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## ProjectX Gateway API | ProjectX API Documentation

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*Documentation for the ProjectX Gateway API*

: <https://gateway.docs.projectx.com>

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## ProjectX Gateway API | ProjectX API Documentation

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*Documentation for the ProjectX Gateway API*

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# Search for Account | ProjectX API Documentation

API URL: `/api/Account/search`

: <https://gateway.docs.projectx.com/docs/api-reference/account/search-accounts>

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## Search for Account

**API URL** : POST <https://gateway-api-demo.s2f.projectx.com/api/Account/search> **API Reference** : [/api/account/search](#)

### Description

Search for accounts.

### Parameters

Name	Type	Description	Required	Nullable
onlyActiveAccounts	boolean	Whether to filter only active accounts.	Required	false

### Example Usage

#### Example Request

- cURL Request

```
curl -X 'POST' \ 'https://gateway-api-demo.s2f.projectx.com/api/Account/search' \ -H 'accept: text/plain' \ -H 'Content-Type: application/json' \
```

```
-d '{
  "onlyActiveAccounts": true
}'
```

#### Example Response

- Success
- Error

```
{
  "accounts": [ { "id": 1, "name": "TEST_ACCOUNT_1", "balance": 50000,
    "canTrade": true,
    "isVisible": true
  }
]
```

```
], "success": true, "errorCode": 0, "errorMessage": null }
```

Error: response status is 401

- [Description](#)

- [Parameters](#)
- [Example Usage](#)
- [Example Request](#)
- [Example Response](#)

## Retrieve Bars | ProjectX API Documentation

API URL: `/api/History/retrieveBars`

: <https://gateway.docs.projectx.com/docs/api-reference/market-data/retrieve-bars>

On this page

### Retrieve Bars

**API URL** : POST <https://gateway-api-demo.s2f.projectx.com/api/History/retrieveBars> **API Reference** : [/api/history/retrieveBars](#)

### Description

Retrieve bars.

### Parameters

Name	Type	Description	Required	Nullable
contractId	integer	The contract ID.	Required	false
live	boolean	Whether to retrieve bars using the sim or live data subscription.	Required	false
startTime	datetime	The start time of the historical data.	Required	false
endTime	datetime	The end time of the historical data.	Required	false
unit	integer	The unit of aggregation for the historical data:		
1 = Second				
2 = Minute				
3 = Hour				
4 = Day				
5 = Week				
6 = Month	Required	false		
unitNumber	integer	The number of units to aggregate.	Required	false
limit	integer	The maximum number of bars to retrieve.	Required	false

includePartialBar	boolean	Whether to include a partial bar representing the current time unit.	Required	false
-------------------	---------	--	----------	-------

## Example Usage

### Example Request

- cURL Request

curl -X 'POST' \ 'https://gateway-api-demo.s2f.projectx.com/api/History/retrieveBars' \ -H 'accept: text/plain' \ -H 'Content-Type: application/json' \

```
-d '{
  "contractId": "CON.F.US.RTY.Z24",
  "live": false,
  "startTime": "2024-12-01T00:00:00Z",
  "endTime": "2024-12-31T21:00:00Z",
  "unit": 3,
  "unitNumber": 1,
  "limit": 7,
  "includePartialBar": false
}'
```

### Example Response

- Success
- Error

```
{
  "bars": [ { "t": "2024-12-20T14:00:00+00:00", "o": 2208.100000000, "h": 2217.000000000,
    "l": 2206.700000000,
    "c": 2210.100000000,
    "v": 87
  },
```

```
{
  "t": "2024-12-20T13:00:00+00:00",
  "o": 2195.800000000,
  "h": 2215.000000000,
  "l": 2192.900000000,
  "c": 2209.800000000,
  "v": 536
},
```

```
{
  "t": "2024-12-20T12:00:00+00:00",
  "o": 2193.600000000,
  "h": 2200.300000000,
  "l": 2192.000000000,
  "c": 2198.000000000,
  "v": 180
},
```

```
{
  "t": "2024-12-20T11:00:00+00:00",
  "o": 2192.200000000,
  "h": 2194.800000000,
  "l": 2189.900000000,
  "c": 2194.800000000,
  "v": 174
},
```

```
{
```

```
"t": "2024-12-20T10:00:00+00:00",
"o": 2200.400000000,
"h": 2200.400000000,
"l": 2191.000000000,
"c": 2193.100000000,
"v": 150
},
```

```
{
  "t": "2024-12-20T09:00:00+00:00",
  "o": 2205.000000000,
  "h": 2205.800000000,
  "l": 2198.900000000,
  "c": 2200.500000000,
  "v": 56
},
```

```
{
  "t": "2024-12-20T08:00:00+00:00",
  "o": 2207.7,
  "h": 2210.1,
  "l": 2198.1,
  "c": 2204.9,
  "v": 144
}
```

], "success": true, "errorCode": 0, "errorMessage": null }

Error: response status is 401

- [Description](#)
- [Parameters](#)
- [Example Usage](#)
- [Example Request](#)
- [Example Response](#)

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## Search for Contracts | ProjectX API Documentation

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API URL: `/api/Contract/search`

: <https://gateway.docs.projectx.com/docs/api-reference/market-data/search-contracts>

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## Search for Contracts

---

**API URL** : POST <https://gateway-api-demo.s2f.projectx.com/api/Contract/search> **API Reference** : [/api/contract/search](#)

### Description

---

Search for contracts.

