

Parameters

- **symbol** (*str*) – required
- **limit** (*int*) – Default 500; max 500.
- **fromId** (*str*) – TradeId to fetch from. Default gets most recent trades.

Returns API response

```
[
    {
        "id": 28457,
        "price": "4.00000100",
        "qty": "12.00000000",
        "time": 1499865549590,
        "isBuyerMaker": true,
        "isBestMatch": true
    }
]
```

Raises BinanceRequestException, BinanceAPIException

get_isolated_margin_account(***params*)

Query isolated margin account details

https://binance-docs.github.io/apidocs/spot/en/#query-isolated-margin-account-info-user_data

Parameters **symbols** – optional up to 5 margin pairs as a comma separated string

```
account_info = client.get_isolated_margin_account()
account_info = client.get_isolated_margin_account(symbols="BTCUSDT,ETHUSDT")
```

Returns API response

```
If "symbols" is not sent:

    {
    "assets":[
        {
            "baseAsset":
            {
            "asset": "BTC",
            "borrowEnabled": true,
            "borrowed": "0.00000000",
            "free": "0.00000000",
            "interest": "0.00000000",
            "locked": "0.00000000",
            "netAsset": "0.00000000",
            "netAssetOfBtc": "0.00000000",
            "repayEnabled": true,
            "totalAsset": "0.00000000"
            },
            "quoteAsset":
            {
            "asset": "USDT",
            "borrowEnabled": true,
            "borrowed": "0.00000000",
            "free": "0.00000000",
            "interest": "0.00000000",
            "locked": "0.00000000",
            "netAsset": "0.00000000",
            "netAssetOfBtc": "0.00000000",
            "repayEnabled": true,
            "totalAsset": "0.00000000"
            },
            "symbol": "BTCUSDT"
            "isolatedCreated": true,
            "marginLevel": "0.00000000",
            "marginLevelStatus": "EXCESSIVE", // "EXCESSIVE", "NORMAL",
↪"MARGIN_CALL", "PRE_LIQUIDATION", "FORCE_LIQUIDATION"
            "marginRatio": "0.00000000",
            "indexPrice": "10000.00000000"
            "liquidatePrice": "1000.00000000",
            "liquidateRate": "1.00000000"
            "tradeEnabled": true
        }
        ],
        "totalAssetOfBtc": "0.00000000",
        "totalLiabilityOfBtc": "0.00000000",
        "totalNetAssetOfBtc": "0.00000000"
```

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```
    }

If "symbols" is sent:

    {
    "assets":[
        {
            "baseAsset":
            {
            "asset": "BTC",
            "borrowEnabled": true,
            "borrowed": "0.00000000",
            "free": "0.00000000",
            "interest": "0.00000000",
            "locked": "0.00000000",
            "netAsset": "0.00000000",
            "netAssetOfBtc": "0.00000000",
            "repayEnabled": true,
            "totalAsset": "0.00000000"
            },
            "quoteAsset":
            {
            "asset": "USDT",
            "borrowEnabled": true,
            "borrowed": "0.00000000",
            "free": "0.00000000",
            "interest": "0.00000000",
            "locked": "0.00000000",
            "netAsset": "0.00000000",
            "netAssetOfBtc": "0.00000000",
            "repayEnabled": true,
            "totalAsset": "0.00000000"
            },
            "symbol": "BTCUSDT"
            "isolatedCreated": true,
            "marginLevel": "0.00000000",
            "marginLevelStatus": "EXCESSIVE", // "EXCESSIVE", "NORMAL",
↪"MARGIN_CALL", "PRE_LIQUIDATION", "FORCE_LIQUIDATION"
            "marginRatio": "0.00000000",
            "indexPrice": "10000.00000000"
            "liquidatePrice": "1000.00000000",
            "liquidateRate": "1.00000000"
            "tradeEnabled": true
        }
        ]
    }
```

get_isolated_margin_symbol(***params*)

Query isolated margin symbol info

https://binance-docs.github.io/apidocs/spot/en/#query-isolated-margin-symbol-user_data

Parameters **symbol** (*str*) – name of the symbol pair

```
pair_details = client.get_isolated_margin_symbol(symbol='BTCUSDT')
```

Returns API response

```
{
"symbol":"BTCUSDT",
"base":"BTC",
"quote":"USDT",
"isMarginTrade":true,
"isBuyAllowed":true,
"isSellAllowed":true
}
```

Raises BinanceRequestException, BinanceAPIException

get_klines(***params*)

Kline/candlestick bars for a symbol. Klines are uniquely identified by their open time.

https://github.com/binance/binance-spot-api-docs/blob/master/rest-api.md#klinecandlestick-data

Parameters

- **symbol** (*str*) – required
- **interval** (*str*) –
  –
- **limit** (*int*) –
  – Default 500; max 500.
- **startTime** (*int*) –
- **endTime** (*int*) –

Returns API response

```
[
    [
        1499040000000,      # Open time
        "0.01634790",       # Open
        "0.80000000",       # High
        "0.01575800",       # Low
        "0.01577100",       # Close
        "148976.11427815",  # Volume
        1499644799999,      # Close time
        "2434.19055334",    # Quote asset volume
        308,                # Number of trades
        "1756.87402397",    # Taker buy base asset volume
        "28.46694368",      # Taker buy quote asset volume
        "17928899.62484339" # Can be ignored
    ]
]
```

Raises BinanceRequestException, BinanceAPIException

get_lending_account(***params*)

Get Lending Account Details

https://binance-docs.github.io/apidocs/spot/en/#lending-account-user_data

get_lending_daily_quota_left(***params*)

Get Left Daily Purchase Quota of Flexible Product.

https://binance-docs.github.io/apidocs/spot/en/#get-left-daily-purchase-quota-of-flexible-product-user_data

get_lending_daily_redemption_quota(***params*)
Get Left Daily Redemption Quota of Flexible Product

https://binance-docs.github.io/apidocs/spot/en/#get-left-daily-redemption-quota-of-flexible-product-user_data

get_lending_interest_history(***params*)
Get Lending Interest History

https://binance-docs.github.io/apidocs/spot/en/#get-interest-history-user_data-2

get_lending_position(***params*)
Get Flexible Product Position

https://binance-docs.github.io/apidocs/spot/en/#get-flexible-product-position-user_data

get_lending_product_list(***params*)
Get Lending Product List

https://binance-docs.github.io/apidocs/spot/en/#get-flexible-product-list-user_data

get_lending_purchase_history(***params*)
Get Lending Purchase History

https://binance-docs.github.io/apidocs/spot/en/#get-purchase-record-user_data

get_lending_redemption_history(***params*)
Get Lending Redemption History

https://binance-docs.github.io/apidocs/spot/en/#get-redemption-record-user_data

get_margin_account(***params*)
Query cross-margin account details

https://binance-docs.github.io/apidocs/spot/en/#query-cross-margin-account-details-user_data

Returns API response


```
{
    "borrowEnabled": true,
    "marginLevel": "11.64405625",
    "totalAssetOfBtc": "6.82728457",
    "totalLiabilityOfBtc": "0.58633215",
    "totalNetAssetOfBtc": "6.24095242",
    "tradeEnabled": true,
    "transferEnabled": true,
    "userAssets": [
        {
            "asset": "BTC",
            "borrowed": "0.00000000",
            "free": "0.00499500",
            "interest": "0.00000000",
            "locked": "0.00000000",
            "netAsset": "0.00499500"
        },
        {
            "asset": "BNB",
            "borrowed": "201.66666672",
            "free": "2346.50000000",
            "interest": "0.00000000",
```


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```
            "locked": "0.00000000",
            "netAsset": "2144.83333328"
        },
        {
            "asset": "ETH",
            "borrowed": "0.00000000",
            "free": "0.00000000",
            "interest": "0.00000000",
            "locked": "0.00000000",
            "netAsset": "0.00000000"
        },
        {
            "asset": "USDT",
            "borrowed": "0.00000000",
            "free": "0.00000000",
            "interest": "0.00000000",
            "locked": "0.00000000",
            "netAsset": "0.00000000"
        }
    ]
}
```


Raises BinanceRequestException, BinanceAPIException

get_margin_asset(***params*)

Query cross-margin asset

https://binance-docs.github.io/apidocs/spot/en/#query-margin-asset-market_data

Parameters **asset** (*str*) – name of the asset

```
asset_details = client.get_margin_asset(asset='BNB')
```

Returns API response


```
{
    "assetFullName": "Binance Coin",
    "assetName": "BNB",
    "isBorrowable": false,
    "isMortgageable": true,
    "userMinBorrow": "0.00000000",
    "userMinRepay": "0.00000000"
}
```


Raises BinanceRequestException, BinanceAPIException

get_margin_loan_details(***params*)

Query loan record

txId or startTime must be sent. txId takes precedence.

https://binance-docs.github.io/apidocs/spot/en/#query-loan-record-user_data

Parameters

- **asset** (*str*) – required

- **isolatedSymbol** (*str*) – isolated symbol (if querying isolated margin)
- **txId** (*str*) – the tranId in of the created loan
- **startTime** (*str*) – earliest timestamp to filter transactions
- **endTime** (*str*) – Used to uniquely identify this cancel. Automatically generated by default.
- **current** (*str*) – Currently querying page. Start from 1. Default:1
- **size** (*int*) – Default:10 Max:100
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns

API response

{

"rows": [

{ "asset": "BNB", "principal": "0.84624403", "timestamp": 1555056425000, //one of PENDING (pending to execution), CONFIRMED (successfully loaned), FAILED (execution failed, nothing happened to your account); "status": "CONFIRMED"

}

], "total": 1

}

Raises BinanceRequestException, BinanceAPIException

get_margin_order(***params*)

Query margin accounts order

Either orderId or origClientOrderId must be sent.

For some historical orders cummulativeQuoteQty will be < 0, meaning the data is not available at this time.

https://binance-docs.github.io/apidocs/spot/en/#query-margin-account-39-s-order-user_data

Parameters

- **symbol** (*str*) – required
- **isIsolated** (*str*) – set to 'TRUE' for isolated margin (default 'FALSE')
- **orderId** (*str*) –
- **origClientOrderId** (*str*) –
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns

API response

{ "clientOrderId": "ZwfQzuDIGpceVhKW5DvCmO", "cummulativeQuoteQty": "0.00000000", "executedQty": "0.00000000", "icebergQty": "0.00000000", "isWorking": true, "orderId": 213205622, "origQty": "0.30000000", "price": "0.00493630", "side": "SELL", "status": "NEW", "stopPrice": "0.00000000", "symbol": "BNBBTC", "time": 1562133008725, "timeInForce": "GTC", "type": "LIMIT", "updateTime": 1562133008725

}

Raises BinanceRequestException, BinanceAPIException

get_margin_price_index(***params*)

Query margin priceIndex

https://binance-docs.github.io/apidocs/spot/en/#query-margin-priceindex-market_data

Parameters **symbol** (*str*) – name of the symbol pair

```
price_index_details = client.get_margin_price_index(symbol='BTCUSDT')
```

Returns API response

```
{
    "calcTime": 1562046418000,
    "price": "0.00333930",
    "symbol": "BNBBTC"
}
```

Raises BinanceRequestException, BinanceAPIException

get_margin_repay_details(***params*)

Query repay record

txId or startTime must be sent. txId takes precedence.

https://binance-docs.github.io/apidocs/spot/en/#query-repay-record-user_data

Parameters

- **asset** (*str*) – required
- **isolatedSymbol** (*str*) – isolated symbol (if querying isolated margin)
- **txId** (*str*) – the tranId in of the created loan
- **startTime** (*str*) –
- **endTime** (*str*) – Used to uniquely identify this cancel. Automatically generated by default.
- **current** (*str*) – Currently querying page. Start from 1. Default:1
- **size** (*int*) – Default:10 Max:100
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns

API response

{

"rows": [

{ //Total amount repaid "amount": "14.00000000", "asset": "BNB", //Interest repaid "interest": "0.01866667", //Principal repaid "principal": "13.98133333", //one of PENDING (pending to execution), CONFIRMED (successfully loaned), FAILED (execution failed, nothing happened to your account); "status": "CONFIRMED", "timestamp": 1563438204000, "txId": 2970933056

}

], "total": 1

}

Raises BinanceRequestException, BinanceAPIException

get_margin_symbol(***params*)

Query cross-margin symbol info

https://binance-docs.github.io/apidocs/spot/en/#query-cross-margin-pair-market_data

