EURUSD

SWISSQUOTE SQORE

USER GUIDE

sqore.swissquote.com

OILUSD

USDJPY

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SWISSQUOTE
THE SWISS LEADER IN ONLINE BANKING

TABLE OF CONTENTS

Swissquote SQORE User Guide

I. INTRODUCTION

A groundbreaking portal offering institutional-quality trade ideas free of charge to all traders.

Swissquote SQORE is an innovative and user-friendly platform where traders can find trading models covering the most important asset classes, such as G10 and EM currencies, commodities and equity indices.

Trade ideas are generated using several different investment models based on the latest quantitative algorithms. These features were made possible by the collaborative work of professional traders, quantitative analysts and programmers. Each model combines mathematical and statistical techniques that power the quantitative algorithms.

Although its algorithmic models are rather sophisticated, Swissquote SQORE's simple web-based interface is accessible to novices. The interface is divided into four main areas: a «Models» tab offering a wealth of information, a description of the methods and key statistics; a «Trades» tab, where you'll find all the trade ideas from all the available models; a «Dashboard» tab, where the trade ideas selected by the user are tracked and a customised portfolio is created, replicating the trade ideas and models for monitoring potential returns; a Sent Trades tab, listing all the trades sent to your execution venue.

The philosophy of Swissquote SQORE is to provide only institutional quality trading ideas, corresponding statistical data and model description. We purposely left out other decision making tools such as newsfeed, analysis, charts which users can find elsewhere on the Swissquote website and trading platforms. With the resulting clarity and transparency, Swissquote SQORE is an excellent unbiased alternative to the anonymous trade ideas published on social networks.

II. TECHNICAL INFORMATION

1. Technical requirements

Swissquote SQORE is a Web platform which you can easily access from any computer with an internet connection. There is no software to download and the platform works most popular browsers (Firefox, Chrome, Explorer) and operating systems, including Apple®, Windows® and GNU/Linux. Swissquote SQORE has also been configured to work on mobile devices.

2. Trade Model Development

Currently Swissquote develops all the models internally utilizing the experience of the Strategy Desk and Quantitative Asset Management Department. Unlike many peer to peer or social trading communities, users know exactly where each model comes from. We combine trading methodologies from banks, financial firms and academia, then bring in our own understanding of how markets function in order to start the algorithmic development process.

Framework	Methodology	Analysis	
Creating the IT infrastructure and collecting data for backtesting →	Starting with a basic market theory, then researching techniques to capture its concept →	The model is built and backtested with our proprietary framework. It is then optimized based on the results →	Release

We are constantly researching new theories to build into models. Then launching ones that we believe will be profitable in the long term.

3. Price Feeds

Swissquote SQORE data is powered by Swissquote's proprietary prices via FIX API from Advanced trader.

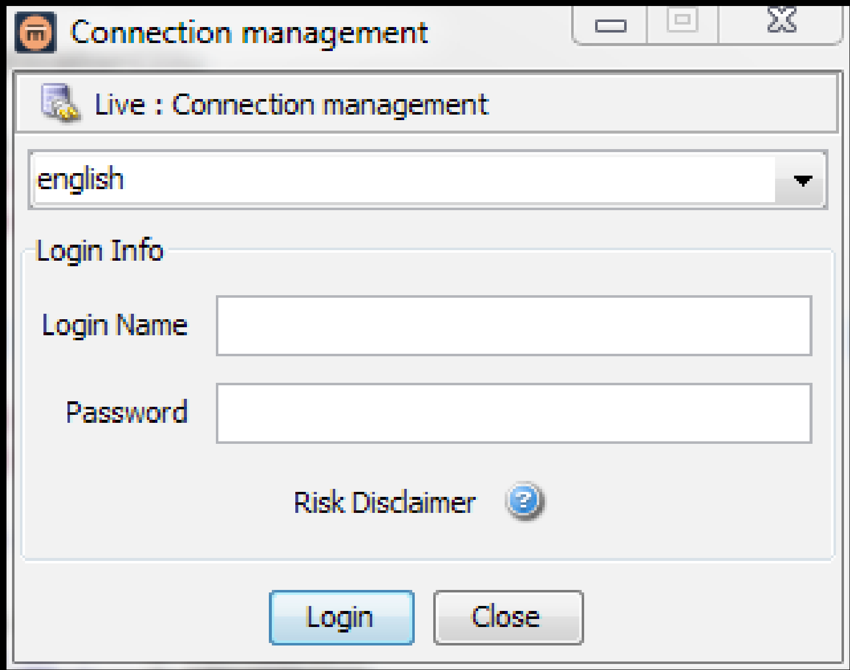
4. Linking Advanced Trader to SQORE & Sending Trades

Linking allows SQORE trade ideas to be sent to your trading account for execution.

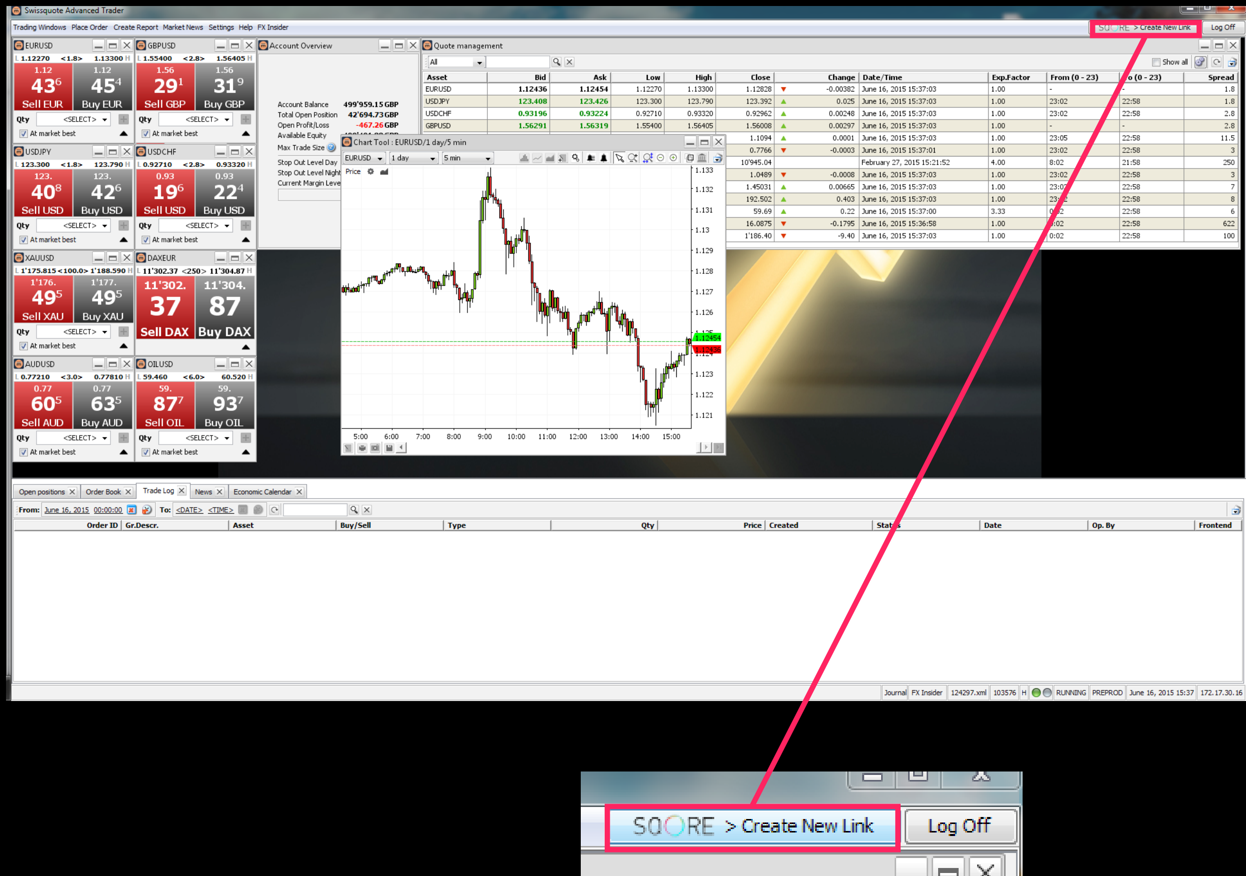
SQORE linking functionality will only be available using Swissquote Bank Advanced Trader Accounts, and links can only be accessed on SQORE.com (Swissquote Bank).

Links cannot be created from SQORE, however existing links can be deleted from SQORE.

Step 1: Login to your Advanced Trader account

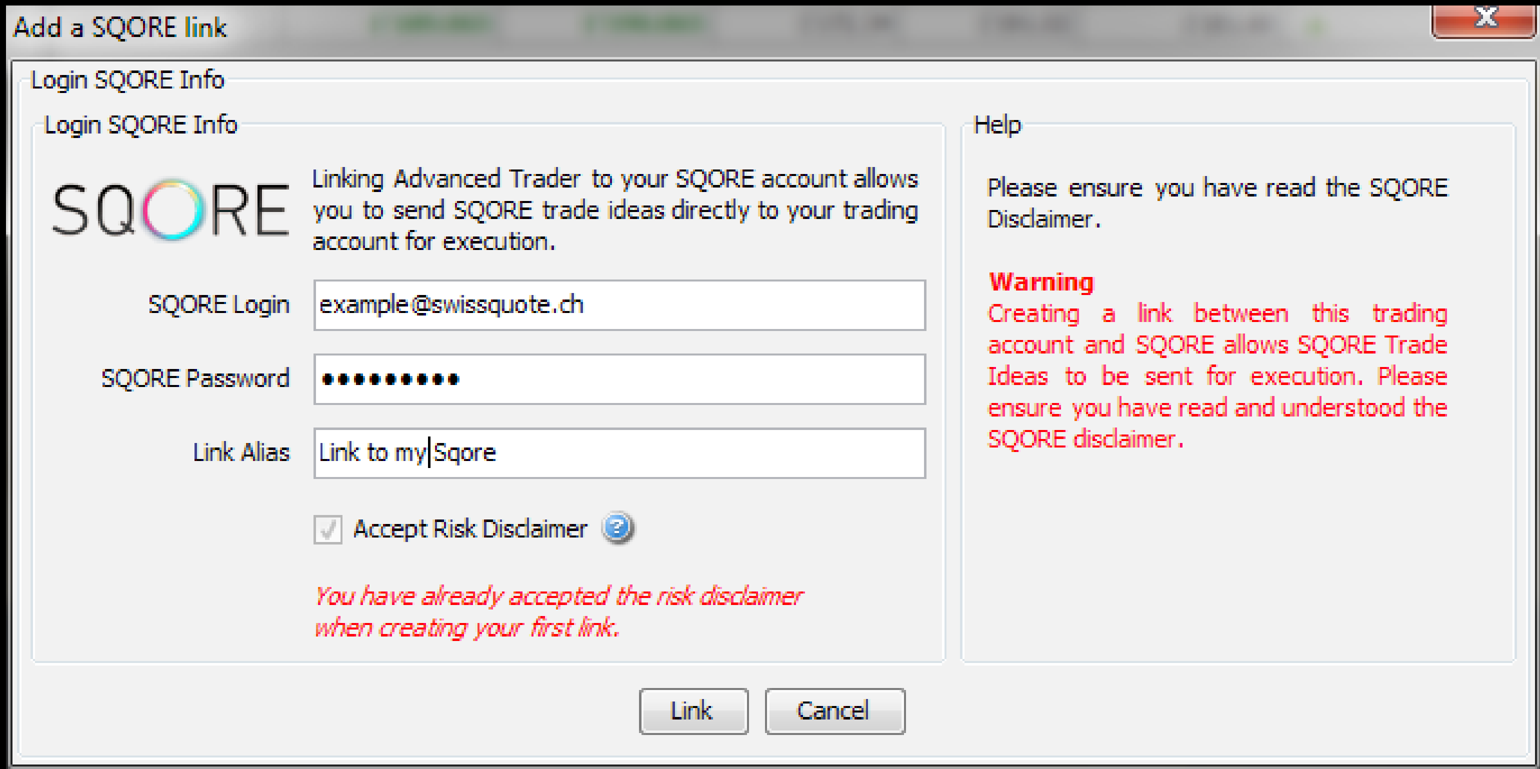


Step 2: Click ‘SQORE → Create new Link’ button at top-right of Advanced Trader



Step 3: Enter your details to create link

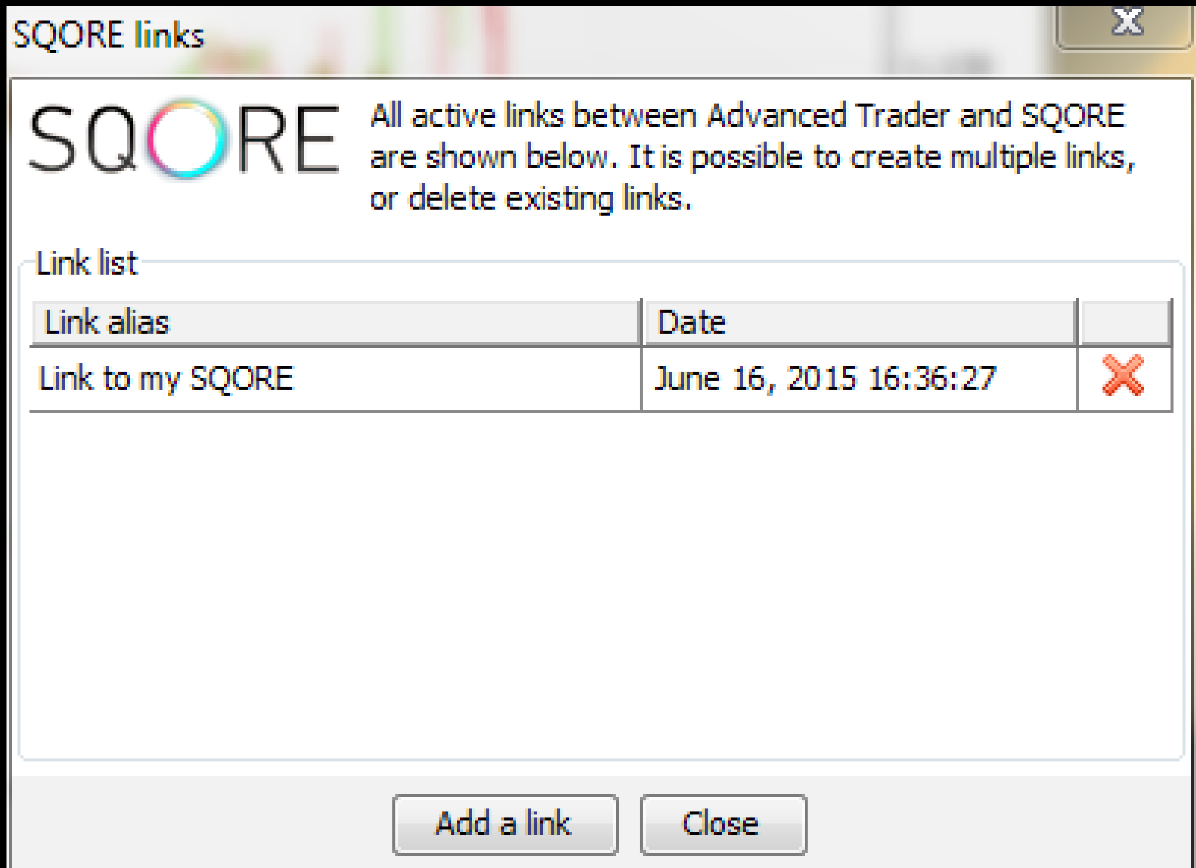
To create a new link to SQORE, you must enter their SQORE Login & password, as well as an Alias (name), which will be used to identify the link in SQORE.



Depending on mouse rollover, we show tooltips for each field in the 'Help' section. You will also need to accept the Risk Disclaimer if you have not done so already.