### Parameters

---

--	--	--	--	--

Name	Type	Description	Required	Nullable
searchText	string	The name of the contract to search for.	Required	false
live	boolean	Whether to search for contracts using the sim/live data subscription.	Required	false

## Example Usage

### Example Request

- cURL Request

```
curl -X 'POST' \ 'https://gateway-api-demo.s2f.projectx.com/api/Contract/search' \ -H 'accept: text/plain' \ -H 'Content-Type: application/json' \
```

```
-d '{
  "live": false,
  "searchText": "NQ"
}'
```

### Example Response

- Success
- Error

```
{
  "contracts": [ { "id": "CON.F.US.ENQ.H25", "name": "ENQH25", "description": "E-mini NASDAQ-100: March 2025",
    "tickSize": 0.25,
    "tickValue": 5,
    "activeContract": true
  },
```

```
{
  "id": "CON.F.US.MNQ.H25",
  "name": "MNQH25",
  "description": "Micro E-mini Nasdaq-100: March 2025",
  "tickSize": 0.25,
  "tickValue": 0.5,
  "activeContract": true
},
```

```
{
  "id": "CON.F.US.NQG.G25",
  "name": "NQGG25",
  "description": "E-Mini Natural Gas: February 2025",
  "tickSize": 0.005,
  "tickValue": 12.5,
  "activeContract": true
},
```

```
{
  "id": "CON.F.US.NQM.G25",
  "name": "NQMG25",
  "description": "E-Mini Crude Oil: February 2025",
  "tickSize": 0.025,
  "tickValue": 12.5,
  "activeContract": true
}
```

```
], "success": true, "errorCode": 0, "errorMessage": null }
```

Error: response status is 401

- [Description](#)
- [Parameters](#)
- [Example Usage](#)
- [Example Request](#)
- [Example Response](#)

---

## Search for Contract by Id | ProjectX API Documentation

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API URL: `/api/Contract/searchById`

: <https://gateway.docs.projectx.com/docs/api-reference/market-data/search-contracts-by-id>

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### Search for Contract by Id

---

**API URL** : POST <https://gateway-api-demo.s2f.projectx.com/api/Contract/searchById> **API Reference** : [/api/contract/searchbyid](#)

---

#### Description

---

Search for contracts.

---

#### Parameters

---

Name	Type	Description	Required	Nullable
contractId	string	The id of the contract to search for.	Required	false

---

#### Example Usage

---

---

##### Example Request

- cURL Request

```
curl -X 'POST' \ 'https://gateway-api-demo.s2f.projectx.com/api/Contract/searchById' \ -H 'accept: text/plain' \ -H 'Content-Type: application/json' \
```

```
-d '{  
  "contractId": "CON.F.US.ENQ.H25"  
}'
```

---

##### Example Response

- Success
- Error

```
{
  "contracts": [ { "id": "CON.F.US.ENQ.H25", "name": "ENQH25", "description": "E-mini NASDAQ-100: March 2025",
    "tickSize": 0.25,
    "tickValue": 5,
    "activeContract": true
  }
}
```

], "success": true, "errorCode": 0, "errorMessage": null }

Error: response status is 401

- [Description](#)
- [Parameters](#)
- [Example Usage](#)
- [Example Request](#)
- [Example Response](#)

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## Cancel an Order | ProjectX API Documentation

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API URL: */api/Order/cancel*

: *https://gateway.docs.projectx.com/docs/api-reference/order/order-cancel*

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---

### Cancel an Order

---

**API URL** : POST <https://gateway-api-demo.s2f.projectx.com/api/Order/cancel> **API Reference** : </api/order/cancel>

---

#### Description

---

Cancel an order.

---

#### Parameters

---

Name	Type	Description	Required	Nullable
accountId	integer	The account ID.	Required	false
orderId	integer	The order id.	Required	false

---

#### Example Usage

---

---

##### Example Request

- cURL Request

```
curl -X 'POST' \ 'https://gateway-api-demo.s2f.projectx.com/api/Order/cancel' \ -H 'accept: text/plain' \ -H 'Content-Type: application/json' \
```



```
-d '{
  "accountId": 465,
  "orderId": 26974
}'
```

### Example Response

- Success
- Error

```
{
  "success": true,
  "errorCode": 0,
  "errorMessage": null
}
```

Error: response status is 401

- [Description](#)
- [Parameters](#)
- [Example Usage](#)
- [Example Request](#)
- [Example Response](#)

## Modify an Order | ProjectX API Documentation

API URL: `/api/Order/modify`

: <https://gateway.docs.projectx.com/docs/api-reference/order/order-modify>

On this page

## Modify an Order

**API URL** : POST <https://gateway-api-demo.s2f.projectx.com/api/Order/modify> **API Reference** : [/api/order/modify](#)

### Description

Modify an open order.

