



Tradility

Manual

Tradility

Requirements:

- An account of Interactive Brokers
- Market Data Subscription for Historical Data
- Trader Workstation (TWS)

Tradility uses two main data sources:

1. Connection to TWS: Access to the present positions of the brokerage account.
2. Activity Statement: Historical positions (trades) can be loaded from the Activity Statement

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Manual

Establish a Connection

Configure the TWS-API

If you have started a Trader Workstation, please open the menu 'Global Configuration'. You can reach this menu on two ways which will be shown in the following figures 1 and 2.



Figure 1: Access the configuration menu via the icon.



Figure 2: Access the configuration menu via the menu section.

Please set the following values:

- Activate ActiveX- and Socket-Clients.
- Socket Port: Please note the number that is given in TWS for later usage in the configuration of Tradtility. If you should use several TWS instances, please make sure that each instance has its own free port. **Normally**, the port assigned to a paper trading account is 7497 while 7496 is assigned, normally, to a 'real' account.

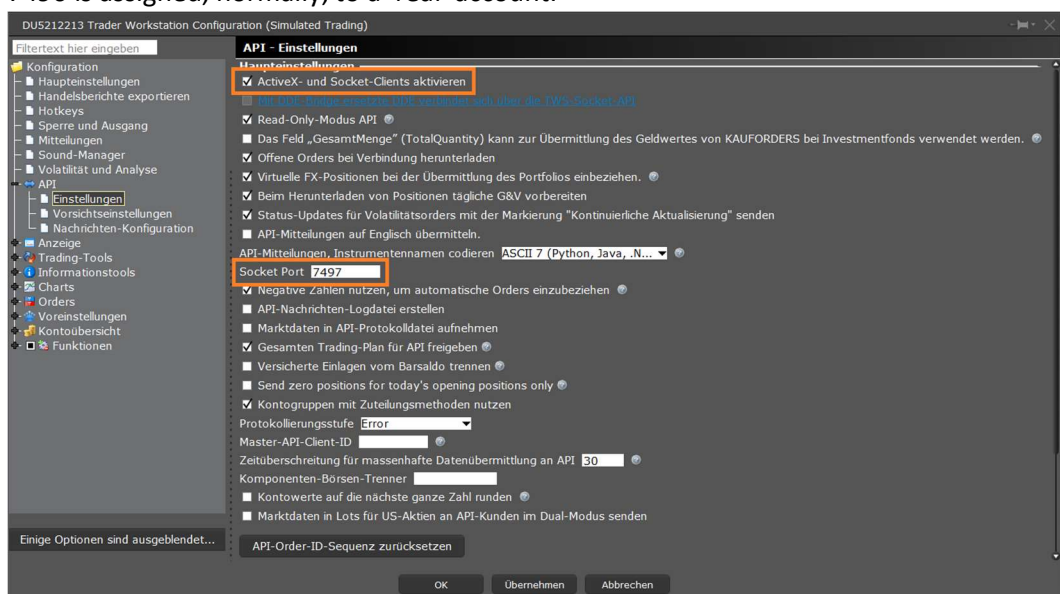


Figure 3: Change the settings of the API.

Configuration of the Connection Parameters in Tradility

Open the general settings of Tradility (figure 4), and make sure that either the default connection or a connection that you add anew point to the same port that has been defined in the settings of TWS. The host should always be 'localhost', the Client Id may be defined freely (figure 5, figure 6).