Step 4: 'SQORE Links' window is displayed

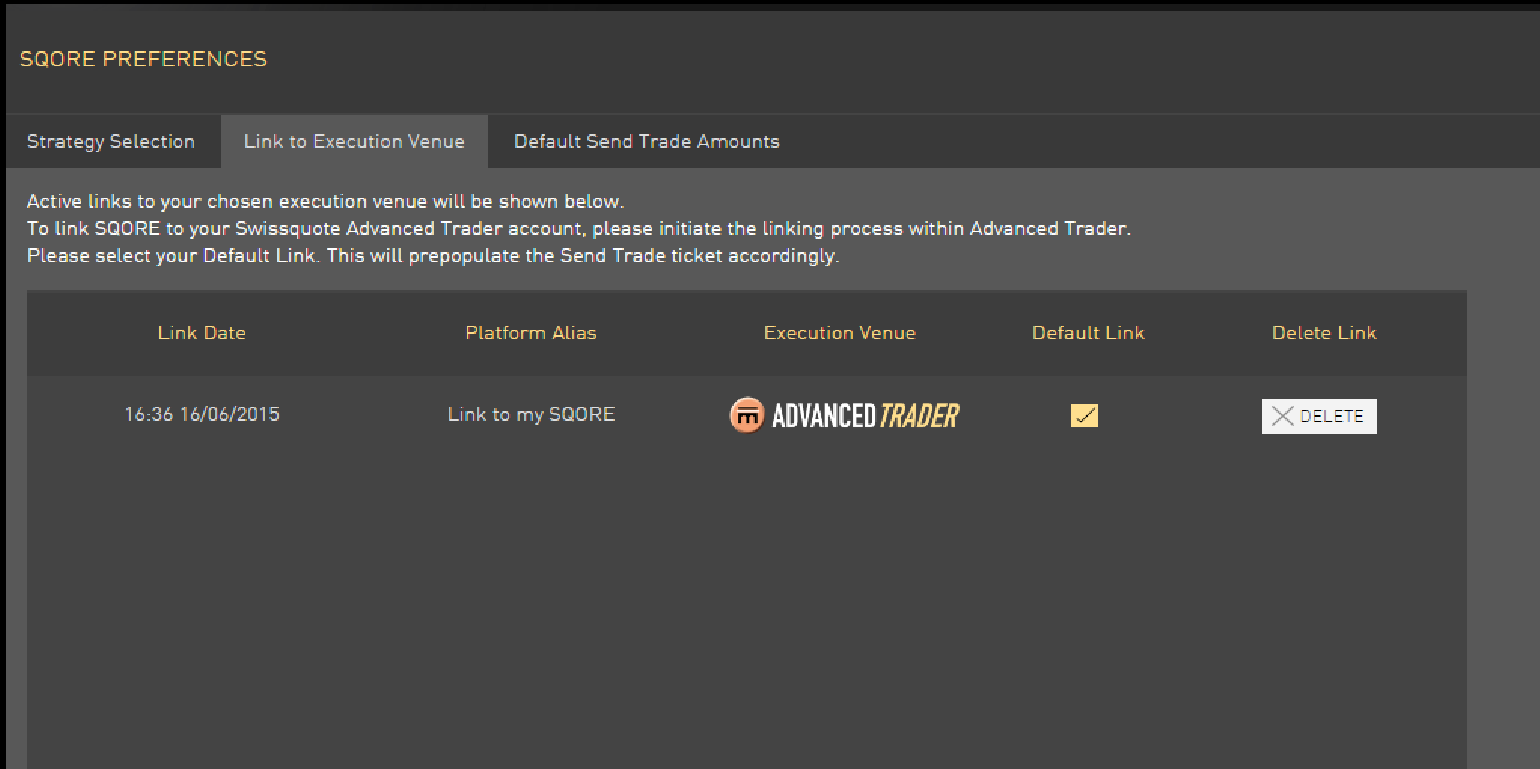
This window shows all existing links to the current Advanced Trader account. Active links can be deleted from this window, as well as from the appropriate SQORE account. You can also create a new link by clicking the 'Add a link' button.



Step 5: Click 'Link' to authenticate the SQORE login credentials.

If SQORE login details are successfully authenticated, this link also will appear in SQORE → Preferences → 'Link to Execution Venue' page.

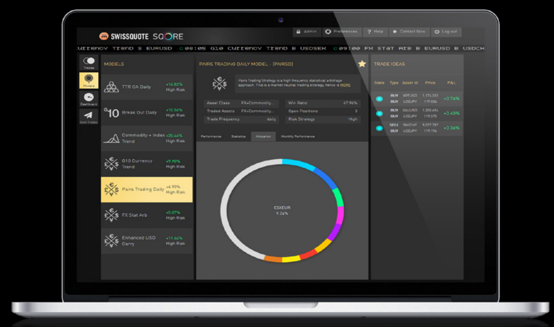
Within SQORE this link can be made the default link, which will populate the 'Send Trade' ticket with this link by default.



III. MAIN FEATURES

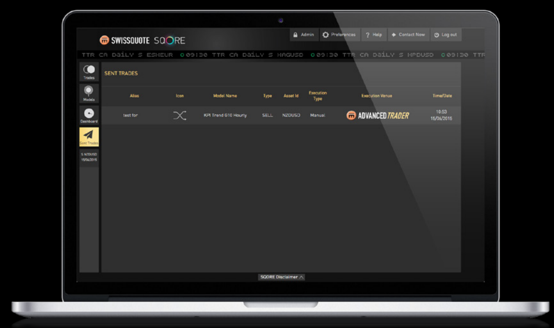
Swissquote SQORE comprises 4 main sections, which you can access by clicking on the 4 corresponding icons on the left side.

Trades



Models

Dashboard



Sent Trades

Trades
Models
Dashboard
Sent Trades

1. Trades Tab

The Trades page is the primary point for most users. It gathers the trade ideas from all models in chronological order. It is displayed by default when you start Swissquote SQORE and you can also access it by clicking on the corresponding button in the Quick View Bar.

A. *Circles*

Circles play a big part in the visualisation scheme of Swissquote SQORE. Circles allow the trader to quickly and effectively evaluate the current status of a trade idea.

Blue Circles represent trades that are active (have not reached stop-loss or take profit). Please note that that the blue color does not in itself indicate profit or loss of a signal, only that the trade idea is active.

Red Circles represent trades closed by reaching their stop-loss. Their P&L is therefore negative.

Green Circles represent trade ideas closed by reaching their take-profit. Their P&L is positive.

Gray Circles represent trade ideas that have been in the market longer than natural for that model and are considered decayed. We would suggest that such trade ideas are no longer relevant and therefore should be closed regardless of P&L.

Filled Circles represent trade ideas that you are looking to track. They will be replicated in your Dashboard and will be used in performance calculations. Just click on an active circle to switch its status from empty to full (and vice versa).

B. *Trade Ideas Panel*

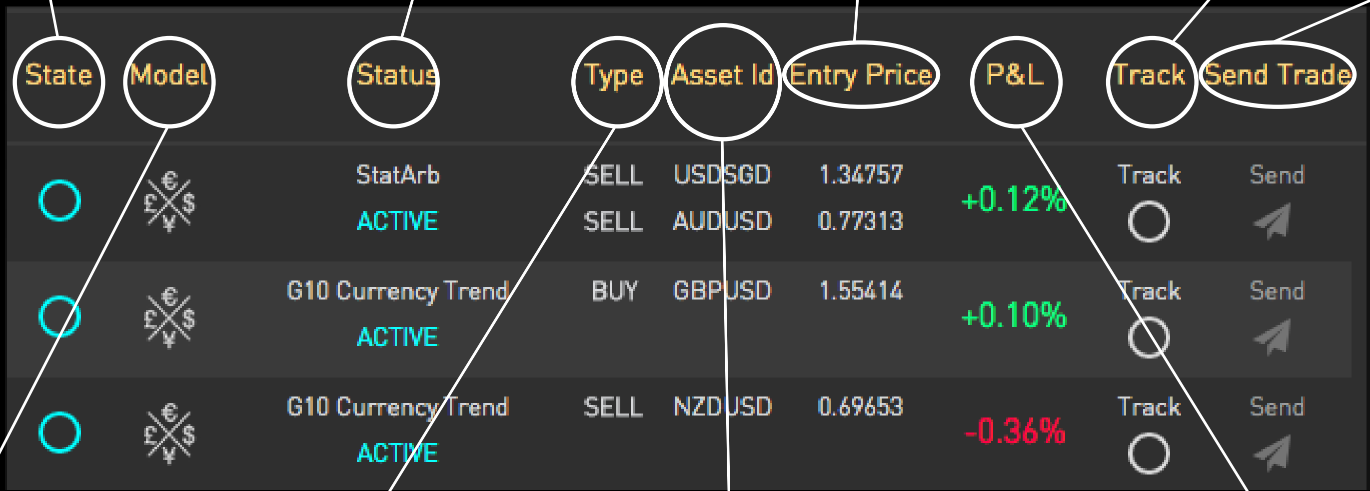
The Trade Ideas panel shows all the significant information for the latest trade ideas. Each trade idea bar contains:

Indicates if the trade idea is Active, Closed or Decayed. You can activate the tracking function by clicking the circle.

Provides the abbreviated model name and written state of the trade idea.

This is the entry price for the trade idea.

Clicking the track fills the circle and activates the tracking function. Traders can unclick the Track circle (empty) only when the traded is active. Once the trade idea is closed it always remains tracked and therefore in the Traders Dashboard.



Once you have linked your SQORE account to an execution venue, the Send Trade button will be highlighted next to active trade ideas. Click it to open the Send Trade Ticket. Please note that trade ideas involving more than a single trade (such as the ones generated by the StatArb model) cannot be executed directly from Swissquote SQORE at the time being. You will have to execute them manually from your execution venue.

A visual indicator showing which model generated that particular trade idea.

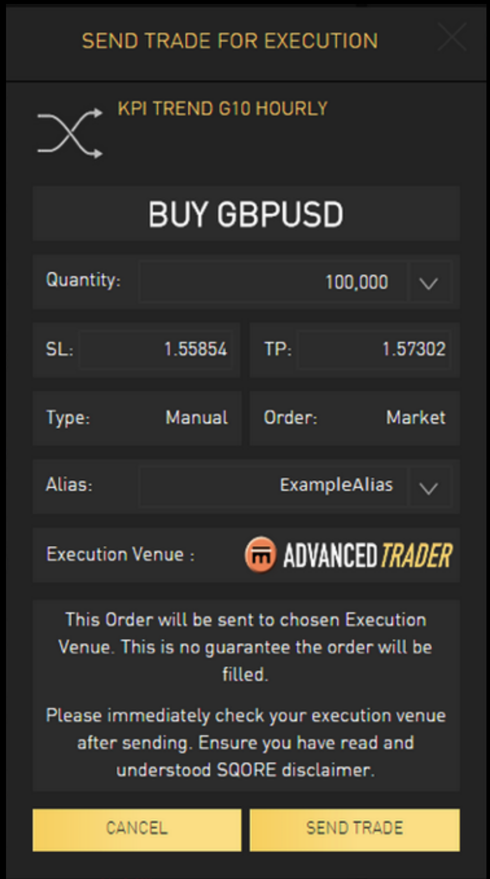
The direction of the trade idea. Buy (long) or Sell (short).

Shows the actual asset symbol being traded.

This is the aggregates real-time Profit & Loss of all the assets within a trade idea (represented as a percent). A trade idea can have one asset or multiple.

Send Trade Idea for Execution

To send a trade to your trading account for execution, within SQORE click the 'Send' button next to required Trade Idea. You at this point can amend & confirm the trade details to be sent to their trading account.



You can:

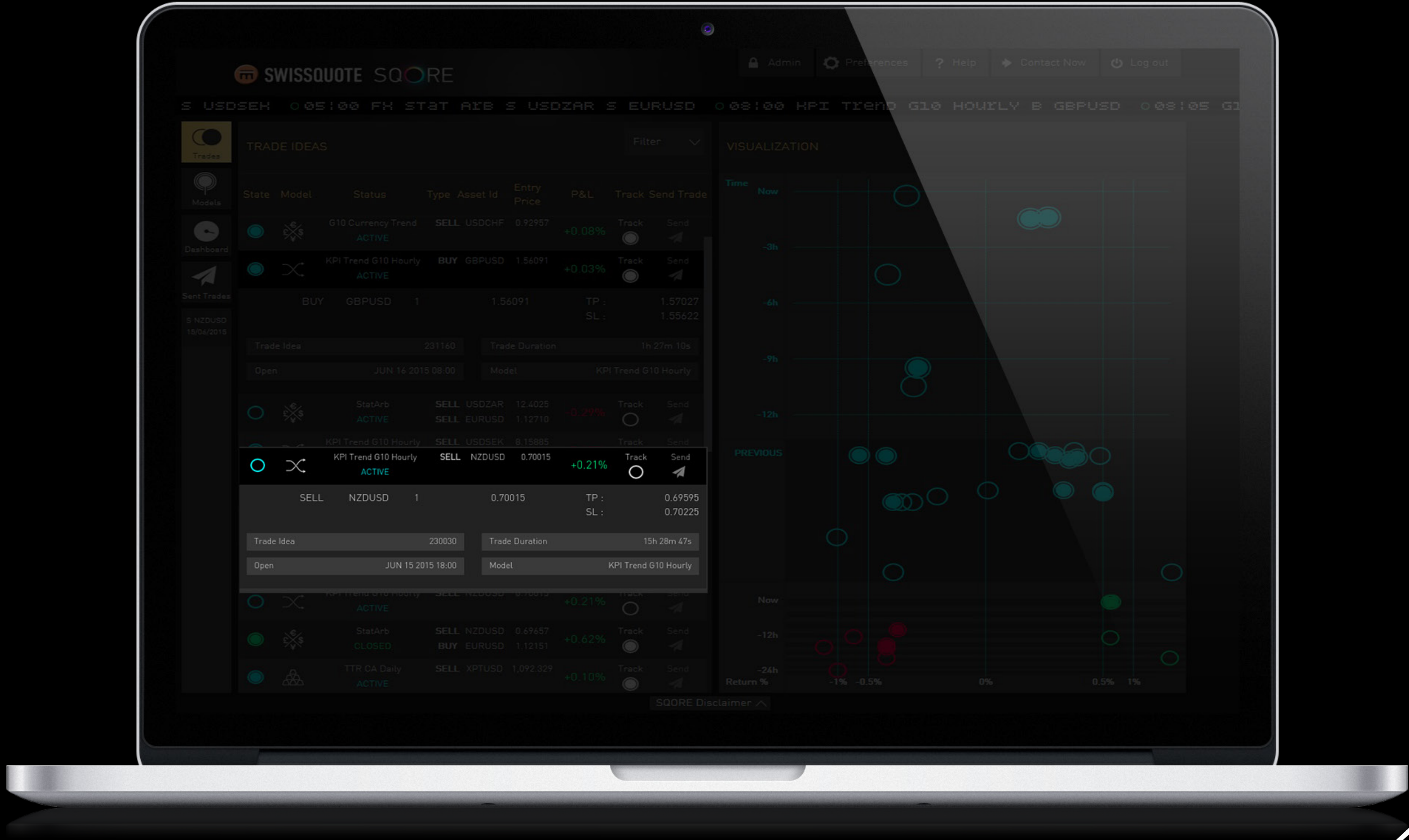
- Amend trade quantity/size
- Amend/delete SL and/or TP
- Choose an Alias (the trading account that trade idea will be sent)

Clicking 'Send Trade' will show you a confirmation that the idea has been successfully sent (or appropriate error message).

This trade idea (including SL/TP as necessary) will then appear in you linked Advanced Trader account. Previously sent trades also appear in SQORE → 'Sent Trades' tab.

Expanded Trade Idea Bar

Simply click on a trade idea bar to expand it and access additional information:



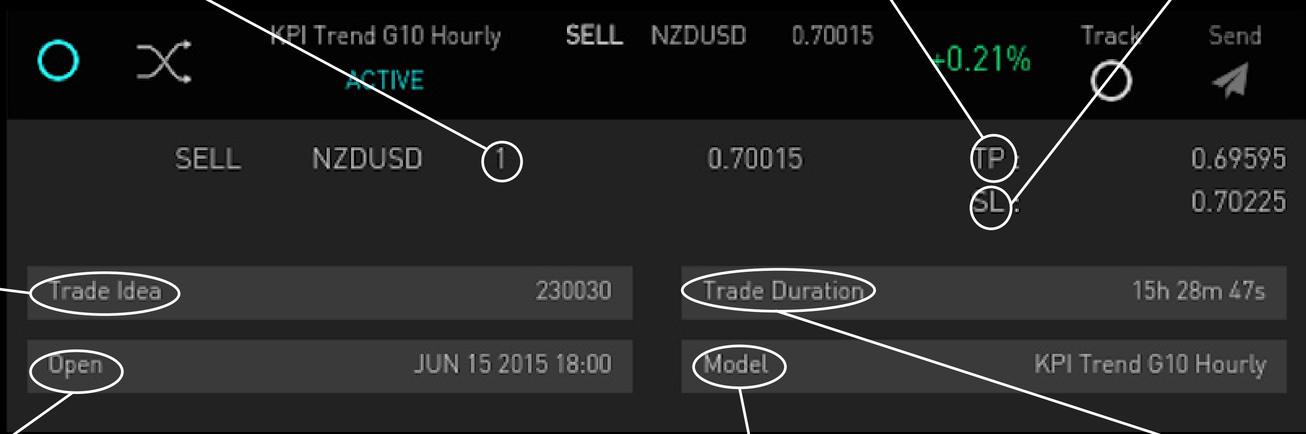
Trades
Models
Dashboard
Sent Trades

For single-asset trade ideas the quantity is always 1. For multi-asset trades quality will be a division of 1. 1 quantity should be viewed as the total size of a trader's average position.

Take-Profit shown in pip form.

Stop-Loss shown in pip form.

A reference number specific to each idea.