Parameters **symbol** (*str*) – name of the symbol pair

```
pair_details = client.get_margin_symbol(symbol='BTCUSDT')
```

Returns API response

```
{
    "id":323355778339572400,
    "symbol":"BTCUSDT",
    "base":"BTC",
    "quote":"USDT",
    "isMarginTrade":true,
    "isBuyAllowed":true,
    "isSellAllowed":true
}
```

Raises BinanceRequestException, BinanceAPIException

get_margin_trades(***params*)

Query margin accounts trades

If fromId is set, it will get orders >= that fromId. Otherwise most recent orders are returned.

https://binance-docs.github.io/apidocs/spot/en/#query-margin-account-39-s-trade-list-user_data

Parameters

- **symbol** (*str*) – required
- **isIsolated** (*str*) – set to 'TRUE' for isolated margin (default 'FALSE')
- **fromId** (*str*) – optional
- **startTime** (*str*) – optional
- **endTime** (*str*) – optional
- **limit** (*int*) – Default 500; max 1000
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns

API response

[

{ "commission": "0.00006000", "commissionAsset": "BTC", "id": 34, "isBestMatch": true, "isBuyer": false, "isMaker": false, "orderId": 39324, "price": "0.02000000", "qty": "3.00000000", "symbol": "BNBBTC", "time": 1561973357171

}, { "commission": "0.00002950", "commissionAsset": "BTC", "id": 32, "isBestMatch": true, "isBuyer": false, "isMaker": true, "orderId": 39319, "price": "0.00590000", "qty": "5.00000000", "symbol": "BNBBTC", "time": 1561964645345

}

]

Raises BinanceRequestException, BinanceAPIException

get_max_margin_loan(***params*)

Query max borrow amount for an asset

https://binance-docs.github.io/apidocs/spot/en/#query-max-borrow-user_data

Parameters

- **asset** (*str*) – required
- **isolatedSymbol** (*str*) – isolated symbol (if querying isolated margin)
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns

API response

{ "amount": "1.69248805"

}

Raises BinanceRequestException, BinanceAPIException

get_max_margin_transfer(***params*)

Query max transfer-out amount

https://binance-docs.github.io/apidocs/spot/en/#query-max-transfer-out-amount-user_data

Parameters

- **asset** (*str*) – required
- **isolatedSymbol** (*str*) – isolated symbol (if querying isolated margin)
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns

API response

{ "amount": "3.59498107"

}

Raises BinanceRequestException, BinanceAPIException

get_my_trades(***params*)

Get trades for a specific symbol.

https://github.com/binance/binance-spot-api-docs/blob/master/rest-api.md#account-trade-list-user_data

Parameters

- **symbol** (*str*) – required
- **limit** (*int*) – Default 500; max 500.
- **fromId** (*int*) – TradeId to fetch from. Default gets most recent trades.

- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response

```
[
    {
        "id": 28457,
        "price": "4.00000100",
        "qty": "12.00000000",
        "commission": "10.10000000",
        "commissionAsset": "BNB",
        "time": 1499865549590,
        "isBuyer": true,
        "isMaker": false,
        "isBestMatch": true
    }
]
```

Raises BinanceRequestException, BinanceAPIException

get_open_margin_orders(***params*)

Query margin accounts open orders

If the symbol is not sent, orders for all symbols will be returned in an array (cross-margin only).

If querying isolated margin orders, both the isIsolated='TRUE' and symbol=symbol_name must be set.

When all symbols are returned, the number of requests counted against the rate limiter is equal to the number of symbols currently trading on the exchange.

https://binance-docs.github.io/apidocs/spot/en/#query-margin-account-39-s-open-order-user_data

Parameters

- **symbol** (*str*) – optional
- **isIsolated** (*str*) – set to 'TRUE' for isolated margin (default 'FALSE')
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns

API response

[

{ "clientOrderId": "qhcZw71gAkCCTv0t0k8LUK", "cummulativeQuoteQty": "0.00000000", "executedQty": "0.00000000", "icebergQty": "0.00000000", "isWorking": true, "orderId": 211842552, "origQty": "0.30000000", "price": "0.00475010", "side": "SELL", "status": "NEW", "stopPrice": "0.00000000", "symbol": "BNBBTC", "time": 1562040170089, "timeInForce": "GTC", "type": "LIMIT", "updateTime": 1562040170089

}

]

Raises BinanceRequestException, BinanceAPIException

get_open_orders(***params*)

Get all open orders on a symbol.

https://github.com/binance/binance-spot-api-docs/blob/master/rest-api.md#current-open-orders-user_data

Parameters

- **symbol** (*str*) – optional
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response

```
[
    {
        "symbol": "LTCBTC",
        "orderId": 1,
        "clientOrderId": "myOrder1",
        "price": "0.1",
        "origQty": "1.0",
        "executedQty": "0.0",
        "status": "NEW",
        "timeInForce": "GTC",
        "type": "LIMIT",
        "side": "BUY",
        "stopPrice": "0.0",
        "icebergQty": "0.0",
        "time": 1499827319559
    }
]
```

Raises BinanceRequestException, BinanceAPIException

get_order (***params*)

Check an order's status. Either orderId or origClientOrderId must be sent.

https://github.com/binance/binance-spot-api-docs/blob/master/rest-api.md#query-order-user_data

Parameters

- **symbol** (*str*) – required
- **orderId** (*int*) – The unique order id
- **origClientOrderId** (*str*) – optional
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response

```
{
    "symbol": "LTCBTC",
    "orderId": 1,
    "clientOrderId": "myOrder1",
    "price": "0.1",
    "origQty": "1.0",
    "executedQty": "0.0",
    "status": "NEW",
    "timeInForce": "GTC",
    "type": "LIMIT",
    "side": "BUY",
    "stopPrice": "0.0",
    "icebergQty": "0.0",
    "time": 1499827319559
}
```

Raises BinanceRequestException, BinanceAPIException

get_order_book(***params*)

Get the Order Book for the market

https://github.com/binance/binance-spot-api-docs/blob/master/rest-api.md#order-book

Parameters

- **symbol** (*str*) – required
- **limit** (*int*) – Default 100; max 1000

Returns API response

```
{
    "lastUpdateId": 1027024,
    "bids": [
        [
            "4.00000000",      # PRICE
            "431.00000000",    # QTY
            []                 # Can be ignored
        ]
    ],
    "asks": [
        [
            "4.00000200",
            "12.00000000",
            []
        ]
    ]
}
```

Raises BinanceRequestException, BinanceAPIException

get_orderbook_ticker(***params*)

Latest price for a symbol or symbols.

https://github.com/binance/binance-spot-api-docs/blob/master/rest-api.md#symbol-order-book-ticker

Parameters **symbol** (*str*) –

Returns API response

```
{
    "symbol": "LTCBTC",
    "bidPrice": "4.00000000",
    "bidQty": "431.00000000",
    "askPrice": "4.00000200",
    "askQty": "9.00000000"
}
```

OR

```
[
    {
        "symbol": "LTCBTC",
        "bidPrice": "4.00000000",
        "bidQty": "431.00000000",
        "askPrice": "4.00000200",
```

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```
        "askQty": "9.00000000"
    },
    {
        "symbol": "ETHBTC",
        "bidPrice": "0.07946700",
        "bidQty": "9.00000000",
        "askPrice": "100000.00000000",
        "askQty": "1000.00000000"
    }
]
```


Raises BinanceRequestException, BinanceAPIException

get_orderbook_tickers()
Best price/qty on the order book for all symbols.

https://www.binance.com/restapipub.html#symbols-order-book-ticker

Returns List of order book market entries


```
[
    {
        "symbol": "LTCBTC",
        "bidPrice": "4.00000000",
        "bidQty": "431.00000000",
        "askPrice": "4.00000200",
        "askQty": "9.00000000"
    },
    {
        "symbol": "ETHBTC",
        "bidPrice": "0.07946700",
        "bidQty": "9.00000000",
        "askPrice": "100000.00000000",
        "askQty": "1000.00000000"
    }
]
```


Raises BinanceRequestException, BinanceAPIException

get_products()
Return list of products currently listed on Binance

Use get_exchange_info() call instead

Returns list - List of product dictionaries

Raises BinanceRequestException, BinanceAPIException

get_recent_trades(****params*)
Get recent trades (up to last 500).

https://github.com/binance/binance-spot-api-docs/blob/master/rest-api.md#recent-trades-list

Parameters

- **symbol** (*str*) – required
- **limit** (*int*) – Default 500; max 500.

Returns API response

```
[
    {
        "id": 28457,
        "price": "4.00000100",
        "qty": "12.00000000",
        "time": 1499865549590,
        "isBuyerMaker": true,
        "isBestMatch": true
    }
]
```

Raises BinanceRequestException, BinanceAPIException

get_server_time()

Test connectivity to the Rest API and get the current server time.

https://github.com/binance/binance-spot-api-docs/blob/master/rest-api.md#check-server-time

Returns Current server time

```
{
    "serverTime": 1499827319559
}
```

Raises BinanceRequestException, BinanceAPIException

get_sub_account_assets(***params*)

Fetch sub-account assets

https://binance-docs.github.io/apidocs/spot/en/#query-sub-account-assets-for-master-account

Parameters

- **email** (*str*) – required
- **symbol** (*str*) – optional
- **recvWindow** (*int*) – optional

Returns API response

```
{
    "success":true,
    "balances":[
        {
            "asset":"ADA",
            "free":10000,
            "locked":0
        },
        {
            "asset":"BNB",
            "free":10003,
            "locked":0
        },
        {
            "asset":"BTC",
            "free":11467.6399,
            "locked":0
```

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```
        },
        {
            "asset":"ETH",
            "free":10004.995,
            "locked":0
        },
        {
            "asset":"USDT",
            "free":11652.14213,
            "locked":0
        }
    ]
}
```


Raises BinanceRequestException, BinanceAPIException

get_sub_account_futures_transfer_history(***params*)

Query Sub-account Futures Transfer History.

https://binance-docs.github.io/apidocs/spot/en/#query-sub-account-futures-asset-transfer-history-for-master-account

Parameters

- **email** (*str*) – required
- **futuresType** (*int*) – required
- **startTime** (*int*) – optional
- **endTime** (*int*) – optional
- **page** (*int*) – optional
- **limit** (*int*) – optional
- **recvWindow** (*int*) – optional

Returns API response


```
{
    "success":true,
    "futuresType": 2,
    "transfers":[
        {
            "from":"aaa@test.com",
            "to":"bbb@test.com",
            "asset":"BTC",
            "qty":"1",
            "time":1544433328000
        },
        {
            "from":"bbb@test.com",
            "to":"ccc@test.com",
            "asset":"ETH",
            "qty":"2",
            "time":1544433328000
        }
    ]
}
```

Raises BinanceRequestException, BinanceAPIException

get_sub_account_list (***params*)

Query Sub-account List.

https://binance-docs.github.io/apidocs/spot/en/#query-sub-account-list-for-master-account

Parameters

- **email** (*str*) – optional
- **startTime** (*int*) – optional
- **endTime** (*int*) – optional
- **page** (*int*) – optional
- **limit** (*int*) – optional
- **recvWindow** (*int*) – optional

Returns API response


```
{
    "success":true,
    "subAccounts":[
        {
            "email":"123@test.com",
            "status":"enabled",
            "activated":true,
            "mobile":"91605290",
            "gAuth":true,
            "createTime":1544433328000
        },
        {
            "email":"321@test.com",
            "status":"disabled",
            "activated":true,
            "mobile":"22501238",
            "gAuth":true,
            "createTime":1544433328000
        }
    ]
}
```


Raises BinanceRequestException, BinanceAPIException

get_sub_account_transfer_history (***params*)

Query Sub-account Transfer History.

https://binance-docs.github.io/apidocs/spot/en/#query-sub-account-spot-asset-transfer-history-for-master-account

Parameters

- **email** (*str*) – required
- **startTime** (*int*) – optional
- **endTime** (*int*) – optional
- **page** (*int*) – optional
- **limit** (*int*) – optional

- **recvWindow** (*int*) – optional

Returns API response

```
{
    "success":true,
    "transfers":[
        {
            "from":"aaa@test.com",
            "to":"bbb@test.com",
            "asset":"BTC",
            "qty":"1",
            "time":1544433328000
        },
        {
            "from":"bbb@test.com",
            "to":"ccc@test.com",
            "asset":"ETH",
            "qty":"2",
            "time":1544433328000
        }
    ]
}
```