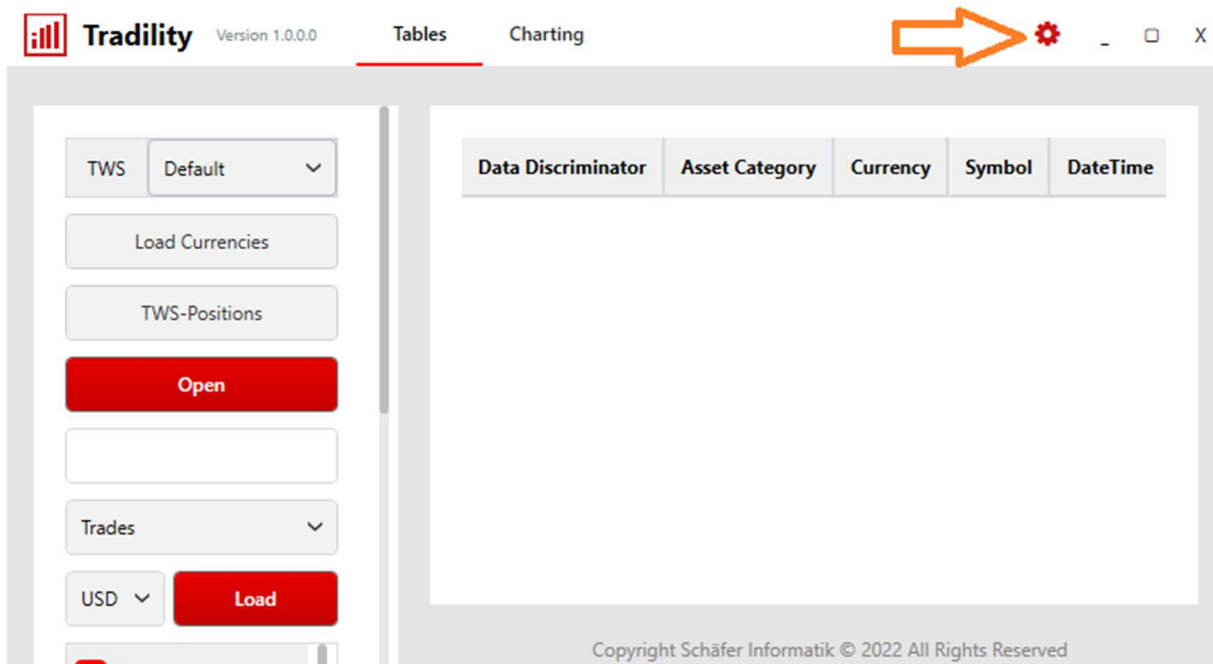


Figure 4: Recently started Tradility with the settings gear.

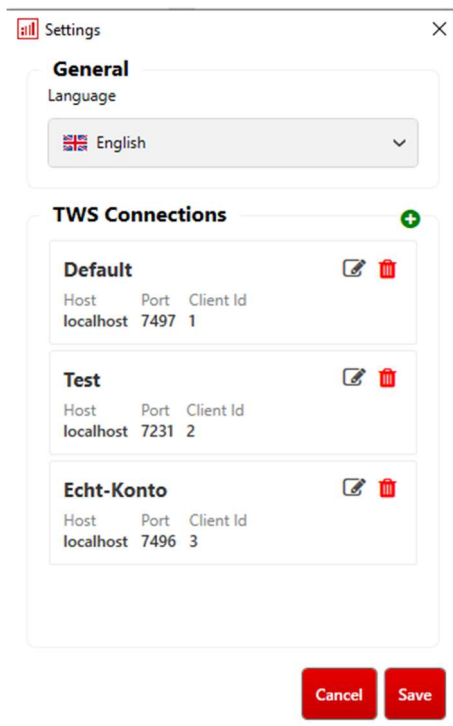


Figure 5: General settings.

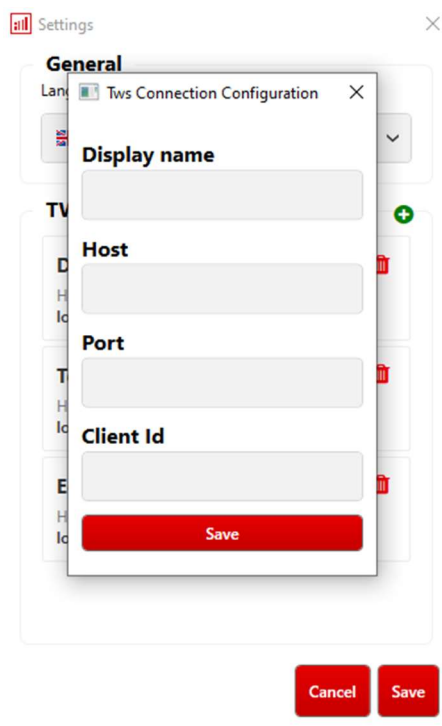


Figure 6: Addition of a new TWS-connection.