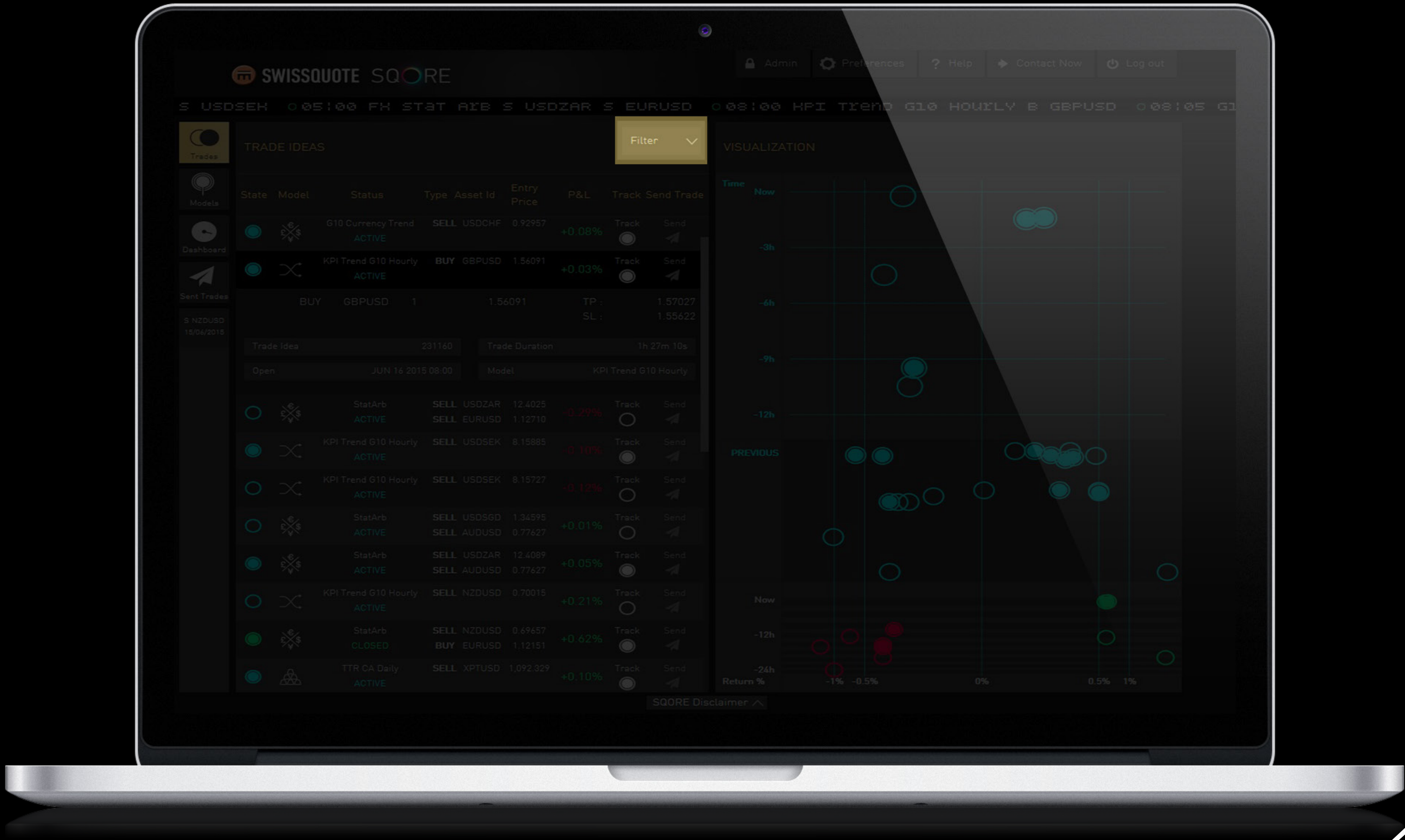
Provides the exact date and time when the trade idea was entered into the market.

Indicates which model provided the trade idea.

Gives the exact duration a trade idea has been active in the market.

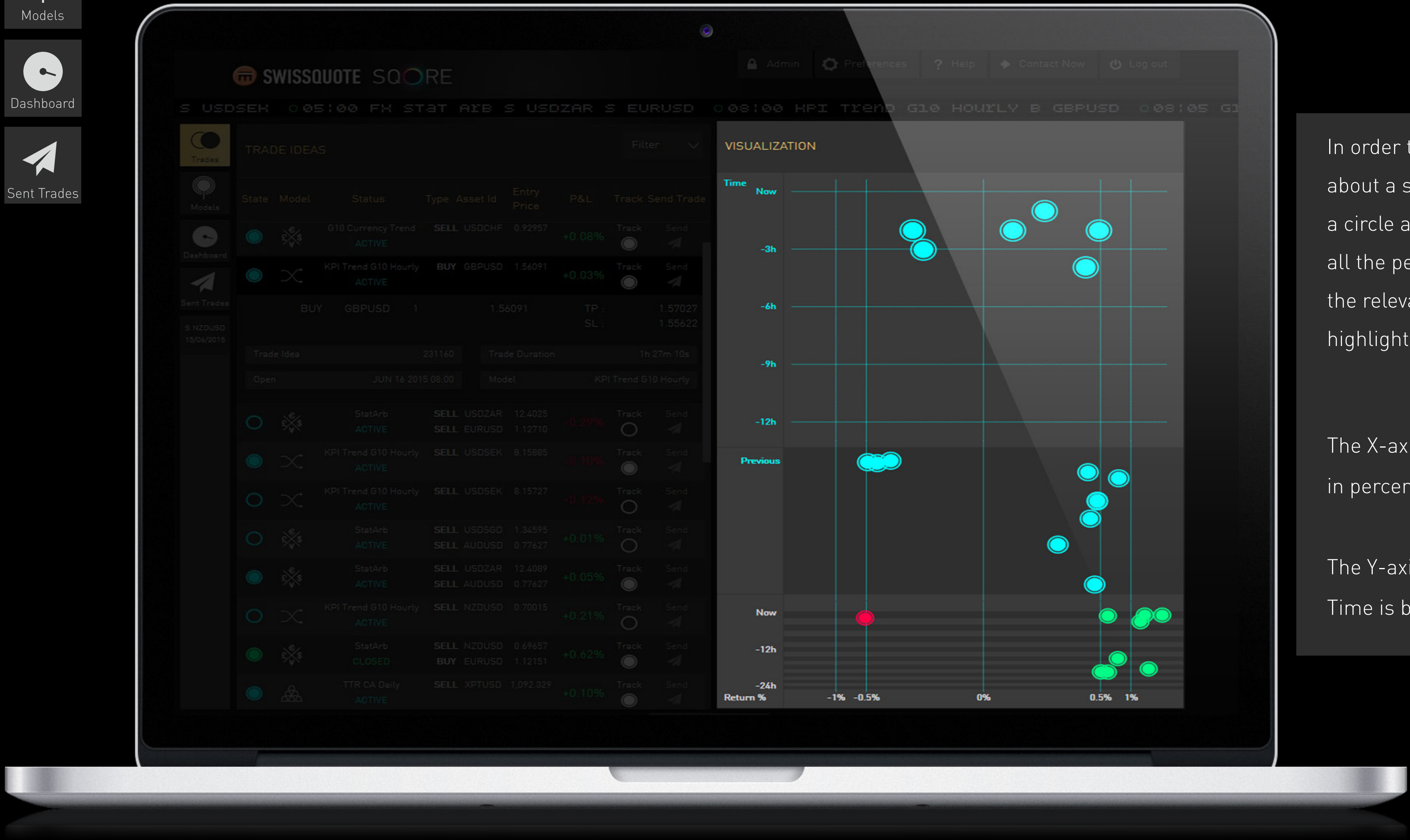
Filter

Click on the filter button at the top of the Trade Ideas Panel to display the asset filter pop-up. Here you can filter trade ideas by underlying asset type. Select the asset types you are interested in, and you will only see trade ideas for that asset type (FX, Commodities, Indices, other).



C. *Visualization Panel*

There is valuable information in how a trade idea moves. The Visualization panel provides you with a global view of how trade ideas are performing during their life cycle.

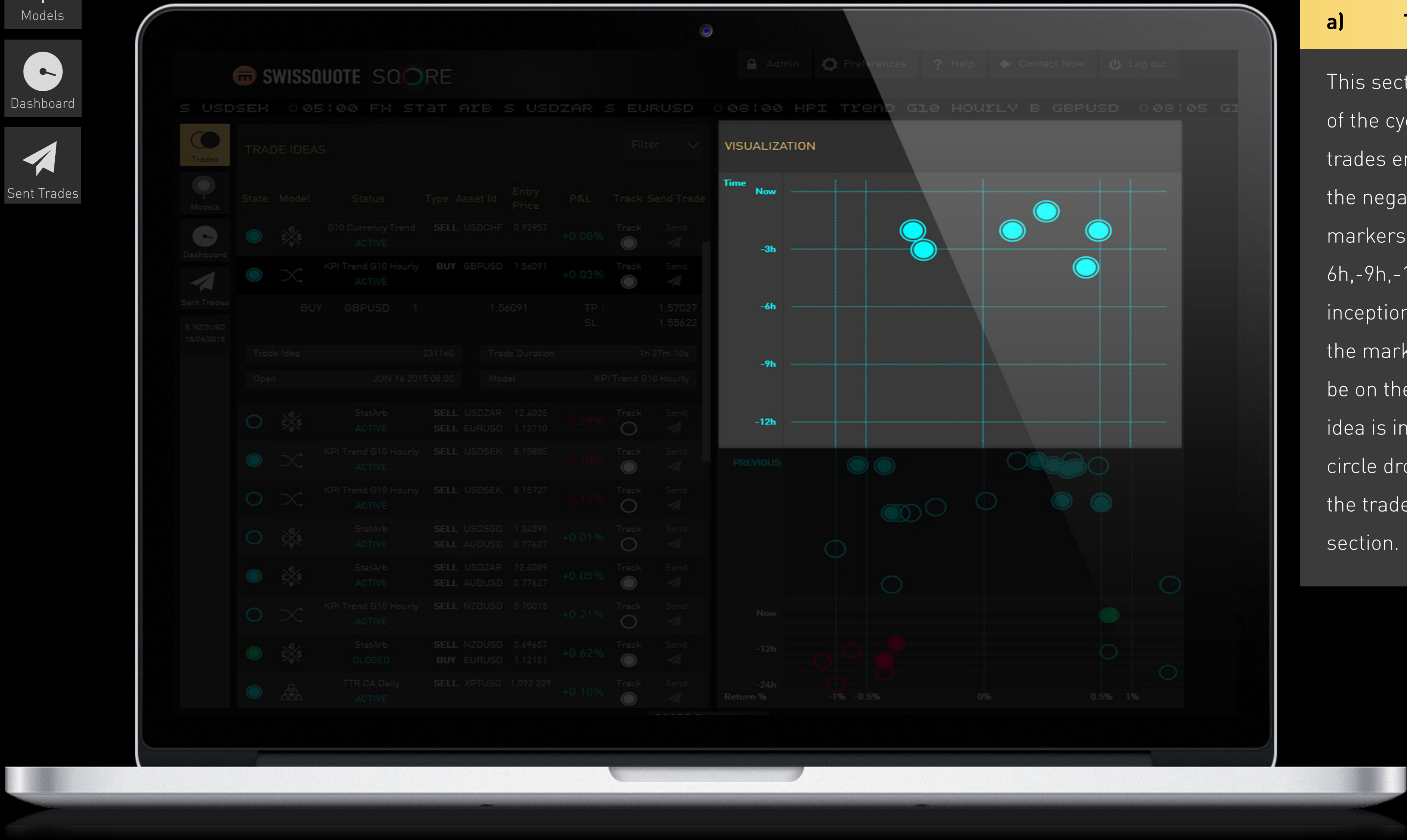


In order to see additional information about a specific idea, just hover over a circle and a pop-up will appear with all the pertinent data. In addition, the relevant trade idea bar will be highlighted in black.

The X-axis (horizontal axis) shows **P&L** in percentage (%) change.

The Y-axis (vertical axis) shows **Time**. Time is broken down into 3 sections.

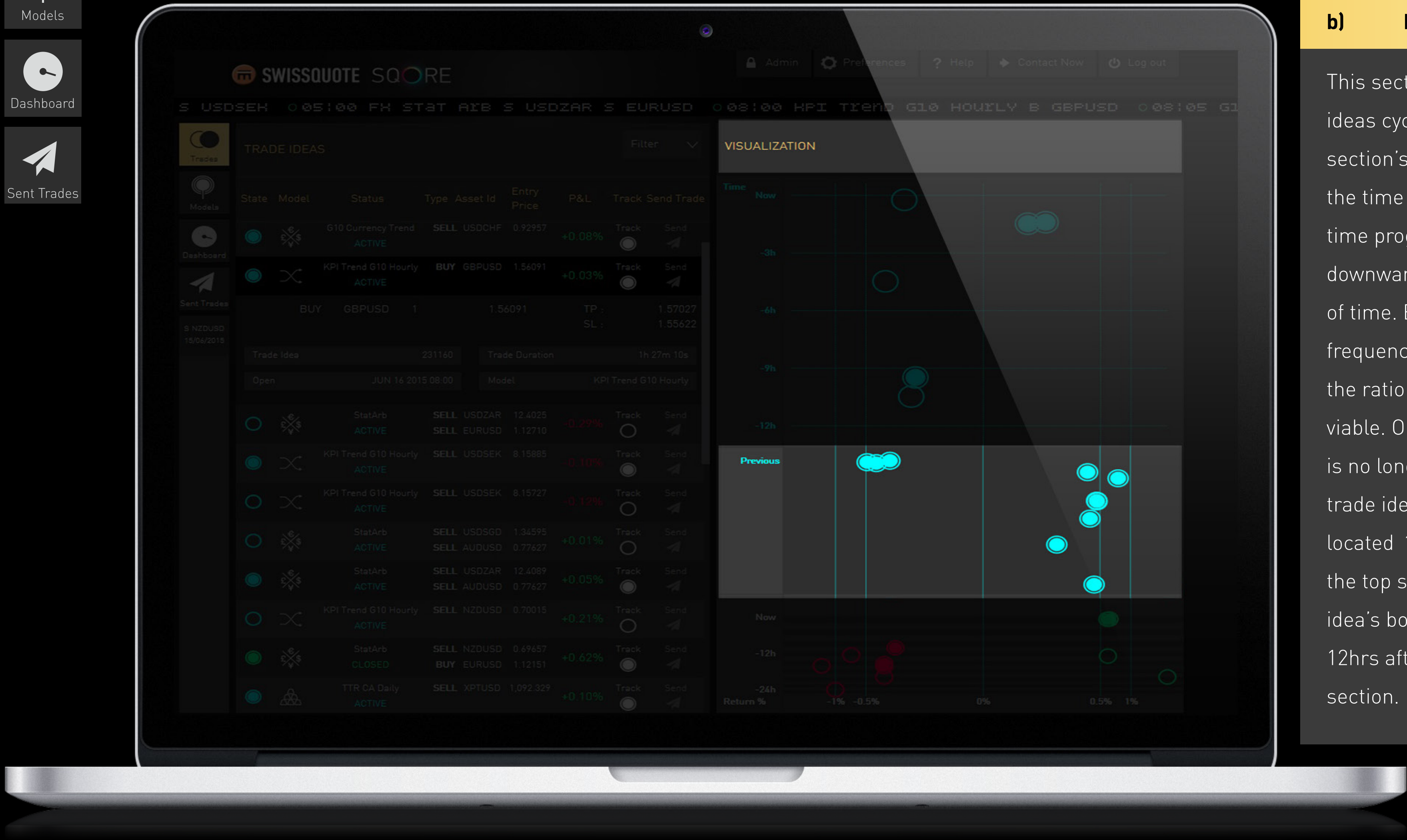
C. *Visualization Panel*



a) TOP SECTION

This section visualizes the beginning of the cycle for trade ideas. Most trades enter the market slightly in the negative due to spread costs. The markers on the Y-axis (Now, -3h,-6h,-9h,-12h) indicate the hours since inception. If a trade idea has been in the market for 3 hrs, the circle will be on the -3h line. The longer a trade idea is in the market, the lower the circle drops. After the first 12 hours the trade idea migrates into the next section.

