

## Alpha Trader v1.0.0.0

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## Introduction

Alpha Trader is the front-end application that allows a trader to perform several trading functions that include:

- Real-time market data of individual contracts and market indices.
- Support for multiple exchanges (NSE, BSE, and MCX) and segments (Equity, F&O, Currency, Commodity).
- Various types of orders - Normal Buy/Sell, Cover Order, Bracket Order, AMO.
- View Order History, Trades and Positions report.
- View Stock Holdings and Accounts.
- Trade from charts with Normal Order, Bracket Order and Cover Order.
- Quick limit orders through chart.
- 80+ Technical Indicators for Technical Analysis.
- 10 types of charts such as Candle, Bar, Heikin-Ashi, etc.
- Several drawing tools for analysis.
- Free historical data for Back-testing.
- Scripted Alerts and Scanner.
- Access to public Expert Advisors.
- Predictive Close Prices for FNO.

These features are explained comprehensively in consecutive sections. The document is classified into the various menus available in our trading platform.

It allows the end user to trade through a single account id. Few key features that can be useful to any user are given in this document.

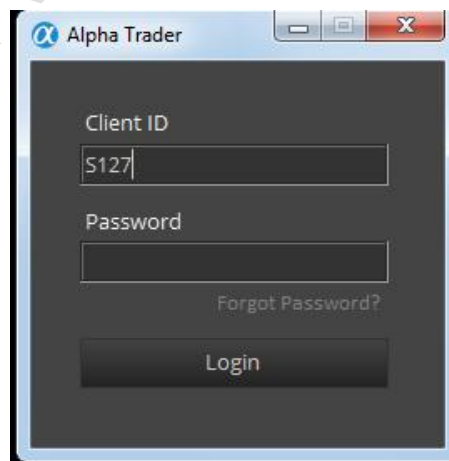
## Login

Alpha Trader is initiated by first logging in to it.

### Login with Two Factor Authentication (2FA)

2FA login process is used to verify the authentication of the valid user while logging in. 2FA process is implemented through 2FA Question and Answer.

**Step 1:** After installing Alpha Trader on system, an icon named Alpha Trader will be placed on the desktop. One has to just double-click on the icon to start the application. After the application starts, a login window will show up asking for Client Id and Password. When users open his/her trading account with SAS ONLINE, user gets a Client Id and two passwords (one each for login and transaction). Enter the Client-Id and on successful authentication of client id the user will be able to enter the password. After entering login password, hit Login.



Following is a detailed description of the functions given in the Login window:

**Client Id:** The user name or login id of the user is to be entered.

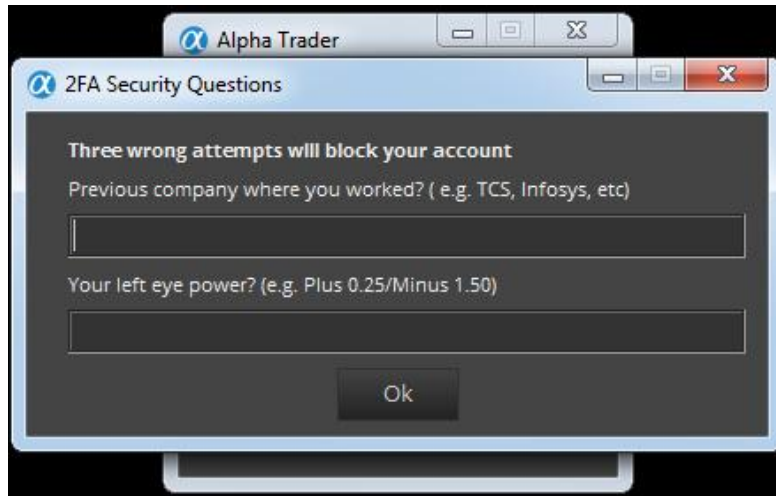
**Password:** The corresponding password for the user name must be entered.

**Forgot Password:** This can be used, when user forgot his/her password.

**Change Password:** This option can be used to change the existing password to new one.

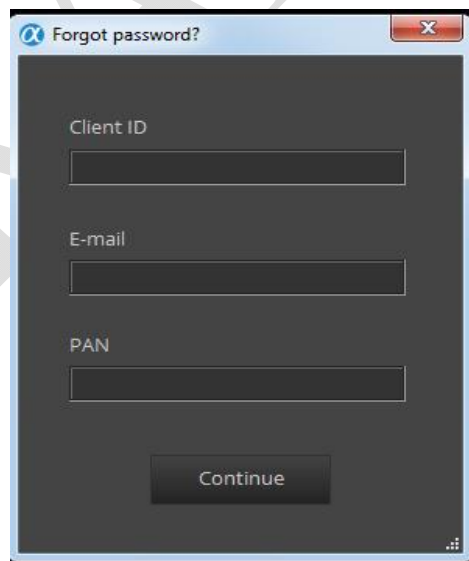
**Login:** The user has to simply click on the 'Login' button or press 'Enter' on his keyboard, after entering relevant log in details on his terminal.

**Step 2:** After entering the password user has to click on Login, user will be directed to the 2FA security questions window. System will provide the random questions to user which user has answered when he/she is logging in for the first time. User has to answer 2 questions correctly to login successfully into Alpha Trader. Answer the question appeared in 2FA security question window and press OK to login.



## Forgot Password

If a user click on forgot password, the below showed window opens and one can give his/her client ID, E-mail, PAN details and can generate new password to his registered E-mail ID.



## Market Watch Features

All features related to market menu are described below

Trading symbol	%Change	Chart	LTP	Bid qty	Bid rate	Ask rate	Ask qty	Open	High	Low	Prev cl.	Volume	Open in.	Total bl.	Total as.	Predictive cl.	Net change
20MICRONS-EQ	N/A		37.70	0	0.00	0.00	0	0.00	0.00	0.00	0.00	0	0	0	0	0	37.70
3INFOTECH-EQ	0.00		6.45	0	0.00	0.00	0	6.45	6.45	6.45	6.45	0	0	0	0	0	0.00
8KMILES-EQ	N/A		1946.10	0	0.00	0.00	0	0.00	0.00	0.00	0.00	0	0	0	0	0	1946.10
AZZINFRA-EQ	0.00		44.00	0	0.00	0.00	0	38.00	44.00	38.00	44.00	0	0	0	0	0	0.00
AARTIDRUGS-EQ	N/A		486.05	0	0.00	0.00	0	0.00	0.00	0.00	0.00	0	0	0	0	0	486.05
AARVEEDEN-EQ	N/A		73.60	0	0.00	0.00	0	0.00	0.00	0.00	0.00	0	0	0	0	0	73.60
ABAN-EQ	0.00		217.80	0	0.00	0.00	0	221.60	250.00	215.00	217.80	0	0	0	0	0	0.00
ABB-EQ	0.00		1165.85	0	0.00	0.00	0	1191.15	1191.15	1050.00	1165.85	0	0	0	0	0	0.00
ABFRL-EQ	0.00		155.00	0	0.00	0.00	0	151.05	155.00	151.05	155.00	0	0	0	0	0	0.00
BANKNIFTY16NOVFUT	-5.01		19509.30	0	0.00	0.00	0	0.00	0.00	0.00	20537.55	0	0	0	0	0	-1028.25
IBREALEST-EQ	0.00		90.50	0	0.00	0.00	0	95.05	97.10	90.50	90.50	0	0	0	0	0	0.00

Market Watch is one of the most commonly accessed features in any trading application. The user can do following things using a market watch.

- Set up a portfolio of scrips of their choice in the order he/she wants to appear.
- One can view any relevant information pertaining to any scrip/contract by setting up the columns in the desired sequence. This can be done from the list of available columns.
- The trader can select columns based on his choice.
- The user can call other functions like the Order entry window, SnapQuote (market depth window), Pending order window, Net position window and Tradebook for the scrip when one has selected from the market watch. This is done by pressing the key strokes assigned to that particular function.
- To organize the scrips, drag and drop any rows. The user can sort the scrips in ascending or descending order by a click on the top of the column, which the user wants to treat as the parameter to sort the market watch.
- User can call few important features from the market watch by just a right click. Few features that can be called from market watch include various order placing windows, Order book, Trade book, scrip properties, SnapQuote, positions and holdings.
- To remove any scrip, right click and select 'Delete' or press Delete Button.

