

VOCSET API Documentation

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Version History

Version	Date	Changes
1.1.0	2026-01-16	Updated for multi-leg trade support
1.0.1	2025-12-29	Various small updates
1.0.0	2024-11-19	Initial release - single-leg trades

This document outlines the VOCSET API used to upload trade data directly into the application. Currently a very restricted sub-set of the application features are available from the API - just those operations to handle trade data.

Authentication & Authorisation

All API endpoints are secured using an key. Setting up an API Key / Secret can be managed from the VOCSET application, in your user profile.

When calling the API, the api key and api secret should be placed in the named headers in all requests.

```
X-API-KEY: "api_key"  
X-API-SECRET: "api_secret"
```

Handling Trades

Each endpoint manipulates or displays information related to the User whose Token is provided with the request:

- [Show Trades](#) : GET /api/trade
 - [Upload Trades](#) : POST /api/trade
-

Show Active Trades

Gets an `Array` of `Trade` objects representing the currently active trades in the blotter for the API key owner's company.

URL : /api/trades

Method : GET

Auth required : YES (API Key)

Permissions required : None

Success Response

Code : 200 OK

Content examples

Details of a `Futures` trade on `IFEU` exchange.

```
[{  
    "tradeID": "20241119-005",  
    "userID": "jj@java2go.com",  
    "side": "Sell",  
    "quantity": 1,  
    "price": 100.00000000,  
    "tradeDate": "2024-11-19",  
    "currency": "USD",  
    "mic": "IFEU",  
    "assetClass": "Future",  
    "instrumentCode": "B",  
    "instrumentCodeType": "Ticker",  
    "optionType": "None",  
    "maturity": "2025-06-01",  
    "client": "CTCINC",  
    "executingBroker": "JJFUTLTD",  
    "executingAccount": "",  
    "clearingBroker": "DBAG",  
    "clearingAccount": "GC123",  
    "executionTime": "2024-11-19T23:33:00.895319Z",  
    "reportedTime": "2024-11-19T23:33:01.492583Z"  
}]
```

Details of an `Option` trade on `XNYM` exchange.

```
[{
    "tradeID": "119934867",
    "userID": "jj@java2go.com",
    "side": "Sell",
    "quantity": 200,
    "price": 0.09600000,
    "tradeDate": "2024-10-27",
    "currency": "USD",
    "mic": "XNYM",
    "assetClass": "Option",
    "instrumentCode": "ON",
    "instrumentCodeType": "Ticker",
    "strike": 3.20,
    "optionType": "Call",
    "maturity": "2024-12-01",
    "client": "CTCINC",
    "executingBroker": "JJFUTLTD",
    "executingAccount": "",
    "clearingBroker": "JPMLLC",
    "clearingAccount": "CTC123",
    "executionTime": "2024-10-27T13:27:33Z",
    "giveupTime": "2024-10-28T13:32:01Z",
    "reportedTime": "2024-10-31T14:54:07.630565Z"
}]
```

Details of a `CalendarSpread` multi-leg trade on `IFEU` exchange.

```
[{
    "tradeID": "ML-20250116-001",
    "userID": "jj@java2go.com",
    "strategyName": "CalendarSpread",
    "side": "Buy",
    "quantity": 10,
    "price": 0.00000000,
    "tradeDate": "2025-01-16",
    "currency": "USD",
    "mic": "IFEU",
    "assetClass": "Future",
    "instrumentCode": "B",
    "instrumentCodeType": "Ticker",
    "optionType": "None",
    "maturity": "2025-03-01",
    "client": "CTCLTD",
    "executingBroker": "DBAG",
```

```

"executingAccount": "",
"clearingBroker": "DBAG",
"clearingAccount": "GC123",
"executionTime": "2025-01-16T10:00:00Z",
"reportedTime": "2025-01-16T10:00:01.123456Z",
"legs": [
  {
    "tradeID": "ML-20250116-001-L1",
    "parentTradeId": "ML-20250116-001",
    "side": "Buy",
    "quantity": 10,
    "price": 76.00000000,
    "tradeDate": "2025-01-16",
    "mic": "IFEU",
    "assetClass": "Future",
    "instrumentCode": "B",
    "maturity": "2025-03-01",
    "client": "CTCLTD",
    "clearingBroker": "DBAG",
    "clearingAccount": "GC123",
    "executionTime": "2025-01-16T10:00:00Z"
  },
  {
    "tradeID": "ML-20250116-001-L2",
    "parentTradeId": "ML-20250116-001",
    "side": "Sell",
    "quantity": 10,
    "price": 75.50000000,
    "tradeDate": "2025-01-16",
    "mic": "IFEU",
    "assetClass": "Future",
    "instrumentCode": "B",
    "maturity": "2025-04-01",
    "client": "CTCLTD",
    "clearingBroker": "DBAG",
    "clearingAccount": "GC123",
    "executionTime": "2025-01-16T10:00:00Z"
  }
]
}

