**assets**

|  |  |
| --- | --- |
| Method | URL |
| GET | /api/v1/public/asset |
| GET | /api/v1/public/asset/{asset} |

Returns the actual list of available assets.

**Response:**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| asset\_name | string | Asset name, i.e: BTC, CTR, … |
| asset\_full\_name | string | Full asset name, i.e: Bitcoin, Centra |
| deposit\_flat\_fee | Float |  |
| withdraw\_flat\_fee | float |  |
| created\_at | Datetime |  |
| updated\_at | datetime |  |

**Products**

|  |  |
| --- | --- |
| Method | URL |
| GET | /api/v1/public/product |
| GET | /api/v1/public/product/{product} |

Returns the actual list of assets(asset pairs) traded on CentraNetwork exchange. The first listed currency of a symbol is called the base currency, and the second currency is called the quote currency. The currency pair indicates how much of the quote currency is needed to purchase one unit of the base currency.

**Response:**

|  |  |  |
| --- | --- | --- |
| **name** | **type** | **description** |
| base\_asset | string | asset name, i.e: btc, ctr, … |
| quote\_asset | string | asset name |
| tick\_size | float |  |
| take\_liquidity\_rate | float |  |
| provide\_liquidity\_rate | float |  |
| fee\_asset | string | base/quote |

**Tickers**

|  |  |
| --- | --- |
| Method | URL |
| GET | /api/v1/public/ticker |
| GET | /api/v1/public/ticker/{product} |

Return ticker information

**Response:**

|  |  |  |
| --- | --- | --- |
| **name** | **type** | **description** |
| ask | Number | Best ask price |
| bid | Number | Best bid price |
| last | Number | Last trade price |
| open | Number | Last trade price 24 hours ago |
| low | Number | Lowest trade price within 24 hours |
| high | Number | Highest trade price within 24 hours |
| volume | Number | Total trading amount within 24 hours in base asset |
| volumequote | Number | Total trading amount within 24 hours in quote asset |
| timestamp | Datetime |  |
| symbol | string |  |

Example return data:

[

BTC-LTC:{

ask:"0.016475"

bid:"0.016475"

high:"0.01649"

last:"0.01647"

low:"0.01647"

open:"0.01649"

product:"BTC-LTC"

timestamp:"2018-01-30 05:46:09.292485Z"

volume:"8"

volumeQuote:"0.13178"

}

…

]

**Trades**

|  |  |
| --- | --- |
| Method | URL |
| GET | /api/v1/public/trades/{product} |

Return ticker information

**Request param:**

|  |  |  |
| --- | --- | --- |
| **name** | **type** | **description** |
| sort | Number | Default DESC, [ASC, DESC] |
| from | Datetime |  |
| till | datetime |  |
| limit | Number |  |
| offset | Number |  |

**Response:**

|  |  |  |
| --- | --- | --- |
| **name** | **type** | **description** |
| id | String | Trade ID |
| price | Number | Trade price |
| quantity | Number | Trade quantity |
| side | String | Trade side [sell, buy] \*\*\* This value is maker’s side on orderbook. |
| time | datetime | Trade timestamp |

Example return data:

[

0:{

id:"5a6ffa4db65fd925140020ba"

price:"0.016475"

quantity:"2"

side:"buy"

time:"2018-01-30 05:46:09.292485Z"

}

…

]

**Orderbook**

|  |  |
| --- | --- |
| Method | URL |
| GET | /api/v1/public/orderbook/{product} |

Return orderbook information. An order book is an electronic list of buy and sell orders for a specific symbol, organized by price level.

**Request param:**

|  |  |  |
| --- | --- | --- |
| **name** | **type** | **description** |
| limit | Number | Limit of orderbook levels, default 100. Set null to view full orderbook levels |

**Response:**

|  |  |  |
| --- | --- | --- |
| **name** | **type** | **description** |
| asks | array | Ask side array of levels |
| bids | array | Bid side array of levels |

Example return data:

[

asks:[

[ price:"0.016475", quantity:"2", cumulative:"2"]

…

]

bids:[

[ price:"0.016475", quantity:"2", cumulative:"2"]

…

]

]

**Candles**

|  |  |
| --- | --- |
| Method | URL |
| GET | /api/v1/public/candles/{product} |

Return candles information as OHLC a specific product

**Request param:**

|  |  |  |
| --- | --- | --- |
| **name** | **type** | **description** |
| limit | Number | Limit of candles, default 100. |
| period | String | 1M, 5M, 15M, 30M, 1H, 8H, 1D,M1-1 month. Default M1 |

**Response:**

|  |  |  |
| --- | --- | --- |
| **name** | **type** | **description** |
| close | Number | Close price |
| open | Number | Open price |
| low | Number | Low price |
| high | Number | High price |
| volume | Number | Volume in base asset |
| volumequote | Number | Volume in quote asset |
| timestamp | Datetime |  |

**Socket API Reference**

Use JSON-RPC 2.0 over WebSocket connection as transport.

**Request object**

A rpc call is represented by sending a Request object to a Server.

The Request object has the following members:

* **method** - A String containing the name of the method to be invoked.
* **params** - A Structured value that holds the parameter values to be used during the invocation of the method.

**Notification**

A Notification is a Request object without an "id" member. A Request object that is a Notification signifies the Client's lack of interest in the corresponding Response object, and as such no Response object needs to be returned to the client.