Establishment of a connection

If you already have defined connection parameters, or if your settings correspond to the default connection of Tradility to the TWS, select the desired TWS-connection in the drop-down menu 'TWS' (figure 7).

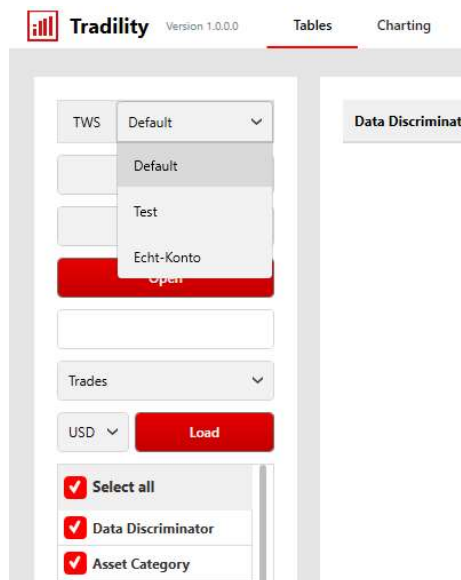


Figure 7: Selection of pre-defined TWS-connections.

By clicking on 'Load Currencies' the exchange rates of the implemented currencies are loaded (figure 8). Currently, the implemented currencies are EUR, GBP, and USD. This click is relevant for the calculated columns. It is advisable to load the currencies already now, for both ways to access trading data (cfr. below). If you forget to load the exchange rates now, this is not a problem; just click 'Load

Currencies' later, when you select the currency in which the calculated columns shall be populated. In this case you would just have to click a button, once again.

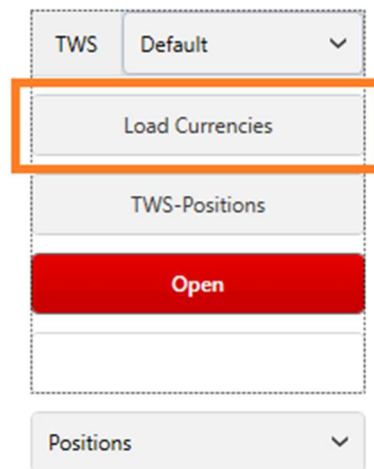


Figure 8: Load currencies.

A green pop-up will inform you about the successful retrieval of currency data; if, by any chance, an error occurs, a red pop up will appear.

Load your Portfolio into Tradility

As already mentioned, there are two ways to load your data into Tradility: you can load your data via a direct connection to TWS, in this case: your portfolio, and you can import the activity statement as a csv file.

Selection of access

Currently, four areas are defined that may be analysed and displayed, three of which work on historical data that are read from the csv. One area works on the data of the currently held portfolio in TWS. Data loaded from a csv file are displayed in the areas 'Cash Report', 'Dividends', and 'Trades'; 'Positions' works based on the data that are delivered via the API (figure 9).

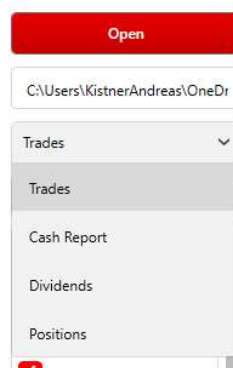


Figure 9: Selection of the area that is to be displayed.

Your Portfolio in TWS

Direct access to your portfolio in triggers a display in Tradility of all the currently held positions (figure 10). Positions that have been closed earlier will not be shown using this approach. To display the currently held positions, please select, if you have not already done so, the necessary TWS (1), load the currencies (2), select 'Positions' from the drop-down menu, and click on 'TWS-Positions' (4).

A green pop-up will inform you about the successful establishment of the connection to TWS; in case of an error, a red pop-up will appear.

The screenshot shows a vertical stack of UI elements. At the top is a dropdown menu with 'TWS' and 'Echt-Konto' selected, labeled with a red '1'. Below it is a 'Load Currencies' button labeled with a red '2'. Then is a 'TWS-Positions' button labeled with a red '4'. Below that is a red 'Open' button. Underneath is an empty text input field. Then is a 'Positions' dropdown menu labeled with a red '3'. Below that is a list of items, each with a red checkmark: 'Select all', 'Contract', 'Account', 'Position', and 'Average Cost'. The list is contained within a larger container that has a light gray header.