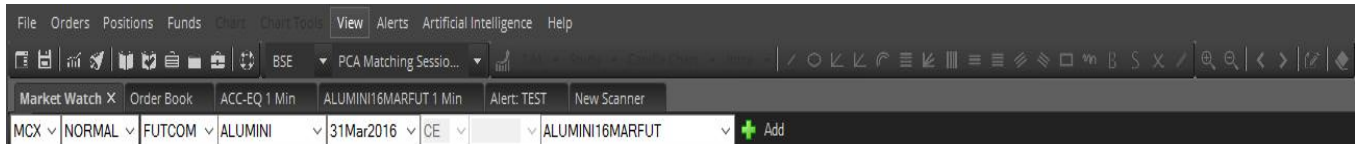
## Market Watch Toolbar

The Market Watch toolbar (combination of fixed chart toolbar and positions toolbar) appears at the top. To add scrip, select a specific instrument through the given filters and click on 'Add' button.

- User can open Intra-day chart for any scrip by double clicking on the chart column.
- While logging out of the application, Alpha Trader will ask user to save market watch, user can click on save or user can change the settings by un-checking the saving market watch on exit in Market Watch tab in User

Settings, it'll automatically save the market watch while exiting Alpha Trader and the same market watch will be opened for him/her for next login time.

User can use MarketWatch toolbar to open Order book, Trade book, Admin position, Cash Position, Stock Holdings, Chart drawings. User can open a chart, save user workspace or load previously saved workspace. User can also open Alerts window.



## Scrip Details

Shortcut: Shift + F7

The screenshot shows the ScripInfo window for AARTIDRUGS-EQ. The window displays a table of properties and their values.

Property	Value
Symbol	AARTIDRUGS
Series	EQ
Board lot qty	1
Instrument	-
Exchange	NSE
Issue start Date	11 Sep, 1996
Issue rate	0
Issue capital	2.42171
List date	11 Sep, 1996
Permitted to trade	0
Nodel start date	1 Jan, 1980
Nodel end date	1 Jan, 1980
Book cls start date	NA
Book cls end date	NA
Record date	02 Nov 2016
Remarks	NA
Warning	NA
Freeze	155715.0
Circuit rating	513.75-770.55
Read m date	NA
Expulsion date	NA
Int pay date	NA
Expiry date	NA
Local update time	03 Nov 2016
Price units	NA

The user can call this window by pressing shift+F7 for any of the scrip added in market watch after selecting it. It provides the basic information about the selected scrip. The information also includes board lot quantity, freeze quantity, tick size, Price unit, Exchange, Series, etc.

## Products Tag (Product Type)

Alpha Trader got some pre-defined product tags which include Normal (NRML), Cash and Carry (CNC), Margin Intraday Square-Off (MIS).

- NRML: For trading FNO for overnight position.
- CNC: For trading Equity in delivery.

- MIS: For trading Equity & FNO in intraday.

At the time of order placement the user can select the appropriate product under which the order has to be placed. This feature is not only useful from RMS and Compliance point of view but also from MIS reporting point, it is of great significance.

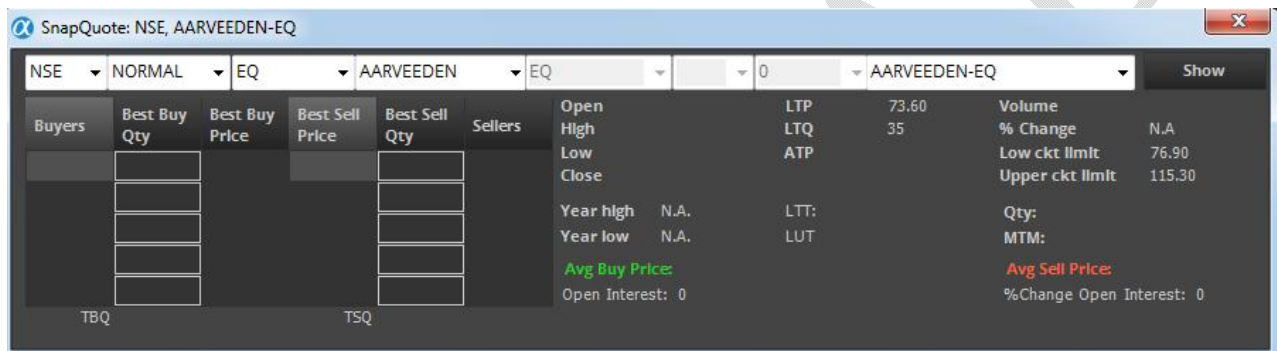
## Validity

Alpha Trader has following validity for all exchanges:

- DAY
- IOC

Alpha Trader does not support GTC ,GTD currently.

## SnapQuote (Market Depth)



The user can call the SnapQuote window for the selected scrip by pressing F6, by double clicking on the selected scrip or from the Quick order window in charts. The window gives the complete shot of the way the scrip is performing in the market on the day as well as at that particular point of time. The information like open, high, low, previous day close gives an indication how the scrip fared on that particular day and the top five bid/ask gives the indication about what kind of liquidity that scrip has in the market and at what price levels. This information will give better picture about the scrip to the user before taking position in that particular scrip. User can also compact SnapQuote, for this, select compact SnapQuote from user settings.

## Charts

**Shortcut: Shift + C**

To load a chart, click the chart button on the MarketWatch toolbar or can use shortcut key or by right clicking on a selected scrip and click on Chart.

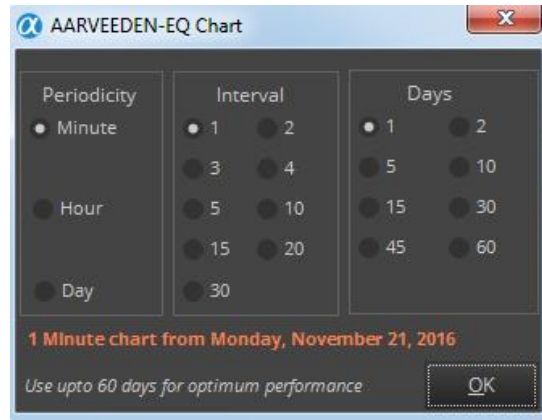
**Note: Intraday Charts can also be open by double clicking on charts columns for particular scrip.**



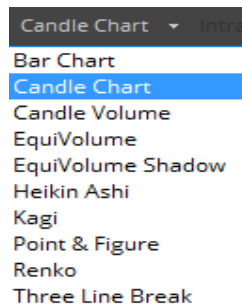
Change the icons

A chart settings screen will display. Here user will select Periodicity, Interval, and no. of Days/Months for the selected scrip. Click the OK button to load the chart. By default the selected Symbol in MarketWatch tab is populated. For the optimum performance, always use up to 60 days for the optimum performance.





By default a two-dimensional candle chart will display. User may change the candle style to other chart styles listed in the Price Style drop down menu in advanced chart toolbar.

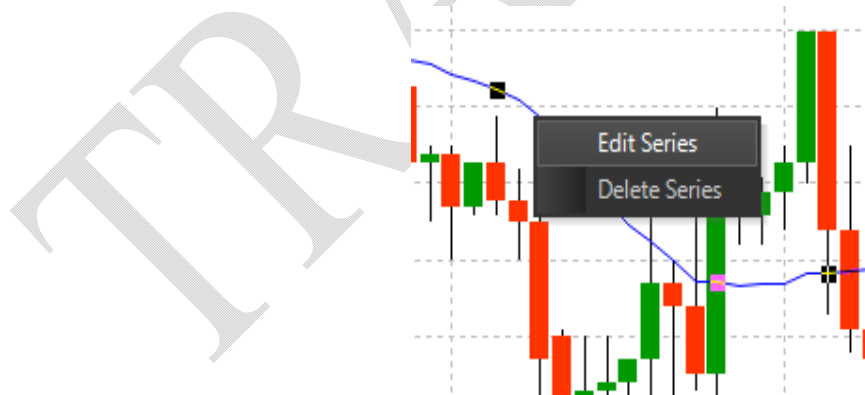


Technical indicators may be added to the chart via the Study menu in advanced chart toolbar. Simply search for a technical indicator in study menu or select any indicator by scrolling through the given list of technical indicators in the Study menu and then click on it or press enter.

