

RIT Client REST API 1.0.3

[Base URL: localhost:10005/v1]

<https://rit.306w.ca/RIT-REST-API/1.0.3/swagger.yaml>

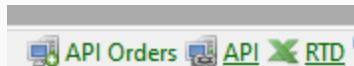
Overview

The Rotman Interactive Trader (RIT) allows users to query market data and submit trading instructions through a REST API, as well as through a Microsoft Excel VBA API. The REST API is further categorized into two approaches: the Client REST API and the DMA (Direct Market Access) REST API. While these two approaches use the same REST API type, they differ in the connection endpoints. The Client REST API connects to the RIT Client, whereas the DMA REST API connects directly to the RIT Instructor App (Server). This webpage aims to provide detailed information on the **Client REST API**. If you are looking for detailed information about Excel VBA API, please click [here](#). For the DMA REST API, please click [here](#).

The Client REST API is a simple interface for interacting with the Rotman Interactive Trader (RIT) Client. RIT Client must be running to access this API. Responses are always [JSON objects](#). Successful requests always return with HTTP code [200](#). Unsuccessful responses have HTTP error codes between [400](#) and [500](#). Most programming languages have ways to interact with this kind of API. Some resources:

- MATLAB [https://www.mathworks.com/help/mps/restful-api-and-json.html?
requestedDomain=www.mathworks.com](https://www.mathworks.com/help/mps/restful-api-and-json.html?requestedDomain=www.mathworks.com)
- C# <https://docs.microsoft.com/en-us/aspnet/web-api/overview/advanced/calling-a-web-api-from-a-.net-client>
- Python <https://realpython.com/blog/python/api-integration-in-python/>
- Node <https://www.npmjs.com/package/request>
- VBA <https://stackoverflow.com/questions/19553476/how-to-make-rest-call-with-vba-in-excel> along with <https://stackoverflow.com/questions/19360440/how-to-parse-json-with-vba-without-external-libraries>

Configuration



The [API](#) icon indicates whether an API access is enabled. If there are any issues with starting the API, the icon will be [red](#) and clicking on it will reveal the associated error message. If the API is turned off, the icon will be greyed out. This icon applies to both Excel VBA API and REST API. Similarly, the [API Orders](#) icon indicates whether orders can be submitted via API.

Users can click on this [API](#) icon in order to access more detailed information on interacting with the API.

API Info

VBA API
Documentation can be found [here](#) and requires the companion [Excel RTD Links](#) installation.

DMA REST API
Interactive documentation can be found [here](#).

Base URL:

Username:

Password:

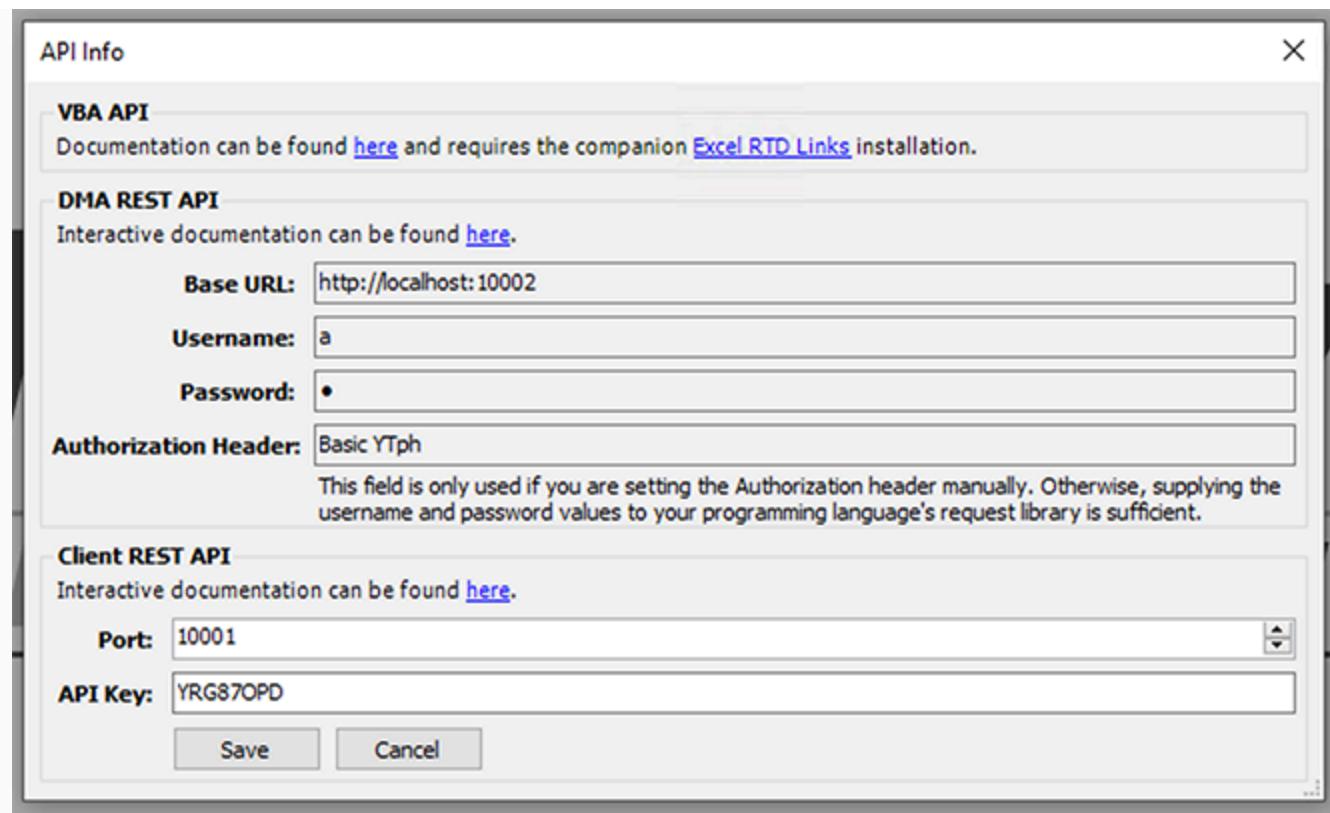
Authorization Header: Basic YTph
This field is only used if you are setting the Authorization header manually. Otherwise, supplying the username and password values to your programming language's request library is sufficient.