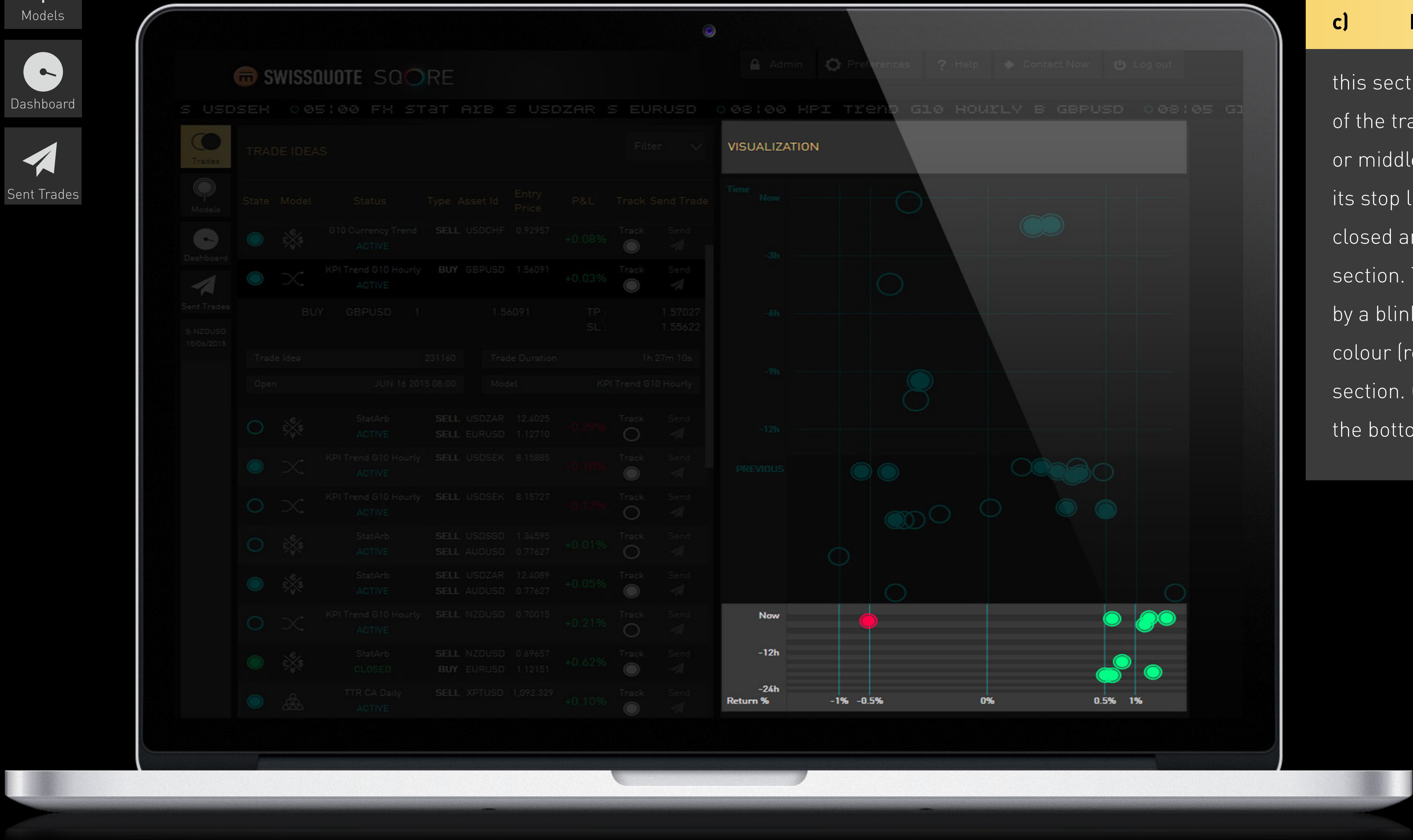
C. *Visualization Panel*



b) MIDDLE SECTION

This section visualizes rest of the trade ideas cycle. The distance from the section's top to the bottom represents the time a trade idea is viable. As time progresses the circle moves downwards representing the passage of time. Each trade idea has a frequency (daily, weekly, monthly) were the rational supporting the trade is viable. Outside that period the trade is no longer a viable trade. So a daily trade idea's middle section bottom is located 12 hours after migrating from the top section, while a weekly trade idea's bottom is located 4 days and 12hrs after migrating from the top section.

C. *Visualization Panel*

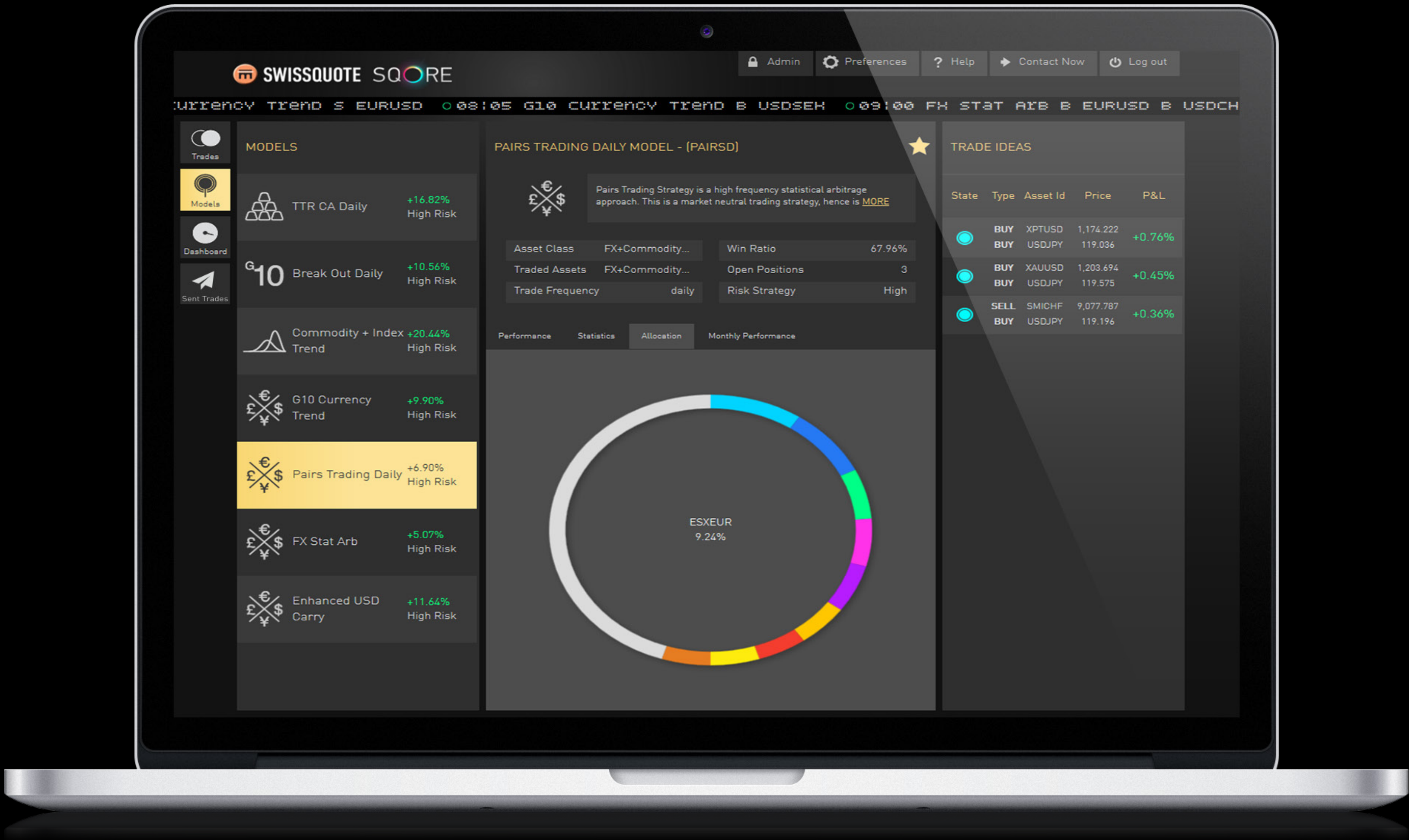


c) BOTTOM SECTION

this section visualises the final stage of the trade idea. If in either of the top or middle section a trade idea reaches its stop loss or take profit the trade is closed and migrated into the bottom section. This migration is highlighted by a blinking circle which then changes colour (red or green) in the bottom section. Closed trade ideas will stay in the bottom section for 24hrs.

2. Models Tab

The models page contains critical information to decide which models or trade ideas match your style. You can access it by clicking on the corresponding button in the Quick View Bar. The models page is divided into three sections.



Trades

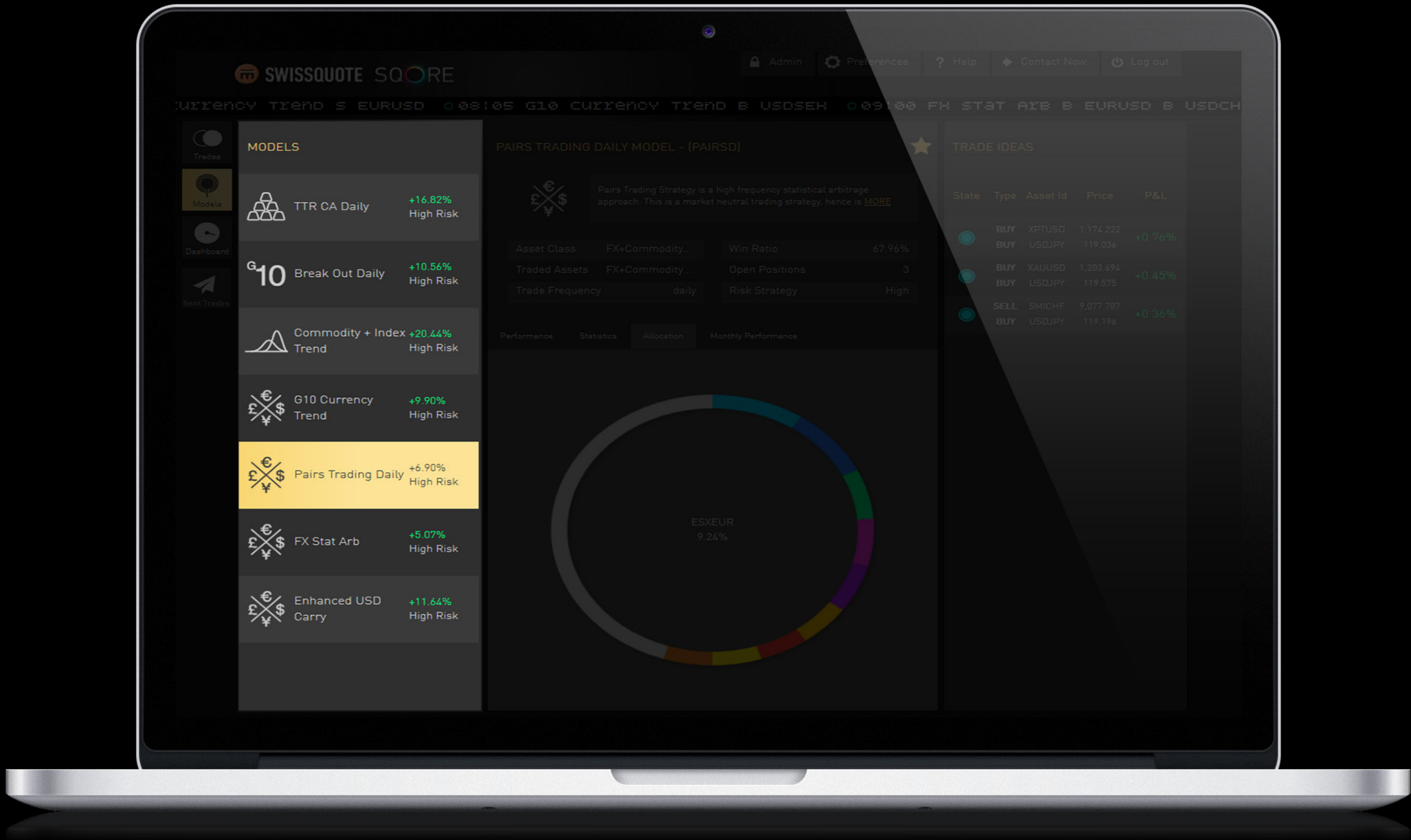
Models

Dashboard

Sent Trades

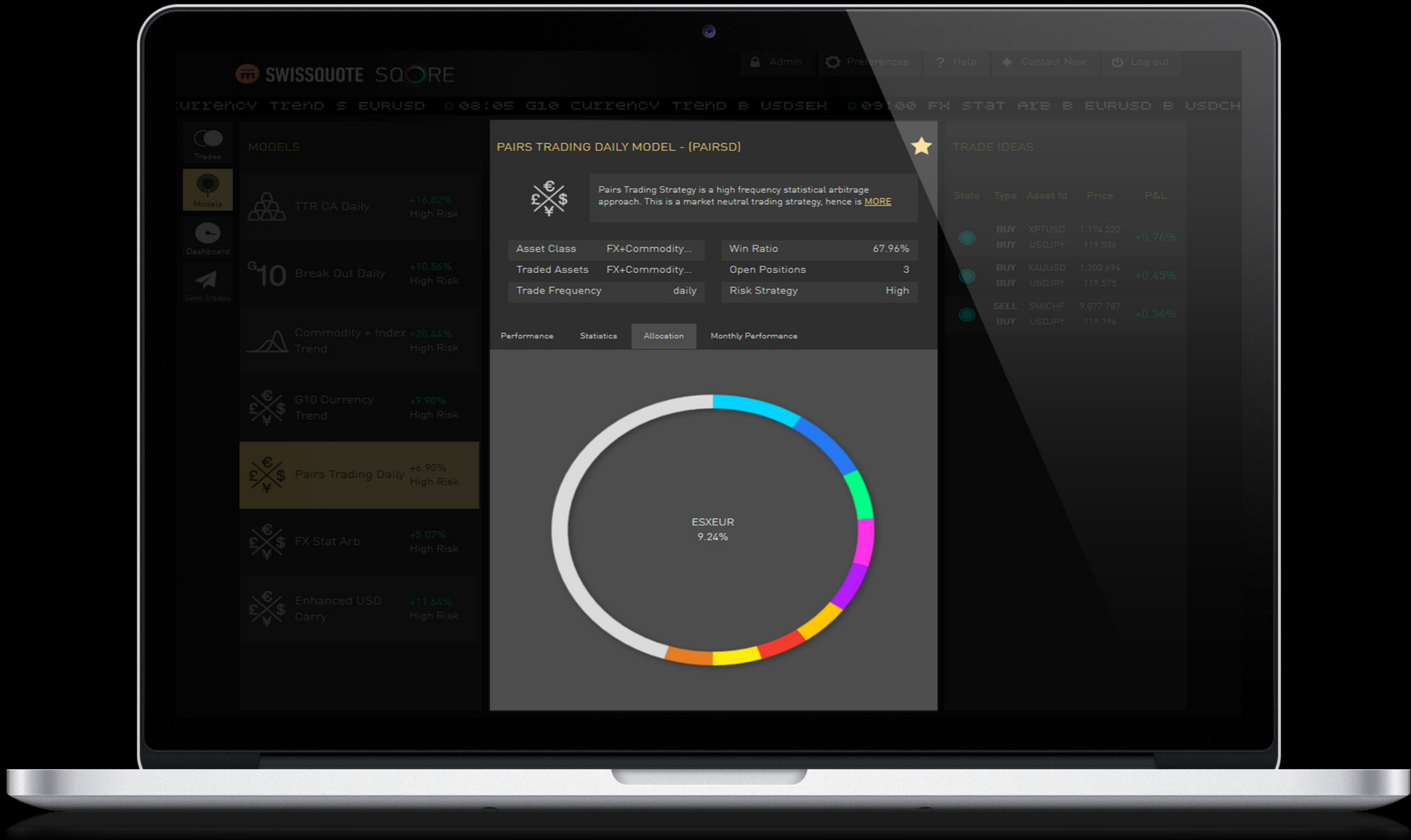
A. ***Models Panel***

A list of all the available models currently running on Swissquote SQORE. Each model tile displays the model's icon, name, annualized returns since the starting point of the backtest and generic risk level. Click on any tile to highlight it and display its detailed data on the middle and right panels.