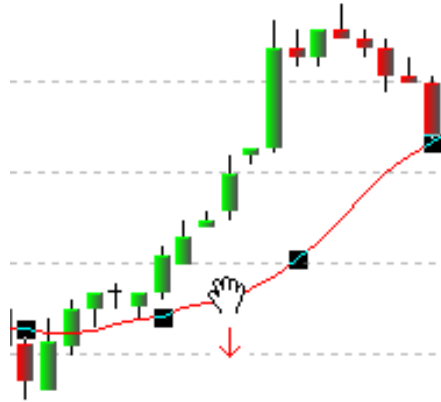
If multiple charts are shown on the same screen, a selection border will be drawn around the selected chart. It can be seen in the image below, a blue selection border has been drawn around the lower chart area, which is currently selected. Selection border drawn around the selected chart can be decided according to the Dark themes. For Dark theme, selection border color is white.



Once a technical indicator has been added to the chart from Study menu, user may edit the indicator's properties by first left clicking on the indicator or by double clicking on the indicator, then right clicking and selecting "Edit Series". The indicator property dialog will display, where user can change indicator parameters and colors.



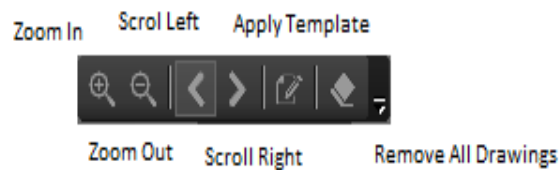
User can drag and drop series from one area of the chart to another. To do so, select series and then drag it to other area (such as on top of the price bars).



User can also resize chart panels. Simply click near the borders and drag the panel either up or down.

To navigate the chart, click the zoom in, zoom out, scroll left and scroll right buttons located on the chart toolbar.

**Note: a chart can only be scrolled after user zoomed in to a certain degree.**



Alpha Trader also allows user to apply templates to charts so that user favorite indicators and colors can be applied at once. Simply click the “Apply Template” button on the toolbar or select the template of his/her choice.

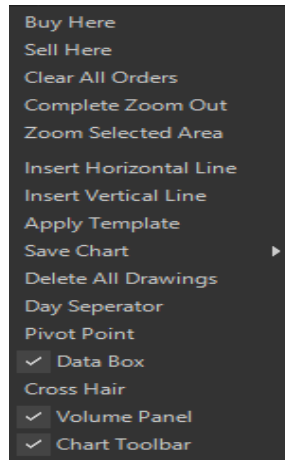
**Note: the chart must have a volume series in order for this feature to work.**

Delete All Drawings button can remove all the drawing objects in one click from the selected chart.

Trend lines, Gann fans, Error channels and other line studies can be added via the “Chart Tools” menu in the main menu or from the advanced chart toolbar. Drawings can be saved in save chart as template.

**Note: Drawings can be applied to the same positions (or data points) where the drawings were drawn, in case data points are not found, drawings may not be drawn.**

Main Menu



Right Click Menu in chart

User can also add buy, sell, exit symbols, text objects, and other objects via the “Chart Tools” menu or from the advanced chart toolbar. These objects may be placed anywhere on the chart and may be repositioned or removed by a left click.

### Important Features in Charts

- **Day Separator:** User can use this feature on charts by selecting Day Separator in right click menu in charts. This feature will separate all the candles day wise from starting of the trading day to the end of the day. This feature is available for Candle and Bar charts only.
- **Pivot Points:** User can use this feature on charts by selecting Pivot Points in right click menu in charts. Pivot Point is a price level that is used by traders as a possible indicator of market movement. A Pivot Point is calculated as an average of significant prices (high, low and close) from the performance of a market in the prior trading period.
- **Data Box:** User can use this feature on charts by selecting Data Box in right click menu in charts. This box will show OHLCV values by moving the mouse over all the candles and values of Indicators added on charts. Data Box makes it easy for user to see the OHLCV and indicators values.
- **Cross Hair:** User can use this feature on charts by selecting Cross Hair in right click menu in charts. While the cross hair mode is in use, traders can move the cross hair over any price bar, or any part of a price bar, and the corresponding time and price values will be readily identifiable. Cross hair mode makes it easy to find a price bar's high or low, and the time and day that the bar printed.
- **Home key:** User can use Home key from keyboard to see first 100 candles of the chart opened.
- **End Key:** User can use End key from keyboard to see latest 100 candles of the chart opened.

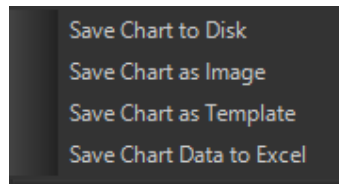
### Saving and Loading Charts

Loading of chart could be accessed from the file menu in Main menu. The Charts loaded from disk will be live.

**Note: If internet connection is not stable or disconnecting frequently, candles in saved chart will be missing or there will be some missing data in Charts loaded from disk.**

Charts can be saved and loaded back into Alpha Trader using Load Chart from Disk menu in File Menu.

Save Chart saves the file on the Disk. Save Chart as image saves the charts as snapshot. Also, Chart Template could be saved for later applying on charts to do similar technical study on all the charts.



## Chart Trading

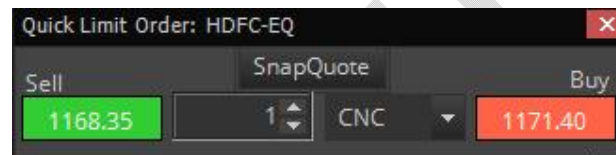
Orders through charts can be put in two ways

- Quick Limit Order Window
- Trade by right click menu in Charts.

### Trading through Quick Order

**Shortcut: Ctrl + Q**

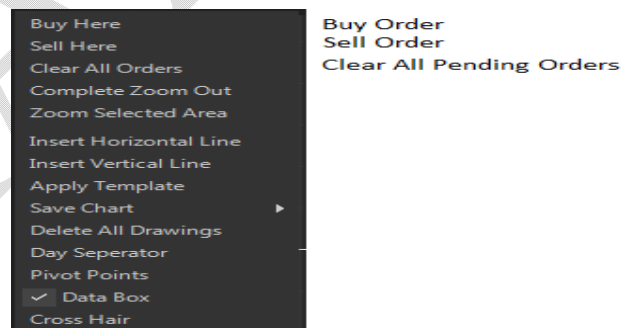
Limit Orders could be placed through Quick Order sticker placed in top left corner of the chart. Buy and sell button are respectively showing the best available for selling and buying. It's a movable sticker and could be placed according to convenience. Also it could be disabled if the user does not want to see it, by pressing **Ctrl + Q**, by un-checking View Quick Order in View menu or by un-checking in the Chart settings.



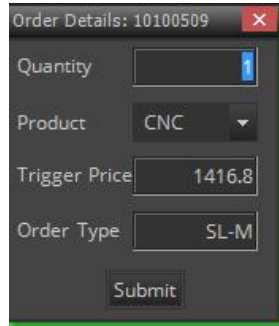
A confirmation message for submit order comes showing the details of the order. Once submit button is clicked or enter key is pressed the order is send.

### Trading through Right Click Menu

User can trade from any chart by right clicking and selecting "Buy Here" or "Sell Here".



Please note that only Limit and Stop Loss Market Order type is supported.



Order Details: 10100509

Quantity

Product CNC

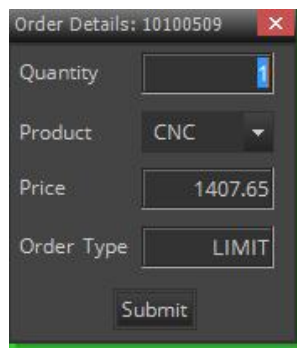
Trigger Price 1416.8

Order Type SL-M

Submit

Chart Order above LTP

When user place a Buy order on a chart if price related to cursor position is above the Close price of last candle then it would select SL-M order type and if it is below it will put a Limit order type.



Order Details: 10100509

Quantity

Product CNC

Price 1407.65

Order Type LIMIT

Submit

Chart Order below LTP

Similarly, if user place a Sell order on the chart, if price related to cursor position is above the Close price of last candle then the order type selected would be Limit and if price is below Close price of last candle the order type selected would be SL-M.