Raises BinanceRequestException, BinanceAPIException

get_subaccount_deposit_address(***params*)

Get Sub-account Deposit Address (For Master Account)

https://binance-docs.github.io/apidocs/spot/en/#get-sub-account-deposit-address-for-master-account

Parameters

- **email** (*str*) – required - Sub account email
- **coin** (*str*) – required
- **network** (*str*) – optional
- **recvWindow** (*int*) – optional

Returns API response

```
{
     "address":"TDunhSa7jkTNuKrusUTU1MUHtqXoBPKETV",
     "coin":"USDT",
     "tag":"",
     "url":"https://tronscan.org/#/address/TDunhSa7jkTNuKrusUTU1MUHtqXoBPKETV
↪"
 }
```

Raises BinanceRequestException, BinanceAPIException

get_subaccount_deposit_history(***params*)

Get Sub-account Deposit History (For Master Account)

https://binance-docs.github.io/apidocs/spot/en/#get-sub-account-deposit-address-for-master-account

Parameters

- **email** (*str*) – required - Sub account email

- **coin** (*str*) – optional
- **status** (*int*) – optional - (0:pending,6: credited but cannot withdraw, 1:success)
- **startTime** (*int*) – optional
- **endTime** (*int*) – optional
- **limit** (*int*) – optional
- **offset** (*int*) – optional - default:0
- **recvWindow** (*int*) – optional

Returns API response

```
[
    {
        "amount":"0.00999800",
        "coin":"PAXG",
        "network":"ETH",
        "status":1,
        "address":"0x788cabe9236ce061e5a892e1a59395a81fc8d62c",
        "addressTag":"",
        "txId":
↪"0xaad4654a3234aa6118af9b4b335f5ae81c360b2394721c019b5d1e75328b09f3",
        "insertTime":1599621997000,
        "transferType":0,
        "confirmTimes":"12/12"
    },
    {
        "amount":"0.50000000",
        "coin":"IOTA",
        "network":"IOTA",
        "status":1,
        "address":
↪"SIZ9VLMHWATXKV99LH99CIGFJFUMLEHGWVZVNNZXRJJVWBPHYWPPBOSDORZ9EQSHCZAMPVAPGFYQAUUV9DROOXJL
↪",
        "addressTag":"",
        "txId":
↪"ESBFVQUTPIWQNJSPXFNHNYHSQNTGKRVKPRABQWTAXCDWOAKDKYWPTVG9BGXNVNKTLEJGESAVXIKIZ9999
↪",
        "insertTime":1599620082000,
        "transferType":0,
        "confirmTimes":"1/1"
    }
]
```

Raises BinanceRequestException, BinanceAPIException

get_subaccount_futures_details (***params*)

Get Detail on Sub-account's Futures Account (For Master Account)

https://binance-docs.github.io/apidocs/spot/en/#get-detail-on-sub-account-39-s-futures-account-for-master-account

Parameters

- **email** (*str*) – required - Sub account email
- **recvWindow** (*int*) – optional

Returns API response

```
{
    "email": "abc@test.com",
    "asset": "USDT",
    "assets":[
        {
            "asset": "USDT",
            "initialMargin": "0.00000000",
            "maintenanceMargin": "0.00000000",
            "marginBalance": "0.88308000",
            "maxWithdrawAmount": "0.88308000",
            "openOrderInitialMargin": "0.00000000",
            "positionInitialMargin": "0.00000000",
            "unrealizedProfit": "0.00000000",
            "walletBalance": "0.88308000"
         }
    ],
    "canDeposit": true,
    "canTrade": true,
    "canWithdraw": true,
    "feeTier": 2,
    "maxWithdrawAmount": "0.88308000",
    "totalInitialMargin": "0.00000000",
    "totalMaintenanceMargin": "0.00000000",
    "totalMarginBalance": "0.88308000",
    "totalOpenOrderInitialMargin": "0.00000000",
    "totalPositionInitialMargin": "0.00000000",
    "totalUnrealizedProfit": "0.00000000",
    "totalWalletBalance": "0.88308000",
    "updateTime": 1576756674610
}
```


Raises BinanceRequestException, BinanceAPIException

get_subaccount_futures_margin_status (***params*)

Get Sub-account's Status on Margin/Futures (For Master Account)

https://binance-docs.github.io/apidocs/spot/en/#get-sub-account-39-s-status-on-margin-futures-for-master-account

Parameters

- **email** (*str*) – optional - Sub account email
- **recvWindow** (*int*) – optional

Returns API response


```
[
     {
         "email":"123@test.com",      // user email
         "isSubUserEnabled": true,    // true or false
         "isUserActive": true,        // true or false
         "insertTime": 1570791523523  // sub account create time
         "isMarginEnabled": true,     // true or false for margin
         "isFutureEnabled": true      // true or false for futures.
         "mobile": 1570791523523      // user mobile number
     }
 ]
```

Raises BinanceRequestException, BinanceAPIException

get_subaccount_futures_positionrisk(***params*)
Get Futures Position-Risk of Sub-account (For Master Account)

https://binance-docs.github.io/apidocs/spot/en/#get-futures-position-risk-of-sub-account-for-master-account

Parameters

- **email** (*str*) – required - Sub account email
- **recvWindow** (*int*) – optional

Returns API response

```
[
    {
        "entryPrice": "9975.12000",
        "leverage": "50",              // current initial leverage
        "maxNotional": "1000000",      // notional value limit of current␣
↪initial leverage
        "liquidationPrice": "7963.54",
        "markPrice": "9973.50770517",
        "positionAmount": "0.010",
        "symbol": "BTCUSDT",
        "unrealizedProfit": "-0.01612295"
    }
]
```

Raises BinanceRequestException, BinanceAPIException

get_subaccount_futures_summary(***params*)
Get Summary of Sub-account's Futures Account (For Master Account)

https://binance-docs.github.io/apidocs/spot/en/#get-summary-of-sub-account-39-s-futures-account-for-master-account

Parameters **recvWindow** (*int*) – optional

Returns API response

```
{
    "totalInitialMargin": "9.83137400",
    "totalMaintenanceMargin": "0.41568700",
    "totalMarginBalance": "23.03235621",
    "totalOpenOrderInitialMargin": "9.00000000",
    "totalPositionInitialMargin": "0.83137400",
    "totalUnrealizedProfit": "0.03219710",
    "totalWalletBalance": "22.15879444",
    "asset": "USDT",
    "subAccountList":[
        {
            "email": "123@test.com",
            "totalInitialMargin": "9.00000000",
            "totalMaintenanceMargin": "0.00000000",
            "totalMarginBalance": "22.12659734",
            "totalOpenOrderInitialMargin": "9.00000000",
            "totalPositionInitialMargin": "0.00000000",
            "totalUnrealizedProfit": "0.00000000",
            "totalWalletBalance": "22.12659734",
            "asset": "USDT"
```

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```
        },
        {
            "email": "345@test.com",
            "totalInitialMargin": "0.83137400",
            "totalMaintenanceMargin": "0.41568700",
            "totalMarginBalance": "0.90575887",
            "totalOpenOrderInitialMargin": "0.00000000",
            "totalPositionInitialMargin": "0.83137400",
            "totalUnrealizedProfit": "0.03219710",
            "totalWalletBalance": "0.87356177",
            "asset": "USDT"
        }
    ]
}
```

Raises BinanceRequestException, BinanceAPIException

get_subaccount_margin_details (***params*)

Get Detail on Sub-account's Margin Account (For Master Account)

https://binance-docs.github.io/apidocs/spot/en/#get-detail-on-sub-account-39-s-margin-account-for-master-account

Parameters

- **email** (*str*) – required - Sub account email
- **recvWindow** (*int*) – optional

Returns API response

```
{
      "email":"123@test.com",
      "marginLevel": "11.64405625",
      "totalAssetOfBtc": "6.82728457",
      "totalLiabilityOfBtc": "0.58633215",
      "totalNetAssetOfBtc": "6.24095242",
      "marginTradeCoeffVo":
            {
                "forceLiquidationBar": "1.10000000",  // Liquidation margin␣
↪ratio
                "marginCallBar": "1.50000000",        // Margin call margin␣
↪ratio
                "normalBar": "2.00000000"             // Initial margin ratio
            },
      "marginUserAssetVoList": [
          {
              "asset": "BTC",
              "borrowed": "0.00000000",
              "free": "0.00499500",
              "interest": "0.00000000",
              "locked": "0.00000000",
              "netAsset": "0.00499500"
          },
          {
              "asset": "BNB",
              "borrowed": "201.66666672",
              "free": "2346.50000000",
              "interest": "0.00000000",
```

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```
                "locked": "0.00000000",
                "netAsset": "2144.83333328"
            },
            {
                "asset": "ETH",
                "borrowed": "0.00000000",
                "free": "0.00000000",
                "interest": "0.00000000",
                "locked": "0.00000000",
                "netAsset": "0.00000000"
            },
            {
                "asset": "USDT",
                "borrowed": "0.00000000",
                "free": "0.00000000",
                "interest": "0.00000000",
                "locked": "0.00000000",
                "netAsset": "0.00000000"
            }
        ]
}
```

Raises BinanceRequestException, BinanceAPIException

get_subaccount_margin_summary(***params*)

Get Summary of Sub-account's Margin Account (For Master Account)

https://binance-docs.github.io/apidocs/spot/en/#get-summary-of-sub-account-39-s-margin-account-for-master-account

Parameters **recvWindow** (*int*) – optional

Returns API response

```
{
    "totalAssetOfBtc": "4.33333333",
    "totalLiabilityOfBtc": "2.11111112",
    "totalNetAssetOfBtc": "2.22222221",
    "subAccountList":[
        {
            "email":"123@test.com",
            "totalAssetOfBtc": "2.11111111",
            "totalLiabilityOfBtc": "1.11111111",
            "totalNetAssetOfBtc": "1.00000000"
        },
        {
            "email":"345@test.com",
            "totalAssetOfBtc": "2.22222222",
            "totalLiabilityOfBtc": "1.00000001",
            "totalNetAssetOfBtc": "1.22222221"
        }
    ]
}
```

Raises BinanceRequestException, BinanceAPIException

get_subaccount_transfer_history(***params*)

Sub-account Transfer History (For Sub-account) https://binance-docs.github.io/apidocs/spot/en/#transfer-to-master-for-sub-account

Parameters

- **asset** (*str*) – required - The asset being transferred, e.g., USDT
- **type** (*int*) – optional - 1: transfer in, 2: transfer out
- **startTime** (*int*) – optional
- **endTime** (*int*) – optional
- **limit** (*int*) – optional - Default 500
- **recvWindow** (*int*) – optional

Returns API response

```
[
  {
    "counterParty":"master",
    "email":"master@test.com",
    "type":1,  // 1 for transfer in, 2 for transfer out
    "asset":"BTC",
    "qty":"1",
    "status":"SUCCESS",
    "tranId":11798835829,
    "time":1544433325000
  },
  {
    "counterParty":"subAccount",
    "email":"sub2@test.com",
    "type":2,
    "asset":"ETH",
    "qty":"2",
    "status":"SUCCESS",
    "tranId":11798829519,
    "time":1544433326000
  }
]
```

Raises BinanceRequestException, BinanceAPIException

get_symbol_info (*symbol*)

Return information about a symbol

Parameters **symbol** (*str*) – required e.g BNBBTC

Returns Dict if found, None if not

```
{
    "symbol": "ETHBTC",
    "status": "TRADING",
    "baseAsset": "ETH",
    "baseAssetPrecision": 8,
    "quoteAsset": "BTC",
    "quotePrecision": 8,
    "orderTypes": ["LIMIT", "MARKET"],
    "icebergAllowed": false,
    "filters": [
        {
```

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```
                "filterType": "PRICE_FILTER",
                "minPrice": "0.00000100",
                "maxPrice": "100000.00000000",
                "tickSize": "0.00000100"
            }, {
                "filterType": "LOT_SIZE",
                "minQty": "0.00100000",
                "maxQty": "100000.00000000",
                "stepSize": "0.00100000"
            }, {
                "filterType": "MIN_NOTIONAL",
                "minNotional": "0.00100000"
            }
        ]
}
```

Raises BinanceRequestException, BinanceAPIException

get_symbol_ticker(***params*)

Latest price for a symbol or symbols.

https://github.com/binance/binance-spot-api-docs/blob/master/rest-api.md#24hr-ticker-price-change-statistics

Parameters **symbol** (*str*) –

Returns API response