Figure 10: Load your current TWS-positions to Tradility.

If you buy a security after you have started Tradility, the security will not be shown in Tradility right away, but all you would have to do is click once again on 'TWS-Positions' (4) to request the present state of your portfolio from TWS for Tradility (figures 11 and 12).

Contract	Position	Average Cost
MC STK EUR @ SBF	50	551.37555
AAPL STK USD @ NASDAQ	10	139.03
NIO STK USD @ NYSE	100	23.85
UBER STK USD @ NYSE	100	37.55
GE STK USD @ NYSE	100	98.8
BA. STK GBP @ LSE	100	6.00774
KA8 STK EUR @ IBIS	100	5.18
PYPL STK USD @ NASDAQ	50	122
RHM STK EUR @ IBIS	100	96.36816
S92 STK EUR @ IBIS	100	29.55
BMW STK EUR @ IBIS	100	93.316635

Figure 11: Portfolio loaded from TWS.

Contract	Position	Average Cost
MC STK EUR @ SBF	50	551.37555
AAPL STK USD @ NASDAQ	10	139.03
NIO STK USD @ NYSE	100	23.85
UBER STK USD @ NYSE	100	37.55
GE STK USD @ NYSE	100	98.8
BA. STK GBP @ LSE	100	6.00774
KA8 STK EUR @ IBIS	100	5.18
PYPL STK USD @ NASDAQ	50	122
RHM STK EUR @ IBIS	150	128.403503
S92 STK EUR @ IBIS	100	29.55
BMW STK EUR @ IBIS	100	93.316635

Figure 12: Re-loaded portfolio after the acquisition of a security.

Trades from the Activity Statement

If, on the other hand, you want to display historical, maybe even closed positions (figure 13), please select the corresponding Activity Statement by clicking on the button 'Open' (1). The Activity Statement needs to be formatted as csv. You can trigger the creation of an Activity Statement in the web-portal of your broker. In the currency-drop-down (2), you may select a currency that shall be the targeted currency for the calculated columns. To load your data into Tradility, please click on 'Load' (3). The currency that you have selected for the calculated columns (2), may be changed as you wish; you just would have to click 'Load' (3) once again, when you changed the currency.

The screenshot shows a vertical stack of controls. At the top is a 'TWS' label and a 'Default' dropdown menu. Below it is a 'Load Currencies' button. Then a 'TWS-Positions' button. A red box labeled '1' highlights the 'Open' button. Below that is a 'Trades' dropdown menu. A red box labeled '2' highlights the 'USD' dropdown menu. A red box labeled '3' highlights the 'Load' button.

Figure 13: Load the Activity Statement into Tradility.

Visualize Data in the Tables-Section

In all sections of Tradility that work with tables, you may select the columns that shall be displayed, and rearrange them via drag and drop. To do this, in the column-selector, you may click on 'Select all', which is the default setting, or you deactivate the columns that you do not want to be displayed. To rearrange the columns, please click, within the column selector, on the entry representing a column and drag it upwards or downwards. This will result in the column being moved either to the left or to the right (figure 14 and 15).

TWS Default ▾

Load Currencies

TWS-Positions

Open

C:\Users\KistnerAndreas\OneDr

Trades ▾

EUR ▾ Load

Select all

☐ Data Discriminator

☐ Asset Category

☒ Currency

☒ Symbol

☒ DateTime

☒ Quantity

☒ T. Price

☒ T. Price [EUR]

Figure 14: Example of two deselected columns.

Currency	Symbol	DateTime	Quantity	T. Price	T. Price [EUR]
EUR	BMWd	2/10/2022 5:53:44 AM	100	93.27 €	93.27 €
EUR	KAS	2/9/2022 8:54:15 AM	100	5.15 €	5.15 €
EUR	RHMD	2/10/2022 8:28:19 AM	100	96.32 €	96.32 €
EUR	S92d	2/8/2022 6:34:35 AM	100	29.52 €	29.52 €
GBP	BA.	2/10/2022 8:27:54 AM	100	£5.95	7.07 €
USD	AAPL	5/19/2022 9:51:45 AM	10	\$138.93	131.89 €
USD	GE	2/10/2022 9:32:54 AM	100	\$98.79	86.39 €
USD	NIO	2/8/2022 10:02:37 AM	100	\$23.84	20.87 €
USD	PYPL	2/8/2022 6:11:24 AM	50	\$121.98	106.79 €
USD	UBER	2/8/2022 10:02:34 AM	100	\$37.54	32.86 €