User order details can be viewed in Order Book (**Press F3**)

**WARNING! When using this feature be SURE to create User trigger line ABOVE or BELOW the candle and not INSIDE the candle. By placing User trigger line INSIDE a candle, user order will be triggered even though the candle may not have penetrated from the reverse side.**

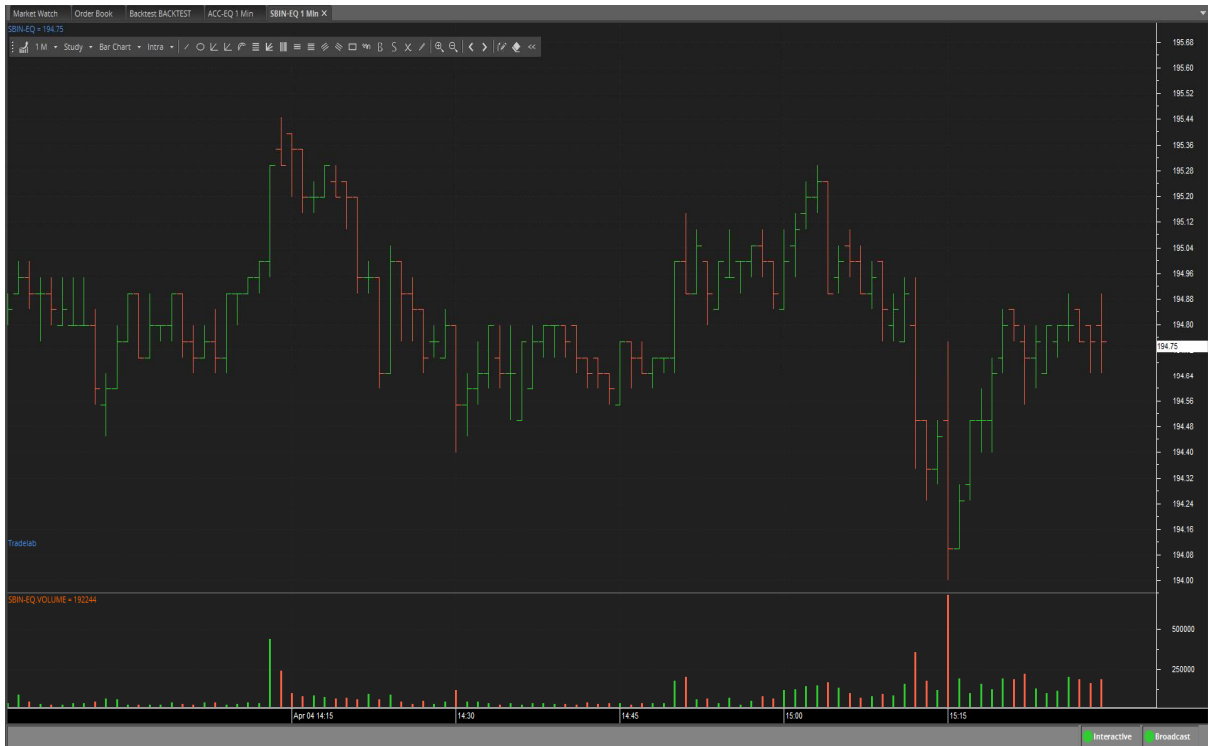
Do not attempt to use this feature with price styles other than candlestick or OHLC bars.

## Chart Types

The various types of charts available in Alpha Trader are:

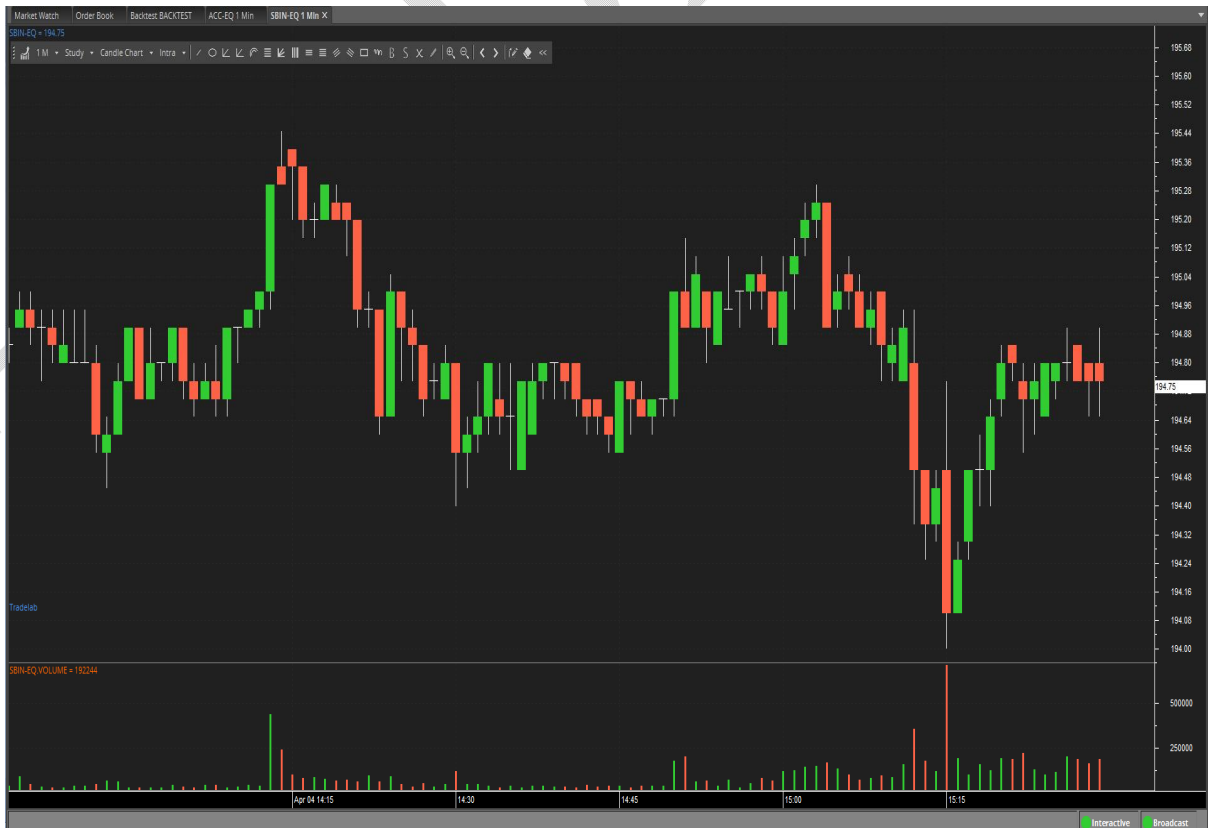
### Bar Chart

This chart type is the most common way to display data for analysis. Open, high, low, and close prices are shown for the time increment represented by the bar.



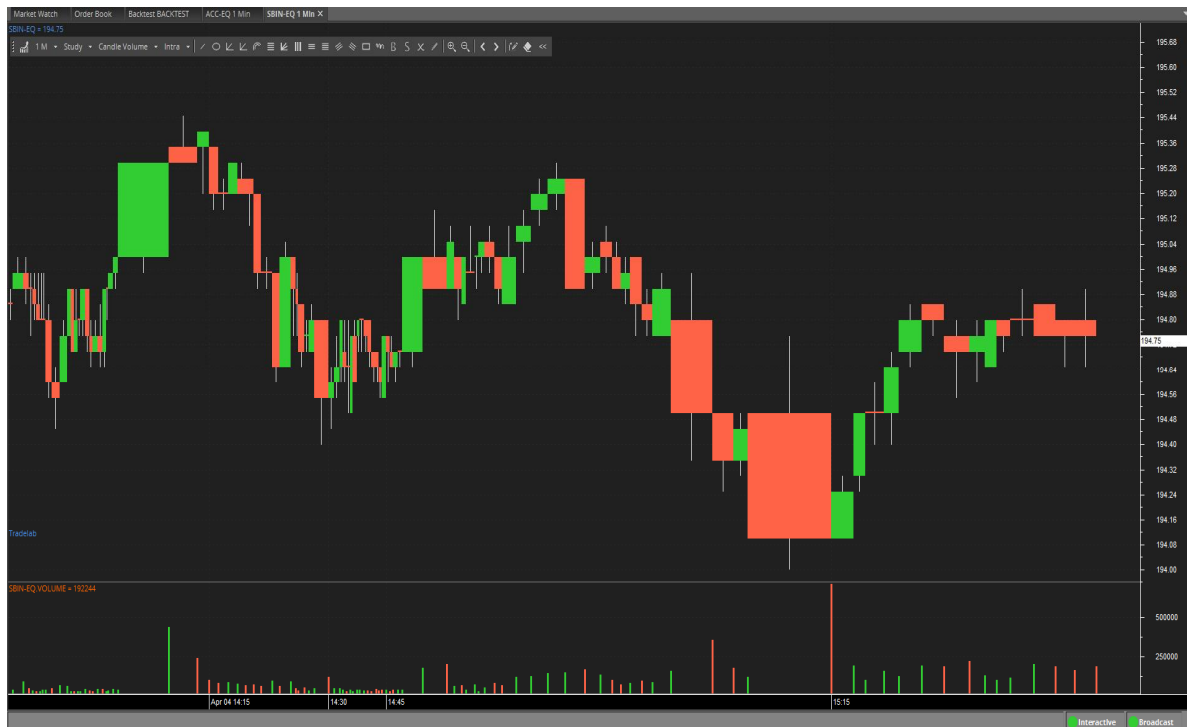
### Candle Chart

This chart type uses the same price data as regular bar charts, with each candlestick representing the open, high, low, and close. The thick part, called the real body, represents the range between opening and closing prices. Long thin lines, shadows and wicks/tails, represent the range of price movement for the bar.