B. *Middle Panel*

The Middle Panel provides all the critical information for the highlighted model.



a. *Model Description*: explains the methodology behind the trading model. Every strategy has a unique approach to capturing returns. Use the MORE link to expand the description box.

b. *Model Summary*: outlines key information about the trading model

i. **Asset Class**: displays the main asset class traded in the model.

ii. **Win Ratio**: indicates how often a model makes winning trades versus losing trades. It is simply the number of winning trades divided by the total number of trades.

$$\textit{Win Ratio} = \frac{N^{Win}_{BT+FT}}{N^{Win + Loss}_{BT+FT}}$$

iii. **Traded Assets**: provides the specific assets traded in the model

iv. **Open Positions**: provides the number of active trade ideas from the model current in the market

v. **Trade Frequency**: a general indicator showing how often a model generates trade ideas

vi. **Risk Strategy**: a general indication of how volatile a model is

c. *Backtest Information Tabs*

i. **Performance** displays a chart showing the model's performance over the past 5 years

ii. **Statistics** displays several key statistics from a 5-year backtest:

1. Total closed ticket – total number of trade ideas generated since inception
2. Expired – number of trade ideas that decayed before reaching a limit
3. Win Ratio – indicates how often a model makes winning trades versus losing trades. See the formula in the Model Summary above.
4. P&L – profit or loss since inception. The P&L is calculated and updated every 5 minutes. Since there are 288 intervals of 5-min per day, P&L is be updated 288 times per day. The P&L is calculated by using Daily Return (DR).
5. Annualized Return - For each day we calculate the cumulated return of all the 5 min average log returns to get the daily return:
   Where NB = 288, which is the number of 5-min intervals during one day. For each day, it is 24 hours, which is 24 * 60 minutes. There are 24 * 12 = 288 ALRs during one day. We sum these 288 ALRs together to get the Daily Return (DR).

$$\mathrm{DR} = \sum_{t=1}^{N_B} ALR_t$$

From DR we can calculate annualized returns

$$\mathrm{AR} = \exp\left(\frac{252}{N}\sum_{t=1}^{N} DR_t\right) - 1$$

Where N is the number of days for the stats calculation

6. Annualized Volatility

$$VOL = \sqrt{\frac{252}{N-1}\sum_{t=1}^{N}\left(DR_t - \frac{l_n\,(1 + AR)}{252}\right)}$$

7. Annualized Sharpe ratio

$$SHARPE = \frac{\text{AR}}{\text{VOL}}$$

8. Annualized Sortino ratio: NEGDRi are all the negative daily returns, Nneg is the number of the negative daily returns.

$$NEGVOL = \sqrt{\frac{252}{N_{neg}-1}\sum_{t=1}^{N_{neg}}} \; (-NEGDR_t)^2$$

$$SORTINO = \frac{\text{AR}}{\text{NEGVOL}}$$

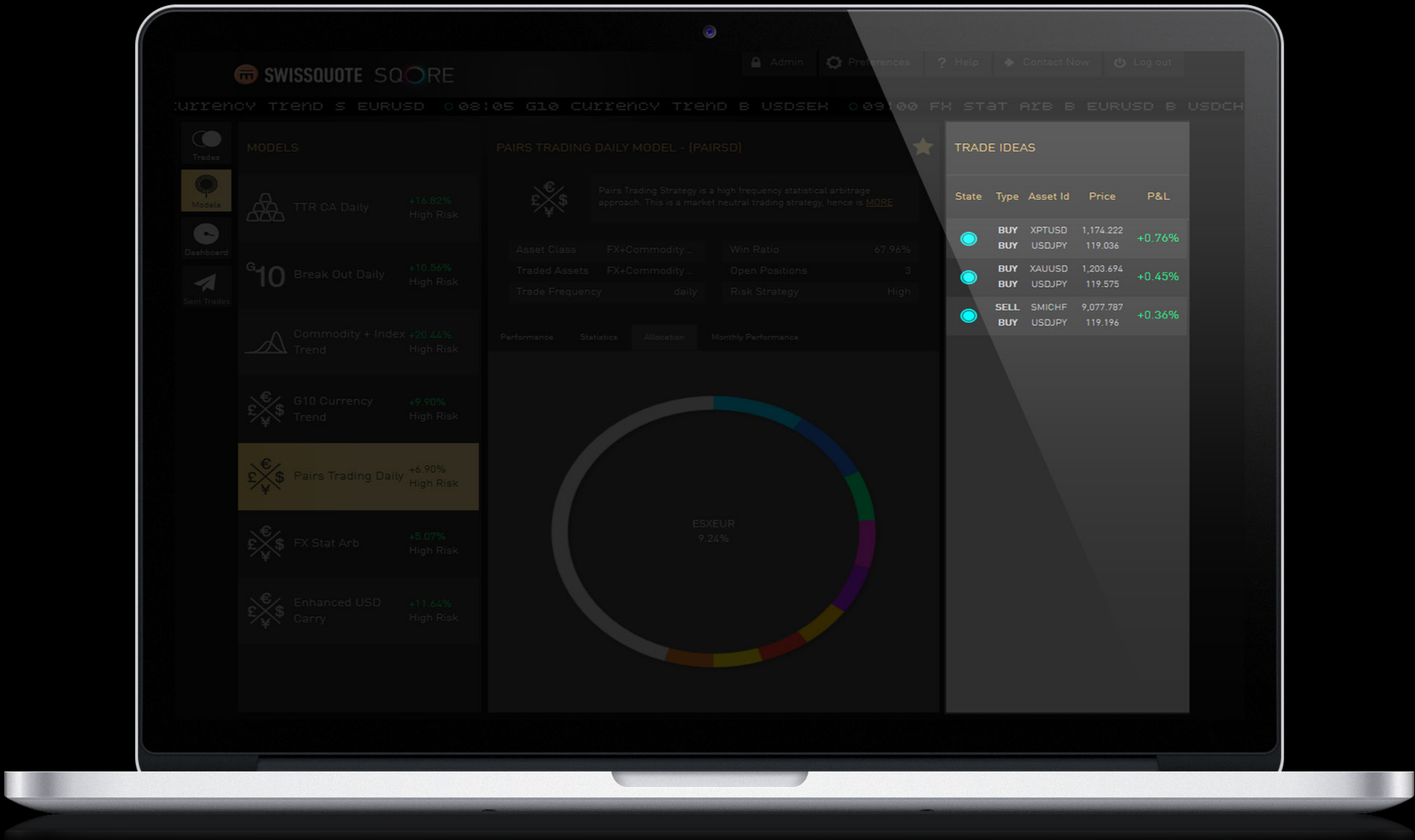
iii. **Allocation** is a clean visualization tool that shows what assets and how much of each asset (as a percentage) was traded since inception. Hovering over the different colors will change the asset and percentage in the middle.

iv. **Monthly Performance** is a simple way to view historical back tested performance on a monthly and yearly basis. Positive months are in green and negative months are gray. The monthly data is updated on a daily basis (17:00 CET).

d. ★ *Star* – clicking on the star next to the model name at the top will track all the trade ideas from the selected model. This means that every active and incoming trade idea will be automatically tracked (circles filled) and placed into your Dashboard.

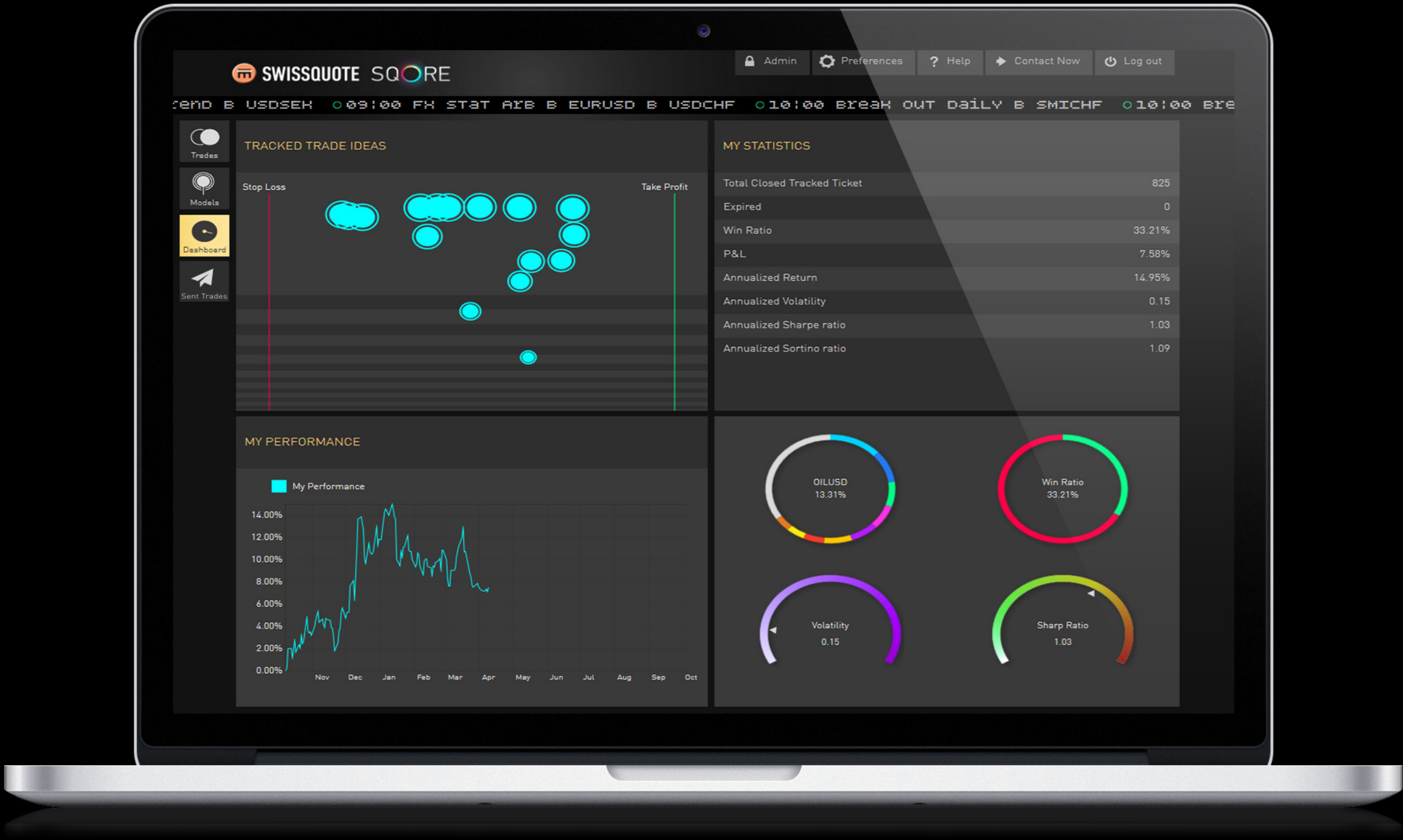
C. *Trade Ideas side panel*

Shows a shortened version of the trade idea bar with only state, type, asset id, entry price and P&L. It lists all the latest trade ideas generated by the selected model.

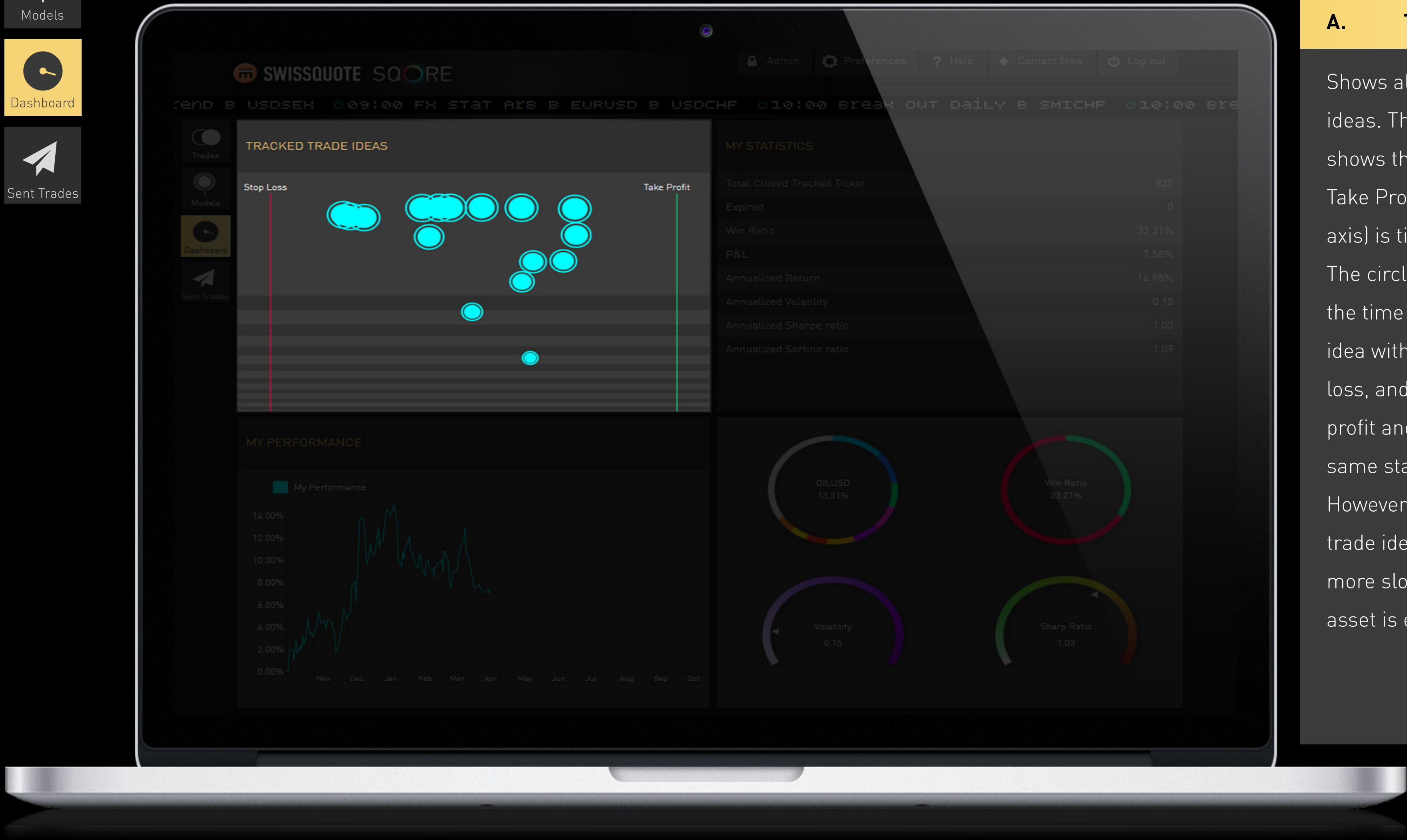


3. *Dashboard Tab*

The Dashboard is the way to customize your Swissquote SQORE by choosing the models and trade ideas that appeal to you. All your tracked trade ideas are replicated in the Dashboard and become part of your portfolio. You can access the Dashboard by clicking on the corresponding button in the Quick View Bar. The Dashboard is made up of four elements.



3. *Dashboard Tab*



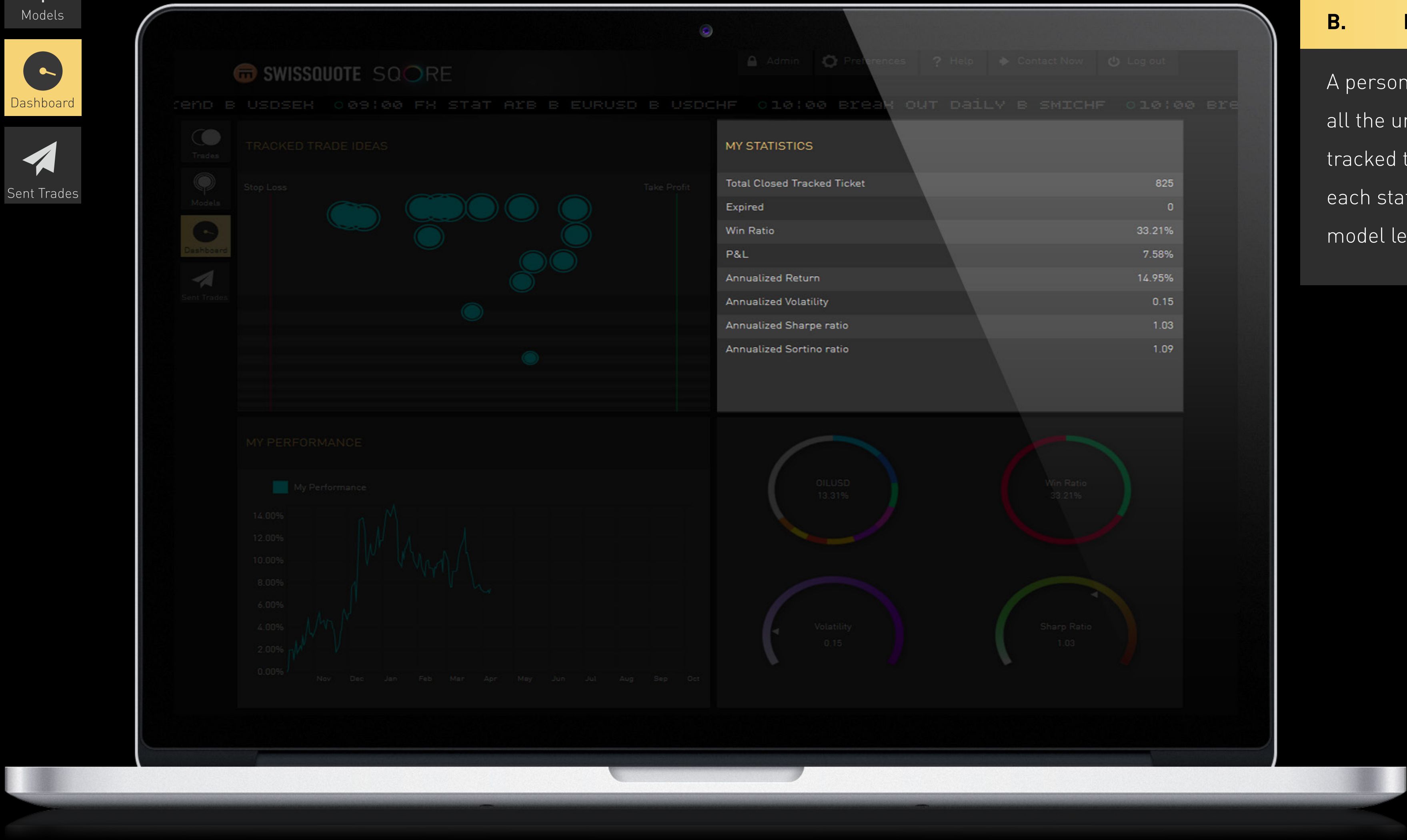
A. TRACKED TRADE IDEAS:

Shows all the active tracked trade ideas. The x-axis (horizontal axis) shows the distance from Stop Loss & Take Profit points. The y-axis (vertical axis) is time.