Client REST API
Interactive documentation can be found [here](#).

Port:

API Key:

Save **Cancel**



The REST API by default runs on port **9999** but that can be modified here. The API key (initially autogenerated) can also be changed here. The API will not be accessible without an API key configured. Clicking through the Authorize button below will initialize this page with the proper port and API key settings for a particular client instance and is the recommended way to start exploring this API.

Authentication

The API key can be found by clicking on the **API** icon in the status bar once logged in. This key must be included in every request to the RIT API, either through the **X-API-Key** header or through the **key** query parameter. Requests without a matching key will be rejected with HTTP code **401**.

Rate Limiting

Certain endpoints are rate-limited (indicated in the endpoint description). When a request is rejected due to rate-limiting, the response will have an HTTP error code of **429**. In addition, the response will have a **Retry-After** header and **wait** body parameter which indicates the number of seconds to wait before attempting the request again.

Note that in addition to the global rate limit on requests, securities may also have additional, more restrictive rate limits which apply to requests for those securities. The **Retry-After** / **wait** times in those cases correspond to the more restrictive rate limits. Requests for other securities with less restrictive rate limits may still be successful.

Generally, most of the default RIT cases will have a very 'loose' rate-limiting otherwise changed by instructors. Therefore, it is not expected that users will often experience this response from rate-limiting.

The Excel VBA API treats rate-limiting in a different way and instead queues any requests which exceed the rate limit (and executes them over time at the rate limit). If the Excel VBA API is used concurrently with this Client REST API, endpoints which are rate-limited will reject requests if there are any queued requests. It is NOT advised to run both APIs simultaneously.

Additional Notes

- Tickers are case-sensitive and should match what is displayed in the RIT Client.

Schemes

HTTP



Authorize



default ▾

GET

/case Gets information about the current case.



Gets information about the current case.

Parameters

Cancel

No parameters

Execute

Clear

Responses

Response content type

application/json



Curl

```
curl -X GET "http://localhost:10005/v1/case" -H "accept: application/json" -H "X-API-Key: HCYA2KPW"
```

Request URL

http://localhost:10005/v1/case

Server response

Code**Details**

200

Response body

```
{  
    "name": "Algo 1 Trading Case",  
    "period": 1,  
    "tick": 207,  
    "ticks_per_period": 300,  
    "total_periods": 1,  
    "status": "ACTIVE",  
    "is_enforce_trading_limits": true  
}
```

Response headers

```
content-length: 144  
content-type: application/json
```

Responses**Code****Description**

200

*OK***Example Value** | Model

```
{  
    "name": "string",  
    "period": 0,  
    "tick": 0,  
    "ticks_per_period": 0,  
    "total_periods": 0,  
    "status": "ACTIVE",  
    "is_enforce_trading_limits": true  
}
```

401

*Unauthorized.***Example Value** | Model

```
{  
    "code": "UNAUTHORIZED"  
}
```

GET

/trader Gets information about the currently signed in trader.



Gets information about the currently signed in trader.

Parameters

Cancel

No parameters

Execute

Clear

Responses

Response content type

application/json



Curl

```
curl -X GET "http://localhost:10005/v1/trader" -H "accept: application/json" -H "X-API-Key: HCYA2KPKW"
```

Request URL

```
http://localhost:10005/v1/trader
```

Server response

Code

Details

200

Response body

```
{
  "trader_id": "Maxim",
  "first_name": "Maxim",
  "last_name": "Ciobanu",
  "nlv": 0
}
```

Response headers

```
content-length: 74
content-type: application/json
```

Responses

Code

Description

200

OK

Example Value | Model

Code	Description
	<pre>{ "trader_id": "string", "first_name": "string", "last_name": "string", "nlv": 0 }</pre>
401	<i>Unauthorized.</i>

[Example Value](#) | [Model](#)

```
{
  "code": "UNAUTHORIZED"
}
```

GET /limits Trading limits for the current case. 