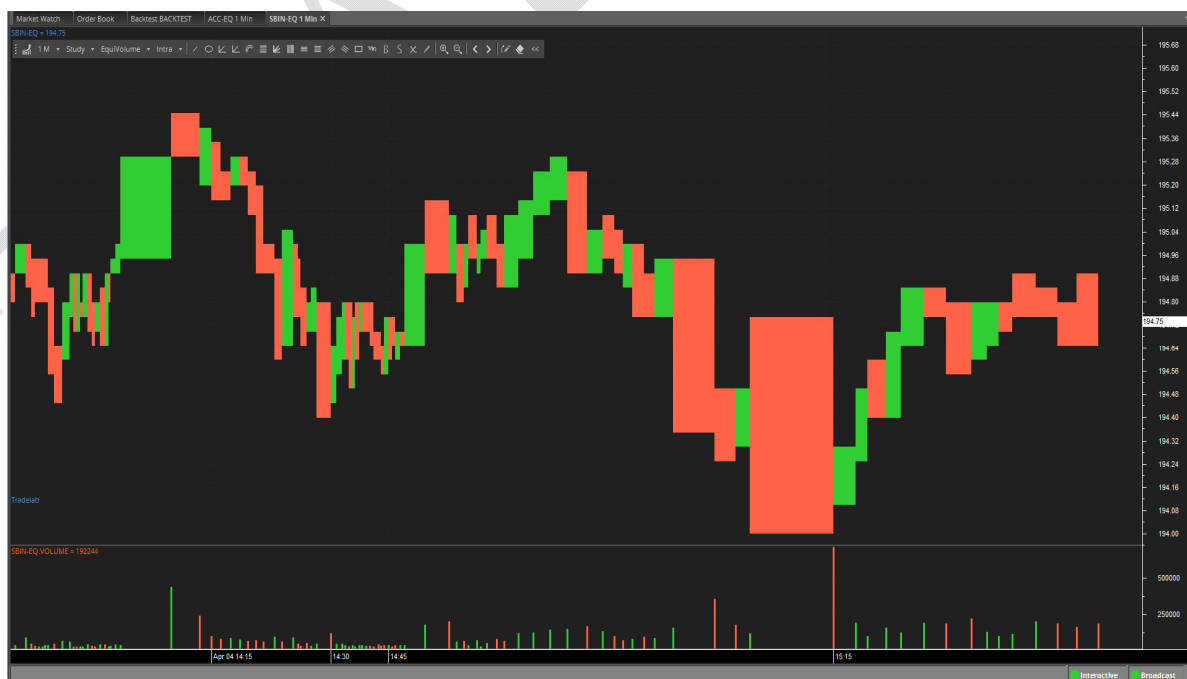
## Candle Volume

As its name implies, Candle Volume charts merge volume into candlesticks. This allows chartists to analyze both price action and volume with one look at the price chart. It shows candle ticks are used to see the open and close for each period, as well as the high and the low.



## Equi Volume

Equi Volume is a price plot that incorporates volume into each period. Equi Volume charts look similar to candlestick charts, but the candle ticks are replaced with Equi Volume boxes that can be square or rectangle.





## Equi Volume Shadow

Equi volume shadow measures the relationship between price, volume and the shadow. Price is measured on the vertical axis and volume is measured on the horizontal axis. It combines price and volume in a two-dimensional box. The top line of the box is the high for the period and the bottom line is the low for the period. The width of the box represents the volume for the period. The shadow (empty region in the box) is based on the difference between open and either high or low depending on whether the price closed lower than the open or higher than the open for that interval bar.



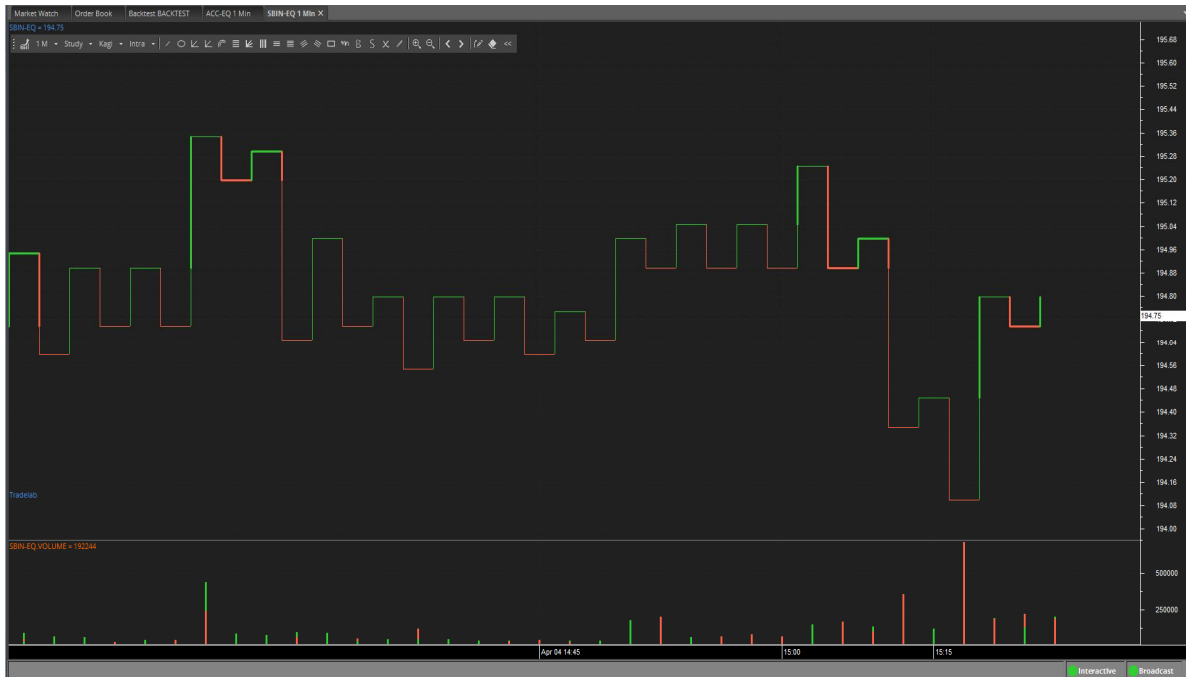
## Heikin Ashi

Heiken-Ashi means “average bar” in Japanese. Open, high, low and close prices of HA candle ticks are not actual prices, they are results from averaging values of the previous bar, which helps eliminate random volatility.



## Kagi

This chart type looks like a continuous line that changes directions and switches from thin to bold. The direction changes when the price changes beyond a predefined amount, and the line switches between thin and bold if the last change bypassed the last horizontal line.