### Parameters

Name	Type	Description	Required	Nullable
accountId	integer	The account ID.	Required	false
orderId	integer	The order id.	Required	false
size	integer	The size of the order.	Optional	true
limitPrice	decimal	The limit price for the order, if applicable.	Optional	true
stopPrice	decimal		Optional	true

		The stop price for the order, if applicable.		
trailPrice	decimal	The trail price for the order, if applicable.	Optional	true

## Example Usage

### Example Request

- cURL Request

curl -X 'POST' \ 'https://gateway-api-demo.s2f.projectx.com/api/Order/modify' \ -H 'accept: text/plain' \ -H 'Content-Type: application/json' \

```
-d '{
  "accountId": 465,
  "orderId": 26974,
  "size": 1,
  "limitPrice": null,
  "stopPrice": 1604,
  "trailPrice": null
}'
```

### Example Response

- Success
- Error

```
{
  "success": true,
  "errorCode": 0,
  "errorMessage": null
}
```

Error: response status is 401

- [Description](#)
- [Parameters](#)
- [Example Usage](#)
- [Example Request](#)
- [Example Response](#)

## Place an Order | ProjectX API Documentation

API URL: `/api/Order/place`

: `https://gateway.docs.projectx.com/docs/api-reference/order/order-place`

On this page

## Place an Order

API URL : POST `https://gateway-api-demo.s2f.projectx.com/api/Order/place` API Reference : [/api/order/place](#)

## Description

Place an order.

## Parameters

Name	Type	Description	Required	Nullable
accountId	integer	The account ID.	Required	false
contractId	string	The contract ID.	Required	false
type	integer	The order type:		
1 = Limit				
2 = Market				
4 = Stop				
5 = TrailingStop				
6 = JoinBid				
7 = JoinAsk	Required	false		
side	integer	The side of the order:		
0 = Bid (buy)				
1 = Ask (sell)	Required	false		
size	integer	The size of the order.	Required	false
limitPrice	decimal	The limit price for the order, if applicable.	Optional	true
stopPrice	decimal	The stop price for the order, if applicable.	Optional	true
trailPrice	decimal	The trail price for the order, if applicable.	Optional	true
customTag	string	An optional custom tag for the order.	Optional	true
linkedOrderId	integer	The linked order id.	Optional	true

## Example Usage

### Example Request

- cURL Request

```
curl -X 'POST' \ 'https://gateway-api-demo.s2f.projectx.com/api/Order/place' \ -H 'accept: text/plain' \ -H 'Content-Type: application/json' \
```

```
-d '{
  "accountId": 465,
  "contractId": "CON.F.US.DA6.M25",
  "type": 2,
```

```
"side": 1,
"size": 1,
"limitPrice": null,
"stopPrice": null,
"trailPrice": null,
"customTag": null,
"linkedOrderId": null
}'
```

### Example Response

- Success
- Error

```
{
  "orderId": 9056,
  "success": true,
  "errorCode": 0,
  "errorMessage": null
}
```

Error: response status is 401

- [Description](#)
- [Parameters](#)
- [Example Usage](#)
- [Example Request](#)
- [Example Response](#)

## Search for Orders | ProjectX API Documentation

API URL: `/api/Order/search`

: <https://gateway.docs.projectx.com/docs/api-reference/order/order-search>

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## Search for Orders

**API URL** : POST <https://gateway-api-demo.s2f.projectx.com/api/Order/search> **API Reference** : [/api/order/search](#)

### Description

Search for orders.

### Parameters

Name	Type	Description	Required	Nullable
accountId	integer	The account ID.	Required	false
startTimestamp	datetime	The start of the timestamp filter.	Required	false
endTimestamp	datetime	The end of the timestamp filter.	Optional	true

---

## Example Usage

---

### Example Request

- cURL Request

curl -X 'POST' \ 'https://gateway-api-demo.s2f.projectx.com/api/Order/search' \ -H 'accept: text/plain' \ -H 'Content-Type: application/json' \

```
-d '{
  "accountId": 202,
  "startTimestamp": "2024-12-30T16:48:16.003Z",
  "endTimestamp": "2025-12-30T16:48:16.003Z"
}'
```

### Example Response

- Success
- Error

```
{
  "orders": [ { "id": 26060, "accountId": 545, "contractId": "CON.F.US.EP.M25",
    "creationTimestamp": "2025-04-14T17:49:10.142532+00:00",
    "updateTimestamp": null,
    "status": 2,
    "type": 2,
    "side": 0,
    "size": 1,
    "limitPrice": null,
    "stopPrice": null
  },
```

```
{
  "id": 26062,
  "accountId": 545,
  "contractId": "CON.F.US.EP.M25",
  "creationTimestamp": "2025-04-14T17:49:53.043234+00:00",
  "updateTimestamp": null,
  "status": 2,
  "type": 2,
  "side": 1,
  "size": 1,
  "limitPrice": null,
  "stopPrice": null
}
```

```
], "success": true, "errorCode": 0, "errorMessage": null }
```

Error: response status is 401

- [Description](#)
- [Parameters](#)
- [Example Usage](#)
- [Example Request](#)
- [Example Response](#)

---

## Search for Open Orders | ProjectX API Documentation

---

API URL: /api/Order/searchOpen

: <https://gateway.docs.projectx.com/docs/api-reference/order/order-search-open>

On this page

# Search for Open Orders

**API URL** : POST <https://gateway-api-demo.s2f.projectx.com/api/Order/searchOpen> **API Reference** : [/api/order/searchopen](#)

## Description

Search for open orders.