Trading limits for the current case.

Parameters Cancel

No parameters

Execute Clear

Responses Response content type application/json ▾

Curl

```
curl -X GET "http://localhost:10005/v1/limits" -H "accept: application/json" -H "X-API-Key: HCYA2KPKW"
```

Request URL

```
http://localhost:10005/v1/limits
```

Server response

Code**Details**

200

Response body

```
[  
  {  
    "name": "LIMIT-STOCK",  
    "gross": 0,  
    "net": 0,  
    "gross_limit": 25000,  
    "net_limit": 25000,  
    "gross_fine": 0,  
    "net_fine": 0  
  }  
]
```

Response headers

```
content-length: 116  
content-type: application/json
```

Responses**Code****Description**

200

*OK***Example Value** | Model

```
[  
  {  
    "name": "string",  
    "gross": 0,  
    "net": 0,  
    "gross_limit": 0,  
    "net_limit": 0,  
    "gross_fine": 0,  
    "net_fine": 0  
  }  
]
```

401

*Unauthorized.***Example Value** | Model

```
{  
  "code": "UNAUTHORIZED"  
}
```

GET

/news Gets the most recent news.



Gets the most recent news.

Parameters

[Cancel](#)

Name	Description
since	Retrieve only news items <i>after</i> a particular news id.
number (query)	since - Retrieve only news items * <i>after</i> * a particular ne
limit	Result set limit, counting backwards from the most recent news item. Defaults to 20.
number (query)	limit - Result set limit, counting backwards from the m

[Execute](#)

[Clear](#)

Responses

Response content type

application/json



Curl

```
curl -X GET "http://localhost:10005/v1/news" -H "accept: application/json" -H "X-API-Key: HCYA2KPW"
```

Request URL

<http://localhost:10005/v1/news>

Server response

Code	Details
200	<p>Response body</p> <pre>[{ "news_id": 1, "period": 1, "tick": 1, "ticker": "", "headline": "Welcome to the Algorithmic Trading 1 Case!", "body": "" }]</pre>

Code**Details**

}]

Response headerscontent-length: 113
content-type: application/json**Responses****Code****Description**

200

OK[Example Value](#) | [Model](#)[
 {
 "news_id": 0,
 "period": 0,
 "tick": 0,
 "ticker": "string",
 "headline": "string",
 "body": "string"
 }
]

401

Unauthorized.[Example Value](#) | [Model](#){
 "code": "UNAUTHORIZED"
 }**GET**

/assets Gets a list of available assets.



Gets a list of available assets.

Parameters[Cancel](#)

Name	Description
ticker string (query)	ticker

Execute **Clear**

Responses Response content type **application/json** ▾

Curl

```
curl -X GET "http://localhost:10005/v1/assets" -H "accept: application/json" -H "X-API-Key: HCYA2KPW"
```

Request URL

```
http://localhost:10005/v1/assets
```

Server response

Code	Details
200	<p>Response body</p> <pre>[]</pre> <p>Response headers</p> <pre>content-length: 2 content-type: application/json</pre>

Responses

Code	Description
200	<pre>OK</pre>

Example Value | Model

Code

Description

```
[  
  {  
    "ticker": "string",  
    "type": "CONTAINER",  
    "description": "string",  
    "total_quantity": 0,  
    "available_quantity": 0,  
    "lease_price": 0,  
    "convert_from": [  
      {  
        "ticker": "CL",  
        "quantity": 10  
      }  
    ],  
    "convert_to": [  
      {  
        "ticker": "CL",  
        "quantity": 10  
      }  
    ],  
    "containment": {  
      "ticker": "CL",  
      "quantity": 10  
    },  
    "ticks_per_conversion": 0,  
    "ticks_per_lease": 0,  
    "is_available": true,  
    "start_period": 0,  
    "stop_period": 0  
  }  
]
```

401

Unauthorized.

[Example Value](#) | [Model](#)

```
{  
  "code": "UNAUTHORIZED"  
}
```

GET

/assets/history Gets the activity log for assets.



Gets the activity log for assets.

Parameters

[Cancel](#)

Name	Description
------	-------------

ticker
string
(query)

CRZY_M

period
number
(query)

Period to retrieve data from. Defaults to the current period.

period - Period to retrieve data from. Defaults to the cu

limit
number
(query)

Result set limit, counting backwards from the most recent tick. Defaults to retrieving the entire period.

limit - Result set limit, counting backwards from the m

Execute

Clear

Responses

Response content type

application/json



Curl

```
curl -X GET "http://localhost:10005/v1/assets/history?ticker=CRZY_M" -H "accept: application/json" -H "X-API-Key: HCYA2KPW"
```

Request URL

http://localhost:10005/v1/assets/history?ticker=CRZY_M

Server response

Code	Details
------	---------

200

Response body

[]

Response headers

content-length: 2
content-type: application/json

Responses

Code**Description**

200

OK[Example Value](#) | [Model](#)

```
[  
  {  
    "ticker": "string",  
    "tick": 0,  
    "action": "string",  
    "cost": 0,  
    "convert_from": [  
      {  
        "ticker": "CL",  
        "quantity": 10  
      }  
    ],  
    "convert_to": [  
      {  
        "ticker": "CL",  
        "quantity": 10  
      }  
    ],  
    "convert_from_price": [  
      {  
        "ticker": "CL",  
        "quantity": 10  
      }  
    ],  
    "convert_to_price": [  
      {  
        "ticker": "CL",  
        "quantity": 10  
      }  
    ]  
  }]
```

401

Unauthorized.[Example Value](#) | [Model](#)

```
{  
  "code": "UNAUTHORIZED"  
}
```

GET

/securities Gets a list of available securities and associated positions.