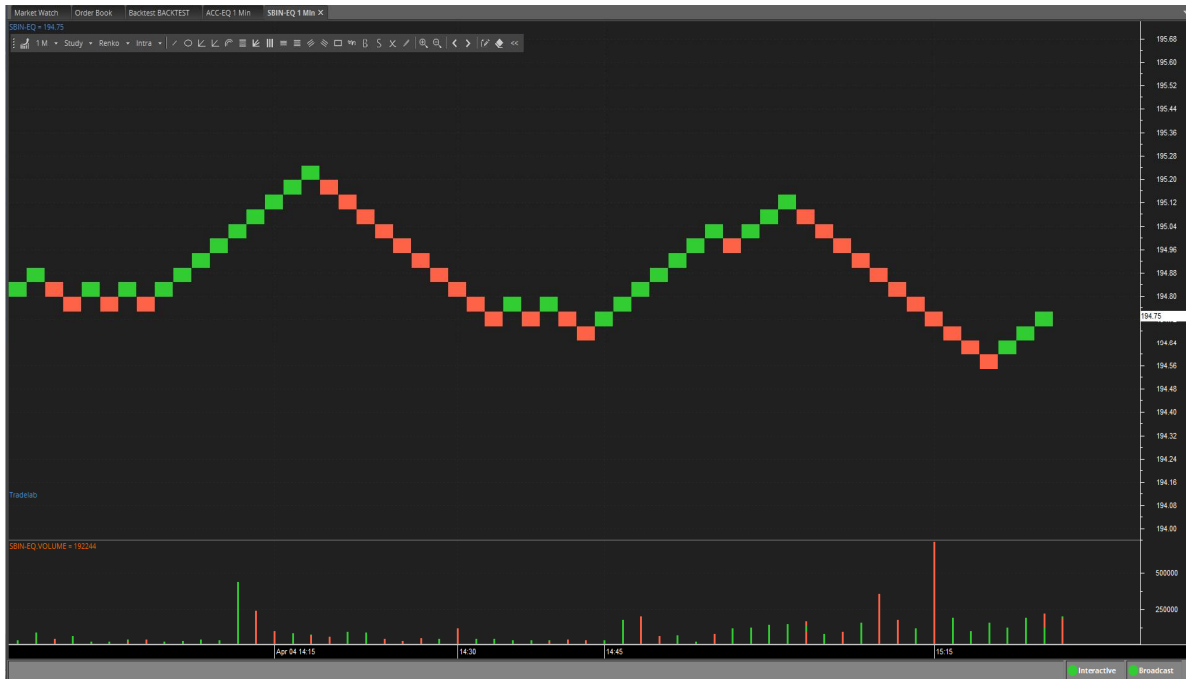
## Point & Figure

This chart type only plots price movements, without taking time into consideration. A column of X's is plotted as the price rises—and O's as the price drops.



## Renko

This chart type only plots price movements, without taking time or volume into consideration. It is constructed from ticks and looks like bricks stacked in adjacent columns. A new brick is drawn after the price passes the top or bottom of previously predefined amount.



## Three Line Break

This chart type only plots price movements, without taking time or volume into consideration. This chart type displays a series of vertical boxes that are based on price changes.



## Technical Indicators

There are 80 popular technical indicators provided with Alpha Trader. These technical indicators help user to analyze the charts.

### Adding Technical indicator

The available technical indicators in Alpha Trader are as follows:

#### Simple Moving Average

The Simple Moving Average is simply an average of values over a specified period of time. A Moving Average is most often used to average values for a smoother representation of the underlying price or indicator.

#### Exponential Moving Average

An Exponential Moving Average is similar to a Simple Moving Average. An EMA is calculated by applying a small percentage of the current value to the previous value. An EMA applies more weight to recent values.

#### Time Series Moving Average

A Time Series Moving Average is similar to a Simple Moving Average, except that values are derived from linear regression forecast values instead of raw values.

#### Triangular Moving Average

The Triangular Moving Average is similar to a Simple Moving Average, except that more weight is given to the price in the middle of the moving average periods.

#### Variable Moving Average

A Variable Moving Average is an exponential moving average that adjusts to volatility.

#### VIDYA Moving Average

VIDYA (Volatility Index Dynamic Average), developed by Chande, is a moving average derived from linear regression R2. As VIDYA is a derivative of linear regression, it quickly adapts to volatility.

#### Welles Wilder Smoothing

Wilder's Smoothing indicator was developed by Welles Wilder and mentioned in his book "New Concepts in Technical Trading". Wilder used the Smoothing indicator as a component in several of his other indicators including the RSI. Wilder's Smoothing indicator can be used in the same capacity as other moving averages. The smoothing indicator is used as an input in Wilder's other indicators such as the RSI, Wilder's Swing Indicator and Wilder's Volatility Indicator.

#### Weighted Moving Average

A Weighted Moving Average places more weight on recent values and less weight on older values.

#### Williams %R

Williams' %R measures overbought/oversold levels. The most widely used method for interpreting Williams' %R is to buy when the indicator rises above 80 or sell when the indicator falls below 20.

#### Williams Accumulation Distribution

The Accumulation/Distribution indicator shows a relationship of price and volume. When the indicator is rising, the security is said to be accumulating. Conversely, when the indicator is falling, the security is said to be distributing. Prices may reverse when the indicator converges with price.

#### Volume Oscillator

The Volume Oscillator shows a spread of two different moving averages of volume over a specified period of time. The Volume Oscillator offers a clear view of whether or not volume is increasing or decreasing.

#### Vertical Horizontal Filter

The Vertical Horizontal Filter (VHF) identifies whether a market is in a trending or choppy movement phase. The VHF indicator is most commonly used as an indicator of market volatility. It is also frequently used as a component for other technical indicators.

#### Ultimate Oscillator

The Ultimate Oscillator compares prices with three oscillators, using three different periods for calculations. The most popular interpretation of the Ultimate oscillator is price/indicator divergence.

**True Range**

The Average True Range (Wilder) measures market volatility. High ATR values may signal market bottoms, and low ATR values may signal neutral markets.

**TRIX**

TRIX is a momentum oscillator that shows the rate of change of an exponentially averaged closing price. The most common interpretation of the TRIX oscillator is to buy when the oscillator rises and sell when the oscillator falls. 3, 8 and 14 period moving averages are often used to smooth the TRIX oscillator.

**Rainbow Oscillator**

The Rainbow Charts indicator is a trend-following indicator. It is based on a two-period simple moving average. Over that, recursive smoothing is applied to the original MA (moving average) to create nine additional moving averages, each being based on the previous MA. Through a process of repetitive smoothing, the result obtained is a full spectrum of trends, which plotted on a chart with continuous colors, have the appearance of a rainbow. The Rainbow Oscillator Indicator is, like the Rainbow Charts, an indicator used to follow trends and its graph is plotted based on the same calculations made to find the Rainbow Charts. The oscillator is a derivative from a consensus of the Rainbow Charts trends, defining the highest high value and lowest low value among those moving averages, and creates an oscillator and bandwidth lines according to those calculations.

**Price Oscillator**

The Price Oscillator shows a spread of two moving averages. The Price Oscillator is basically a moving average spread. Buying usually occurs when the oscillator rises, and conversely, selling usually occurs when the oscillator falls.

**Parabolic SAR**

Parabolic SAR (SAR) is a time and price technical analysis tool primarily used to identify points of potential stops and reverses. In fact, the SAR in Parabolic SAR stands for "Stop and Reverse". The indicator's calculations create a parabola which is located below price during a bullish trend and above price during a bearish trend.

**Momentum Oscillator**

The momentum indicator calculates change of over a specified length of time as a ratio. Increasingly high values of the momentum oscillator may indicate that prices are trending strongly upwards. The momentum oscillator is closely related to MACD and Price Rate of Change (ROC).

**MACD**

The MACD is a moving average oscillator that shows potential overbought/oversold phases of market fluctuation. The MACD is a calculation of two moving averages of the underlying price/indicator. Buy/Sell interpretations may be derived from crossovers (calculated from the Signal/Periods argument), overbought/oversold levels of the MACD and divergences between MACD and actual price.

**Ease of Movement**

The Ease of Movement oscillator shows a unique relationship between price change and volume. The Ease of Movement oscillator rises when prices are trending upwards under low volume, and likewise, the Ease of Movement oscillator falls when prices are trending downwards under low volume.

**Directional Movement System**

Directional Movement System (DMS) is composed of 3 indicators:

Negative directional indicator (DI-): Negative directional indicator (DI-) is component of average directional index (ADX). If DI- is sloping forward, it is signal that downtrend is increasing.

Positive directional indicator (DI+): Positive directional indicator (DI+) is component of average directional index (ADX). If DI+ is sloping upward, it is signal that uptrend is increasing.

Average directional index (ADX): Average Directional Index (ADX) was created by J. Welles Wilder as indicator of trend strength.

**Detrended Price Oscillator**

The Detrended Price Oscillator is used when long-term trends or outliers must be removed from prices or index indicators. This indicator is often used to supplement a standard price chart. Other indicators can be plotted over the Detrended Price Oscillator.

**Chande Momentum Oscillator**

The Chande Momentum Oscillator (Chande) is an advanced momentum oscillator derived from linear regression. Increasingly high values of CMO may indicate that prices are trending strongly upwards. Conversely, increasingly low values of CMO may indicate that prices are trending strongly downwards. CMO is related to MACD and Price Rate of Change (ROC).

**Chaikin Volatility**

The Chaikin Volatility Oscillator is a moving average derivative of the Accumulation/Distribution index. The Chaikin Volatility Oscillator adjusts with respect to volatility, independent of long-term price action.