TWS Default ▾

Load Currencies

TWS-Positions

Open

C:\Users\KistnerAndreas\OneDr

Trades ▾

EUR ▾ Load

Select all

☐ Data Discriminator

☐ Asset Category

☒ Symbol

☒ DateTime

☒ Quantity

☒ Currency

☒ T. Price

☒ T. Price [EUR]

Figure 15: In this example the first columns are now moved.

Symbol	DateTime	Quantity	Currency	T. Price	T. Price [EUR]
BMWd	2/10/2022 5:53:44 AM	100	EUR	93.27 €	93.27 €
KAS	2/9/2022 8:54:15 AM	100	EUR	5.15 €	5.15 €
RHMD	2/10/2022 8:28:19 AM	100	EUR	96.32 €	96.32 €
S92d	2/8/2022 6:34:35 AM	100	EUR	29.52 €	29.52 €
BA.	2/10/2022 8:27:54 AM	100	GBP	£5.95	7.07 €
AAPL	5/19/2022 9:51:45 AM	10	USD	\$138.93	131.89 €
GE	2/10/2022 9:32:54 AM	100	USD	\$98.79	86.39 €
NIO	2/8/2022 10:02:37 AM	100	USD	\$23.84	20.87 €
PYPL	2/8/2022 6:11:24 AM	50	USD	\$121.98	106.79 €
UBER	2/8/2022 10:02:34 AM	100	USD	\$37.54	32.86 €

Visualizing Data in the Charting-Module

In the 'Charting' module, Tradility will display for you the chart for the prices that are relevant for your positions, and, in case of options, also relevant days. The manual drawing of average prices, strike prices, or expiration dates, is not necessary.

As already shown for the Tables-Module, you have the possibility to display current positions from your TWS or historical states on the basis of files. If you have not established a connection or loaded a file, you can do this here as well: Please select in the drop-down menu if you want current positions ('Positions') or historical states ('Trades') to be displayed (figure 16).

TWS Default ▾

Load Currencies

TWS-Positions

Open

Trades ▾

Trades

Positions

Figure 16: Selection of positions for the charting module.

The further procedure resembles the one that we already have seen earlier: By clicking on 'Load Currencies', you load all up-to-date exchange rates, by clicking on 'TWS-Positions', you load data from your TWS; using the buttons 'Open' and 'Load', you load data from a csv file.

TWS	Default	▼
Load Currencies		
TWS-Positions		
Open		
Positions		
▼		
Position	Contract	
50	MC STK EUR @ SBF	
10	AAPL STK USD @ NASDAQ	
100	NIO STK USD @ NYSE	
100	UBER STK USD @ NYSE	
100	GE STK USD @ NYSE	
100	BA. STK GBP @ LSE	
100	KA8 STK EUR @ IBIS	
50	PYPL STK USD @ NASDAQ	
150	RHM STK EUR @ IBIS	
100	S92 STK EUR @ IBIS	
100	BMW STK EUR @ IBIS	

Figure 17: List of positions from your TWS. You may select one of them to display the corresponding chart.

TWS	Default	▼
Load Currencies		
TWS-Positions		
Open		
C:\Users\KistnerAndreas\OneDr		
Trades		
▼		
GBP	▼	Load
Symbol	Price	
BMWd	93,27 €	
KA8	5,15 €	
RHMd	96,32 €	
S92d	29,52 €	
BA.	£5.95	
AAPL	\$138.93	
GE	\$98.79	
NIO	\$23.84	
PYPL	\$121.98	
UBER	\$37.54	

Figure 18: List of positions from an Activity Statement. You may select one of them to display the corresponding chart.

If you click one of the positions, Tradility will display the general information, the chart of the security together with your specific information (average price, strike price, expiration date, ...).



Figure 19: Chart of a stock with average price paid for the acquisition.



Figure 20: Strike prices with expiration date of a bull put spread together with the chart of the underlying stock.



