

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>
- 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.

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

Base URL:

Username:

Password:

Authorization Header:

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.

Port:

API Key:

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: HCYA2KPW"
```

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

401

```
{
  "trader_id": "string",
  "first_name": "string",
  "last_name": "string",
  "nlv": 0
}
```

Unauthorized.

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: HCYA2KPW"
```

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

Response body

```
[
  {
    "news_id": 1,
    "period": 1,
    "tick": 1,
    "ticker": "",
    "headline": "Welcome to the Algorithmic Trading 1 Case!",
    "body": ""
  }
]
```

Code

Details

```
}  
]
```

Response headers

```
content-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

Response body

[]

Response headers

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

Responses

Code

Description

200

OK

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 <i>(query)</i> | <input type="text" value="CRZY_M"/> |
| period number <i>(query)</i> | Period to retrieve data from. Defaults to the current period. <input type="text" value="period - Period to retrieve data from. Defaults to the cu"/> |
| limit number <i>(query)</i> | Result set limit, counting backwards from the most recent tick. Defaults to retrieving the entire period. <input type="text" value="limit - Result set limit, counting backwards from the mc"/> |

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": [
      {
```

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) | |
|-------------------|--|

| | |
|--|--------|
| | CRZY_M |
|--|--------|

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

| | |
|-------------------|--|
| number (query) | |
|-------------------|--|

| | |
|--|---|
| | 1 |
|--|---|

| | |
|---------|-------|
| Execute | Clear |
|---------|-------|

| 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 |
|--|---------------|

| | |
|--|---|
| | <pre>{ "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" }] }</pre> |
|--|---|

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",
```

Code**Description**

401

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

*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

(query)

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

limit

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

number

(query)

limit - Result set limit, counting backwards from the m

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 id 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 | <div>OK</div> <div><div>Example Value Model</div><div>[{ "id": 10, "period": 1, "tick": 50, "price": 4.1, "quantity": 10 }]</div></div> |
| 401 | <div>Unauthorized.</div> <div><div>Example Value Model</div></div> |

Code

Description

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

GET

/orders Gets a list of all orders.



Gets a list of all orders.

Parameters

Cancel

Name

Description

status

string

(query)

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

--



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,
  }
]
```

Code**Description**

401

```
"status": "OPEN"
}
]
```

*Unauthorized.***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** * requiredstring
(query)

CRZY_M

type * requiredstring
(query)

MARKET

**quantity** * requirednumber
(query)

1

action * requiredstring
(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. <i>Simulates</i> the order execution and returns the result as if the order was executed. |
|------------------------------|---|

0

▼

Execute

Clear

Responses

Response content type

application/json

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

```
{
  "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": "TRANSACTIONED"
}
```

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"
}
```

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 | 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 | The id of the order. |
| integer (path) | <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": "TRANSACTIONED"
}
```

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

The id of the order.

integer

(path)

Responses

Response content type

application/json

**Code****Description**

200

*OK***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

The id of the tender.

integer

(path)

Responses

Response content type

application/json



Code

Description

200

OK

Example Value | Model

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

401

Unauthorized.

Example Value | Model

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

DELETE

/tenders/{id} Decline the tender.



Decline the tender.

Parameters

Try it out

Name

Description

id * required

The id of the tender.

integer

(path)

Responses

Response content type

application/json



Code

Description

200

OK

Example Value | Model

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

401

Unauthorized.

Example Value | Model

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

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 | |

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

The id of the asset lease.

integer

(path)

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

*OK***Example Value** | Model

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

401

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

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

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 | <div>OK</div> <div> <div>Example Value</div> <div>Model</div> <pre>{ "cancelled_order_ids": [12, 13, 91] }</pre> </div> |
| 401 | <div>Unauthorized.</div> <div> <div>Example Value</div> <div>Model</div> <pre>{ "code": "UNAUTHORIZED" }</pre> </div> |

| Models |
|---|
| <div> <div>Error</div> <div> <div>code*</div> <div>message</div> </div> </div> <div> <div>string</div> <div>string</div> </div> |

CaseStatus `string`

Enum:

➤ Array [3]

OrderType `string`

Enum:

➤ Array [2]

SecurityType `string`

Enum:

➤ Array [12]

AssetType `string`

Enum:

➤ Array [6]

TickerQuantity ▾ {

| | |
|----------|---|
| ticker | <code>string</code> <i>example: CL</i> |
| quantity | <code>number</code> <i>example: 10</i> |

}

TickerPrice ▾ {

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

}

OrderAction `string`

Enum:

➤ Array [2]

OrderStatus `string`

Enum:

➤ Array [3]

Order ▾ {

| | |
|----------|--|
| order_id | <code>integer</code> <i>example: 1221</i> |
| period | <code>integer</code> <i>example: 1</i> |

```

    tick                integer
                        example: 10

    trader_id           string
                        example: trader49

    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

{...}