Gets a list of available securities and associated positions.

Parameters

Cancel

Name	Description
------	-------------

ticker
string
(query)

ticker

Execute

Clear

Responses

Response content type

application/json



Curl

```
curl -X GET "http://localhost:10005/v1/securities" -H "accept: application/json" -H "X-API-Key: HCYA2KPW"
```

Request URL

http://localhost:10005/v1/securities

Server response

Code Details

200

Response body

```
[  
  {  
    "ticker": "CRZY_M",  
    "type": "STOCK",  
    "size": 1,  
    "position": 0,  
    "vwap": 0,  
    "nlv": 0,  
    "last": 7.9,  
    "bid": 7.9,  
    "bid_size": 73500,  
    "ask": 7.94,  
    "ask_size": 234600,  
    "volume": 20870300,  
    "unrealized": 0,  
    "realized": 0,  
    "currency": ""},
```

Code

Details

```
"total_volume": 20870300,
"limits": [
    {
        "name": "LIMIT-STOCK",
        "units": 1
    }
],
"interest_rate": 0,
"is_tradeable": true,
"is_shortable": true,
"start_period": 1,
"stop_period": 1,
"description": "Crazy Inc - Traded on Main Exchange",
"unit_multiplier": 1,
"display_unit": "share",
"start_price": 10,
"min_price": 0,
"max_price": 25,
"quoted_decimals": 2,
"trading_fee": 0,
"limit_order_rebate": 0,
"min_trade_size": 0,
"max_trade_size": 10000,
"required_tickers": null,
"underlying_tickers": null,
"bond_coupon": 0,
"interest_payments_per_period": 0,
"base_security": "CRZY_M",
"fixing_ticker": null,
"api_orders_per_second": 10,
"execution_delay_ms": 0,
"interest_rate_ticker": null,
"otc_price_range": 0
},
{
    "ticker": "CRZY_A",
    "type": "STOCK",
    "size": 1,
    "position": 0,
    "vwap": 0,
    "nlv": 0,
    "last": 7.87,
    "bid": 7.85,
    "bid_size": 118400,
    "ask": 7.86,
    "ask_size": 114300,
    "volume": 19920700,
    "unrealized": 0,
    "realized": 0,
    "currency": "",
    "total_volume": 19920700,
    "limits": [
        {
            "name": "LIMIT-STOCK",
            "units": 1
        }
    ],
    "interest_rate": 0,
    "is_tradeable": true,
    "is_shortable": true,
    "start_period": 1,
    "stop_period": 1,
```

Code**Details**

```
"description": "Crazy Inc - Traded on Alternate Exchange",
"unit_multiplier": 1,
"display_unit": "share",
"start_price": 10,
"min_price": 0,
"max_price": 25,
"quoted_decimals": 2,
"trading_fee": 0,
"limit_order_rebate": 0,
"min_trade_size": 0,
"max_trade_size": 10000,
"required_tickers": null,
"underlying_tickers": null,
"bond_coupon": 0,
"interest_payments_per_period": 0,
"base_security": "CRZY_M",
"fixing_ticker": null,
"api_orders_per_second": 10,
"execution_delay_ms": 0,
"interest_rate_ticker": null,
"otc_price_range": 0
}
]
```

Response headers

```
content-length: 1773
content-type: application/json
```

Responses**Code****Description**

200

*OK***Example Value** | **Model**

```
[
  {
    "ticker": "string",
    "type": "SPOT",
    "size": 0,
    "position": 0,
    "vwap": 0,
    "nlv": 0,
    "last": 0,
    "bid": 0,
    "bid_size": 0,
    "ask": 0,
    "ask_size": 0,
    "volume": 0,
    "unrealized": 0,
    "realized": 0,
    "currency": "string",
    "total_volume": 0,
    "limits": [
      {
        "id": 0,
        "type": "string"
      }
    ]
  }
]
```

Code**Description**

```
        "name": "string",
        "units": 0
    }
],
"interest_rate": 0,
"is_tradeable": true,
"is_shortable": true,
"start_period": 0,
"stop_period": 0,
"description": "string",
"unit_multiplier": 0,
"display_unit": "string",
"start_price": 0,
"min_price": 0,
"max_price": 0,
"quoted_decimals": 0,
"trading_fee": 0,
"limit_order_rebate": 0,
"min_trade_size": 0,
"max_trade_size": 0,
"required_tickers": "string",
"bond_coupon": 0,
"interest_payments_per_period": 0,
"base_security": "string",
"fixing_ticker": "string",
"api_orders_per_second": 0,
"execution_delay_ms": 0,
"interest_rate_ticker": "string",
"otc_price_range": 0
}
]
```

401

*Unauthorized.***Example Value** | Model

```
{
  "code": "UNAUTHORIZED"
}
```

GET

/securities/book Gets the order book of a security.