```

Details of a `Butterfly` options multi-leg trade on `IFEU` exchange.

```
[{
  "tradeID": "ML-20250116-003",
  "userID": "jj@java2go.com",
  "strategyName": "Butterfly",
}
```

```
"side": "Buy",
"quantity": 10,
"price": 0.00000000,
"tradeDate": "2025-01-16",
"currency": "USD",
"mic": "IFEU",
"assetClass": "Option",
"instrumentCode": "B",
"instrumentCodeType": "Ticker",
"strike": 75.00,
"optionType": "Call",
"maturity": "2025-06-01",
"client": "CTCLTD",
"executingBroker": "DBAG",
"executingAccount": "",
"clearingBroker": "DBAG",
"clearingAccount": "GC123",
"executionTime": "2025-01-16T10:00:00Z",
"reportedTime": "2025-01-16T10:00:01.123456Z",
"legs": [
  {
    "tradeID": "ML-20250116-003-L1",
    "parentTradeId": "ML-20250116-003",
    "side": "Buy",
    "quantity": 10,
    "price": 5.00000000,
    "tradeDate": "2025-01-16",
    "mic": "IFEU",
    "assetClass": "Option",
    "instrumentCode": "B",
    "maturity": "2025-06-01",
    "strike": 70.00,
    "optionType": "Call",
    "client": "CTCLTD",
    "clearingBroker": "DBAG",
    "clearingAccount": "GC123",
    "executionTime": "2025-01-16T10:00:00Z"
  },
  {
    "tradeID": "ML-20250116-003-L2",
    "parentTradeId": "ML-20250116-003",
    "side": "Sell",
    "quantity": 20,
    "price": 3.00000000,
    "tradeDate": "2025-01-16",
    "mic": "IFEU",
    "assetClass": "Option",
    "instrumentCode": "B",
```

```

    "maturity": "2025-06-01",
    "strike": 75.00,
    "optionType": "Call",
    "client": "CTCLTD",
    "clearingBroker": "DBAG",
    "clearingAccount": "GC123",
    "executionTime": "2025-01-16T10:00:00Z"
},
{
    "tradeID": "ML-20250116-003-L3",
    "parentTradeId": "ML-20250116-003",
    "side": "Buy",
    "quantity": 10,
    "price": 1.50000000,
    "tradeDate": "2025-01-16",
    "mic": "IFEU",
    "assetClass": "Option",
    "instrumentCode": "B",
    "maturity": "2025-06-01",
    "strike": 80.00,
    "optionType": "Call",
    "client": "CTCLTD",
    "clearingBroker": "DBAG",
    "clearingAccount": "GC123",
    "executionTime": "2025-01-16T10:00:00Z"
}
]
}]

```

Notes

- The fields `strike` and `optionType` are only returned for `Option` trades.
 - Multi-leg trades include a `strategyName` field and a `legs` array containing individual leg trades.
 - Each leg includes a `parentTradeId` field referencing the parent trade's `tradeID`.
-

Upload Active Trades

Allow the user with valid API Key to upload their trades into the daily blotter, and submit these to their clients.