## Parameters

Name	Type	Description	Required	Nullable
accountId	integer	The account ID.	Required	false

## Example Usage

### Example Request

- cURL Request

```
curl -X 'POST' \ 'https://gateway-api-demo.s2f.projectx.com/api/Order/search' \ -H 'accept: text/plain' \ -H 'Content-Type: application/json' \
```

```
-d '{
  "accountId": 212
}'
```

### Example Response

- Success
- Error

```
{
  "orders": [ { "id": 26970, "accountId": 212, "contractId": "CON.F.US.EP.M25",
    "creationTimestamp": "2025-04-21T19:45:52.105808+00:00",
    "updateTimestamp": "2025-04-21T19:45:52.105808+00:00",
    "status": 1,
    "type": 4,
    "side": 1,
    "size": 1,
    "limitPrice": null,
    "stopPrice": 5138.0000000000
  }
]
```

```
], "success": true, "errorCode": 0, "errorMessage": null }
```

Error: response status is 401

- [Description](#)
- [Parameters](#)
- [Example Usage](#)
- [Example Request](#)
- [Example Response](#)

## Close Positions | ProjectX API Documentation

API URL: `/api/Position/closeContract`

: <https://gateway.docs.projectx.com/docs/api-reference/positions/close-positions>

On this page

### Close Positions

**API URL** : POST <https://gateway-api-demo.s2f.projectx.com/api/Position/closeContract> **API Reference** : [/api/position/closeContract](#)

#### Description

Close a position.

#### Parameters

Name	Type	Description	Required	Nullable
accountId	integer	The account ID.	Required	false
contractId	string	The contract ID.	Required	false

#### Example Usage

##### Example Request

- cURL Request

```
curl -X 'POST' \ 'https://gateway-api-demo.s2f.projectx.com/api/Position/partialCloseContract' \ -H 'accept: text/plain' \ -H 'Content-Type: application/json' \
```

```
-d '{
  "accountId": 536,
  "contractId": "CON.F.US.GMET.J25",
  "size": 1
}'
```

##### Example Response

- Success

- Error

```
{
  "success": true,
  "errorCode": 0,
  "errorMessage": null
}
```

Error: response status is 401

- [Description](#)
- [Parameters](#)
- [Example Usage](#)
- [Example Request](#)
- [Example Response](#)

---

## Partially Close Positions | ProjectX API Documentation

---

*API URL: /api/Position/partialCloseContract*

*: <https://gateway.docs.projectx.com/docs/api-reference/positions/close-positions-partial>*

On this page

---

## Partially Close Positions

---

**API URL** : POST <https://gateway-api-demo.s2f.projectx.com/api/Position/partialCloseContract> **API Reference** : [/api/position/partialclosecontract](#)

---

### Description

---

Partially close a position.

---

### Parameters

---

Name	Type	Description	Required	Nullable
accountId	integer	The account ID.	Required	false
contractId	string	The contract ID.	Required	false
size	integer	The size to close.	Required	false

---

### Example Usage

---

---

#### Example Request

- cURL Request



curl -X 'POST' \ 'https://gateway-api-demo.s2f.projectx.com/api/Position/closeContract' \ -H 'accept: text/plain' \ -H 'Content-Type: application/json' \

```
-d '{
  "accountId": 536,
  "contractId": "CON.F.US.GMET.J25"
}'
```

Example Response

- Success
- Error

```
{
  "success": true,
  "errorCode": 0,
  "errorMessage": null
}
```

Error: response status is 401

- [Description](#)
- [Parameters](#)
- [Example Usage](#)
- [Example Request](#)
- [Example Response](#)

# Search for Positions | ProjectX API Documentation

API URL: /api/Position/searchOpen  
: https://gateway.docs.projectx.com/docs/api-reference/positions/search-open-positions  
On this page

## Search for Positions

API URL : POST https://gateway-api-demo.s2f.projectx.com/api/Position/searchOpen **API Reference :** [/api/position/searchOpen](#)

### Description

Search for open positions.

### Parameters

Name	Type	Description	Required	Nullable
accountId	integer	The account ID.	Required	false

### Example Usage

---

### Example Request

- cURL Request

curl -X 'POST' \ 'https://gateway-api-demo.s2f.projectx.com/api/Position/searchOpen' \ -H 'accept: text/plain' \ -H 'Content-Type: application/json' \

```
-d '{
  "accountId": 536
}'
```

### Example Response

- Success
- Error

```
{
  "positions": [ { "id": 6124, "accountId": 536, "contractId": "CON.F.US.GMET.J25",
    "creationTimestamp": "2025-04-21T19:52:32.175721+00:00",
    "type": 1,
    "size": 2,
    "averagePrice": 1575.750000000
  }
]
```

], "success": true, "errorCode": 0, "errorMessage": null }

Error: response status is 401

- [Description](#)
  - [Parameters](#)
  - [Example Usage](#)
  - [Example Request](#)
  - [Example Response](#)
- 

## Search for Trades | ProjectX API Documentation

---

API URL: */api/Trade/search*

: *https://gateway.docs.projectx.com/docs/api-reference/trade/trade-search*

On this page

### Search for Trades

---

**API URL** : POST <https://gateway-api-demo.s2f.projectx.com/api/Trade/search> **API Reference** : </api/Trade/search>

#### Description

---

Search for trades from the request parameters.