Gets the order book of a security.

Parameters**Cancel**

Name	Description
------	-------------

ticker * required

string

(query)

limit

Maximum number of orders to return for each side of the order book. Defaults to 20.

number

(query)

ExecuteClear

Responses

Response content type

application/json



Curl

```
curl -X GET "http://localhost:10005/v1/securities/book?ticker=CRZY_M&limit=1" -H  
"accept: application/json" -H "X-API-Key: HCYA2KPW"
```

Request URL

```
http://localhost:10005/v1/securities/book?ticker=CRZY_M&limit=1
```

Server response

Code

Details

200

Response body

```
{  
  "bids": [  
    {  
      "order_id": 587,  
      "period": 1,  
      "tick": 108,  
      "trader_id": "ANON",  
      "ticker": "CRZY_M",  
      "quantity": 140800,  
      "price": 8.1,  
      "type": "LIMIT",  
      "action": "BUY",  
      "quantity_filled": 104900,  
      "vwap": 8.1,  
      "status": "OPEN"  
    }]
```

Code

Details

```
        }
    ],
    "asks": [
        {
            "order_id": 933,
            "period": 1,
            "tick": 191,
            "trader_id": "ANON",
            "ticker": "CRZY_M",
            "quantity": 127400,
            "price": 8.11,
            "type": "LIMIT",
            "action": "SELL",
            "quantity_filled": 0,
            "vwap": null,
            "status": "OPEN"
        }
    ]
}
```

Response headers

```
content-length: 403
content-type: application/json
```

Responses

Code

Description

200

OK

[Example Value](#) | [Model](#)

```
{
    "bid": [
        {
            "order_id": 1221,
            "period": 1,
            "tick": 10,
            "trader_id": "trader49",
            "ticker": "CRZY",
            "type": "LIMIT",
            "quantity": 100,
            "action": "BUY",
            "price": 14.21,
            "quantity_filled": 10,
            "vwap": 14.21,
            "status": "OPEN"
        }
    ],
    "ask": [
        {
            "order_id": 1221,
            "period": 1,
            "tick": 10,
            "trader_id": "trader49",
            "ticker": "CRZY",
            "type": "LIMIT",
            "quantity": 100,
            "action": "SELL",
            "price": 14.21,
            "quantity_filled": 0,
            "vwap": null,
            "status": "OPEN"
        }
    ]
}
```

Code**Description**

```
        "type": "LIMIT",
        "quantity": 100,
        "action": "BUY",
        "price": 14.21,
        "quantity_filled": 10,
        "vwap": 14.21,
        "status": "OPEN"
    }
]
}
```

401

*Unauthorized.***Example Value** | Model

```
{
  "code": "UNAUTHORIZED"
}
```

GET

/securities/history Gets the OHLC history for a security.



Gets the OHLC history for a security.

Parameters**Cancel****Name****Description****ticker** * required

CRZY_M

string

(query)

period

Period to retrieve data from. Defaults to the current period.

number

period - Period to retrieve data from. Defaults to the c

(query)

limit

Result set limit, counting backwards from the most recent tick. Defaults to retrieving the entire period.

number

limit - Result set limit, counting backwards from the m

(query)

Execute

Responses

Response content type

application/json



Code

Description

200

OK

[Example Value](#) | [Model](#)

```
[  
  {  
    "tick": 11,  
    "open": 4.12,  
    "high": 4.21,  
    "low": 4.1,  
    "close": 4.15  
  }  
]
```

401

Unauthorized.

[Example Value](#) | [Model](#)

```
{  
  "code": "UNAUTHORIZED"  
}
```

GET

/securities/tas Gets time & sales history for a security.



Gets time & sales history for a security. Data is anonymized. There are two modes of retrieval for this endpoint.

If `after` is specified, then only data with an `id` value greater than `after` will be returned. This allows only incremental data to be retrieved by storing the last `id` value returned. Setting `after=0` will return all time & sales data.

Alternatively, specifying `period` & `limit` will fetch data from the corresponding period and tick window. For example, setting `limit=0` returns only data from the current period and current tick.

Parameters

[Try it out](#)

Name	Description
ticker * required	
string (query)	
after	Retrieve only data with an <code>id</code> value greater than this value.
number (query)	
period	Period to retrieve data from. Defaults to the current period.
number (query)	
limit	Ticks to include, counting backwards from the most recent tick. Defaults to retrieving the entire period.
number (query)	

Responses

Response content type

application/json



Code

Description

200

OK

Example Value | Model

```
[  
  {  
    "id": 10,  
    "period": 1,  
    "tick": 50,  
    "price": 4.1,  
    "quantity": 10  
  }  
]
```

401

Unauthorized.