**Aroon**

The Aroon indicator is used to define if a currency-trading price is following a trend or sideways and to measure the trend's strength. If the currency's trading price is going up, the end for this period will be closer, and on the contrary. The Aroon indicator shows in percents how much time passed between the up (highest) and down (lowest) close starting from the beginning of a period.

**Aroon Oscillator**

The Aroon Oscillator, the positive value shows a coming or an upward trend, and the negative value indicates a downward trend. When the absolute value of an oscillator becomes higher, an indication of a trend is also getting stronger.

**Linear Regression**

Linear Regression R-Squared

Linear Regression Forecast

Linear Regression Slope

Linear Regression Intercept

Linear regression is a common statistical method used to forecast values using least squares fit. The result for Linear Regression has four Field objects: "R-Squared", "Forecast", "Slope" and "Intercept". Where R-Squared is the coefficient of determination, Forecast is the linear regression forecasted value for the next period, Slope is the slope value for the periods being analyzed and Intercept is the end period's Y intercept value.

**Price Volume Trend**

The Price and Volume Trend index is closely related to the On Balance Volume index. The price and volume trend index generally precedes actual price movements. The premise is that well-informed investors are buying when the index rises and uninformed investors are buying when the index falls.

**Performance Index**

The Performance indicator calculates price performance as a normalized value or percentage. A Performance indicator shows the price of a security as a normalized value. If the Performance indicator shows 50, then the price of the underlying security has increased 50% since the start of the Performance indicator calculations. Conversely, if the indicator shows -50, then the price of the underlying security has decreased 50% since the start of the Performance indicator calculations.

**Commodity Channel Index**

Commodity Channel Index (CCI) is a versatile indicator that can be used to identify a new trend or warn of extreme conditions. Lambert originally developed CCI to identify cyclical turns in commodities, but the indicator can successfully applied to indices, ETFs, stocks and other securities. In general, CCI measures the current price level relative to an average price level over a given period of time. CCI is relatively high when prices are far above their average. CCI is relatively low when prices are far below their average. In this manner, CCI can be used to identify overbought and oversold levels.

**Chaikin Money Flow**

Developed by Marc Chaikin, Chaikin Money Flow measures the amount of Money Flow Volume over a specific period. Money Flow Volume forms the basis for the Accumulation Distribution Line. Instead of a cumulative total of Money Flow Volume, Chaikin Money Flow simply sums Money Flow Volume for a specific look-back period, typically 20 or 21 days. The resulting indicator fluctuates above/below the zero line just like an oscillator. Chartists weigh the balance of buying or selling pressure with the absolute level of Chaikin Money Flow. Chartists can also look for crosses above or below the zero line to identify changes on money flow.



**Weighted Close**

The Weighted Close indicator is simply an average of each day's price. It gets its name from the fact that extra weight is given to the closing price. The Median Price and Typical Price are similar indicators.

**Volume ROC**

The Volume Rate of Change indicator shows clearly whether or not volume is trending in one direction or another. Sharp volume ROC increases may signal price breakouts.

**Typical Price**

A Typical Price is simply an average of one period's high, low and close values. A Typical Price is often used as an alternative way of viewing price action, and also as a component for calculating other indicators.

**Standard Deviation**

Standard Deviation is a common statistical calculation that measures volatility. Other technical indicators are often calculated using Standard Deviation. Major highs and lows often accompany extreme volatility. High values of Standard Deviation indicate that the price or indicator is more volatile than usual.

**Price ROC**

The Price ROC shows the difference between the current price and the price one or more periods in the past. A 12-day Price ROC is most often used as an overbought/oversold indicator.

**Median Price**

A Median Price is simply an average of one period's high and low values.  
A Median Price is often used as an alternative way of viewing price action, and also as a component for calculating other indicators.

**High Minus low**

Return high price minus low price.

**Bollinger Bands**

Bollinger Bands are similar in comparison to moving average envelopes. Bollinger Bands are calculated using standard deviations instead of shifting bands by a fixed percentage. Bollinger Bands (as with most bands) can be imposed over an actual price or another indicator.

When prices rise above the upper band or fall below the lower band, a change in direction may occur when the price penetrates the band after a small reversal from the opposite direction.

**Fractal Chaos Band**

Fractal Chaos Bands indicator helps us to identify whether the stock market is trending or not. When a market is trending, the bands will have a slope and if market is not trending the bands will flatten out. As the slope of the bands decreases, it signifies that the market is choppy, insecure and variable. As the graph becomes more and more abrupt, be it going up or down, the significance is that the market becomes trendy, or stable. Fractal Chaos Bands indicator is used similarly to other bands-indicator (Bollinger bands for instance), offering trading opportunities when price moves above or under the fractal lines.

**High/Low Bands**

High Low Bands consist of triangular moving averages calculated from the underling price, shifted up and down by a fixed percentage, and include a median value. When prices rise above the upper band or fall below the lower band, a change in direction may occur when the price penetrates the band after a small reversal from the opposite direction.

**Moving Average Envelope**

Moving Average Envelopes consist of moving averages calculated from the underling price, shifted up and down by a fixed percentage. Moving Average Envelopes (or trading bands) can be imposed over an actual price or another indicator.

When prices rise above the upper band or fall below the lower band, a change in direction may occur when the price penetrates the band after a small reversal from the opposite direction.

**Swing Index**

The Swing Index (Wilder) is a popular indicator that shows comparative price strength within a single security by comparing the current open, high, low and close prices with previous prices. The Swing Index is a component of the Accumulative Swing Index.

**Accumulative Swing Index**

The Accumulative Swing Index (Wilder) is a cumulative total of the Swing Index. The Accumulative Swing Index may be analyzed using technical indicators, line studies, and chart patterns, as an alternative view of price action.

**Comparative RSI**

The Comparative Relative Strength index divides one price field by another price field. The base security is outperforming the other security when the Comparative RSI is trending upwards.

**Mass Index**

The Mass Index identifies price changes by indexing the narrowing and widening change between high and low prices. According to the inventor of the Mass Index, reversals may occur when a 25-period Mass Index rises above 27 or falls below 26.5.

**Money Flow Index**

The Money Flow Index measures money flow of a security, using volume and price for calculations. Market bottom below 20 and top above 80. Divergence of price and Money Flow Index are also used.

**Negative Volume Index**

The Negative Volume Index shows focus on periods when volume decreases from the previous period. The interpretation of the Negative Volume Index is that well-informed investors are buying when the index falls and uninformed investors are buying when the index rises.

**On Balance Volume**

The On Balance Volume indicator shows a relationship of price and volume as a momentum index. On Balance Volume index generally precedes actual price movements. The premise is that well-informed investors are buying when the index rises and uninformed investors are buying when the index falls.

**Positive Volume Index**

The Positive Volume Index shows focus on periods when volume increases from the previous period. The interpretation of the Positive Volume Index is that many investors are buying when the index rises, and selling when the index falls.

**Relative Strength Index**

The RSI (Wilder) is a popular indicator that shows comparative price strength within a single security. 9, 14 and 25 period RSI calculations are most popular. The most widely used method for interpreting the RSI is price/RSI divergence, support/resistance levels and RSI chart formations.

**Trade Volume Index**

The Trade Volume index shows whether a security is being accumulated or distribute (similar to the Accumulation/Distribution index). When the indicator is rising, the security is said to be accumulating. Conversely, when the indicator is falling, the security is said to be distributing. Prices may reverse when the indicator converges with price.

**Stochastic Oscillator**

The Stochastic Oscillator is a popular indicator that shows where a security's price has closed in proportion to its closing price range over a specified period of time. The Stochastic Oscillator has two components: %K and %D. %K is most often displayed as a solid line and %D is often shown as a dotted line. The most widely used method for interpreting the Stochastic Oscillator is to buy when either component rises above 80 or sell when either component falls below 20. Another way to interpret the Stochastic Oscillator is to buy when %K rises above %D, and conversely, sell when %K falls below %D.

**Stochastic Momentum Index**

Commonly abbreviated to SMI, Stochastic Momentum Index is advancement in the Stochastic Oscillator. Stochastic Oscillator is primarily used to calculate the distance between the current close and recent high/low range for n-period. Stochastic Momentum Index shows the distance of current close relative to the center of high/low range. SMI is reasonably less unpredictable than Stochastic Oscillator over a single period. SMI normally ranges in between +100 and -100. Stochastic Momentum Oscillator is used in conjunction with the Tushar Chande Momentum Oscillator.