#### Parameters

---

--	--	--	--	--

Name	Type	Description	Required	Nullable
accountId	integer	The account ID.	Required	false
startTimestamp	datetime	The start of the timestamp filter.	Required	false
endTimestamp	datetime	The end of the timestamp filter.	Optional	true

## Example Usage

### Example Request

- cURL Request

```
curl -X 'POST' \ 'https://gateway-api-demo.s2f.projectx.com/api/Trade/search' \ -H 'accept: text/plain' \ -H 'Content-Type: application/json' \
```

```
-d '{
  "accountId": 203,
  "startTimestamp": "2025-01-20T15:47:39.882Z",
  "endTimestamp": "2025-01-30T15:47:39.882Z"
}'
```

### Example Response

- Success
- Error

```
{
  "trades": [ { "id": 8604, "accountId": 203, "contractId": "CON.F.US.EP.H25",
    "creationTimestamp": "2025-01-21T16:13:52.523293+00:00",
    "price": 6065.250000000,
    "profitAndLoss": 50.000000000,
    "fees": 1.4000,
    "side": 1,
    "size": 1,
    "voided": false,
    "orderId": 14328
  },
```

```
{
  "id": 8603,
  "accountId": 203,
  "contractId": "CON.F.US.EP.H25",
  "creationTimestamp": "2025-01-21T16:13:04.142302+00:00",
  "price": 6064.250000000,
  "profitAndLoss": null, //a null value indicates a half-turn trade
  "fees": 1.4000,
  "side": 0,
  "size": 1,
  "voided": false,
  "orderId": 14326
}
```

```
], "success": true, "errorCode": 0, "errorMessage": null }
```

Error: response status is 401

- [Description](#)
- [Parameters](#)
- [Example Usage](#)
- [Example Request](#)
- [Example Response](#)

---

## Account | ProjectX API Documentation

---

: <https://gateway.docs.projectx.com/docs/category/account>

İ Search for AccountAPI URL: </api/Account/search>

---

## API Reference | ProjectX API Documentation

---

: <https://gateway.docs.projectx.com/docs/category/api-reference>

İ Account

İ Market Data

İ Orders

İ Positions

İ Trades

---

## Authenticate | ProjectX API Documentation

---

*This section outlines the process of authenticating API requests using JSON Web Tokens.*

: <https://gateway.docs.projectx.com/docs/category/authenticate>

İ **Authenticate (with API key)**We utilize JSON Web Tokens to authenticate all requests sent to the API. This process involves obtaining a session token, which is required for future requests.

---

İ **Authenticate (for authorized applications)**We utilize JSON Web Tokens to authenticate all requests sent to the API.

---

## Getting Started | ProjectX API Documentation

---

*We've designed a very robust API for accessing and managing all aspects of your firm.*

: <https://gateway.docs.projectx.com/docs/category/getting-started>

## İ. Authenticate

---

**İ. Placing Your First Order** This documentation outlines the process for placing your first order using our API. To successfully execute an order, you must have an active trading account associated with your user. Follow the steps below to retrieve your account details, browse available contracts, and place your order.

---

## İ. Connection URLs

---

# Market Data | ProjectX API Documentation

---

*Authorized users have access to order operations, allowing them to search for, modify, place, and cancel orders.*

: <https://gateway.docs.projectx.com/docs/category/market-data>

## İ. Retrieve Bars API URL: /api/History/retrieveBars

---

## İ. Search for Contracts API URL: /api/Contract/search

---

## İ. Search for Contract by Id API URL: /api/Contract/searchById

---

# Orders | ProjectX API Documentation

---

*Authorized users have access to order operations, allowing them to search for, modify, place, and cancel orders.*

: <https://gateway.docs.projectx.com/docs/category/orders>

## İ. Search for Orders API URL: /api/Order/search

---

## İ. Search for Open Orders API URL: /api/Order/searchOpen

---

## İ. Place an Order API URL: /api/Order/place

---

## İ. Cancel an Order API URL: /api/Order/cancel

---

## İ. Modify an Order API URL: /api/Order/modify

---

## Positions | ProjectX API Documentation

---

*Authorized users have access to position operations, allowing them to search for, and close positions.*

: <https://gateway.docs.projectx.com/docs/category/positions>

İ [Close Positions](#)API URL: </api/Position/closeContract>

---

İ [Partially Close Positions](#)API URL: </api/Position/partialCloseContract>

---

İ [Search for Positions](#)API URL: </api/Position/searchOpen>

---

## Realtime Updates | ProjectX API Documentation

---

*Realtime Updates for various events*

: <https://gateway.docs.projectx.com/docs/category/realtime-updates>

İ [Real Time Data Overview](#)The ProjectX Real Time API utilizes [SignalR library \(via WebSocket\)](#) to provide real-time access to data updates involving accounts, orders, positions, balances and quotes.

---

## Trades | ProjectX API Documentation

---

*Authorized users have access to trade operations, allowing them to search for trades.*

: <https://gateway.docs.projectx.com/docs/category/trades>

İ [Search for Trades](#)API URL: </api/Trade/search>

---

## Authenticate (with API key) | ProjectX API Documentation

---

*We utilize JSON Web Tokens to authenticate all requests sent to the API. This process involves obtaining a session token, which is required for future requests.*

: <https://gateway.docs.projectx.com/docs/getting-started/authenticate/authenticate-api-key>

On this page

**Authenticate (with API key) We utilize JSON Web Tokens to authenticate all requests sent to the API. This process involves obtaining a session token, which is required for future requests.**

---

**Step 1 To begin, ensure you have the following:**

---

- An API key obtained from your firm. If you do not have these credentials, please contact your firm.
- The connection URLs, obtained [here](#).