Example Value | Model

Code**Description**

```
{  
  "code": "UNAUTHORIZED"  
}
```

GET

/orders Gets a list of all orders.



Gets a list of all orders.

Parameters**Cancel****Name****Description**

status

The status of the orders to return. Defaults to OPEN.

string

(query)

Execute**Responses**

Response content type

application/json

**Code****Description**

200

OK**Example Value** | Model

```
[  
  {  
    "order_id": 1221,  
    "period": 1,  
    "tick": 10,  
    "trader_id": "trader49",  
    "ticker": "CRZY",  
    "type": "LIMIT",  
    "quantity": 100,  
    "action": "BUY",  
    "price": 14.21,  
    "quantity_filled": 10,  
    "vwap": 14.21,  
    "filled": 10,  
    "remaining": 90,  
    "filled_at": 14.21,  
    "remaining_at": 14.21  
  }]
```

Code	Description
	<pre> "status": "OPEN" }]</pre>
401	<i>Unauthorized.</i>

[Example Value](#) | [Model](#)

```
{
  "code": "UNAUTHORIZED"
}
```

POST
/orders Insert a new order.
🔒

Insert a new order. Note that this endpoint is rate-limited. If the rate limit is exceeded, the response will return HTTP code 429 and will contain a `wait` field and a `Retry-After` header indicating the number of seconds to wait before trying again.

Parameters
Cancel

Name	Description
ticker * required string (query)	CRZY_M
type * required string (query)	MARKET ▾
quantity * required number (query)	1
action * required string (query)	BUY ▾
price number (query)	Required if type is LIMIT. Ignored otherwise. price - Required if `type` is `LIMIT`. Ignored otherwise.

Name	Description
dry_run_number (query)	Only available if type is MARKET. Simulates the order execution and returns the result as if the order was executed. <input type="text" value="0"/>

Execute **Clear**

Responses Response content type

Curl

```
curl -X POST "http://localhost:10005/v1/orders?ticker=CRZY_M&type=MARKET&quantity=1&action=BUY&dry_run=0" -H "accept: application/json" -H "X-API-Key: HCYA2KPW"
```

Request URL

```
http://localhost:10005/v1/orders?  
ticker=CRZY_M&type=MARKET&quantity=1&action=BUY&dry_run=0
```

Server response

Code	Details
200	Response body <pre>{ "order_id": 331, "period": 1, "tick": 53, "trader_id": "Maxim", "ticker": "CRZY_M", "quantity": 1, "price": null, "type": "MARKET", "action": "BUY", "quantity_filled": 1, "vwap": 9.67, "status": "TRANSACTED" }</pre> Response headers <pre>content-length: 190 content-type: application/json</pre>

Responses

Code	Description
------	-------------

200

OK

Example Value | Model

```
{  
    "order_id": 1221,  
    "period": 1,  
    "tick": 10,  
    "trader_id": "trader49",  
    "ticker": "CRZY",  
    "type": "LIMIT",  
    "quantity": 100,  
    "action": "BUY",  
    "price": 14.21,  
    "quantity_filled": 10,  
    "vwap": 14.21,  
    "status": "OPEN"  
}
```

Headers:

Name	Description	Type
X-Wait-Until	Number of seconds to wait before attempting another order insertion against the same ticker (otherwise the rate limit will be exceeded).	number

401

Unauthorized.

Example Value | Model

```
{  
    "code": "UNAUTHORIZED"  
}
```

429

Rate limit exceeded.

Example Value | Model

```
{  
    "code": "RATE_LIMIT_EXCEEDED",  
    "wait": 0.215  
}
```

Headers:

Code	Description		
	Name	Description	Type
	Retry-After	Number of seconds to wait before retrying request.	number

GET /orders/{id} Gets the details of a specific order. 

Gets the details of a specific order.

Parameters Cancel

Name	Description
id * required integer (path)	The id of the order. <input type="text" value="331"/>

Execute Clear

Responses Response content type application/json 

Curl

```
curl -X GET "http://localhost:10005/v1/orders/331" -H "accept: application/json" -H "X-API-Key: HCYA2KPW"
```

Request URL

```
http://localhost:10005/v1/orders/331
```

Server response

Code	Details
200	Response body

Code

Details

```
{  
    "order_id": 331,  
    "period": 1,  
    "tick": 53,  
    "trader_id": "Maxim",  
    "ticker": "CRZY_M",  
    "quantity": 1,  
    "price": null,  
    "type": "MARKET",  
    "action": "BUY",  
    "quantity_filled": 1,  
    "vwap": 9.67,  
    "status": "TRANSACTED"  
}
```

Response headers

```
content-length: 190  
content-type: application/json
```

Responses

Code

Description

200

OK

[Example Value](#) | [Model](#)

```
{  
    "order_id": 1221,  
    "period": 1,  
    "tick": 10,  
    "trader_id": "trader49",  
    "ticker": "CRZY",  
    "type": "LIMIT",  
    "quantity": 100,  
    "action": "BUY",  
    "price": 14.21,  
    "quantity_filled": 10,  
    "vwap": 14.21,  
    "status": "OPEN"  
}
```

401

Unauthorized.