```
{
    "symbol": "LTCBTC",
    "price": "4.00000200"
}
```

OR

```
[
    {
        "symbol": "LTCBTC",
        "price": "4.00000200"
    },
    {
        "symbol": "ETHBTC",
        "price": "0.07946600"
    }
]
```

Raises BinanceRequestException, BinanceAPIException

get_system_status()

Get system status detail.

https://binance-docs.github.io/apidocs/spot/en/#system-status-system

Returns API response

```
{
    "status": 0,        # 0: normal1system maintenance
    "msg": "normal"     # normal or System maintenance.
}
```

Raises BinanceAPIException

get_ticker(***params*)

24 hour price change statistics.

https://github.com/binance/binance-spot-api-docs/blob/master/rest-api.md#24hr-ticker-price-change-statistics

Parameters **symbol** (*str*) –

Returns API response

```
{
    "priceChange": "-94.99999800",
    "priceChangePercent": "-95.960",
    "weightedAvgPrice": "0.29628482",
    "prevClosePrice": "0.10002000",
    "lastPrice": "4.00000200",
    "bidPrice": "4.00000000",
    "askPrice": "4.00000200",
    "openPrice": "99.00000000",
    "highPrice": "100.00000000",
    "lowPrice": "0.10000000",
    "volume": "8913.30000000",
    "openTime": 1499783499040,
    "closeTime": 1499869899040,
    "fristId": 28385,   # First tradeId
    "lastId": 28460,    # Last tradeId
    "count": 76         # Trade count
}
```

OR

```
[
    {
        "priceChange": "-94.99999800",
        "priceChangePercent": "-95.960",
        "weightedAvgPrice": "0.29628482",
        "prevClosePrice": "0.10002000",
        "lastPrice": "4.00000200",
        "bidPrice": "4.00000000",
        "askPrice": "4.00000200",
        "openPrice": "99.00000000",
        "highPrice": "100.00000000",
        "lowPrice": "0.10000000",
        "volume": "8913.30000000",
        "openTime": 1499783499040,
        "closeTime": 1499869899040,
        "fristId": 28385,   # First tradeId
        "lastId": 28460,    # Last tradeId
        "count": 76         # Trade count
    }
]
```

Raises BinanceRequestException, BinanceAPIException

get_trade_fee(***params*)

Get trade fee.

https://binance-docs.github.io/apidocs/spot/en/#trade-fee-user_data

Parameters

- **symbol** (*str*) – optional
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response


```
{
    "tradeFee": [
        {
            "symbol": "ADABNB",
            "maker": 0.9000,
            "taker": 1.0000
        }, {
            "symbol": "BNBBTC",
            "maker": 0.3000,
            "taker": 0.3000
        }
    ],
    "success": true
}
```


Raises BinanceWithdrawException

get_universal_transfer_history(***params*)

Universal Transfer (For Master Account)

https://binance-docs.github.io/apidocs/spot/en/#query-universal-transfer-history

Parameters

- **fromEmail** (*str*) – optional
- **toEmail** (*str*) – optional
- **startTime** (*int*) – optional
- **endTime** (*int*) – optional
- **page** (*int*) – optional
- **limit** (*int*) – optional
- **recvWindow** (*int*) – optional

Returns API response


```
[
  {
    "tranId":11945860693,
    "fromEmail":"master@test.com",
    "toEmail":"subaccount1@test.com",
    "asset":"BTC",
    "amount":"0.1",
```


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```
    "fromAccountType":"SPOT",
    "toAccountType":"COIN_FUTURE",
    "status":"SUCCESS",
    "createTimeStamp":1544433325000
  },
  {
    "tranId":11945857955,
    "fromEmail":"master@test.com",
    "toEmail":"subaccount2@test.com",
    "asset":"ETH",
    "amount":"0.2",
    "fromAccountType":"SPOT",
    "toAccountType":"USDT_FUTURE",
    "status":"SUCCESS",
    "createTimeStamp":1544433326000
  }
]
```


Raises BinanceRequestException, BinanceAPIException

get_withdraw_history(***params*)

Fetch withdraw history.

https://www.binance.com/restapipub.html

Parameters

- **asset** (*str*) – optional
- **startTime** (*long*) – optional
- **endTime** (*long*) – optional
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response


```
{
    "withdrawList": [
        {
            "amount": 1,
            "address": "0x6915f16f8791d0a1cc2bf47c13a6b2a92000504b",
            "asset": "ETH",
            "applyTime": 1508198532000
            "status": 4
        },
        {
            "amount": 0.005,
            "address": "0x6915f16f8791d0a1cc2bf47c13a6b2a92000504b",
            "txId":
↪"0x80aaabed54bdab3f6de5868f89929a2371ad21d666f20f7393d1a3389fad95a1",
            "asset": "ETH",
            "applyTime": 1508198532000,
            "status": 4
        }
    ],
    "success": true
}
```

Raises BinanceRequestException, BinanceAPIException

get_withdraw_history_id(*withdraw_id*, ***params*)
Fetch withdraw history.

https://www.binance.com/restapipub.html :param withdraw_id: required :type withdraw_id: str :param asset: optional :type asset: str :type status: 0(0:Email Sent,1:Cancelled 2:Awaiting Approval 3:Rejected 4:Processing 5:Failure 6Completed) optional :type status: int :param startTime: optional :type startTime: long :param endTime: optional :type endTime: long :param recvWindow: the number of milliseconds the request is valid for :type recvWindow: int

Returns API response

```
{
    "amount": 1,
    "address": "0x6915f16f8791d0a1cc2bf47c13a6b2a92000504b",
    "asset": "ETH",
    "applyTime": 1508198532000
    "status": 4
}
```

Raises BinanceRequestException, BinanceAPIException

isolated_margin_stream_close(*symbol*, *listenKey*)
Close out an isolated margin data stream.

https://binance-docs.github.io/apidocs/spot/en/#listen-key-isolated-margin

Parameters

- **symbol** (*str*) – required - symbol for the isolated margin account
- **listenKey** (*str*) – required

Returns API response

```
{}
```

Raises BinanceRequestException, BinanceAPIException

isolated_margin_stream_get_listen_key(*symbol*)
Start a new isolated margin data stream and return the listen key If a stream already exists it should return the same key. If the stream becomes invalid a new key is returned.

Can be used to keep the stream alive.

https://binance-docs.github.io/apidocs/spot/en/#listen-key-isolated-margin

Parameters **symbol** (*str*) – required - symbol for the isolated margin account

Returns API response

```
{
    "listenKey":
↪"T3ee22BIYuWqmvne0HNq2A2WsFlEtLhvWCtItw6ffhhdmjifQ2tRbuKkTHhr"
}
```

Raises BinanceRequestException, BinanceAPIException

isolated_margin_stream_keepalive(*symbol*, *listenKey*)
PING an isolated margin data stream to prevent a time out.

https://binance-docs.github.io/apidocs/spot/en/#listen-key-isolated-margin

Parameters

- **symbol** (*str*) – required - symbol for the isolated margin account
- **listenKey** (*str*) – required

Returns API response

```
{}
```

Raises BinanceRequestException, BinanceAPIException

make_subaccount_futures_transfer(***params*)
Futures Transfer for Sub-account (For Master Account)

https://binance-docs.github.io/apidocs/spot/en/#futures-transfer-for-sub-account-for-master-account

Parameters

- **email** (*str*) – required - Sub account email
- **asset** (*str*) – required - The asset being transferred, e.g., USDT
- **amount** (*float*) – required - The amount to be transferred
- **type** (*int*) – required - 1: transfer from subaccount's spot account to its USDT-margined futures account 2: transfer from subaccount's USDT-margined futures account to its spot account 3: transfer from subaccount's spot account to its COIN-margined futures account 4: transfer from subaccount's COIN-margined futures account to its spot account

Returns API response

```
{
    "txnId":"2966662589"
}
```

Raises BinanceRequestException, BinanceAPIException

make_subaccount_margin_transfer(***params*)
Margin Transfer for Sub-account (For Master Account)

https://binance-docs.github.io/apidocs/spot/en/#margin-transfer-for-sub-account-for-master-account

Parameters

- **email** (*str*) – required - Sub account email
- **asset** (*str*) – required - The asset being transferred, e.g., USDT
- **amount** (*float*) – required - The amount to be transferred
- **type** (*int*) – required - 1: transfer from subaccount's spot account to margin account 2: transfer from subaccount's margin account to its spot account

Returns API response

```
{
    "txnId":"2966662589"
}
```

Raises BinanceRequestException, BinanceAPIException

make_subaccount_to_master_transfer(***params*)

Transfer to Master (For Sub-account)

https://binance-docs.github.io/apidocs/spot/en/#transfer-to-master-for-sub-account

Parameters

- **asset** (*str*) – required - The asset being transferred, e.g., USDT
- **amount** (*float*) – required - The amount to be transferred
- **recvWindow** (*int*) – optional

Returns API response

```
{
    "txnId":"2966662589"
}
```

Raises BinanceRequestException, BinanceAPIException

make_subaccount_to_subaccount_transfer(***params*)

Transfer to Sub-account of Same Master (For Sub-account)

https://binance-docs.github.io/apidocs/spot/en/#transfer-to-sub-account-of-same-master-for-sub-account

Parameters

- **toEmail** (*str*) – required - Sub account email
- **asset** (*str*) – required - The asset being transferred, e.g., USDT
- **amount** (*float*) – required - The amount to be transferred
- **recvWindow** (*int*) – optional

Returns API response

```
{
    "txnId":"2966662589"
}
```

Raises BinanceRequestException, BinanceAPIException

make_universal_transfer(***params*)

Universal Transfer (For Master Account)

https://binance-docs.github.io/apidocs/spot/en/#universal-transfer-for-master-account

Parameters

- **fromEmail** (*str*) – optional
- **toEmail** (*str*) – optional
- **fromAccountType** (*str*) – required

- **toAccountType** (*str*) – required
- **asset** (*str*) – required - The asset being transferred, e.g., USDT
- **amount** (*float*) – required
- **recvWindow** (*int*) – optional

Returns API response

```
{
    "tranId":11945860693
}
```

Raises BinanceRequestException, BinanceAPIException

margin_stream_close (*listenKey*)

Close out a cross-margin data stream.

https://binance-docs.github.io/apidocs/spot/en/#listen-key-margin

Parameters **listenKey** (*str*) – required

Returns API response

```
{}
```

Raises BinanceRequestException, BinanceAPIException

margin_stream_get_listen_key ()

Start a new cross-margin data stream and return the listen key If a stream already exists it should return the same key. If the stream becomes invalid a new key is returned.