The circles will also decrease in size as the time in market increases. A trade idea with a 2% take profit and 1% stop loss, and a trade idea with a 0.5% take profit and 0.25% stop loss will have the same starting location.

However, in normal conditions the trade idea with larger limits will move more slowly (unless volatility in that asset is extremely higher).

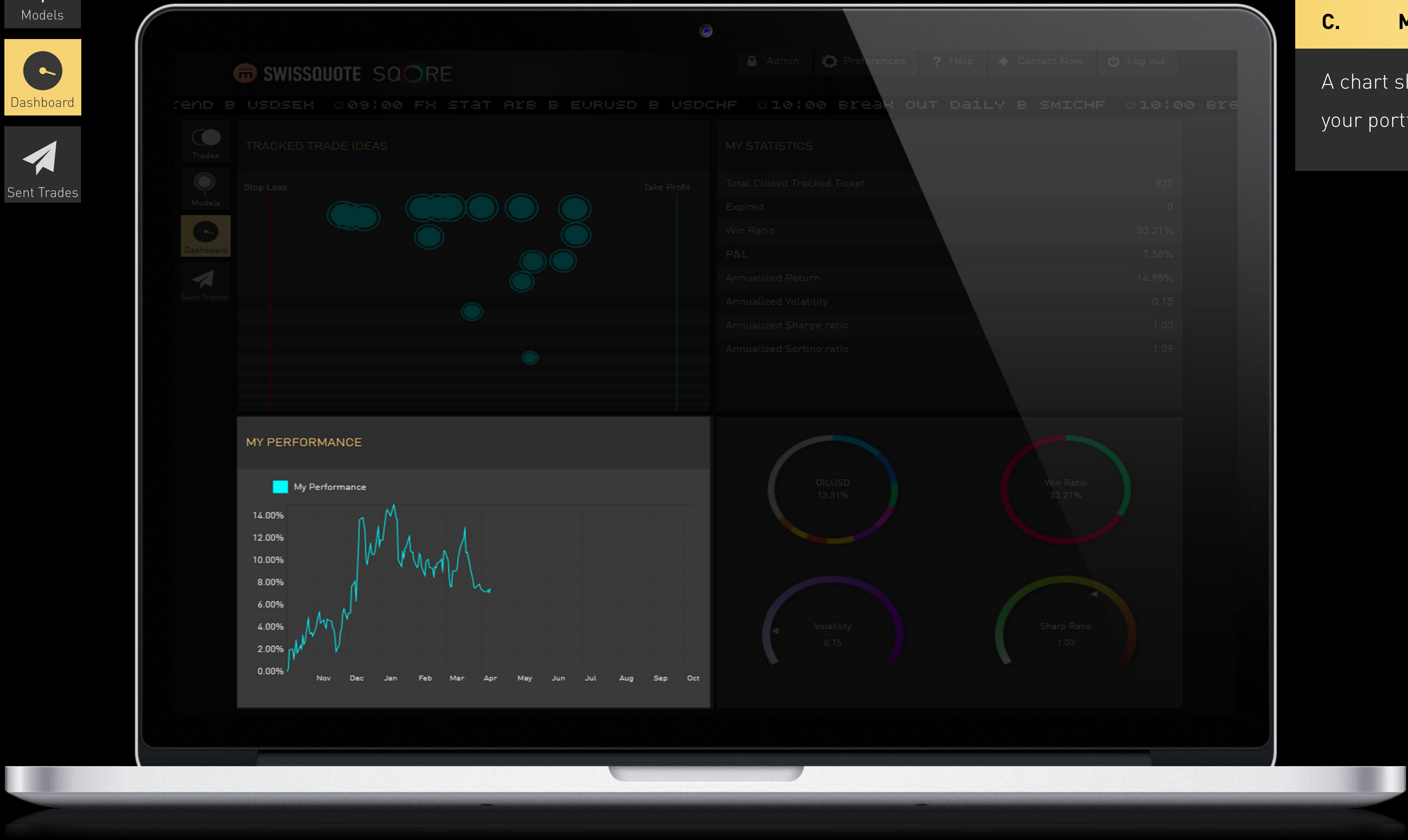
3. *Dashboard Tab*



B. MY STATISTICS:

A personalized portfolio aggregating all the underlying statistics for your tracked trade ideas. The definitions for each statistics are the same as at the model level.

3. *Dashboard Tab*



C. MY PERFORMANCE:

A chart showing the annual returns for your portfolio.

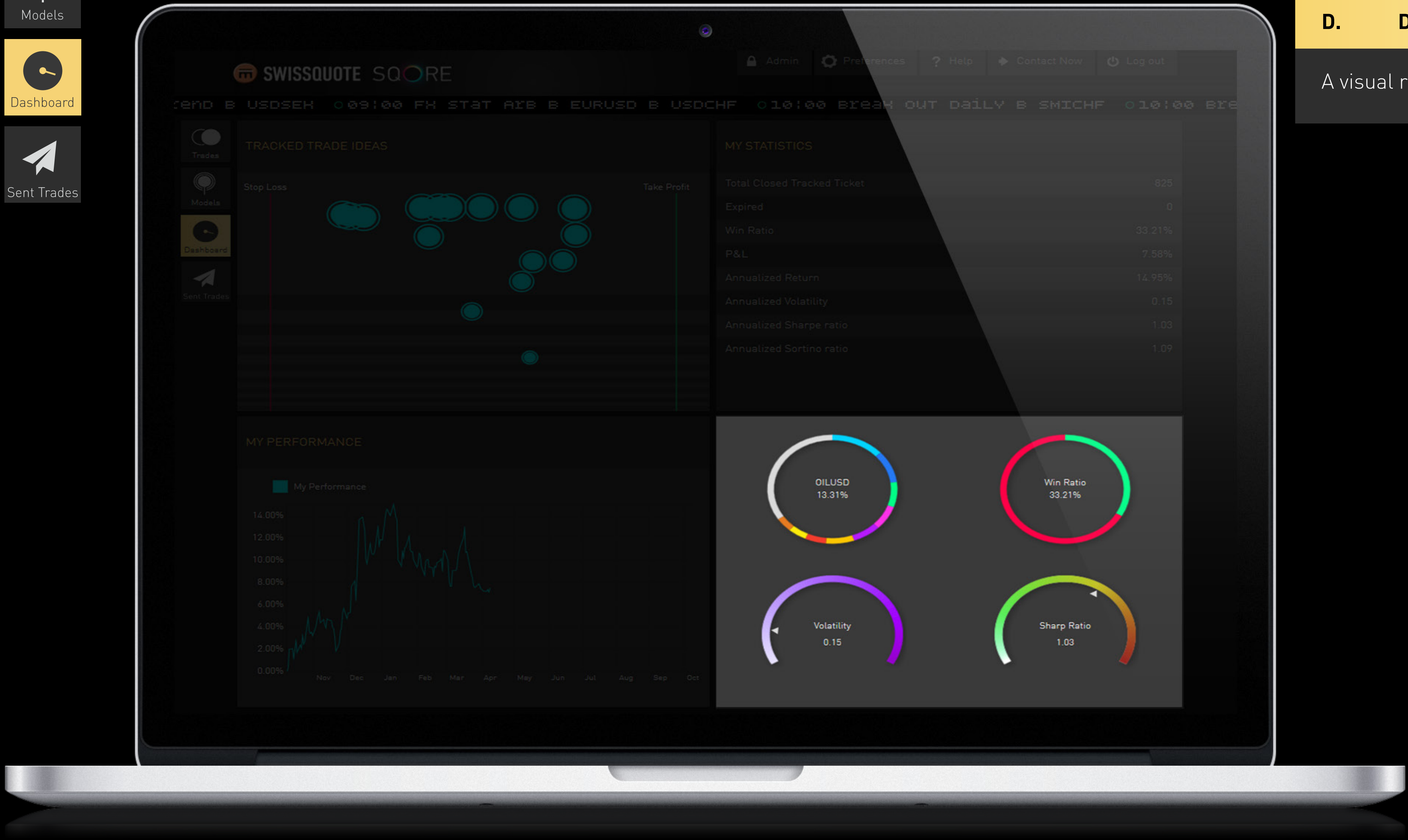
Trades

Models

Dashboard

Sent Trades

3. *Dashboard Tab*



D. DIALS:

A visual representation of key statistics.

4. *Sent Trades Tab*

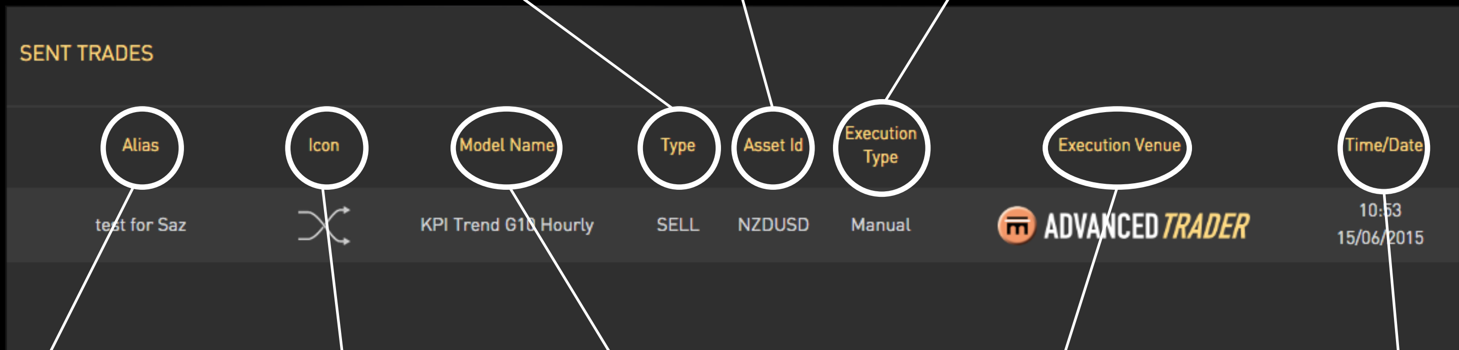
The Sent Trades Tab lists all the trades that you sent for execution from Swissquote SQORE. Before you can use this feature, you must first link Swissquote SQORE to an execution venue.

After you have established one or more links, all the trades that you send for execution from the Trades Tab will be listed here along with the following information:

Buy or Sell order

Name of the traded asset

At the moment, only Manual execution is available



The name that you chose for that specific link to an execution venue.

Icon representing the Model which generated the trade idea

Name of the Model which generated the trade idea

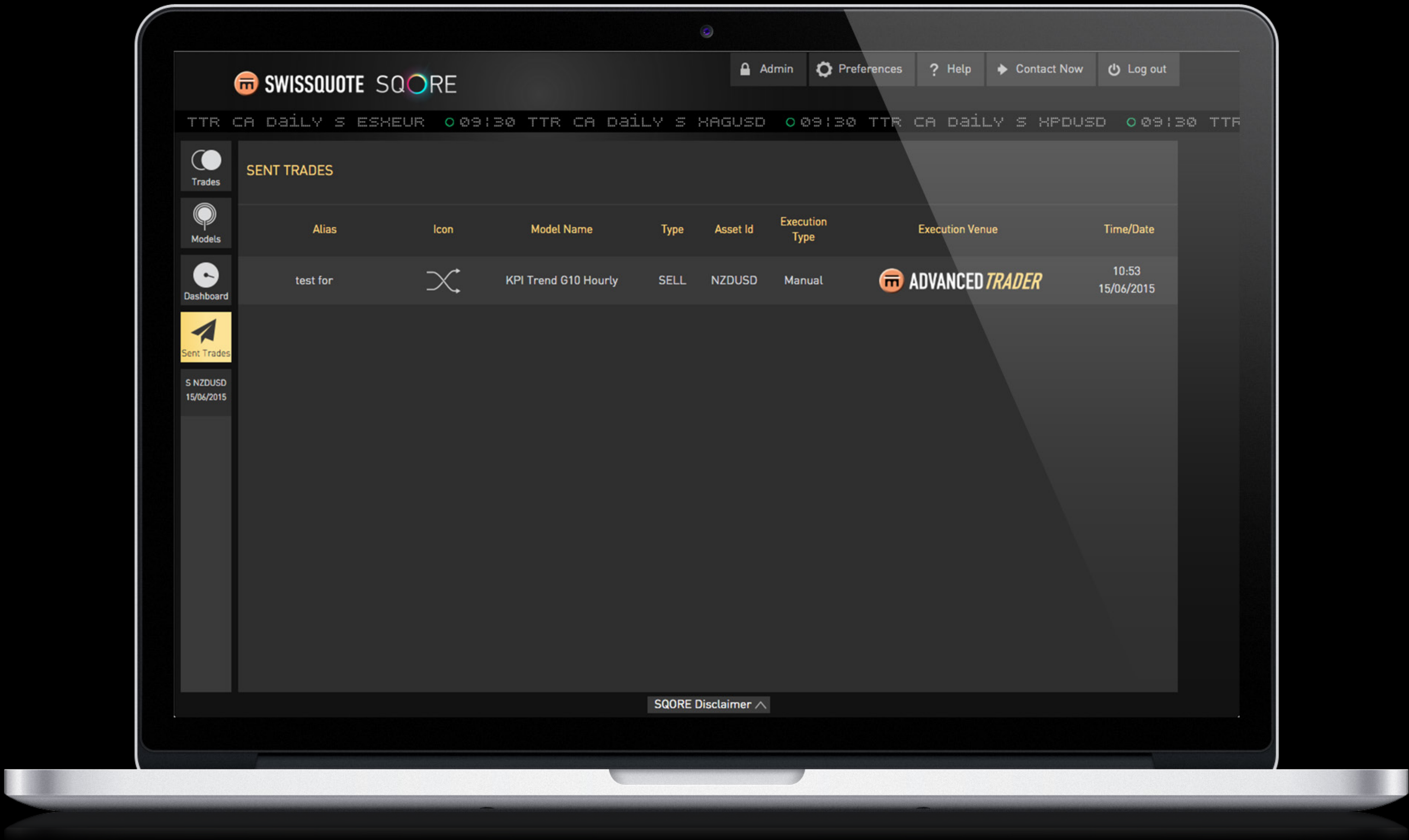
Name of the Execution Venue

Time at which the trade idea was sent for execution

4. *Sent Trades Tab*

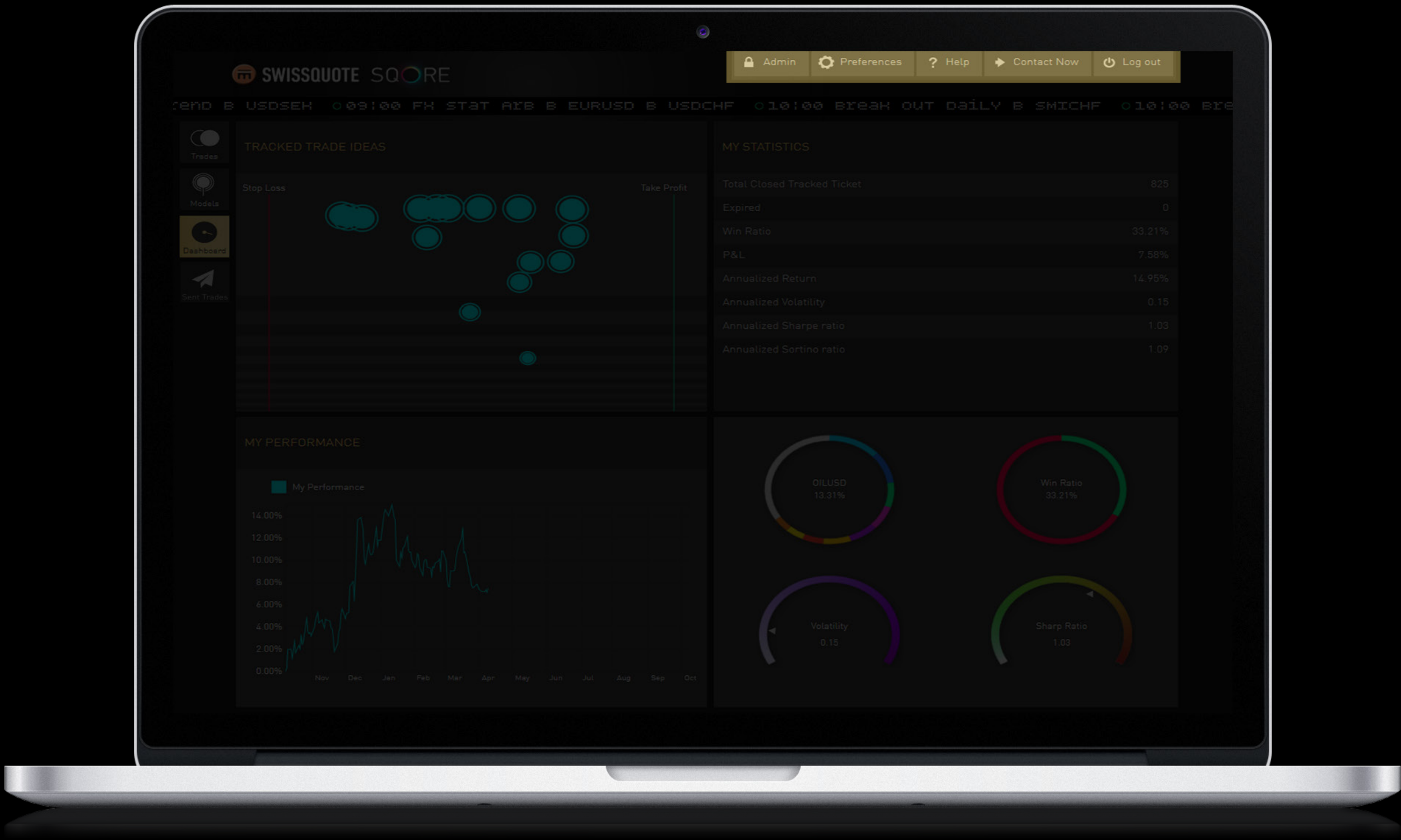
All trades sent to your execution venue from SQORE are shown in the Sent Trades page.
Information regarding the time & date sent, Asset, direction and execution venue details are displayed.