**Step 2 API Reference: [Login API](#) Create a POST request with your username and API key.**

---

- cURL Request

```
curl -X 'POST' \ 'https://gateway-api-demo.s2f.projectx.com/api/Auth/loginKey' \ -H 'accept: text/plain' \ -H 'Content-Type: application/json' \
```

```
-d '{
  "userName": "string",
  "apiKey": "string"
}'
```

**Step 3 Process the API response, and make sure the result is Success (0), then store your session token in a safe place. This session token will grant full access to the Gateway API.**

---

- Response

```
{
  "token": "your_session_token_here",
  "success": true,
  "errorCode": 0,
  "errorMessage": null
}
```

**Notes All further requests will require you to provide the session token in the "Authorization" HTTP header using the `Bearer` method. Session tokens are only valid for 24 hours. You must revalidate your token to continue using the same session. The next step will explain how to extend / re-validate your session in case your token has expired.**

---

- [Step 1](#)
  - [Step 2](#)
  - [Step 3](#)
  - [Notes](#)
-

# Authenticate (for authorized applications) | ProjectX API Documentation

---

*We utilize JSON Web Tokens to authenticate all requests sent to the API.*

*: <https://gateway.docs.projectx.com/docs/getting-started/authenticate/authenticate-as-application>*

On this page

## Authenticate (for authorized applications) We utilize JSON Web Tokens to authenticate all requests sent to the API.

---

**Step 1 Retrieve the admin credentials (username and password, appId, and verifyKey) that have been provided for your firm. You will need these credentials to authenticate with the API. If you do not have these credentials, please contact your Account Manager for more information.**

---

**Step 2 API Reference: [Login API](#) Create a POST request with your username and password.**

---

- cURL Request

```
curl -X 'POST' \ 'https://gateway-api-demo.s2f.projectx.com/api/Auth/loginApp' \ -H 'accept: text/plain' \ -H 'Content-Type: application/json' \
```

```
-d '{
  "userName": "yourUsername",
  "password": "yourPassword",
  "deviceId": "yourDeviceId",
  "appId": "B76015F2-04D3-477E-9191-C5E22CB2C957",
  "verifyKey": "yourVerifyKey"
}'
```

**Step 3 Process the API response, and make sure the result is Success (0), then store your session token in a safe place. This session token will grant full access to the Gateway API.**

---

- Response

```
{
  "token": "your_session_token_here",
  "success": true,
  "errorCode": 0,
  "errorMessage": null
}
```



**Notes** All further requests will require you to provide the session token in the "Authorization" HTTP header using the `Bearer` method. Session tokens are only valid for 24 hours. You must revalidate your token to continue using the same session. The next step will explain how to extend / re-validate your session in case your token has expired.

---

- [Step 1](#)
  - [Step 2](#)
  - [Step 3](#)
  - [Notes](#)
- 

## Connection URLs | ProjectX API Documentation

---

: <https://gateway.docs.projectx.com/docs/getting-started/connection-urls>

### Connection URLs

---

Select an Environment Select environmentAlpha TicksBlue  
GuardianBluskyE8XFunding FuturesThe Futures DeskFutures  
EliteFXIFY  
FuturesGoatFundedTickTickTraderTopOneFuturesTopstepXTX3Funding

---

## Placing Your First Order | ProjectX API Documentation

---

*This documentation outlines the process for placing your first order using our API. To successfully execute an order, you must have an active trading account associated with your user. Follow the steps below to retrieve your account details, browse available contracts, and place your order.*

: <https://gateway.docs.projectx.com/docs/getting-started/placing-your-first-order>

On this page

**Placing Your First Order** This documentation outlines the process for placing your first order using our API. To successfully execute an order, you must have an active trading account associated

**with your user. Follow the steps below to retrieve your account details, browse available contracts, and place your order.**

---

**Step 1 To initiate the order process, you must first retrieve a list of active accounts linked to your user. This step is essential for confirming your account status before placing an order.**

---

**API URL :** POST <https://gateway-api-demo.s2f.projectx.com/api/account/search> **API Reference :** [/api/account/search](#) \* Request \* Response \* cURL Request

```
{
  "onlyActiveAccounts": true
}
```

```
{
  "accounts": [ { "id": 1, "name": "TEST_ACCOUNT_1", "canTrade": true,
    "isVisible": true
  }
]
```

```
], "success": true, "errorCode": 0, "errorMessage": null }
```

curl -X 'POST' \ 'https://gateway-api-demo.s2f.projectx.com/api/Account/search' \ -H 'accept: text/plain' \ -H 'Content-Type: application/json' \

```
-d '{
  "onlyActiveAccounts": true
}'
```

**Step 2 Once you have identified your active accounts, the next step is to retrieve a list of contracts available for trading. This information will assist you in choosing the appropriate contracts for your order.**

---

**API URL :** POST <https://gateway-api-demo.s2f.projectx.com/api/contract/search> **API Reference :** [/api/contract/search](#) \* Request \* Response \* cURL Request

```
{
  "live": false,
  "searchText": "NQ"
}
```

```
{
  "contracts": [ { "id": "CON.F.US.ENQ.H25", "name": "ENQH25", "description": "E-mini NASDAQ-100: March 2025",
    "tickSize": 0.25,
    "tickValue": 5,
    "activeContract": true
  },

```

```
{
  "id": "CON.F.US.MNQ.H25",
  "name": "MNQH25",
  "description": "Micro E-mini Nasdaq-100: March 2025",
  "tickSize": 0.25,
  "tickValue": 0.5,