Can be used to keep the stream alive.

https://binance-docs.github.io/apidocs/spot/en/#listen-key-margin

Returns API response

```
{
    "listenKey":
↪"pqia91ma19a5s61cv6a81va65sdf19v8a65a1a5s61cv6a81va65sdf19v8a65a1"
}
```

Raises BinanceRequestException, BinanceAPIException

margin_stream_keepalive (*listenKey*)

PING a cross-margin data stream to prevent a time out.

https://binance-docs.github.io/apidocs/spot/en/#listen-key-margin

Parameters **listenKey** (*str*) – required

Returns API response

```
{}
```

Raises BinanceRequestException, BinanceAPIException

new_transfer_history(***params*)
Get future account transaction history list

https://binance-docs.github.io/apidocs/delivery/en/#new-future-account-transfer

options_account_info(***params*)
Account asset info (USER_DATA)

https://binance-docs.github.io/apidocs/voptions/en/#account-asset-info-user_data

Parameters **recvWindow** (*int*) – optional

options_bill(***params*)
Account funding flow (USER_DATA)

https://binance-docs.github.io/apidocs/voptions/en/#account-funding-flow-user_data

Parameters

- **currency** (*str*) – required - Asset type - USDT
- **recordId** (*int*) – optional - Return the recordId and subsequent data, the latest data is returned by default - 100000
- **startTime** (*int*) – optional - Start Time - 1593511200000
- **endTime** (*int*) – optional - End Time - 1593511200000
- **limit** (*int*) – optional - Number of result sets returned Default:100 Max:1000 - 100
- **recvWindow** (*int*) – optional

options_cancel_all_orders(***params*)
Cancel all Option orders (TRADE)

https://binance-docs.github.io/apidocs/voptions/en/#cancel-all-option-orders-trade

Parameters

- **symbol** (*str*) – required - Option trading pair - BTC-200730-9000-C
- **recvWindow** (*int*) – optional

options_cancel_batch_order(***params*)
Cancel Multiple Option orders (TRADE)

https://binance-docs.github.io/apidocs/voptions/en/#cancel-multiple-option-orders-trade

Parameters

- **symbol** (*str*) – required - Option trading pair - BTC-200730-9000-C
- **orderIds** – optional - Order ID - [4611875134427365377,4611875134427365378]
- **clientOrderIds** (*list*) – optional - User-defined order ID - [“my_id_1”,”my_id_2”]
- **recvWindow** (*int*) – optional

options_cancel_order(***params*)
Cancel Option order (TRADE)

https://binance-docs.github.io/apidocs/voptions/en/#cancel-option-order-trade

Parameters

- **symbol** (*str*) – required - Option trading pair - BTC-200730-9000-C

- **orderId** (*str*) – optional - Order ID - 4611875134427365377
- **clientOrderId** (*str*) – optional - User-defined order ID - 10000
- **recvWindow** (*int*) – optional

options_exchange_info()
Get current limit info and trading pair info

https://binance-docs.github.io/apidocs/voptions/en/#get-current-limit-info-and-trading-pair-info

options_funds_transfer(***params*)
Funds transfer (USER_DATA)

https://binance-docs.github.io/apidocs/voptions/en/#funds-transfer-user_data

Parameters

- **currency** (*str*) – required - Asset type - USDT
- **type** (*str (ENUM)*) – required - IN: Transfer from spot account to option account OUT: Transfer from option account to spot account - IN
- **amount** (*float*) – required - Amount - 10000
- **recvWindow** (*int*) – optional

options_historical_trades(***params*)
Query trade history

https://binance-docs.github.io/apidocs/voptions/en/#query-trade-history

Parameters

- **symbol** (*str*) – required - Option trading pair - BTC-200730-9000-C
- **fromId** (*int*) – optional - The deal ID from which to return. The latest deal record is returned by default - 1592317127349
- **limit** (*int*) – optional - Number of records Default:100 Max:500 - 100

options_index_price(***params*)
Get the spot index price

https://binance-docs.github.io/apidocs/voptions/en/#get-the-spot-index-price

Parameters **underlying** (*str*) – required - Spot pairOption contract underlying asset- BTCUSDT

options_info()
Get current trading pair info

https://binance-docs.github.io/apidocs/voptions/en/#get-current-trading-pair-info

options_klines(***params*)
Candle data

https://binance-docs.github.io/apidocs/voptions/en/#candle-data

Parameters

- **symbol** (*str*) – required - Option trading pair - BTC-200730-9000-C
- **interval** (*str*) – required - Time interval - 5m
- **startTime** (*int*) – optional - Start Time - 1592317127349
- **endTime** (*int*) – optional - End Time - 1592317127349

- **limit** (*int*) – optional - Number of records Default:500 Max:1500 - 500

options_mark_price(****params**)
Get the latest mark price

https://binance-docs.github.io/apidocs/voptions/en/#get-the-latest-mark-price

Parameters **symbol** (*str*) – optional - Option trading pair - BTC-200730-9000-C

options_order_book(***params*)
Depth information

https://binance-docs.github.io/apidocs/voptions/en/#depth-information

Parameters

- **symbol** (*str*) – required - Option trading pair - BTC-200730-9000-C
- **limit** (*int*) – optional - Default:100 Max:1000.Optional value:[10, 20, 50, 100, 500, 1000] - 100

options_ping()
Test connectivity

https://binance-docs.github.io/apidocs/voptions/en/#test-connectivity

options_place_batch_order(***params*)
Place Multiple Option orders (TRADE)

https://binance-docs.github.io/apidocs/voptions/en/#place-multiple-option-orders-trade

Parameters

- **orders** (*list*) – required - order list. Max 5 orders - [{"symbol":"BTC-210115-35000-C","price":"100","quantity":"0.0001","side":"BUY","type":"LIMIT"}]
- **recvWindow** (*int*) – optional

options_place_order(***params*)
Option order (TRADE)

https://binance-docs.github.io/apidocs/voptions/en/#option-order-trade

Parameters

- **symbol** (*str*) – required - Option trading pair - BTC-200730-9000-C
- **side** (*str (ENUM)*) – required - Buy/sell direction: SELL, BUY - BUY
- **type** (*str (ENUM)*) – required - Order Type: LIMIT, MARKET - LIMIT
- **quantity** (*float*) – required - Order Quantity - 3
- **price** (*float*) – optional - Order Price - 1000
- **timeInForce** (*str (ENUM)*) – optional - Time in force methodDefault GTC) - GTC
- **reduceOnly** (*bool*) – optional - Reduce Only (Default false) - false
- **postOnly** (*bool*) – optional - Post Only (Default false) - false
- **newOrderRespType** (*str (ENUM)*) – optional - "ACK", "RESULT", Default "ACK" - ACK
- **clientOrderId** (*str*) – optional - User-defined order ID cannot be repeated in pending orders - 10000

- **recvWindow** (*int*) – optional

options_positions (***params*)
Option holdings info (USER_DATA)

https://binance-docs.github.io/apidocs/voptions/en/#option-holdings-info-user_data

Parameters

- **symbol** (*str*) – optional - Option trading pair - BTC-200730-9000-C
- **recvWindow** (*int*) – optional

options_price (***params*)
Get the latest price

https://binance-docs.github.io/apidocs/voptions/en/#get-the-latest-price

Parameters **symbol** (*str*) – optional - Option trading pair - BTC-200730-9000-C

options_query_order (***params*)
Query Option order (TRADE)

https://binance-docs.github.io/apidocs/voptions/en/#query-option-order-trade

Parameters

- **symbol** (*str*) – required - Option trading pair - BTC-200730-9000-C
- **orderId** (*str*) – optional - Order ID - 4611875134427365377
- **clientOrderId** (*str*) – optional - User-defined order ID - 10000
- **recvWindow** (*int*) – optional

options_query_order_history (***params*)
Query Option order history (TRADE)

https://binance-docs.github.io/apidocs/voptions/en/#query-option-order-history-trade

Parameters

- **symbol** (*str*) – required - Option trading pair - BTC-200730-9000-C
- **orderId** (*str*) – optional - Returns the orderId and subsequent orders, the most recent order is returned by default - 100000
- **startTime** (*int*) – optional - Start Time - 1593511200000
- **endTime** (*int*) – optional - End Time - 1593511200000
- **limit** (*int*) – optional - Number of result sets returned Default:100 Max:1000 - 100
- **recvWindow** (*int*) – optional

options_query_pending_orders (***params*)
Query current pending Option orders (TRADE)

https://binance-docs.github.io/apidocs/voptions/en/#query-current-pending-option-orders-trade

Parameters

- **symbol** (*str*) – required - Option trading pair - BTC-200730-9000-C
- **orderId** (*str*) – optional - Returns the orderId and subsequent orders, the most recent order is returned by default - 100000
- **startTime** (*int*) – optional - Start Time - 1593511200000

- **endTime** (*int*) – optional - End Time - 1593511200000
- **limit** (*int*) – optional - Number of result sets returned Default:100 Max:1000 - 100
- **recvWindow** (*int*) – optional

options_recent_trades (***params*)

Recently completed Option trades

https://binance-docs.github.io/apidocs/voptions/en/#recently-completed-option-trades

Parameters

- **symbol** (*str*) – required - Option trading pair - BTC-200730-9000-C
- **limit** (*int*) – optional - Number of records Default:100 Max:500 - 100

options_time ()

Get server time

https://binance-docs.github.io/apidocs/voptions/en/#get-server-time

options_user_trades (***params*)

Option Trade List (USER_DATA)

https://binance-docs.github.io/apidocs/voptions/en/#option-trade-list-user_data

Parameters

- **symbol** (*str*) – required - Option trading pair - BTC-200730-9000-C
- **fromId** – optional - Trade id to fetch from. Default gets most recent trades. - 4611875134427365376
- **startTime** (*int*) – optional - Start Time - 1593511200000
- **endTime** (*int*) – optional - End Time - 1593511200000
- **limit** (*int*) – optional - Number of result sets returned Default:100 Max:1000 - 100
- **recvWindow** (*int*) – optional

order_limit (*timeInForce='GTC'*, ***params*)

Send in a new limit order

Any order with an icebergQty MUST have timeInForce set to GTC.

Parameters

- **symbol** (*str*) – required
- **side** (*str*) – required
- **quantity** (*decimal*) – required
- **price** (*str*) – required
- **timeInForce** (*str*) – default Good till cancelled
- **newClientOrderId** (*str*) – A unique id for the order. Automatically generated if not sent.
- **icebergQty** (*decimal*) – Used with LIMIT, STOP_LOSS_LIMIT, and TAKE_PROFIT_LIMIT to create an iceberg order.

- **newOrderRespType** (*str*) – Set the response JSON. ACK, RESULT, or FULL; default: RESULT.
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response

See order endpoint for full response options

Raises BinanceRequestException, BinanceAPIException, BinanceOrderException, BinanceOrderMinAmountException, BinanceOrderMinPriceException, BinanceOrderMinTotalException, BinanceOrderUnknownSymbolException, BinanceOrderInactiveSymbolException

order_limit_buy(*timeInForce='GTC'*, ***params*)
Send in a new limit buy order

Any order with an icebergQty MUST have timeInForce set to GTC.

Parameters

- **symbol** (*str*) – required
- **quantity** (*decimal*) – required
- **price** (*str*) – required
- **timeInForce** (*str*) – default Good till cancelled
- **newClientOrderId** (*str*) – A unique id for the order. Automatically generated if not sent.
- **stopPrice** (*decimal*) – Used with stop orders
- **icebergQty** (*decimal*) – Used with iceberg orders
- **newOrderRespType** (*str*) – Set the response JSON. ACK, RESULT, or FULL; default: RESULT.
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response

See order endpoint for full response options

Raises BinanceRequestException, BinanceAPIException, BinanceOrderException, BinanceOrderMinAmountException, BinanceOrderMinPriceException, BinanceOrderMinTotalException, BinanceOrderUnknownSymbolException, BinanceOrderInactiveSymbolException

order_limit_sell(*timeInForce='GTC'*, ***params*)
Send in a new limit sell order

Parameters

- **symbol** (*str*) – required
- **quantity** (*decimal*) – required
- **price** (*str*) – required
- **timeInForce** (*str*) – default Good till cancelled
- **newClientOrderId** (*str*) – A unique id for the order. Automatically generated if not sent.
- **stopPrice** (*decimal*) – Used with stop orders

- **icebergQty** (*decimal*) – Used with iceberg orders
- **newOrderRespType** (*str*) – Set the response JSON. ACK, RESULT, or FULL; default: RESULT.
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response

See order endpoint for full response options

Raises BinanceRequestException, BinanceAPIException, BinanceOrderException, BinanceOrderMinAmountException, BinanceOrderMinPriceException, BinanceOrderMinTotalException, BinanceOrderUnknownSymbolException, BinanceOrderInactiveSymbolException

order_market(***params*)

Send in a new market order

Parameters

- **symbol** (*str*) – required
- **side** (*str*) – required
- **quantity** (*decimal*) – required
- **quoteOrderQty** (*decimal*) – amount the user wants to spend (when buying) or receive (when selling) of the quote asset
- **newClientOrderId** (*str*) – A unique id for the order. Automatically generated if not sent.
- **newOrderRespType** (*str*) – Set the response JSON. ACK, RESULT, or FULL; default: RESULT.
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response

See order endpoint for full response options

Raises BinanceRequestException, BinanceAPIException, BinanceOrderException, BinanceOrderMinAmountException, BinanceOrderMinPriceException, BinanceOrderMinTotalException, BinanceOrderUnknownSymbolException, BinanceOrderInactiveSymbolException

order_market_buy(***params*)

Send in a new market buy order

Parameters

- **symbol** (*str*) – required
- **quantity** (*decimal*) – required
- **quoteOrderQty** (*decimal*) – the amount the user wants to spend of the quote asset
- **newClientOrderId** (*str*) – A unique id for the order. Automatically generated if not sent.
- **newOrderRespType** (*str*) – Set the response JSON. ACK, RESULT, or FULL; default: RESULT.
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response

See order endpoint for full response options

Raises BinanceRequestException, BinanceAPIException, BinanceOrderException, BinanceOrderMinAmountException, BinanceOrderMinPriceException, BinanceOrderMinTotalException, BinanceOrderUnknownSymbolException, BinanceOrderInactiveSymbolException

order_market_sell(***params*)

Send in a new market sell order

Parameters

- **symbol** (*str*) – required
- **quantity** (*decimal*) – required
- **quoteOrderQty** (*decimal*) – the amount the user wants to receive of the quote asset
- **newClientOrderId** (*str*) – A unique id for the order. Automatically generated if not sent.
- **newOrderRespType** (*str*) – Set the response JSON. ACK, RESULT, or FULL; default: RESULT.
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response

See order endpoint for full response options

Raises BinanceRequestException, BinanceAPIException, BinanceOrderException, BinanceOrderMinAmountException, BinanceOrderMinPriceException, BinanceOrderMinTotalException, BinanceOrderUnknownSymbolException, BinanceOrderInactiveSymbolException

order_oco_buy(***params*)

Send in a new OCO buy order

Parameters

- **symbol** (*str*) – required
- **listClientOrderId** (*str*) – A unique id for the list order. Automatically generated if not sent.
- **quantity** (*decimal*) – required
- **limitClientOrderId** (*str*) – A unique id for the limit order. Automatically generated if not sent.
- **price** (*str*) – required
- **limitIcebergQty** (*decimal*) – Used to make the LIMIT_MAKER leg an iceberg order.
- **stopClientOrderId** (*str*) – A unique id for the stop order. Automatically generated if not sent.
- **stopPrice** (*str*) – required
- **stopLimitPrice** (*str*) – If provided, stopLimitTimeInForce is required.