Additionally, the previous 5 sent trades are shown in the Sent Trades quick view bar. This quick view bar is displayed after you send your first trade to be executed, and is viewable from all pages within SQORE.

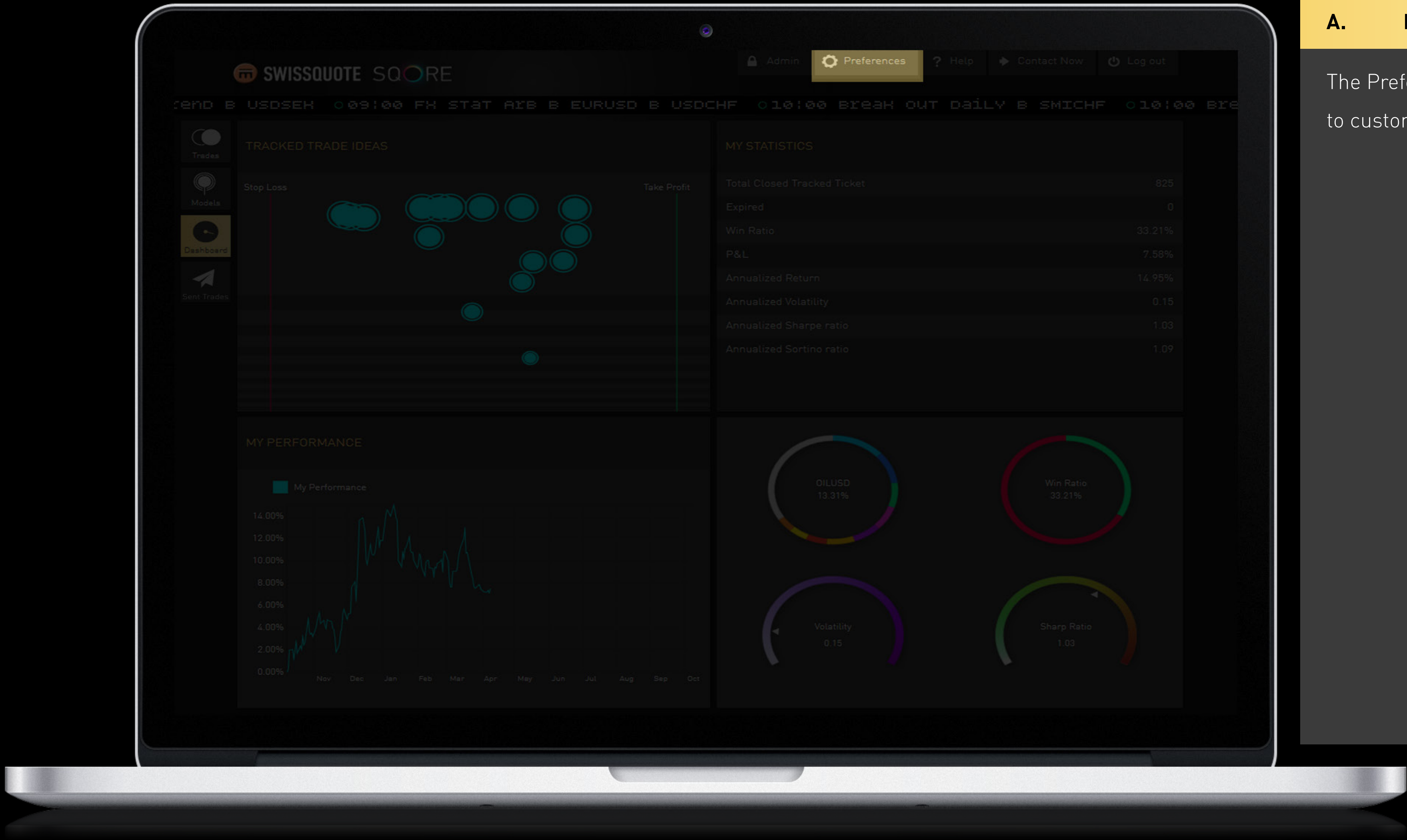


5. *Menu Bar*

The menu bar at the top of the screen remains the same regardless of the tab you are viewing. It provides access to the following options:



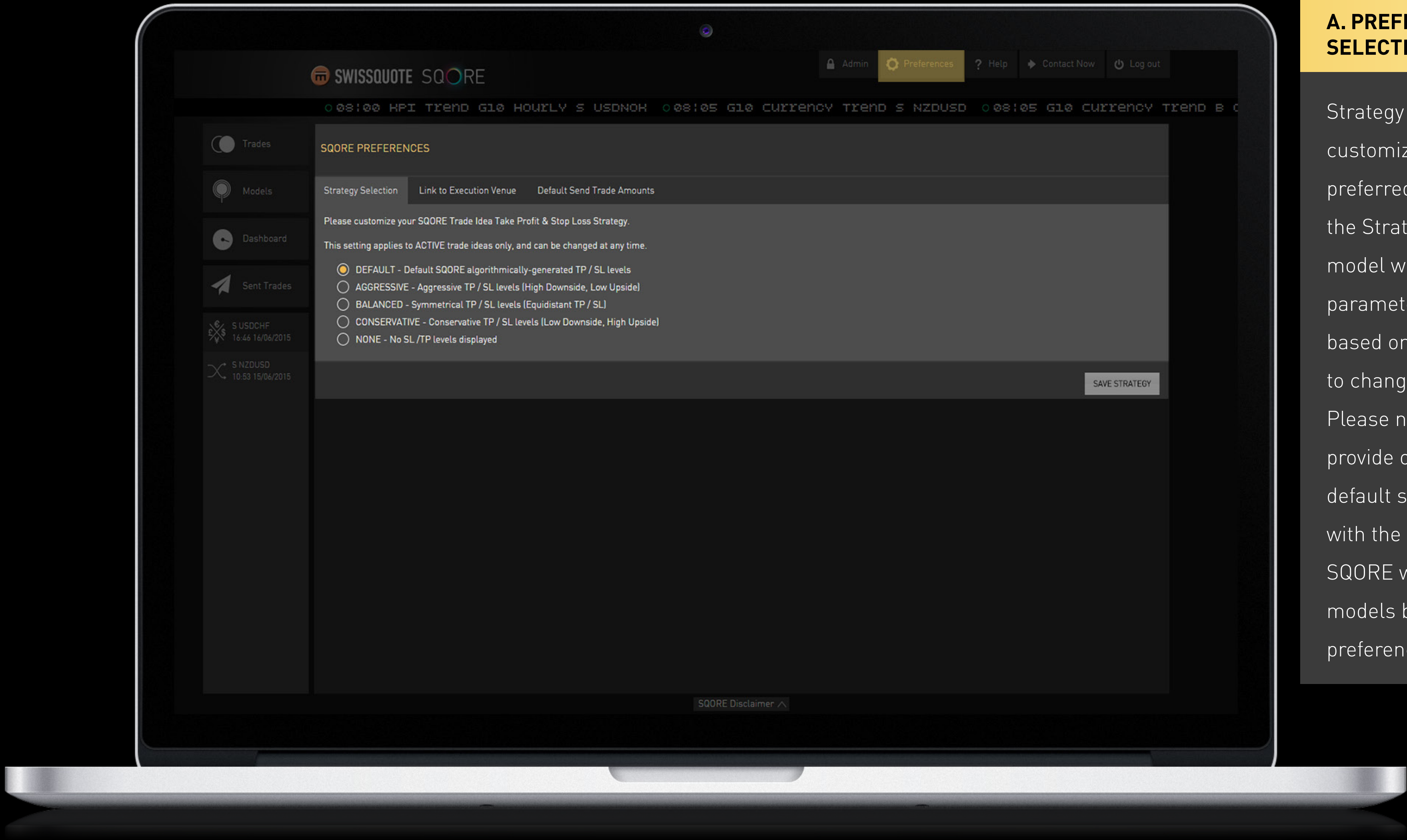
4. *Menu Bar*



A. PREFERENCES

The Preferences button allows the user to customise SQORE to their liking.

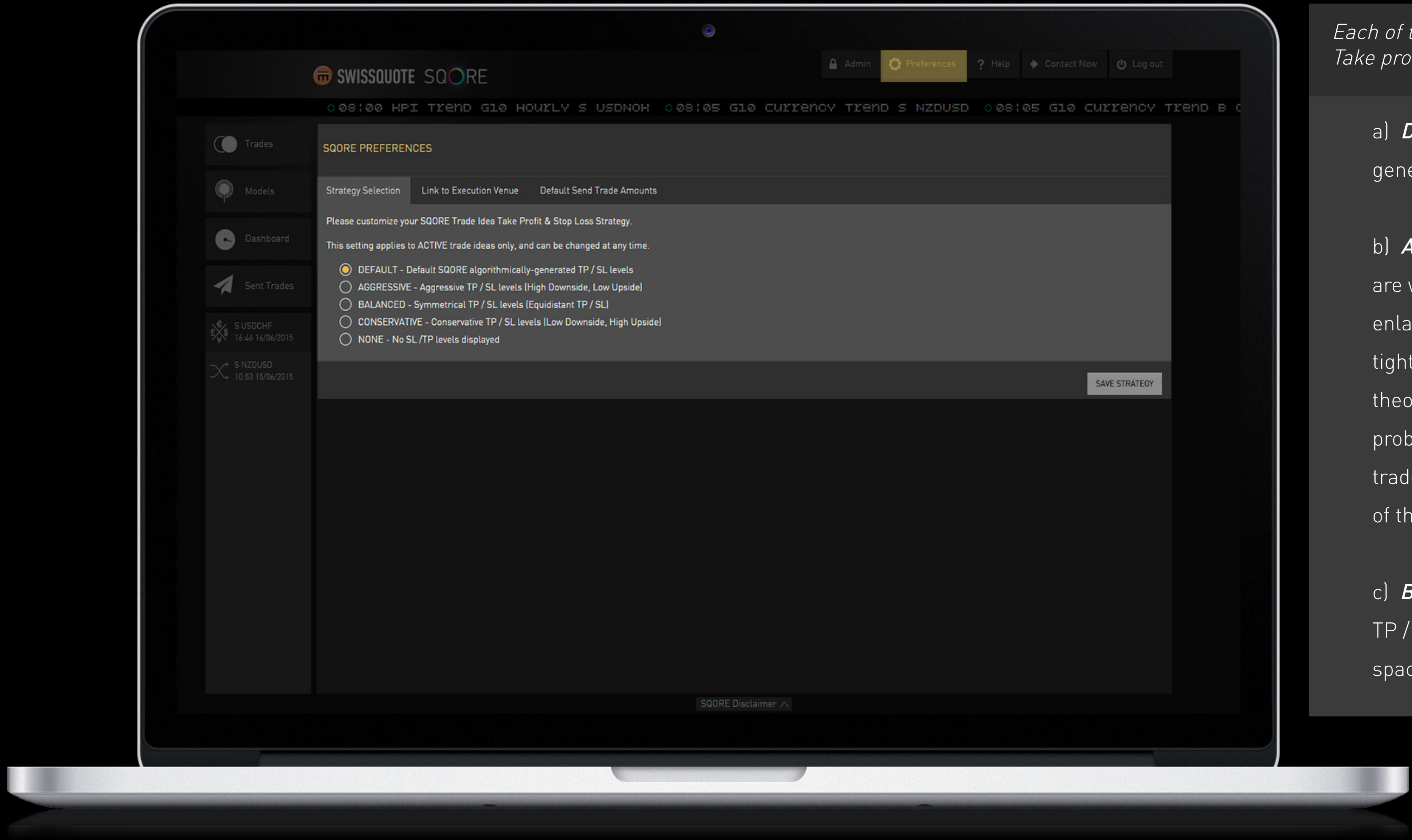
4. Menu Bar



A. PREFERENCES - STRATEGY SELECTION

Strategy Selection allows you to customize Swissquote SQORE to your preferred risk level. You can also tweak the Strategy Selection to see how each model would perform under different parameters. The Strategy Selection is based on a volatility multiplier to adjust to changing market dynamics.
Please note that the information provide on the Models page is for the default setting and does not change with the strategy selection. Swissquote SQORE will always calculate the models based on the default preferences.

4. Menu Bar



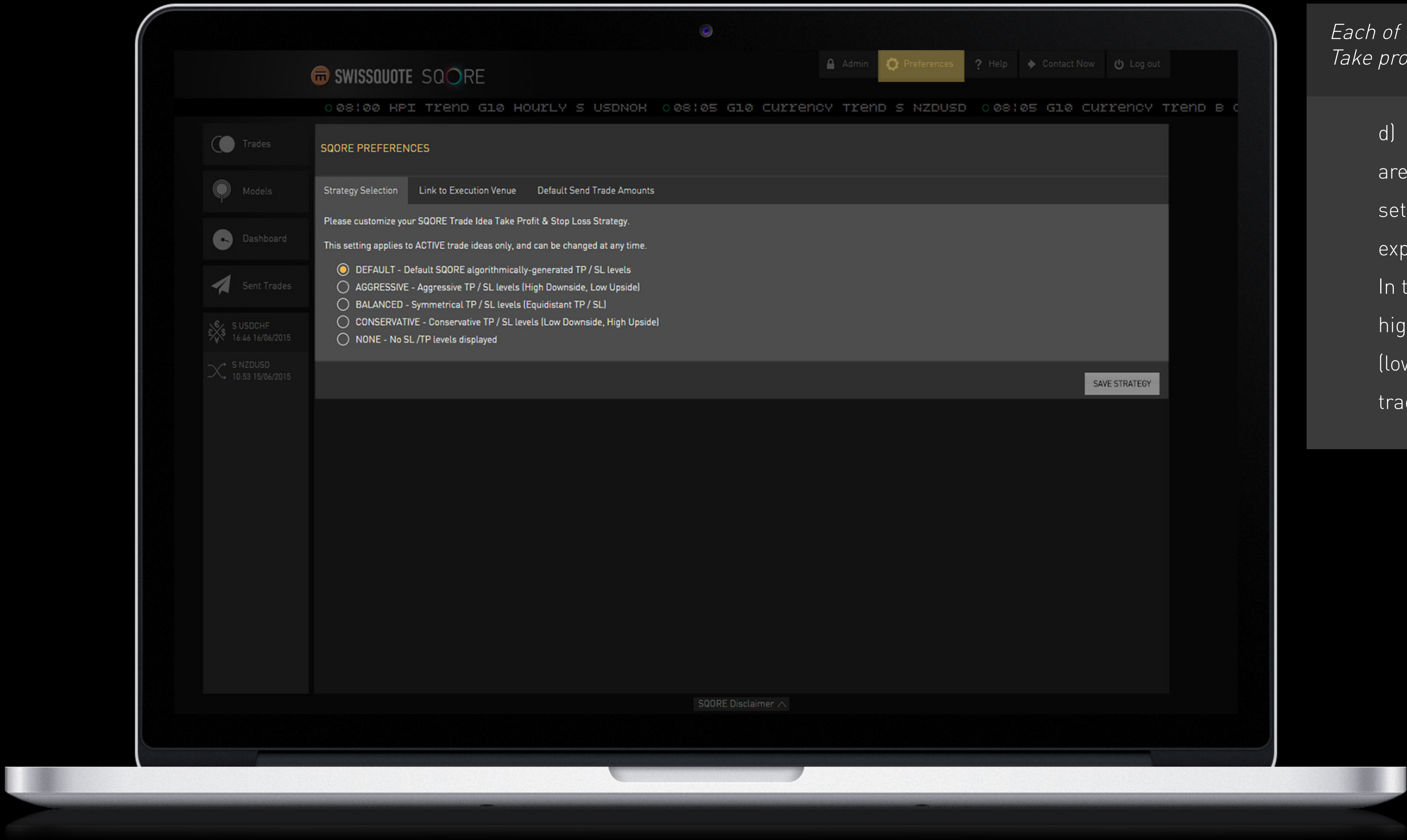
Each of the five options adjusts the Take profit and Stop loss strategy.

a) ***Default***: the basic TP / SL levels generated by the algorithms.

b) ***Aggressive***: for traders that are willing to take more risk by enlarging the downside (SL) and tightening the upside (TP). In theory this would increase the probability of higher winning trades and also increase the size of the downside drawdown.

c) ***Balanced***: in this strategy the TP / SL points are equidistantly spaced apart.