```

```
"activeContract": true
},
```

```
{
  "id": "CON.F.US.NQG.G25",
  "name": "NQG25",
  "description": "E-Mini Natural Gas: February 2025",
  "tickSize": 0.005,
  "tickValue": 12.5,
  "activeContract": true
},
```

```
{
  "id": "CON.F.US.NQM.G25",
  "name": "NQM25",
  "description": "E-Mini Crude Oil: February 2025",
  "tickSize": 0.025,
  "tickValue": 12.5,
  "activeContract": true
}
```

```
], "success": true, "errorCode": 0, "errorMessage": null }
```

curl -X 'POST' \ 'https://gateway-api-demo.s2f.projectx.com/api/Contract/search' \ -H 'accept: text/plain' \ -H 'Content-Type: application/json' \

```
-d '{
  "live": false,
  "searchText": "NQ"
}'
```

**Final Step** Having noted your account ID and the selected contract ID, you are now ready to place your order. Ensure that you provide accurate details to facilitate a successful transaction.

**API URL** : POST https://gateway-api-demo.s2f.projectx.com/api/order/place **API Reference** : [/api/order/place](#)

**Parameters**

Name	Type	Description	Required	Nullable
------	------	-------------	----------	----------

accountId	integer	The account ID.	Required	false
contractId	string	The contract ID.	Required	false
type	integer	The order type: 1 = Limit 2 = Market 4 = Stop 5 = TrailingStop 6 = JoinBid 7 = JoinAsk	Required	false
side	integer	The side of the order: 0 = Bid (buy) 1 = Ask (sell)	Required	false
size	integer	The size of the order.	Required	false
limitPrice	decimal	The limit price for the order, if applicable.	Optional	true
stopPrice	decimal	The stop price for the order, if applicable.	Optional	true
trailPrice	decimal	The trail price for the order, if applicable.	Optional	true
customTag	string	An optional custom tag for the order.	Optional	true
linkedOrderId	integer	The linked order id.	Optional	true

\* Request \* Response \* cURL Request

```
{
  "accountId": 1,
  "contractId": "CON.F.US.DA6.M25",
  "type": 2,
  "side": 1,
  "size": 1,
  "limitPrice": null,
  "stopPrice": null,
  "trailPrice": null,
  "customTag": null,
  "linkedOrderId": null
}
```

```
{
  "orderId": 9056,
  "success": true,
  "errorCode": 0,
}
```

```
"errorMessage": null
}
```

```
curl -X 'POST' \ 'https://gateway-api-demo.s2f.projectx.com/api/Order/place' \ -H 'accept: text/plain' \ -H 'Content-Type: application/json' \
```

```
-d '{
  "accountId": 1,
  "contractId": "CON.F.US.DA6.M25",
  "type": 2,
  "side": 1,
  "size": 1,
  "limitPrice": null,
  "stopPrice": null,
  "trailPrice": null,
  "customTag": null,
  "linkedOrderId": null
}'
```

- [Step 1](#)
- [Step 2](#)
- [Final Step](#)
- [Parameters](#)

---

## ProjectX Gateway API | ProjectX API Documentation

---

### *Getting Started*

: <https://gateway.docs.projectx.com/docs/intro>

On this page

---

## ProjectX Gateway API

---

**Getting Started ProjectX Trading, LLC - through its trading platform [ProjectX](#) , offers a complete end-to-end solution for prop firms and evaluation providers. These features include account customization, risk rules & monitoring, liquidations, statistics and robust permissioning. Our API utilizes the REST API architecture for managing your prop firm trader operations.**

---

### **What you'll need**

- An understanding of REST API
  - cURL or Postman for making sample requests
  - [Getting Started](#)
  - [What you'll need](#)
- 

---

## Real Time Data Overview | ProjectX API

# Documentation

---

*The ProjectX Real Time API utilizes SignalR library (via WebSocket) to provide real-time access to data updates involving accounts, orders, positions, balances and quotes.*

: <https://gateway.docs.projectx.com/docs/realtime>

On this page

**Real Time Data Overview** The ProjectX Real Time API utilizes SignalR library (via WebSocket) to provide real-time access to data updates involving accounts, orders, positions, balances and quotes. There are two hubs: user and market.

---

- The user hub will provide real-time updates to a user's accounts, orders, and positions.
- The market hub will provide market data such as market trade events, DOM events, etc.

**What is SignalR?** SignalR is a real-time web application framework developed by Microsoft that simplifies the process of adding real-time functionality to web applications. It allows for bidirectional communication between clients (such as web browsers) and servers, enabling features like live chat, notifications, and real-time updates without the need for constant client-side polling or manual handling of connections. SignalR abstracts away the complexities of real-time communication by providing high-level APIs for developers. It supports various transport protocols, including WebSockets, Server-Sent Events (SSE), Long Polling, and others, automatically selecting the most appropriate transport mechanism based on the capabilities of the client and server. The framework handles connection management, message routing, and scaling across multiple servers, making it easier for developers to build scalable and responsive web applications. SignalR is available for multiple platforms, including .NET and JavaScript, allowing developers to build real-time applications using their preferred programming languages and frameworks.

---

Further information on SignalR can be found [here](#).