- **stopIcebergQty** (*decimal*) – Used with STOP_LOSS_LIMIT leg to make an iceberg order.
- **stopLimitTimeInForce** (*str*) – Valid values are GTC/FOK/IOC.
- **newOrderRespType** (*str*) – Set the response JSON. ACK, RESULT, or FULL; default: RESULT.
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response

See OCO order endpoint for full response options

Raises BinanceRequestException, BinanceAPIException, BinanceOrderException, BinanceOrderMinAmountException, BinanceOrderMinPriceException, BinanceOrderMinTotalException, BinanceOrderUnknownSymbolException, BinanceOrderInactiveSymbolException

order_oco_sell(***params*)
Send in a new OCO sell order

Parameters

- **symbol** (*str*) – required
- **listClientOrderId** (*str*) – A unique id for the list order. Automatically generated if not sent.
- **quantity** (*decimal*) – required
- **limitClientOrderId** (*str*) – A unique id for the limit order. Automatically generated if not sent.
- **price** (*str*) – required
- **limitIcebergQty** (*decimal*) – Used to make the LIMIT_MAKER leg an iceberg order.
- **stopClientOrderId** (*str*) – A unique id for the stop order. Automatically generated if not sent.
- **stopPrice** (*str*) – required
- **stopLimitPrice** (*str*) – If provided, stopLimitTimeInForce is required.
- **stopIcebergQty** (*decimal*) – Used with STOP_LOSS_LIMIT leg to make an iceberg order.
- **stopLimitTimeInForce** (*str*) – Valid values are GTC/FOK/IOC.
- **newOrderRespType** (*str*) – Set the response JSON. ACK, RESULT, or FULL; default: RESULT.
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response

See OCO order endpoint for full response options

Raises BinanceRequestException, BinanceAPIException, BinanceOrderException, BinanceOrderMinAmountException, BinanceOrderMinPriceException, BinanceOrderMinTotalException, BinanceOrderUnknownSymbolException, BinanceOrderInactiveSymbolException

ping()
Test connectivity to the Rest API.

https://github.com/binance/binance-spot-api-docs/blob/master/rest-api.md#test-connectivity

Returns Empty array

```
{}
```

Raises BinanceRequestException, BinanceAPIException

purchase_lending_product(***params*)
Purchase Flexible Product

https://binance-docs.github.io/apidocs/spot/en/#purchase-flexible-product-user_data

query_subaccount_spot_summary(***params*)
Query Sub-account Spot Assets Summary (For Master Account)

https://binance-docs.github.io/apidocs/spot/en/#query-sub-account-spot-assets-summary-for-master-account

Parameters

- **email** (*str*) – optional - Sub account email
- **page** (*int*) – optional - default 1
- **size** (*int*) – optional - default 10, max 20
- **recvWindow** (*int*) – optional

Returns API response

```
{
    "totalCount":2,
    "masterAccountTotalAsset": "0.23231201",
    "spotSubUserAssetBtcVoList":[
        {
            "email":"sub123@test.com",
            "totalAsset":"9999.00000000"
        },
        {
            "email":"test456@test.com",
            "totalAsset":"0.00000000"
        }
    ]
}
```

Raises BinanceRequestException, BinanceAPIException

query_universal_transfer_history(***params*)
Query User Universal Transfer History

https://binance-docs.github.io/apidocs/spot/en/#query-user-universal-transfer-history

Parameters

- **type** (*str (ENUM)*) – required
- **startTime** (*int*) – optional
- **endTime** (*int*) – optional

- **current** (*int*) – optional - Default 1
- **size** (*int*) – required - Default 10, Max 100
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

```
transfer_status = client.query_universal_transfer_history(params)
```

Returns API response


```
{
    "total":2,
    "rows":[
        {
            "asset":"USDT",
            "amount":"1",
            "type":"MAIN_UMFUTURE"
            "status": "CONFIRMED",
            "tranId": 11415955596,
            "timestamp":1544433328000
        },
        {
            "asset":"USDT",
            "amount":"2",
            "type":"MAIN_UMFUTURE",
            "status": "CONFIRMED",
            "tranId": 11366865406,
            "timestamp":1544433328000
        }
    ]
}
```


Raises BinanceRequestException, BinanceAPIException

redeem_lending_product (***params*)
Redeem Flexible Product

https://binance-docs.github.io/apidocs/spot/en/#redeem-flexible-product-user_data

repay_margin_loan (***params*)
Repay loan in cross-margin or isolated-margin account.

If amount is more than the amount borrowed, the full loan will be repaid.

https://binance-docs.github.io/apidocs/spot/en/#margin-account-repay-margin

Parameters

- **asset** (*str*) – name of the asset
- **amount** (*str*) – amount to transfer
- **isIsolated** (*str*) – set to 'TRUE' for isolated margin (default 'FALSE')
- **symbol** (*str*) – Isolated margin symbol (default blank for cross-margin)
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

```
transaction = client.margin_repay_loan(asset='BTC', amount='1.1')

transaction = client.margin_repay_loan(asset='BTC', amount='1.1',
                                        isIsolated='TRUE', symbol='ETHBTC')
```

Returns API response

```
{
    "tranId": 100000001
}
```

Raises BinanceRequestException, BinanceAPIException

stream_close (*listenKey*)
Close out a user data stream.

https://github.com/binance/binance-spot-api-docs/blob/master/rest-api.md#close-user-data-stream-user_stream

Parameters **listenKey** (*str*) – required

Returns API response

```
{}
```

Raises BinanceRequestException, BinanceAPIException

stream_get_listen_key ()
Start a new user data stream and return the listen key If a stream already exists it should return the same key. If the stream becomes invalid a new key is returned.

Can be used to keep the user stream alive.

https://github.com/binance/binance-spot-api-docs/blob/master/rest-api.md#start-user-data-stream-user_stream

Returns API response

```
{
    "listenKey":
↪"pqia91ma19a5s61cv6a81va65sdf19v8a65a1a5s61cv6a81va65sdf19v8a65a1"
}
```

Raises BinanceRequestException, BinanceAPIException

stream_keepalive (*listenKey*)
PING a user data stream to prevent a time out.

https://github.com/binance/binance-spot-api-docs/blob/master/rest-api.md#keepalive-user-data-stream-user_stream

Parameters **listenKey** (*str*) – required

Returns API response

```
{}
```

Raises BinanceRequestException, BinanceAPIException

toggle_bnb_burn_spot_margin(***params*)

Toggle BNB Burn On Spot Trade And Margin Interest

https://binance-docs.github.io/apidocs/spot/en/#toggle-bnb-burn-on-spot-trade-and-margin-interest-user_data

Parameters

- **spotBNBBurn** (*bool*) – Determines whether to use BNB to pay for trading fees on SPOT
- **interestBNBBurn** (*bool*) – Determines whether to use BNB to pay for margin loan's interest

```
response = client.toggle_bnb_burn_spot_margin()
```

Returns API response

```
{
   "spotBNBBurn":true,
   "interestBNBBurn": false
}
```

Raises BinanceRequestException, BinanceAPIException

transfer_dust(***params*)

Convert dust assets to BNB.

https://binance-docs.github.io/apidocs/spot/en/#dust-transfer-user_data

Parameters

- **asset** (*str*) – The asset being converted. e.g: 'ONE'
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

```
result = client.transfer_dust(asset='ONE')
```

Returns API response

```
{
    "totalServiceCharge":"0.02102542",
    "totalTransfered":"1.05127099",
    "transferResult":[
        {
            "amount":"0.03000000",
            "fromAsset":"ETH",
            "operateTime":1563368549307,
            "serviceChargeAmount":"0.00500000",
            "tranId":2970932918,
            "transferedAmount":"0.25000000"
        }
    ]
}
```

Raises BinanceRequestException, BinanceAPIException

transfer_history(****params**)
Get future account transaction history list

https://binance-docs.github.io/apidocs/futures/en/#get-future-account-transaction-history-list-user_data

transfer_isolated_margin_to_spot(****params**)
Execute transfer between isolated margin account and spot account.

https://binance-docs.github.io/apidocs/spot/en/#isolated-margin-account-transfer-margin

Parameters

- **asset** (*str*) – name of the asset
- **symbol** (*str*) – pair symbol
- **amount** (*str*) – amount to transfer
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

```
transfer = client.transfer_isolated_margin_to_spot(asset='BTC',
                                                    symbol='ETHBTC', amount=
↪'1.1')
```

Returns API response

```
{
    "tranId": 100000001
}
```

Raises BinanceRequestException, BinanceAPIException

transfer_margin_to_spot(****params**)
Execute transfer between cross-margin account and spot account.

https://binance-docs.github.io/apidocs/spot/en/#cross-margin-account-transfer-margin

Parameters

- **asset** (*str*) – name of the asset
- **amount** (*str*) – amount to transfer
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

```
transfer = client.transfer_margin_to_spot(asset='BTC', amount='1.1')
```

Returns API response

```
{
    "tranId": 100000001
}
```

Raises BinanceRequestException, BinanceAPIException

transfer_spot_to_isolated_margin(***params*)

Execute transfer between spot account and isolated margin account.

https://binance-docs.github.io/apidocs/spot/en/#isolated-margin-account-transfer-margin

Parameters

- **asset** (*str*) – name of the asset
- **symbol** (*str*) – pair symbol
- **amount** (*str*) – amount to transfer
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

```
transfer = client.transfer_spot_to_isolated_margin(asset='BTC',
                                                    symbol='ETHBTC', amount=
↪'1.1')
```

Returns API response

```
{
    "tranId": 100000001
}
```

Raises BinanceRequestException, BinanceAPIException

transfer_spot_to_margin(***params*)

Execute transfer between spot account and cross-margin account.

https://binance-docs.github.io/apidocs/spot/en/#cross-margin-account-transfer-margin

Parameters

- **asset** (*str*) – name of the asset
- **amount** (*str*) – amount to transfer
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

```
transfer = client.transfer_spot_to_margin(asset='BTC', amount='1.1')
```

Returns API response

```
{
    "tranId": 100000001
}
```

Raises BinanceRequestException, BinanceAPIException

universal_transfer(***params*)

Unviversal transfer api accross different binance account types

https://binance-docs.github.io/apidocs/spot/en/#user-universal-transfer

withdraw(***params*)

Submit a withdraw request.

https://www.binance.com/restapipub.html

Assumptions:

- You must have Withdraw permissions enabled on your API key
- You must have withdrawn to the address specified through the website and approved the transaction via email

Parameters

- **asset** (*str*) – required
- **amount** (*decimal*) – required
- **name** (*str*) – optional - Description of the address, default asset value passed will be used
- **recvWindow** (*int*) – the number of milliseconds the request is valid for