URL : /api/trade

Method : POST

Auth required : YES (API Key)

Permissions required : None

Data constraints (Single-Leg Trades)

```
{  
    "tradeID": "<MANDATORY>",  
    "traceID": "<OPTIONAL>",  
    "tradeDate": "YYYY-MM-DD <MANDATORY> cannot be in future",  
    "side": "Buy|Sell <MANDATORY>",  
    "quantity": "676 <MANDATORY> integer - limited to 32 digits - no  
    decimals",  
    "price": "2009 <MANDATORY> decimal - limited to 24 digits + 8 dps",  
    "instrumentCode": "String <MANDATORY> contract code only, no maturity  
    information",  
    "maturity": "YYYY-MM-DD <MANDATORY>>",  
    "strike": "Decimal <MANDATORY when assetClass=Option>",  
    "optionType": "Call|Put <MANDATORY when assetClass=Option>",  
    "mic": "String <MANDATORY>",  
    "client": "String <MANDATORY>",  
    "executingAccount": "String <OPTIONAL>",  
    "executingBroker": "String <OPTIONAL> only necessary when firms need  
    to use multiple broker codes",  
    "productDescription": "String <OPTIONAL>>",  
    "clearingAccount": "String <MANDATORY>",  
    "clearingBroker": "String <MANDATORY>",  
    "carryBroker": "String <OPTIONAL> only use when requested. Can be  
    defaulted",  
    "executionTime": "DateTime(ISO 8601) <MANDATORY> example:  
    2024-12-01T14:00:04-05:00",  
    "giveupTime": "DateTime(ISO 8601) <OPTIONAL> example:  
    2024-12-01T14:01:00-05:00",  
    "assetClass": "Future|Option <MANDATORY>"  
}
```

Data constraints (Multi-Leg Trades)

Multi-leg trades use a parent-child structure where the parent trade contains an array of leg trades.

```
{  
    "tradeID": "<MANDATORY> unique identifier for parent trade",  
    "strategyName": "CalendarSpread|CalendarStrip|VerticalSpread|  
Straddle|Strangle|Butterfly|Condor|IronButterfly|IronCondor|Strip|  
Strap|Custom <OPTIONAL>",  
    "tradeDate": "YYYY-MM-DD <MANDATORY> cannot be in future",  
    "side": "Buy|Sell <MANDATORY>",  
    "quantity": "<MANDATORY>",  
    "price": "<MANDATORY> can be 0 for spread trades",  
    "instrumentCode": "String <MANDATORY>",  
    "maturity": "YYYY-MM-DD <MANDATORY>",  
    "mic": "String <MANDATORY>",  
    "client": "String <MANDATORY>",  
    "clearingAccount": "String <MANDATORY>",  
    "clearingBroker": "String <MANDATORY>",  
    "executionTime": "DateTime(ISO 8601) <MANDATORY>",  
    "assetClass": "Future|Option <MANDATORY>",  
    "legs": [  
        {  
            "tradeID": "<MANDATORY> unique identifier for leg",  
            "parentTradeId": "<MANDATORY> must match parent tradeID",  
            "tradeDate": "YYYY-MM-DD <MANDATORY> must match parent  
tradeDate",  
            "side": "Buy|Sell <MANDATORY>",  
            "quantity": "<MANDATORY>",  
            "price": "<MANDATORY>",  
            "instrumentCode": "String <MANDATORY>",  
            "maturity": "YYYY-MM-DD <MANDATORY>",  
            "mic": "String <MANDATORY>",  
            "client": "String <MANDATORY> must match parent client",  
            "clearingAccount": "String <MANDATORY>",  
            "clearingBroker": "String <MANDATORY>",  
            "executionTime": "DateTime(ISO 8601) <MANDATORY>",  
            "assetClass": "Future|Option <MANDATORY>"  
        }  
    ]  
}
```

Strategy Types and Minimum Leg Requirements

Strategy	Min Legs	Description
CalendarSpread	2	Different expiration dates, same strike
CalendarStrip	2	Buy/Sell Consecutive expiries
VerticalSpread	2	Same expiration, different strikes
Straddle	2	Buy/Sell both call and put at same strike
Strangle	2	Buy/Sell call and put at different strikes
Butterfly	3	Three strikes with defined wings
Condor	4	Four different strikes
IronButterfly	4	Short butterfly with protective wings
IronCondor	4	Short strangle with protective collars
Strip	3	One call + two puts
Strap	3	Two calls + one put
Custom	2	User-defined structure