## Example Usage

---

- User Hub

- Market Hub

```
// Import the necessary modules from @microsoft/signalr const { HubConnectionBuilder, HttpTransportType } =  
require('@microsoft/signalr');
```

```
// Function to set up and start the SignalR connection
```

```
function setupSignalRConnection() {  
  const JWT_TOKEN = 'your_bearer_token';  
  const SELECTED_ACCOUNT_ID = 123; //your currently selected/visible account ID  
  const userHubUrl = 'https://gateway-rtc-demo.s2f.projectx.com/hubs/user?access_token=' + JWT_TOKEN;  
  
  // Create the connection  
  const rtcConnection = new HubConnectionBuilder()  
    .withUrl(userHubUrl, {  
      skipNegotiation: true,  
      transport: HttpTransportType.WebSockets,  
      accessTokenFactory: () => JWT_TOKEN, // Replace with your current JWT token  
      timeout: 10000 // Optional timeout  
    })
```

```
.withAutomaticReconnect().build();
```

```
// Start the connection rtcConnection.start()
```

```
.then(() => {  
  // Function to subscribe to the necessary events  
  const subscribe = () => {  
    rtcConnection.invoke('SubscribeAccounts');  
    rtcConnection.invoke('SubscribeOrders', SELECTED_ACCOUNT_ID); //you can call this function multiple times with differen  
    rtcConnection.invoke('SubscribePositions', SELECTED_ACCOUNT_ID); //you can call this function multiple times with diffe  
    rtcConnection.invoke('SubscribeTrades', SELECTED_ACCOUNT_ID); //you can call this function multiple times with differen  
  };
```

```
// Functions to unsubscribe, if needed
```

```
const unsubscribe = () => {  
  rtcConnection.invoke('UnsubscribeAccounts');  
  rtcConnection.invoke('UnsubscribeOrders', SELECTED_ACCOUNT_ID); //you can call this function multiple times with differ  
  rtcConnection.invoke('UnsubscribePositions', SELECTED_ACCOUNT_ID); //you can call this function multiple times with dif  
  rtcConnection.invoke('UnsubscribeTrades', SELECTED_ACCOUNT_ID); //you can call this function multiple times with differ  
  
};
```

```
// Set up the event listeners
```

```
rtcConnection.on('GatewayUserAccount', (data) => {  
  console.log('Received account update', data);  
});
```

```
rtcConnection.on('GatewayUserOrder', (data) => {  
  console.log('Received order update', data);  
});
```

```
rtcConnection.on('GatewayUserPosition', (data) => {  
  console.log('Received position update', data);  
});
```

```
rtcConnection.on('GatewayUserTrade', (data) => {  
  console.log('Received trade update', data);  
});
```

```
// Subscribe to the events subscribe();
```

```
// Handle reconnection
```

```
    rtcConnection.onreconnected((connectionId) => {
    console.log('RTC Connection Reconnected');
    subscribe();
    });
```

```
  })
```

```
    .catch((err) => {
    console.error('Error starting connection:', err);
    });
```

```
  } // Call the function to set up and start the connection setupSignalRConnection();
```

```
// Import the necessary modules from @microsoft/signalr const { HubConnectionBuilder, HttpTransportType } =
require('@microsoft/signalr');
```

```
// Function to set up and start the SignalR connection
```

```
function setupSignalRConnection() {
const JWT_TOKEN = 'your_bearer_token';
const marketHubUrl = 'https://gateway-rtc-demo.s2f.projectx.com/hubs/market?access_token=' + JWT_TOKEN;
const CONTRACT_ID = 'CON.F.US.RTY.H25'; // Example contract ID

// Create the connection
const rtcConnection = new HubConnectionBuilder()
.withUrl(marketHubUrl, {
skipNegotiation: true,
transport: HttpTransportType.WebSockets,
accessTokenFactory: () => JWT_TOKEN, // Replace with your current JWT token
timeout: 10000 // Optional timeout
})
```

```
.withAutomaticReconnect().build();
```

```
// Start the connection rtcConnection.start()
```

```
    .then(() => {
    // Function to subscribe to the necessary events
    const subscribe = () => {
    rtcConnection.invoke('SubscribeContractQuotes', CONTRACT_ID);
    rtcConnection.invoke('SubscribeContractTrades', CONTRACT_ID);
    rtcConnection.invoke('SubscribeContractMarketDepth', CONTRACT_ID);
    };
```

```
// Functions to unsubscribe, if needed
```

```
const unsubscribe = () => {
rtcConnection.invoke('UnsubscribeContractQuotes', CONTRACT_ID);
rtcConnection.invoke('UnsubscribeContractTrades', CONTRACT_ID);
rtcConnection.invoke('UnsubscribeContractMarketDepth', CONTRACT_ID);
};
```

```
// Set up the event listeners
```

```
    rtcConnection.on('GatewayQuote', (contractId, data) => {
    console.log('Received market quote data', data);
    });
```

```
    rtcConnection.on('GatewayTrade', (contractId, data) => {
    console.log('Received market trade data', data);
    });
```

```
    rtcConnection.on('GatewayDepth', (contractId, data) => {
    console.log('Received market depth data', data);
    });
```

```
// Subscribe to the events subscribe();
```

```
// Handle reconnection
```

```
    rtcConnection.onreconnected((connectionId) => {  
      console.log('RTC Connection Reconnected');  
      subscribe();  
    });
```

```
  })
```

```
    .catch((err) => {  
      console.error('Error starting connection:', err);  
    });
```

```
} // Call the function to set up and start the connection setupSignalRConnection();
```

- [What is SignalR?](#)
- [Example Usage](#)