Returns API response

```
{
    "msg": "success",
    "success": true,
    "id":"7213fea8e94b4a5593d507237e5a555b"
}
```

Raises BinanceRequestException, BinanceAPIException, BinanceWithdrawException

depthcache module

class binance.depthcache.**BaseDepthCacheManager**(*client*, *symbol*, *callback=None*, *refresh_interval=None*, *bm=None*, *limit=10*)

Bases: object

DEFAULT_REFRESH = 1800

__init__(*client*, *symbol*, *callback=None*, *refresh_interval=None*, *bm=None*, *limit=10*)

Initialise the DepthCacheManager

Parameters

- **client** (*binance.Client*) – Binance API client
- **symbol** (*string*) – Symbol to create depth cache for
- **callback** (*function*) – Optional function to receive depth cache updates
- **refresh_interval** (*int*) – Optional number of seconds between cache refresh, use 0 or None to disable
- **limit** (*int*) – Optional number of orders to get from orderbook

close(*close_socket=False*)

Close the open socket for this manager

Returns

get_depth_cache()

Get the current depth cache

Returns DepthCache object

get_symbol()
Get the symbol

Returns symbol

class binance.depthcache.**DepthCache**(*symbol*)
Bases: object

__init__(*symbol*)
Initialise the DepthCache

Parameters **symbol** (*string*) – Symbol to create depth cache for

add_ask(*ask*)
Add an ask to the cache

Parameters **ask** –

Returns

add_bid(*bid*)
Add a bid to the cache

Parameters **bid** –

Returns

get_asks()
Get the current asks

Returns list of asks with price and quantity as floats

```
[
    [
        0.0001955,  # Price
        57.0'       # Quantity
    ],
    [
        0.00019699,
        778.0
    ],
    [
        0.000197,
        64.0
    ],
    [
        0.00019709,
        1130.0
    ],
    [
        0.0001971,
        385.0
    ]
]
```

get_bids()
Get the current bids

Returns list of bids with price and quantity as floats

```
[
    [
```

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```
        0.0001946,    # Price
        45.0          # Quantity
    ],
    [
        0.00019459,
        2384.0
    ],
    [
        0.00019158,
        5219.0
    ],
    [
        0.00019157,
        1180.0
    ],
    [
        0.00019082,
        287.0
    ]
]
```

static sort_depth(*vals*, *reverse=False*)
Sort bids or asks by price

class binance.depthcache.**DepthCacheManager**(*client*, *symbol*, *callback=None*, *refresh_interval=None*, *bm=None*, *limit=500*, *ws_interval=None*)
Bases: *binance.depthcache.BaseDepthCacheManager*

__init__(*client*, *symbol*, *callback=None*, *refresh_interval=None*, *bm=None*, *limit=500*, *ws_interval=None*)
Initialise the DepthCacheManager

Parameters

- **client** (*binance.Client*) – Binance API client
- **symbol** (*string*) – Symbol to create depth cache for
- **callback** (*function*) – Optional function to receive depth cache updates
- **refresh_interval** (*int*) – Optional number of seconds between cache refresh, use 0 or None to disable
- **limit** (*int*) – Optional number of orders to get from orderbook
- **ws_interval** (*int*) – Optional interval for updates on websocket, default None. If not set, updates happen every second. Must be 0, None (1s) or 100 (100ms).

class binance.depthcache.**OptionsDepthCacheManager**(*client*, *symbol*, *callback=None*, *refresh_interval=None*, *bm=None*, *limit=10*)
Bases: *binance.depthcache.BaseDepthCacheManager*

exceptions module

exception binance.exceptions.**BinanceAPIException**(*response*)
Bases: exceptions.Exception

__init__(*response*)
x.__init__(...) initializes x; see help(type(x)) for signature

exception binance.exceptions.**BinanceOrderException**(*code*, *message*)
Bases: exceptions.Exception

__init__(*code*, *message*)
x.__init__(...) initializes x; see help(type(x)) for signature

exception binance.exceptions.**BinanceOrderInactiveSymbolException**(*value*)
Bases: *binance.exceptions.BinanceOrderException*

__init__(*value*)
x.__init__(...) initializes x; see help(type(x)) for signature

exception binance.exceptions.**BinanceOrderMinAmountException**(*value*)
Bases: *binance.exceptions.BinanceOrderException*

__init__(*value*)
x.__init__(...) initializes x; see help(type(x)) for signature

exception binance.exceptions.**BinanceOrderMinPriceException**(*value*)
Bases: *binance.exceptions.BinanceOrderException*

__init__(*value*)
x.__init__(...) initializes x; see help(type(x)) for signature

exception binance.exceptions.**BinanceOrderMinTotalException**(*value*)
Bases: *binance.exceptions.BinanceOrderException*

__init__(*value*)
x.__init__(...) initializes x; see help(type(x)) for signature

exception binance.exceptions.**BinanceOrderUnknownSymbolException**(*value*)
Bases: *binance.exceptions.BinanceOrderException*

__init__(*value*)
x.__init__(...) initializes x; see help(type(x)) for signature

exception binance.exceptions.**BinanceRequestException**(*message*)
Bases: exceptions.Exception

__init__(*message*)
x.__init__(...) initializes x; see help(type(x)) for signature

exception binance.exceptions.**BinanceWithdrawException**(*message*)
Bases: exceptions.Exception

__init__(*message*)
x.__init__(...) initializes x; see help(type(x)) for signature

helpers module

binance.helpers.**date_to_milliseconds**(*date_str*)
Convert UTC date to milliseconds

If using offset strings add "UTC" to date string e.g. "now UTC", "11 hours ago UTC"

See dateparse docs for formats http://dateparser.readthedocs.io/en/latest/

Parameters **date_str** (*str*) – date in readable format, i.e. "January 01, 2018", "11 hours ago UTC", "now UTC"

binance.helpers.**interval_to_milliseconds**(*interval*)
Convert a Binance interval string to milliseconds

Parameters interval (*str*) – Binance interval string, e.g.: 1m, 3m, 5m, 15m, 30m, 1h, 2h, 4h, 6h, 8h, 12h, 1d, 3d, 1w

Returns int value of interval in milliseconds None if interval prefix is not a decimal integer None if interval suffix is not one of m, h, d, w

websockets module

class binance.websockets.**BinanceClientFactory**(**args*, ***kwargs*)
Bases: autobahn.twisted.websocket.WebSocketClientFactory, *binance.websockets.BinanceReconnectingClientFactory*

clientConnectionFailed(*connector*, *reason*)
Called when a connection has failed to connect.

It may be useful to call connector.connect() - this will reconnect.

@type reason: L{twisted.python.failure.Failure}

clientConnectionLost(*connector*, *reason*)
Called when an established connection is lost.

It may be useful to call connector.connect() - this will reconnect.

@type reason: L{twisted.python.failure.Failure}

protocol
alias of *BinanceClientProtocol*

class binance.websockets.**BinanceClientProtocol**
Bases: autobahn.twisted.websocket.WebSocketClientProtocol

__init__()
x.__init__(...) initializes x; see help(type(x)) for signature

onConnect(*response*)
Callback fired directly after WebSocket opening handshake when new WebSocket server connection was established.

Parameters response (instance of autobahn.websocket.protocol.ConnectionResponse) – WebSocket connection response information.

onMessage(*payload*, *isBinary*)
Implements autobahn.websocket.interfaces.IWebSocketChannel.onMessage()

class binance.websockets.**BinanceReconnectingClientFactory**
Bases: twisted.internet.protocol.ReconnectingClientFactory

initialDelay = 0.1

maxDelay = 10

maxRetries = 5

class binance.websockets.**BinanceSocketManager**(*client*, *user_timeout=1800*)
Bases: threading.Thread

DEFAULT_USER_TIMEOUT = 1800

FSTREAM_URL = 'wss://fstream.binance.com/'

STREAM_URL = 'wss://stream.binance.com:9443/'

VSTREAM_TESTNET_URL = 'wss://testnetws.binanceops.com/'

VSTREAM_URL = 'wss://vstream.binance.com/'

WEBSOCKET_DEPTH_10 = '10'

WEBSOCKET_DEPTH_20 = '20'

WEBSOCKET_DEPTH_5 = '5'

__init__(*client*, *user_timeout=1800*)
Initialise the BinanceSocketManager

Parameters

- **client** (*binance.Client*) – Binance API client
- **user_timeout** (*int*) – Custom websocket timeout

close()
Close all connections

run()
Method representing the thread's activity.

You may override this method in a subclass. The standard run() method invokes the callable object passed to the object's constructor as the target argument, if any, with sequential and keyword arguments taken from the args and kwargs arguments, respectively.

start_aggtrade_futures_socket(*symbol*, *callback*)
Start a websocket for aggregate symbol trade data for the futures stream

Parameters

- **symbol** (*str*) – required
- **callback** (*function*) – callback function to handle messages

Returns connection key string if successful, False otherwise

Message Format

```
{
    "e": "aggTrade",  // Event type
    "E": 123456789,   // Event time
    "s": "BTCUSDT",    // Symbol
    "a": 5933014,     // Aggregate trade ID
    "p": "0.001",     // Price
    "q": "100",       // Quantity
    "f": 100,         // First trade ID
    "l": 105,         // Last trade ID
    "T": 123456785,   // Trade time
    "m": true,        // Is the buyer the market maker?
}
```

start_aggtrade_socket(*symbol*, *callback*)
Start a websocket for symbol trade data

https://github.com/binance-exchange/binance-official-api-docs/blob/master/web-socket-streams.md#aggregate-trade-streams

Parameters

- **symbol** (*str*) – required
- **callback** (*function*) – callback function to handle messages

Returns connection key string if successful, False otherwise

Message Format

```
{
    "e": "aggTrade",                # event type
    "E": 1499405254326,             # event time
    "s": "ETHBTC",                  # symbol
    "a": 70232,                             # aggregated tradeid
    "p": "0.10281118",              # price
    "q": "8.15632997",              # quantity
    "f": 77489,                             # first breakdown trade id
    "l": 77489,                             # last breakdown trade id
    "T": 1499405254324,             # trade time
    "m": false,                             # whether buyer is a maker
    "M": true                               # can be ignored
}
```

start_all_mark_price_socket(*callback*, *fast=True*)

Start a websocket for all futures mark price data By default all symbols are included in an array. https://binance-docs.github.io/apidocs/futures/en/#mark-price-stream-for-all-market :param callback: callback function to handle messages :type callback: function :returns: connection key string if successful, False otherwise Message Format .. code-block:: python

[

{ "e": "markPriceUpdate", // Event type "E": 1562305380000, // Event time "s": "BTCUSDT", // Symbol "p": "11185.87786614", // Mark price "r": "0.00030000", // Funding rate "T": 1562306400000 // Next funding time

}

]

start_all_ticker_futures_socket(*callback*)

Start a websocket for all ticker data By default all markets are included in an array. https://binance-docs.github.io/apidocs/futures/en/#all-book-tickers-stream :param callback: callback function to handle messages :type callback: function :returns: connection key string if successful, False otherwise Message Format .. code-block:: python

[

{ "u":400900217, // order book updateId "s":"BNBUSDT", // symbol "b":"25.35190000", // best bid price "B":"31.21000000", // best bid qty "a":"25.36520000", // best ask price "A":"40.66000000" // best ask qty

}

]

start_book_ticker_socket(*callback*)

Start a websocket for the best bid or ask's price or quantity for all symbols.

https://github.com/binance-exchange/binance-official-api-docs/blob/master/web-socket-streams.md#all-book-tickers-stream

Parameters **callback** (*function*) – callback function to handle messages

Returns connection key string if successful, False otherwise

Message Format

```
{
    // Same as <symbol>@bookTicker payload
}
```

start_depth_socket (*symbol*, *callback*, *depth=None*, *interval=None*)
Start a websocket for symbol market depth returning either a diff or a partial book

https://github.com/binance-exchange/binance-official-api-docs/blob/master/web-socket-streams.md#partial-book-depth-streams

Parameters

- **symbol** (*str*) – required
- **callback** (*function*) – callback function to handle messages
- **depth** (*str*) – optional Number of depth entries to return, default None. If passed returns a partial book instead of a diff
- **interval** (*int*) – optional interval for updates, default None. If not set, updates happen every second. Must be 0, None (1s) or 100 (100ms)

Returns connection key string if successful, False otherwise

Partial Message Format