Figure 21: Short put with strike price and expiration date together with the chart of the underlying stock.

Export of Data

Because of the complexity of the detailed Activity Statements, it is difficult to work with these documents in another context. The data that are available in the Activity Statement can be displayed by Tradility in several different categories ('Cash Report', 'Dividends', 'Trades'). You may make each of these displays the basis for an export file. The exported data are basically those available in the Activity Statement but will be saved in the more manageable manner as displayed by Tradility.

Currently, the export is possible in two different csv-formats:

- Choosing 'CSV-EN', you will find the data divided by comma. Numbers will be treated with a decimal point, and dates will be displayed in the US-format. If your Excel is configured for 'English', this export version makes it easier to import the data into your Excel.
- Choosing 'CSV-DE', you will find the data divided by a tabulator. Numbers will be treated with a decimal comma, and dates will be saved in a way that is suitable for an Excel, that is configured as 'German'.
- Excel is to follow in the near future.

To create an export, please click in the tables-module on the drop-down menu and select the desired format (figure 22). Please click then on 'Export'. In the file dialog that is about to open up, you may define the path to the file and the file name. That's all, folks.



Figure 22: Selection of a possible file format for the export.

New to TWS?

If you are new to TWS, you might wonder how to get the files that may be displayed in Tradility: You may create the on two ways.

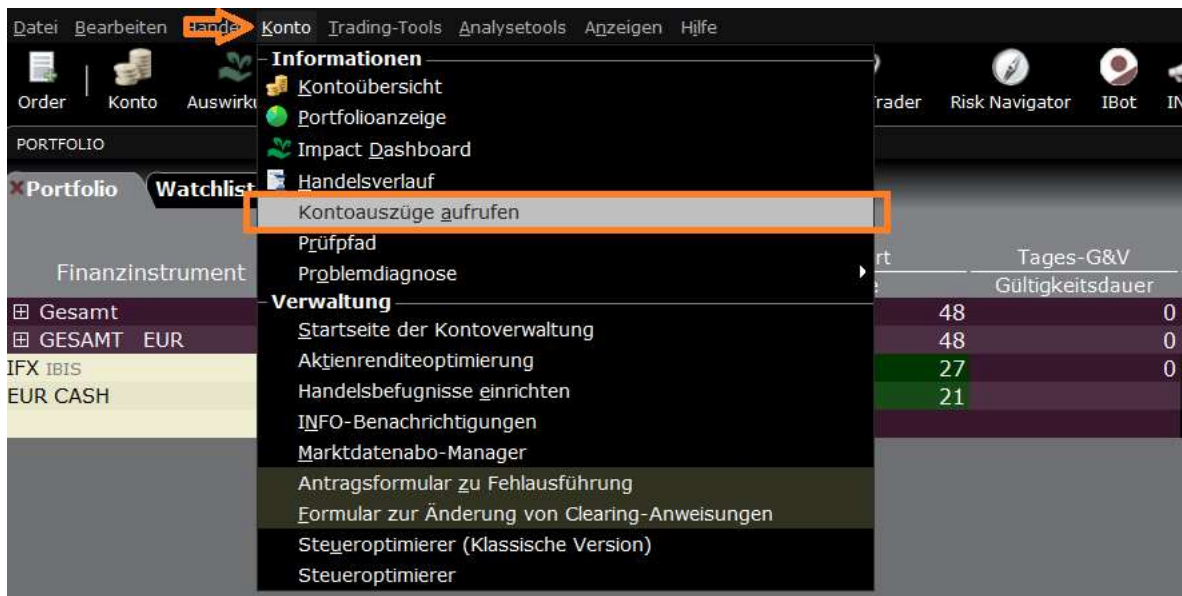


Figure 23: Creation of an Activity Statement.

Under 'Account' you select Im Reiter 'Konto' wählen Sie 'Kontoauszüge aufrufen' aus. Von dort you will be forwarded to your account at Interactive Brokers. In the window of Interactive Brokers, please click on 'Performance & Reports' (figure 24).