[Example Value](#) | [Model](#)

```
{  
    "code": "UNAUTHORIZED"  
}
```

DELETE

/orders/{id} Cancel an open order.



Cancel an open order.

Parameters**Try it out**

Name	Description
id * required integer (path)	The id of the order.

Responses

Response content type

application/json



Code	Description
200	<i>OK</i>
401	<i>Unauthorized.</i>

Example Value | Model

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

401

*Unauthorized.***Example Value** | Model

```
{  
  "code": "UNAUTHORIZED"  
}
```

GET

/tenders Gets a list of all active tenders.



Gets a list of all active tenders.

Parameters

Try it out

No parameters

Responses

Response content type

application/json



Code

Description

200

OK

Example Value | Model

```
[  
  {  
    "tender_id": 0,  
    "period": 0,  
    "tick": 0,  
    "expires": 0,  
    "caption": "string",  
    "quantity": 0,  
    "action": "BUY",  
    "is_fixed_bid": true,  
    "price": 0  
  }  
]
```

401

Unauthorized.

Example Value | Model

```
{  
  "code": "UNAUTHORIZED"  
}
```

POST

/tenders/{id} Accept the tender.



Accept the tender.

Parameters

Try it out

Name	Description
price	Required if the tender is not fixed-bid.
number (query)	
id * required integer (path)	The id of the tender.
Responses	
	Response content type application/json ▾
Code	Description
200	<i>OK</i>
	Example Value Model
	{ "success": true }
401	<i>Unauthorized.</i>
	Example Value Model
	{ "code": "UNAUTHORIZED" }

DELETE /tenders/{id} Decline the tender. 

Decline the tender.

Parameters

Try it out

Name	Description
id * required integer (path)	The id of the tender.
Responses	Response content type
	application/json ▾
Code	Description
200	<p><i>OK</i></p> <p>Example Value Model</p> <pre>{ "success": true }</pre>
401	<p><i>Unauthorized.</i></p> <p>Example Value Model</p> <pre>{ "code": "UNAUTHORIZED" }</pre>

GET

/leases List of all assets currently being leased or being used.



List of all assets currently being leased or being used.

Parameters

Try it out

No parameters

Responses

Response content type

application/json

**Code****Description**

200

OK[Example Value](#) | Model

```
[  
  {  
    "id": 0,  
    "ticker": "string",  
    "type": "CONTAINER",  
    "start_lease_period": 0,  
    "start_lease_tick": 0,  
    "next_lease_period": 0,  
    "next_lease_tick": 0,  
    "convert_from": [  
      {  
        "ticker": "CL",  
        "quantity": 10  
      }  
    ],  
    "convert_to": [  
      {  
        "ticker": "CL",  
        "quantity": 10  
      }  
    ],  
    "containment_usage": 0  
  }  
]
```

401

Unauthorized.[Example Value](#) | Model

```
{  
  "code": "UNAUTHORIZED"  
}
```

POST

/leases Lease or use an asset.



Lease or use an asset. Depending on the type of asset, you will need to specify the `fromN` and `quantityN` parameters. Only specify subsequent `fromN` & `quantityN` parameters if needed.

Parameters

Try it out

Name	Description
ticker * required	Ticker of the asset to lease or use.
string (query)	
from1	Required for assets that can be used without leasing first (such as REFINERY type assets). Specifies the source ticker.
string (query)	
quantity1	Required for assets that can be used without leasing first (such as REFINERY type assets). Specifies the source quantity.
number (query)	
from2	Specifies the 2nd source ticker (if required).
string (query)	
quantity2	Specifies the 2nd source quantity (if required).
number (query)	
from3	Specifies the 3rd source ticker (if required).
string (query)	
quantity3	Specifies the 3rd source quantity (if required).
number (query)	

Responses

Response content type

application/json



Code

Description

200

OK

Example Value | Model

Code

Description

```
{  
    "id": 0,  
    "ticker": "string",  
    "type": "CONTAINER",  
    "start_lease_period": 0,  
    "start_lease_tick": 0,  
    "next_lease_period": 0,  
    "next_lease_tick": 0,  
    "convert_from": [  
        {  
            "ticker": "CL",  
            "quantity": 10  
        }  
    ],  
    "convert_to": [  
        {  
            "ticker": "CL",  
            "quantity": 10  
        }  
    ],  
    "containment_usage": 0  
}
```

401

Unauthorized.

[Example Value](#) | [Model](#)

```
{  
    "code": "UNAUTHORIZED"  
}
```

GET

/leases/{id} Gets the details of a specific lease.



Gets the details of a specific lease.

Parameters

[Try it out](#)

Name

Description

id * required

integer
(path)

The id of the asset lease.

Responses

Response content type

application/json



Code

Description

200

OK

[Example Value](#) | [Model](#)

```
{  
    "id": 0,  
    "ticker": "string",  
    "type": "CONTAINER",  
    "start_lease_period": 0,  
    "start_lease_tick": 0,  
    "next_lease_period": 0,  
    "next_lease_tick": 0,  
    "convert_from": [  
        {  
            "ticker": "CL",  
            "quantity": 10  
        }  
    ],  
    "convert_to": [  
        {  
            "ticker": "CL",  
            "quantity": 10  
        }  
    ],  
    "containment_usage": 0  
}
```

401

Unauthorized.