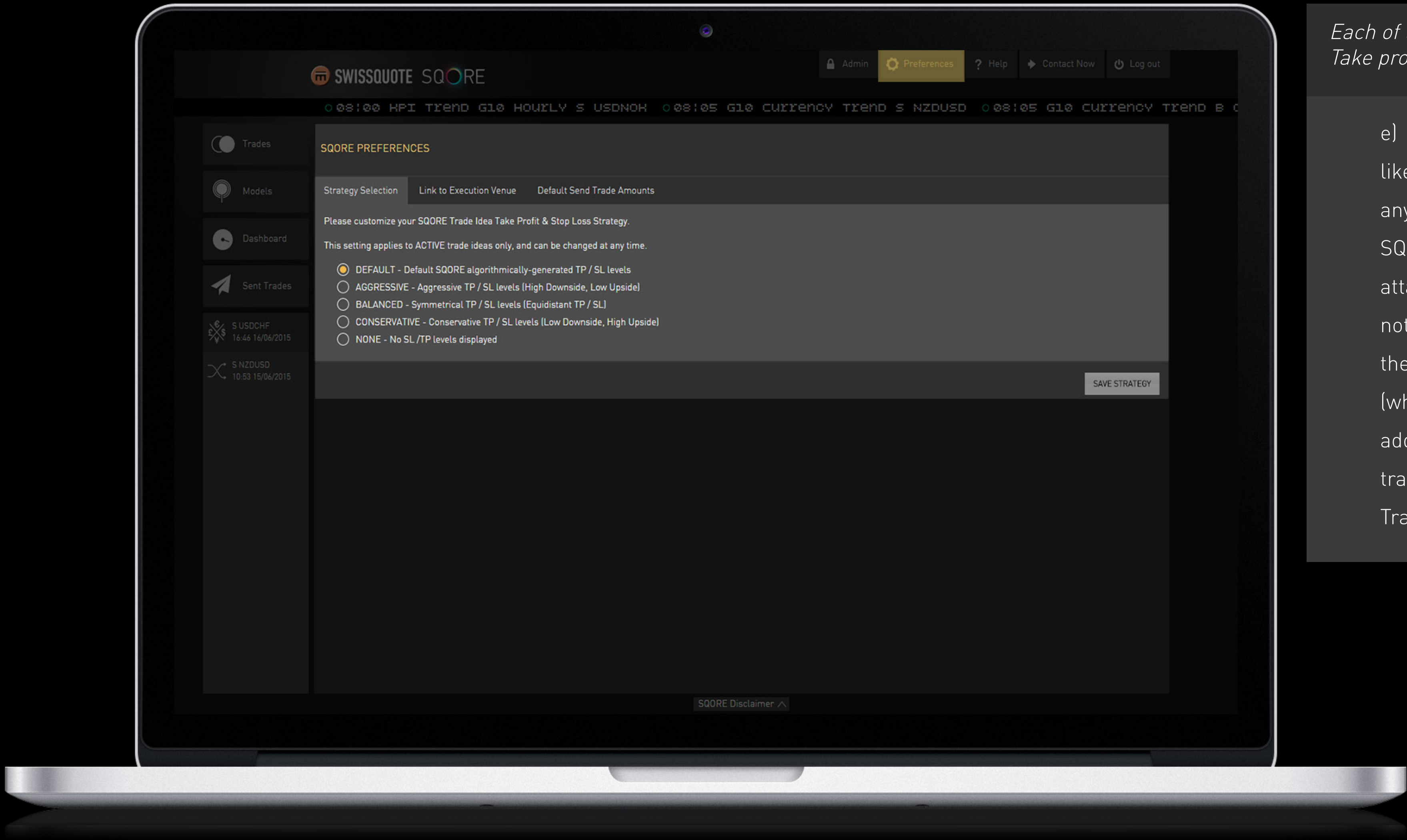
4. *Menu Bar*



Each of the five options adjusts the Take profit and Stop loss strategy.

d) ***Conservative***: for traders that are more risk averse. This strategy sets a tight downside (SL) and expands the upside potential (TP). In theory this strategy will have a high amount of small losing trades (low win ratio) and big winning trades.

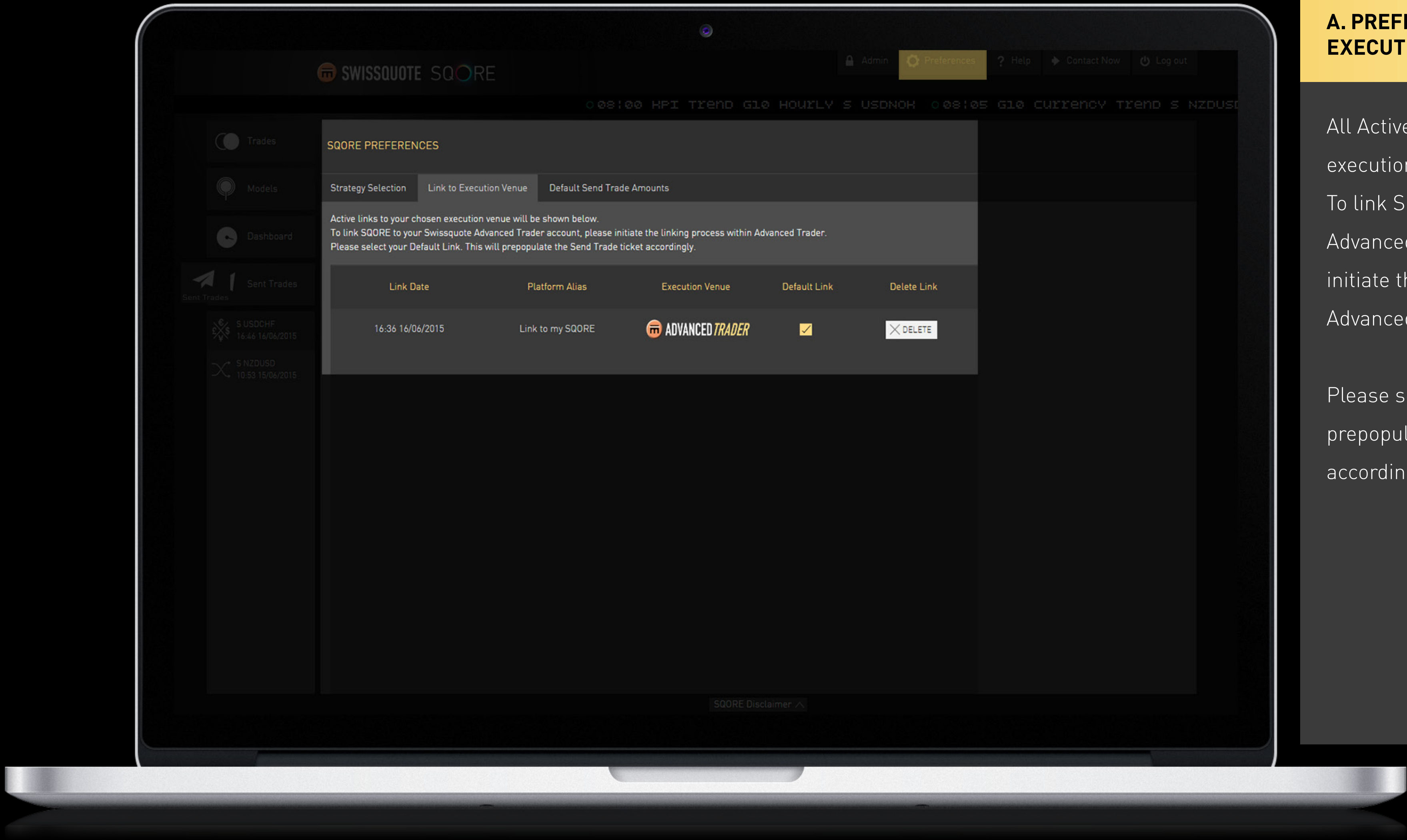
4. *Menu Bar*



Each of the five options adjusts the Take profit and Stop loss strategy.

e) ***None***: for traders that would like to manage trade ideas without any guidance from Swissquote SQORE. There will be no SL or TP attached to a trade idea. Please note that trade ideas will exist on the visual panel until they expire (which may take up to 1 month). In addition, there will be no Tracked trade ideas in the Dashboard's Tracked Trade Ideas section.

4. *Menu Bar*

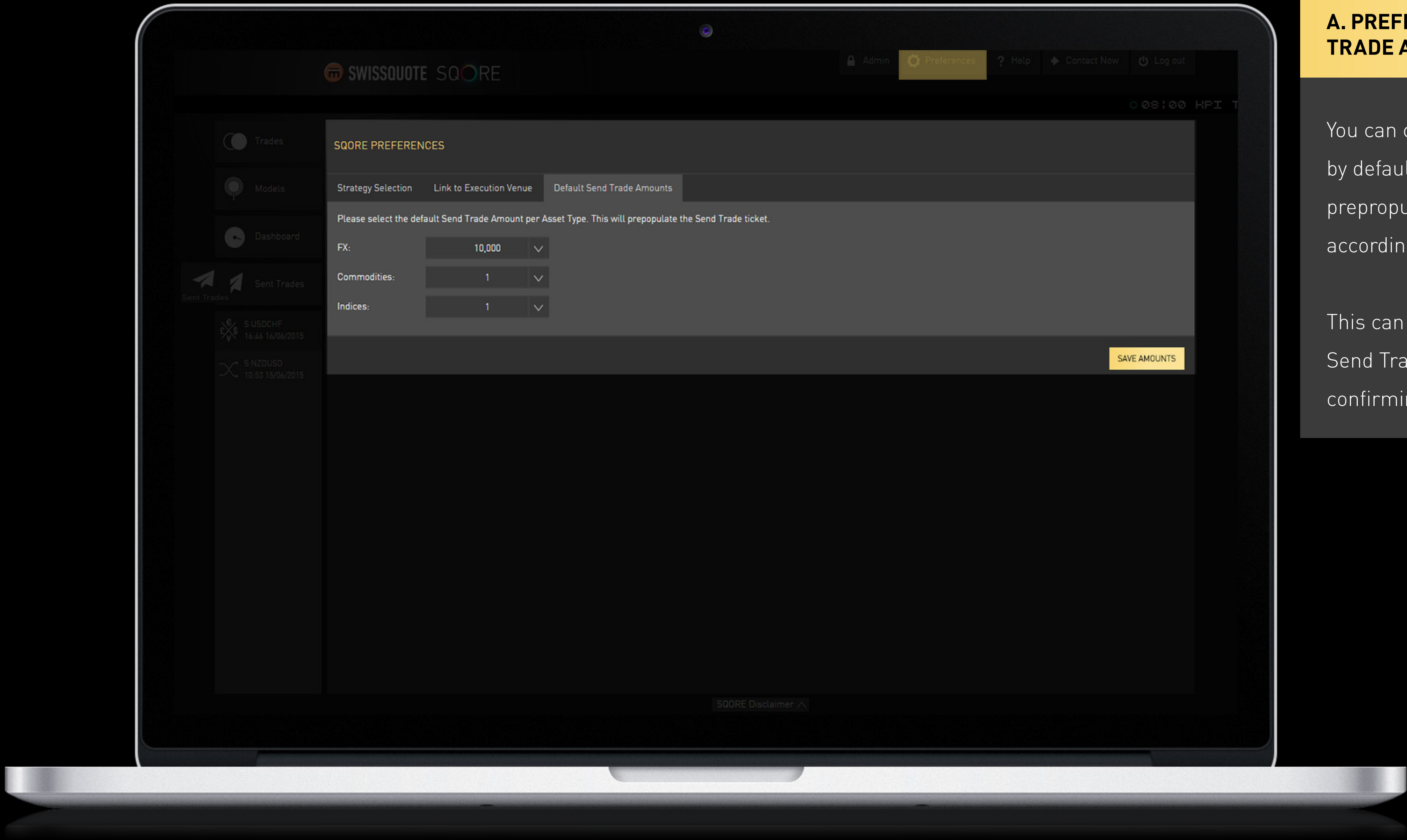


A. PREFERENCES - LINK TO EXECUTION VENUE

All Active links to your chosen execution venue are displayed here. To link SQORE to your Swissquote Advanced Trader account, please initiate the linking process within Advanced Trader.

Please select your Default Link to prepopulate the Send Trade ticket accordingly.

4. *Menu Bar*

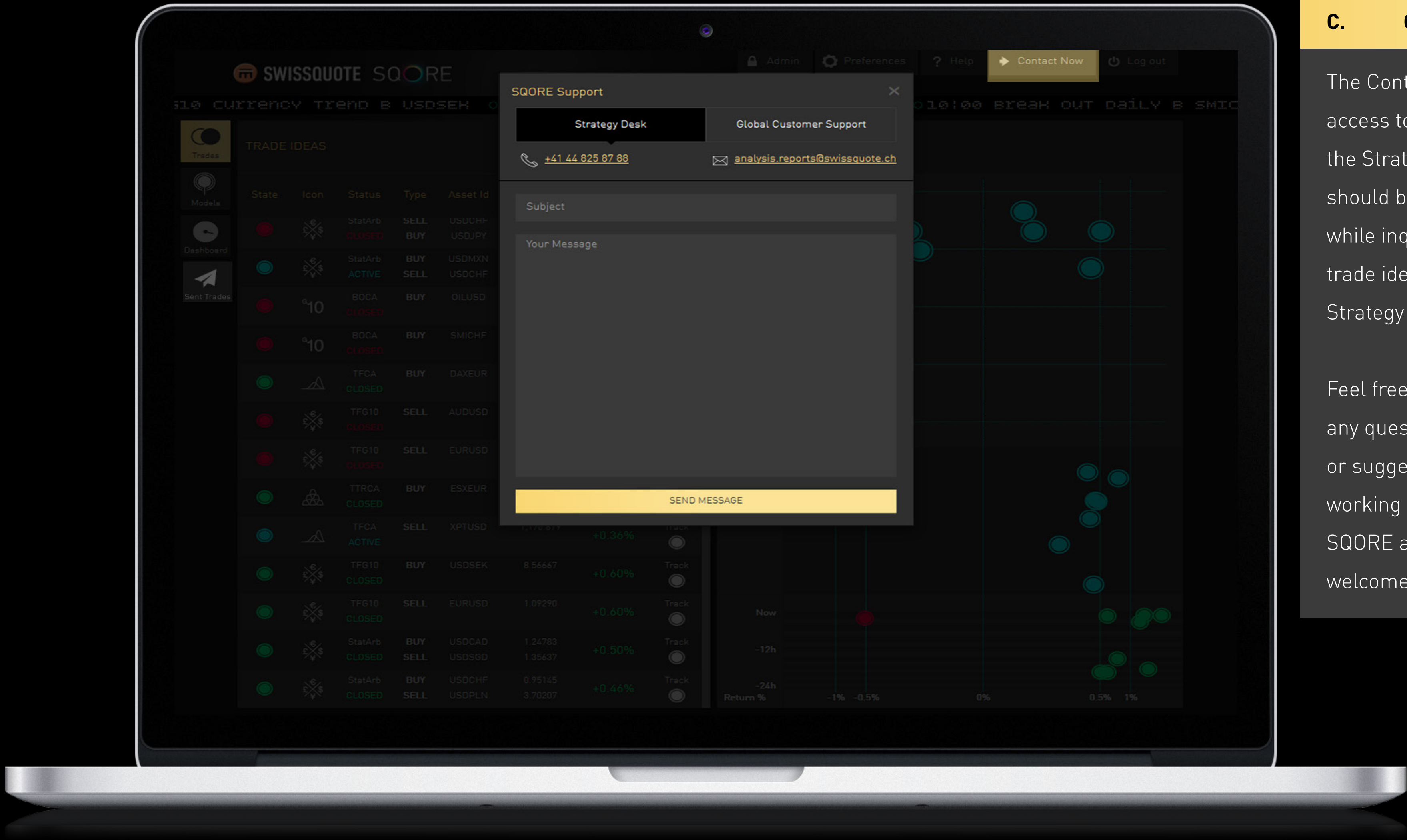


A. PREFERENCES - DEFAULT SEND TRADE AMOUNTS

You can choose the amount to send by default per asset type, which will prepropulate the Send Trade ticket accordingly.

This can always be changed on Send Trade ticket at any time before confirming your trade.

4. *Menu Bar*



C. CONTACT NOW

The Contact Now button provides direct access to our Customer Support and the Strategy Desk. Technical questions should be sent to Customer Support while inquiries around models and trade ideas should be directed to the Strategy Desk.

Feel free to drop us a line with any questions, comments and/ or suggestions. We are constantly working on improving Swissquote SQORE and your feedback is more than welcome!

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