```
{
    "lastUpdateId": 160,  # Last update ID
    "bids": [             # Bids to be updated
        [
            "0.0024",     # price level to be updated
            "10",         # quantity
            []            # ignore
        ]
    ],
    "asks": [             # Asks to be updated
        [
            "0.0026",     # price level to be updated
            "100",        # quantity
            []            # ignore
        ]
    ]
}
```

Diff Message Format

```
{
    "e": "depthUpdate", # Event type
    "E": 123456789,     # Event time
    "s": "BNBBTC",      # Symbol
    "U": 157,           # First update ID in event
    "u": 160,           # Final update ID in event
    "b": [              # Bids to be updated
        [
            "0.0024",   # price level to be updated
            "10",       # quantity
            []          # ignore
        ]
    ],
    "a": [              # Asks to be updated
```

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```
            [
                "0.0026",    # price level to be updated
                "100",       # quantity
                []           # ignore
            ]
        ]
}
```

start_individual_symbol_ticker_futures_socket (*symbol, callback*)

Start a futures websocket for a single symbol's ticker data https://binance-docs.github.io/apidocs/futures/en/#individual-symbol-ticker-streams :param symbol: required :type symbol: str :param callback: callback function to handle messages :type callback: function :returns: connection key string if successful, False otherwise .. code-block:: python

{ "e": "24hrTicker", // Event type "E": 123456789, // Event time "s": "BTCUSDT", // Symbol "p": "0.0015", // Price change

}

start_isolated_margin_socket (*symbol, callback*)

Start a websocket for isolated margin data

https://binance-docs.github.io/apidocs/spot/en/#listen-key-isolated-margin

Parameters

- **symbol** (*str*) – required - symbol for the isolated margin account
- **callback** (*function*) – callback function to handle messages

Returns connection key string if successful, False otherwise

Message Format - see Binance API docs for all types

start_kline_socket (*symbol, callback, interval='1m'*)

Start a websocket for symbol kline data

https://github.com/binance-exchange/binance-official-api-docs/blob/master/web-socket-streams.md#klinecandlestick-streams

Parameters

- **symbol** (*str*) – required
- **callback** (*function*) – callback function to handle messages
- **interval** (*str*) – Kline interval, default KLINE_INTERVAL_1MINUTE

Returns connection key string if successful, False otherwise

Message Format

```
{
    "e": "kline",                                       # event type
    "E": 1499404907056,                                 # event time
    "s": "ETHBTC",                                      # symbol
    "k": {
        "t": 1499404860000,                     # start time of this bar
        "T": 1499404919999,                     # end time of this bar
        "s": "ETHBTC",                                  # symbol
        "i": "1m",                                      # interval
        "f": 77462,                                     # first trade id
```

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```
        "L": 77465,                              # last trade id
        "o": "0.10278577",                # open
        "c": "0.10278645",                # close
        "h": "0.10278712",                # high
        "l": "0.10278518",                # low
        "v": "17.47929838",               # volume
        "n": 4,                                          # number of␣
↪trades
        "x": false,                              # whether this bar is␣
↪final
        "q": "1.79662878",                # quote volume
        "V": "2.34879839",                # volume of active buy
        "Q": "0.24142166",                # quote volume of active buy
        "B": "13279784.01349473"     # can be ignored
        }
}
```

start_margin_socket (*callback*)
Start a websocket for cross-margin data

https://binance-docs.github.io/apidocs/spot/en/#listen-key-margin

Parameters **callback** (*function*) – callback function to handle messages

Returns connection key string if successful, False otherwise

Message Format - see Binance API docs for all types

start_miniticker_socket (*callback*, *update_time=1000*)
Start a miniticker websocket for all trades

This is not in the official Binance api docs, but this is what feeds the right column on a ticker page on Binance.

Parameters

- **callback** (*function*) – callback function to handle messages
- **update_time** (*int*) – time between callbacks in milliseconds, must be 1000 or greater

Returns connection key string if successful, False otherwise

Message Format

```
[
    {
        'e': '24hrMiniTicker',   # Event type
        'E': 1515906156273,      # Event time
        's': 'QTUMETH',          # Symbol
        'c': '0.03836900',       # close
        'o': '0.03953500',       # open
        'h': '0.04400000',       # high
        'l': '0.03756000',       # low
        'v': '147435.80000000', # volume
        'q': '5903.84338533'     # quote volume
    }
]
```

start_multiplex_socket (*streams*, *callback*)
Start a multiplexed socket using a list of socket names. User stream sockets can not be included.

Symbols in socket name must be lowercase i.e bnbbtc@aggTrade, neobtc@ticker

Combined stream events are wrapped as follows: {“stream”:”<streamName>”,”data”:<rawPayload>}

https://github.com/binance-exchange/binance-official-api-docs/blob/master/web-socket-streams.md

Parameters

- **streams** (*list*) – list of stream names in lower case
- **callback** (*function*) – callback function to handle messages

Returns connection key string if successful, False otherwise

Message Format - see Binance API docs for all types

start_options_depth_socket (*symbol*, *callback*, *depth='10'*)
Subscribe to a depth data stream

https://binance-docs.github.io/apidocs/voptions/en/#market-streams-payload-depth

Parameters

- **symbol** (*str*) – required
- **callback** (*function*) – callback function to handle messages
- **depth** (*str*) – optional Number of depth entries to return, default 10.

start_options_kline_socket (*symbol*, *callback*, *interval='1m'*)
Subscribe to a candlestick data stream

https://binance-docs.github.io/apidocs/voptions/en/#market-streams-payload-candle

Parameters

- **symbol** (*str*) – required
- **callback** (*function*) – callback function to handle messages
- **interval** (*str*) – Kline interval, default KLINE_INTERVAL_1MINUTE

start_options_multiplex_socket (*streams*, *callback*)
Start a multiplexed socket using a list of socket names. User stream sockets can not be included.

Symbols in socket name must be lowercase i.e bnbbtc@aggTrade, neobtc@ticker

Combined stream events are wrapped as follows: {“stream”:”<streamName>”,”data”:<rawPayload>}

https://binance-docs.github.io/apidocs/voptions/en/#account-and-trading-interface

Parameters

- **streams** (*list*) – list of stream names in lower case
- **callback** (*function*) – callback function to handle messages

Returns connection key string if successful, False otherwise

Message Format - see Binance API docs for all types

start_options_recent_trades_socket (*symbol*, *callback*)
Subscribe to a latest completed trades stream

https://binance-docs.github.io/apidocs/voptions/en/#market-streams-payload-latest-completed-trades

Parameters

- **symbol** (*str*) – required

- **callback** (*function*) – callback function to handle messages

start_options_ticker_socket (*symbol*, *callback*)
Subscribe to a 24 hour ticker info stream

https://binance-docs.github.io/apidocs/voptions/en/#market-streams-payload-24-hour-ticker

Parameters

- **symbol** (*str*) – required
- **callback** (*function*) – callback function to handle messages

start_symbol_book_ticker_socket (*symbol*, *callback*)
Start a websocket for the best bid or ask's price or quantity for a specified symbol.

https://github.com/binance-exchange/binance-official-api-docs/blob/master/web-socket-streams.md#individual-symbol-book-ticker-streams

Parameters

- **symbol** (*str*) – required
- **callback** (*function*) – callback function to handle messages

Returns connection key string if successful, False otherwise

Message Format

```
{
    "u":400900217,      // order book updateId
    "s":"BNBUSDT",      // symbol
    "b":"25.35190000", // best bid price
    "B":"31.21000000", // best bid qty
    "a":"25.36520000", // best ask price
    "A":"40.66000000"  // best ask qty
}
```

start_symbol_mark_price_socket (*symbol*, *callback*, *fast=True*)
Start a websocket for a symbol's futures mark price https://binance-docs.github.io/apidocs/futures/en/#mark-price-stream :param symbol: required :type symbol: str :param callback: callback function to handle messages :type callback: function :returns: connection key string if successful, False otherwise Message Format .. code-block:: python

{ "e": "markPriceUpdate", // Event type "E": 1562305380000, // Event time "s": "BTCUSDT", // Symbol "p": "11185.87786614", // Mark price "r": "0.00030000", // Funding rate "T": 1562306400000 // Next funding time

}

start_symbol_ticker_futures_socket (*symbol*, *callback*)
Start a websocket for a symbol's ticker data By default all markets are included in an array. https://binance-docs.github.io/apidocs/futures/en/#individual-symbol-book-ticker-streams :param symbol: required :type symbol: str :param callback: callback function to handle messages :type callback: function :returns: connection key string if successful, False otherwise .. code-block:: python

[

{ "u":400900217, // order book updateId "s":"BNBUSDT", // symbol "b":"25.35190000", // best bid price "B":"31.21000000", // best bid qty "a":"25.36520000", // best ask price "A":"40.66000000" // best ask qty

}

]

start_symbol_ticker_socket (*symbol*, *callback*)

Start a websocket for a symbol's ticker data

https://github.com/binance-exchange/binance-official-api-docs/blob/master/web-socket-streams.md#individual-symbol-ticker-streams

Parameters

- **symbol** (*str*) – required
- **callback** (*function*) – callback function to handle messages

Returns connection key string if successful, False otherwise

Message Format

```
{
    "e": "24hrTicker",  # Event type
    "E": 123456789,     # Event time
    "s": "BNBBTC",      # Symbol
    "p": "0.0015",      # Price change
    "P": "250.00",      # Price change percent
    "w": "0.0018",      # Weighted average price
    "x": "0.0009",      # Previous day's close price
    "c": "0.0025",      # Current day's close price
    "Q": "10",          # Close trade's quantity
    "b": "0.0024",      # Best bid price
    "B": "10",          # Bid bid quantity
    "a": "0.0026",      # Best ask price
    "A": "100",         # Best ask quantity
    "o": "0.0010",      # Open price
    "h": "0.0025",      # High price
    "l": "0.0010",      # Low price
    "v": "10000",       # Total traded base asset volume
    "q": "18",          # Total traded quote asset volume
    "O": 0,             # Statistics open time
    "C": 86400000,      # Statistics close time
    "F": 0,             # First trade ID
    "L": 18150,         # Last trade Id
    "n": 18151          # Total number of trades
}
```

start_ticker_socket (*callback*)

Start a websocket for all ticker data

By default all markets are included in an array.

https://github.com/binance-exchange/binance-official-api-docs/blob/master/web-socket-streams.md#all-market-tickers-stream

Parameters **callback** (*function*) – callback function to handle messages

Returns connection key string if successful, False otherwise

Message Format

```
[
    {
        'F': 278610,
        'o': '0.07393000',
```

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```
        's': 'BCCBTC',
        'C': 1509622420916,
        'b': '0.07800800',
        'l': '0.07160300',
        'h': '0.08199900',
        'L': 287722,
        'P': '6.694',
        'Q': '0.10000000',
        'q': '1202.67106335',
        'p': '0.00494900',
        'O': 1509536020916,
        'a': '0.07887800',
        'n': 9113,
        'B': '1.00000000',
        'c': '0.07887900',
        'x': '0.07399600',
        'w': '0.07639068',
        'A': '2.41900000',
        'v': '15743.68900000'
    }
]
```

start_trade_socket (*symbol*, *callback*)

Start a websocket for symbol trade data

https://github.com/binance-exchange/binance-official-api-docs/blob/master/web-socket-streams.md#trade-streams

Parameters

- **symbol** (*str*) – required
- **callback** (*function*) – callback function to handle messages

Returns connection key string if successful, False otherwise

Message Format

```
{
    "e": "trade",      # Event type
    "E": 123456789,    # Event time
    "s": "BNBBTC",     # Symbol
    "t": 12345,        # Trade ID
    "p": "0.001",      # Price
    "q": "100",        # Quantity
    "b": 88,           # Buyer order Id
    "a": 50,           # Seller order Id
    "T": 123456785,    # Trade time
    "m": true,         # Is the buyer the market maker?
    "M": true          # Ignore.
}
```

start_user_socket (*callback*)

Start a websocket for user data

https://github.com/binance-exchange/binance-official-api-docs/blob/master/user-data-stream.md https://binance-docs.github.io/apidocs/spot/en/#listen-key-spot

Parameters **callback** (*function*) – callback function to handle messages

Returns connection key string if successful, False otherwise

Message Format - see Binance API docs for all types

stop_socket (*conn_key*)
Stop a websocket given the connection key

Parameters **conn_key** (*string*) – Socket connection key

Returns connection key string if successful, False otherwise

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