[Example Value](#) | [Model](#)

```
{  
    "code": "UNAUTHORIZED"  
}
```

POST

/leases/{id} Use a leased asset.



Use a leased asset. Only specify subsequent fromN & quantityN parameters if needed.

Parameters

[Try it out](#)

Name	Description
from1 * required string (query)	Specifies the 1st source ticker.
quantity1 * required number (query)	Specifies the 1st source quantity.
from2 string (query)	Specifies the 2nd source ticker (if required).
quantity2 number (query)	Specifies the 2nd source quantity (if required).
from3 string (query)	Specifies the 3rd source ticker (if required).
quantity3 number (query)	Specifies the 3rd source quantity (if required).
id * required integer (path)	The id of the asset lease.

Responses

Response content type

application/json



Code

Description

200

OK

Example Value | Model

```
{  
  "id": 0,
```

Code

Description

```
"ticker": "string",
"type": "CONTAINER",
"start_lease_period": 0,
"start_lease_tick": 0,
"next_lease_period": 0,
"next_lease_tick": 0,
"convert_from": [
    {
        "ticker": "CL",
        "quantity": 10
    }
],
"convert_to": [
    {
        "ticker": "CL",
        "quantity": 10
    }
],
"containment_usage": 0
}
```

401

Unauthorized.

[Example Value](#) | [Model](#)

```
{
    "code": "UNAUTHORIZED"
}
```

DELETE

/leases/{id} Unlease an asset.



Unlease an asset.

Parameters

[Try it out](#)

Name

Description

id * required

The id of the asset lease.

integer
(path)

Responses

Response content type

application/json



Code	Description
200	<p><i>OK</i></p> <p>Example Value Model</p> <pre>{ "success": true}</pre>
401	<p><i>Unauthorized.</i></p> <p>Example Value Model</p> <pre>{ "code": "UNAUTHORIZED"}</pre>

POST /commands/cancel Bulk cancel open orders. 

Bulk cancel open orders. Exactly one query parameter must be specified. If multiple query parameters are specified, only the first available parameter in the order below will be processed. Returns a result object that specifies which orders were actually cancelled.

Parameters Try it out

Name	Description
all	Set to 1 to cancel all open orders.
number (query)	
ticker	Cancel all open orders for a security.
string (query)	
ids	Cancel a set of orders referenced via a comma-separated list of order ids. For example, 12,13,91,1.
string (query)	

Name	Description
query string (query)	Query string to select orders for cancellation. For example, Ticker='CL' AND Price>124.23 AND Volume<0 will cancel all open sell orders for CL priced above 124.23.

Responses	Response content type	application/json
-----------	-----------------------	------------------

Code	Description
------	-------------

200	<i>OK</i>
-----	-----------

Example Value | Model

```
{  
    "cancelled_order_ids": [  
        12,  
        13,  
        91  
    ]  
}
```

401	<i>Unauthorized.</i>
-----	----------------------

Example Value | Model

```
{  
    "code": "UNAUTHORIZED"  
}
```

Models	▼
--------	---

```
Error ▾ {  
    code*  
    message  
}
```

CaseStatus string

Enum:

> Array [3]

OrderType string

Enum:

> Array [2]

SecurityType string

Enum:

> Array [12]

AssetType string

Enum:

> Array [6]

TickerQuantity ▾ {

ticker	string
quantity	number <i>example:</i> 10

TickerPrice ↴ {

ticker	string <i>example:</i> <code>CL</code>
price	number <i>example:</i> <code>9.99</code>

OrderAction string

Enum:

> Array [2]

OrderStatus string

Enum:

> Array [3]

Order ✓ {

order_id	integer <i>example:</i> 1221
period	integer <i>example:</i> 1

```

tick           integer
trader_id     string
ticker         string
               example: CRZY
               Case sensitive.

type          string
               example: LIMIT
               Enum:
                  > Array [ 2 ]
quantity       number
               example: 100
action         string
               Enum:
                  > Array [ 2 ]
price          number
               example: 14.21
               Will be null if type is LIMIT.

quantity_filled number
               example: 10
               Always less than or equal to quantity.

vwap           number
               example: 14.21
               Volume-weighted average price for transacted quantity. null if
               quantity_filled is 0.

status         string
               Enum:
                  > Array [ 3 ]
}

```

```

AssetLease ▾ {
  id            integer
               Lease id.

  ticker        string
  type          string
               example: CONTAINER
               Enum:
                  > Array [ 6 ]
  start_lease_period integer
  start_lease_tick   integer
  next_lease_period integer
  next_lease_tick   integer
  convert_from      > [...]
  convert_to        > [...]
  containment_usage integer
               Currently utilized capacity for CONTAINER type assets.

}

```

```

SuccessResult ▾ {
  description:   Placeholder result to indicate an operation was successful.
}

```

```
success      boolean  
example: true  
}
```

VALID {…}