Multi-Leg Validation Rules

- All legs must have the same `client` as the parent trade
- All legs must have the same `tradeDate` as the parent trade
- Each leg's `parentTradeId` must match the parent's `tradeID`
- Multi-leg trades must have at least 2 legs (or more depending on strategy)
- If any leg fails validation, the entire parent trade is rejected

Note for `Client`, `executingBroker`, `clearingBroker`, `executingAccount`, `clearingAccount` please refer to the company codes visible in VOCSET gui.

Data examples

```
[
  {
    "tradeID": "20241119-001",
    "tradeDate": "2024-11-19",
    "side": "Buy",
    "quantity": "676",
    "price": "2009",
    "instrumentCode": "CL",
    "parentTradeId": "20241119-001"
  }
]
```

```
"maturity": "2024-12-01",
"mic": "XNYM",
"client": "CTCINC",
"productDescription": "Brent Crude",
"clearingAccount": "GC123",
"clearingBroker": "DBAG",
"executionTime": "2024-11-19T14:00:04-05:00",
"giveupTime": "2024-11-19T14:01:00-05:00",
"assetClass": "Future"
},
{
  "tradeID": "20241119-002",
  "tradeDate": "2024-11-19",
  "side": "Buy",
  "quantity": "47",
  "price": "1979",
  "instrumentCode": "NG",
  "maturity": "2024-12-01",
  "mic": "XNYM",
  "client": "CTCINC",
  "productDescription": "Natural Gas",
  "clearingAccount": "GC123",
  "clearingBroker": "DBAG",
  "executionTime": "2024-11-19T14:00:04-05:00",
  "giveupTime": "2024-11-19T14:01:00-05:00",
  "assetClass": "Future"
},
{
  "tradeID": "20241119-003",
  "tradeDate": "2024-11-19",
  "side": "Sell",
  "quantity": "1",
  "price": "77",
  "instrumentCode": "C",
  "maturity": "2025-03-01",
  "mic": "NDEX",
  "client": "CTCINC",
  "productDescription": "EUA Futures",
  "clearingAccount": "GC456",
  "clearingBroker": "DBAG",
  "executionTime": "2024-11-19T14:00:04-05:00",
  "giveupTime": "2024-11-19T14:01:00-05:00",
  "assetClass": "Future"
},
{
  "tradeID": "20241119-004",
  "tradeDate": "2024-11-19",
  "side": "Buy",
```

```
        "quantity": "50",
        "price": "50",
        "instrumentCode": "T",
        "maturity": "2025-03-01",
        "mic": "IFEU",
        "client": "CTCINC",
        "productDescription": "WTI Crude",
        "clearingAccount": "GC456",
        "clearingBroker": "DBAG",
        "executionTime": "2024-11-19T14:00:04-05:00",
        "giveupTime": "2024-11-19T14:01:00-05:00",
        "assetClass": "Future"
    },
    {
        "tradeID": "20241119-005",
        "tradeDate": "2024-11-19",
        "side": "Sell",
        "quantity": "1",
        "price": "100",
        "instrumentCode": "B",
        "maturity": "2025-06-01",
        "mic": "IFEU",
        "client": "CTCINC",
        "productDescription": "Brent Crude ICE",
        "clearingAccount": "GC123",
        "clearingBroker": "DBAG",
        "executionTime": "2024-11-19T14:00:04-05:00",
        "giveupTime": "2024-11-19T14:01:00-05:00",
        "assetClass": "Future"
    },
    {
        "tradeID": "20241119-006",
        "tradeDate": "2024-11-19",
        "side": "Sell",
        "quantity": "1",
        "price": "100",
        "instrumentCode": "B",
        "maturity": "2025-06-01",
        "strike": 100.1,
        "optionType": "Call",
        "mic": "IFEU",
        "client": "CTCINC",
        "productDescription": "Brent Crude ICE",
        "clearingAccount": "GC123",
        "clearingBroker": "DBAG",
        "executionTime": "2024-11-19T14:00:04-05:00",
        "giveupTime": "2024-11-19T14:01:00-05:00",
        "assetClass": "Option"
    }
]
```

```
    }
]
```