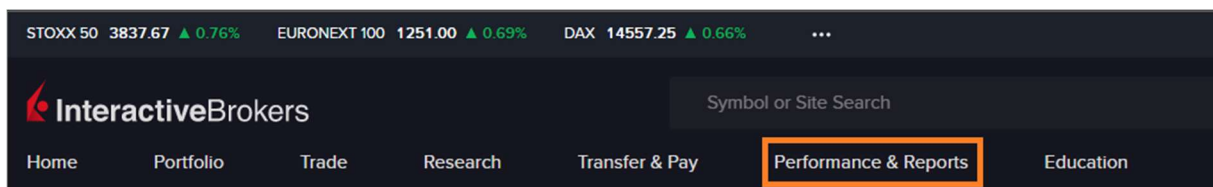


Figure 24: Performance & Reports.

Next, a menu will open up (figure 25). Please select 'Statements':

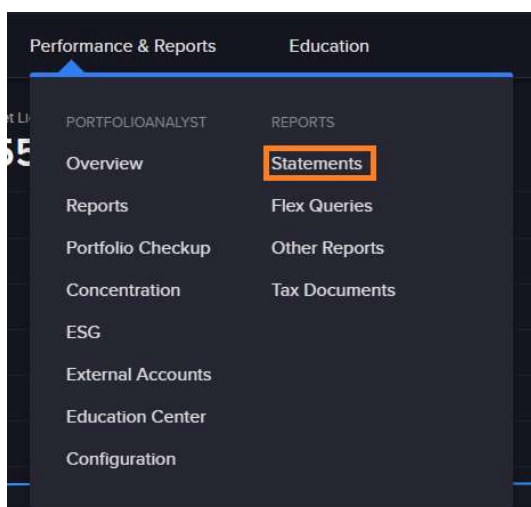
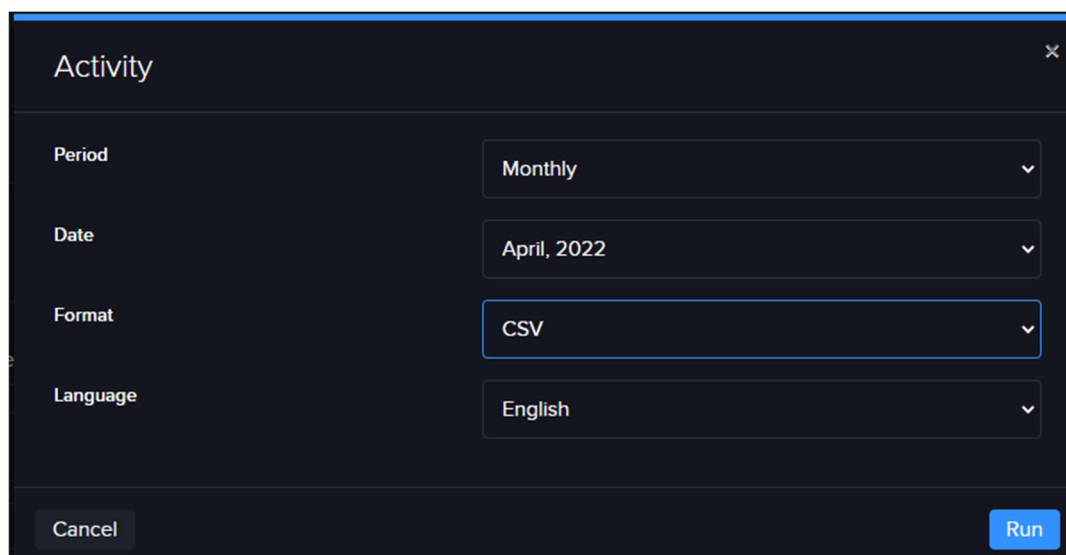


Figure 25: Possible analyses and reports.

Among the possible statements, please select 'Activity'. In the following window (figure 26) you might set the preferences as follows (of course: the whole period and especially the precise month is up your discretion).

A dark-themed window titled "Activity" with a close button (X) in the top right corner. The window contains four settings, each with a label on the left and a dropdown menu on the right: "Period" set to "Monthly", "Date" set to "April, 2022", "Format" set to "CSV", and "Language" set to "English". At the bottom left is a "Cancel" button, and at the bottom right is a blue "Run" button.

Setting	Value
Period	Monthly
Date	April, 2022
Format	CSV
Language	English

Figure 26: Settings for Activity Statement.