Multi-Leg Trade Example (Calendar Spread)

```
[
{
  "tradeID": "ML-20241119-001",
  "strategyName": "CalendarSpread",
  "tradeDate": "2024-11-19",
  "side": "Buy",
  "quantity": "10",
  "price": "0",
  "instrumentCode": "CL",
  "maturity": "2025-01-01",
  "mic": "XNYM",
  "client": "CTCINC",
  "productDescription": "Crude Oil Calendar Spread",
  "clearingAccount": "GC123",
  "clearingBroker": "DBAG",
  "executionTime": "2024-11-19T14:00:04-05:00",
  "assetClass": "Future",
  "legs": [
    {
      "tradeID": "ML-20241119-001-L1",
      "parentTradeId": "ML-20241119-001",
      "tradeDate": "2024-11-19",
      "side": "Buy",
      "quantity": "10",
      "price": "70.50",
      "instrumentCode": "CL",
      "maturity": "2025-01-01",
      "mic": "XNYM",
      "client": "CTCINC",
      "clearingAccount": "GC123",
      "clearingBroker": "DBAG",
      "executionTime": "2024-11-19T14:00:04-05:00",
      "assetClass": "Future"
    },
    {
      "tradeID": "ML-20241119-001-L2",
      "parentTradeId": "ML-20241119-001",
      "tradeDate": "2024-11-19",
      "side": "Sell",
      "quantity": "10",
      "price": "71.25",
      "instrumentCode": "CL",

```

```
        "maturity": "2025-02-01",
        "mic": "XNYM",
        "client": "CTCINC",
        "clearingAccount": "GC123",
        "clearingBroker": "DBAG",
        "executionTime": "2024-11-19T14:00:04-05:00",
        "assetClass": "Future"
    }
]
}
]
```

Success Responses

Condition : Data provided is valid and User is Authenticated.

Code : 200 OK (response payload need to be examined for individual trade errors)

Content example : Response will reflect back the updated information.

```
{
  "timestamp": "2024-11-21T17:16:12.424011385Z",
  "status": 200,
  "result": [
    {
      "id": "20241119-001",
      "status": "OK",
      "message": ""
    },
    {
      "id": "20241119-002",
      "status": "OK",
      "message": ""
    },
    {
      "id": "20241119-003",
      "status": "OK",
      "message": ""
    },
    {
      "id": "20241119-004",
      "status": "OK",
      "message": ""
    },
    {
      "id": "20241119-005",
      "status": "OK",
      "message": ""
    }
  ]
}
```

```
        "status": "OK",
        "message": ""

    },
    {
        "id": "20241119-006",
        "status": "OK",
        "message": ""

    }
],
"path": "/api/trade"
}
```

Success Response (Partial)

Condition : Data provided is correctly formatted but some trades may have invalid data

Code : 200 OK

Content example :

```
{
  "timestamp": "2024-11-21T17:16:12.424011385Z",
  "status": 200,
  "result": [
    {
      "id": "20241119-001",
      "status": "ERROR",
      "message": "Trade ID [20241119-001] is not unique",
      "field": "tradeId",
      "value": "20241119-001"
    },
    {
      "id": "20241119-002",
      "status": "ERROR",
      "message": "Trade ID [20241119-002] is not unique",
      "field": "tradeId",
      "value": "20241119-002"
    },
    {
      "id": "20241119-006",
      "status": "OK",
      "message": ""
    }
}
```

```
]  
}
```

Notes

- Because some trades in the upload were valid, but the payload was formatted correctly, but some trades in the upload were correct, a partially successful upload is possible.
- In these instances, the return code will be 200, but the payload will indicate individual trade errors on the status field of each result element as indicated above.

Error Response

Condition : Bad data has been supplied in the payload.

Code : 400 BAD REQUEST

Error Response

Condition : VOCSET encountered an unexpected / unhandled error while processing.

Code : 500 INTERNAL SERVER ERROR