**Fractal Chaos Oscillator**

When looking at price movement charts, if the time scale is not given, sometimes it's very hard to determine whether the bars in the chart are referring to hours, days or months. The chart always looks exactly the same regardless of its time resolution, with the only difference being the size. To examine



these patterns the Fractal Chaos Oscillator can be used to determine what is happening in the current level of resolution. Fractal Chaos Oscillator is a great indicator to use in intra-day trading.

#### **Prime Number Oscillator**

This indicator finds the nearest prime number from either the top or bottom of the series, and plots the difference between that prime number and the series itself. This indicator can be used to spot market turning points. When the oscillator remains at the same high point for two consecutive periods in the positive range, consider selling. When the oscillator remains at a low point for two consecutive periods in the negative range, consider buying.

#### **Prime Number Bands**

This indicator finds the nearest prime number for the high and low, and plots the two series as bands. This indicator can be used to spot market-trading ranges.

#### **Historical Volatility**

"Volatility" is an important term used in the stock markets and by many market professionals. Many investors use this term to manage their risk. "Volatility", in simpler terms, means the fluctuation in a stock's or any other underlying price, over a specific period of time. Volatility is divided in to two categories. The first one is "Historical volatility" and the other one is "Implied volatility". "Historical volatility" is defined as the historical fluctuation in a particular underlying price, whereas "Implied volatility" is the estimation of volatility in an asset's price. Generally, "Implied volatility" finds extensive use in "Options".

Understanding "Historical volatility" is important for many investors as well as traders. For investors, this term is important, because it helps in estimating or calculating their risk. Traders, generally use "Historical volatility" to know how volatile a stock or an index will be in the future.

#### **MACD Histogram**

MACD Histogram measures the distance between MACD and its signal line (the 9-day EMA of MACD). Like MACD, the MACD-Histogram is also an oscillator that fluctuates above and below the zero line. It anticipates signal line crossovers in MACD. Because MACD uses moving averages and moving averages lag price, signal line crossovers can come late and affect the reward-to-risk ratio of a trade. Bullish or bearish divergences in the MACD-Histogram can alert chartists to an imminent signal line crossover in MACD.

#### **Elder Ray Bull Power**

Elder Ray Bull Power uses a 13-day exponential moving average (EMA) to indicate the consensus market value.

#### **Elder Ray Bear Power**

Bear Power is derived by subtracting the 13-day EMA from the day's low. Where a currency downtrend is sustained to the point that minimum prices move below the EMA the Bear Power histogram will be less than zero. As price minimums accelerate to lower levels (below the EMA) during the falling trend histogram bars will increase in height below the zero line showing increased selling strength during the period.

#### **Elder Force Index**

Elder's Force Index (EFI) measures the power behind a price movement using price and volume. The indicator can also be used to identify potential reversals and price corrections. The EFI is an oscillator that fluctuates between positive and negative values, above and below a zero line.

#### **Elder thermometer**

The Market Thermometer translates market activity into a "hot" and "cold" histogram for better visualization.

#### **Ehler Fisher Transform**

It was designed to identify major price reversals with its rapid response time and sharp, clear turning points. The assumption is that prices do not have a gaussian probability density function (bell-shaped curve movement), but by normalizing price and applying the Fisher Transform user could create a nearly gaussian curve.

**Keltner Channel**

The Keltner Channel is a moving average band indicator whose upper and lower bands adapt to changes in volatility by using the average true range. The Keltner Channel is used to signal price breakouts, show trend, and give overbought and oversold readings.

**Market Facilitation Index**

Market Facilitation Index Technical Indicator (MFI) is the indicator which shows the change of price for one tick. Absolute values of the indicator do not mean anything as they are, only indicator changes have sense.

**Schaff Trend Cycle**

The Schaff Trend Cycle Indicator is the product of combining Slow Stochastics and the Moving Average Convergence/Divergence (MACD). The MACD has a reputation to be a trend indicator, yet it has an equal reputation to be lagging due to its slow responsive signal line. The improved signal line gives the STC its relevance as an early warning sign to detect currency trends.

**QStick**

A technical indicator developed by Tushar Chande to numerically identify trends in candlestick charting. It is calculated by taking 'n' period moving average of the difference between the open and closing prices. If Qstick value is greater than zero means that the majority of the last 'n' days have been up, indicating that buying pressure has been increasing.

**STARC**

STARC bands (Stoller Average Range Channels) are three bands forming a channel around simple moving average.

The indicator is similar to Bollinger Bands; STARC bands are narrowing on the flat markets and widening on the volatile markets. However, STARC bands do not measure the highness and lowness of the price and do not take into account standard deviation as Bollinger Bands. It is calculated by means of Average True Range (ATR) providing more detailed information on market volatility. Using STARC bands period 10 is an optimum parameter for ATR.

This indicator has two functions. First, it is used as a signal which recommends opening buy or sell deals when the price crosses the borders of STARC bands. In this case one should wait till the price consolidates above or under the STARC bands and stop loss should be placed after the median line. Second, STARC indicator can be used as an indicator whether the price is oversold or overbought. In order to do it index K should be moved from 3 to 1.33. In this case test of the price of STARC bands means the price has reached extreme values; the probability of price swing is very high. This signal should be accompanied by signals of oscillators pointing out oversold/overbought areas (for example, RSI indicator).

**Center of Gravity**

The Center of Gravity is an oscillator developed by John Ehler and presented in Stocks & Commodities magazine (05.2002). This oscillator produces almost zero lag indicating the pivot points with the precise accuracy. The indicator was the result of studies of adaptive filters.

**Coppock Curve**

The Coppock curve is a long-term price momentum indicator used primarily to recognize major bottoms in the stock market. Most technical market analysts consider the Coppock curve to be an excellent tool for discriminating between bear market rallies and true bottoms in the stock market. The indicator was designed for use on a monthly time scale and is calculated as a 10-month weighted moving average of the sum of the 14-month rate of change and the 11-month rate of change for the index.

**Chande Forecast Oscillator**

The oscillator is above the zero point if the forecast price is higher than the current price. On the contrary, if it is below it turns out to be less than zero. When the forecast price and the current price are equal, the oscillator makes a zero. Current prices that are constantly over the forecast price suggest higher prices ahead and prices that are constantly under the forecast price suggest lower prices ahead.

**Gopalakrishnan Range Index**

The Gopalakrishnan Range Index (GAPO) by JayanthiGopalakrishnan quantifies the variability in a stock, based on the logarithm of the trading range over an N-day period (default 5 days).

### Random Walk

The basis of Random Walk Indicator is a theory of the shortest path from one point to another. In case the prices stay too far from the line traced for a period, then the movement efficiency is considered to be minimal. Highly random movement creates considerably fluctuating RWI. The number of periods, recommended by effective RWI applying is from 2 to 7 for the short term, whether the long- term requires from 8 to 64 periods. It is done to show the short- term fluctuations and long term trends. RWI peaks in the short term indicate with the price highs, whether its bottom describes price decline.

### Intraday Momentum Index

The IMI (intraday momentum index) is a ratio of the total magnitude of the up day candle bodies to the total magnitude of the down day candle bodies over the past x-days. An up day candle body is white and is the close minus the open for a particular day. A down day candle body is black and is the open minus the close for a particular day. So if user see a lot of consecutive long white candle bodies and only a few short black body candle bodies on a stock chart then the IMI will be high (perhaps near 100%). The 'imi' indicator is used in indicator formula construction to narrow the stock pre-screener results to include only those stocks that have an imi restricted to the parameters set for the imi indicator.

### Kinger Volume Oscillator

A technical indicator developed by Stephen Klinger that is used to determine long-term trends of money flow while remaining sensitive enough to short-term fluctuations to enable a trader to predict short-term reversals. This indicator compares the volume flowing in and out of a security to price movement, and it is then turned into an oscillator.

### Pretty Good Oscillator

The Pretty Good Oscillator measures the distance of the current close from its N-day simple moving average, expressed in terms of an average true range over a similar period.

### RAVI (Range Action Verification Index)

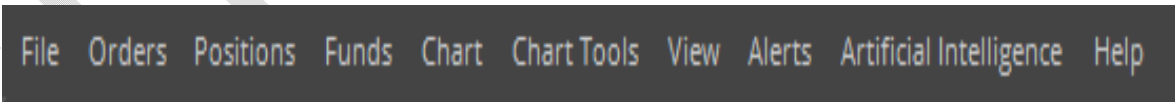
RAVI indicator, developed by Tushar Chande, can be used to identify whether the market is trending. It calculates the percentage difference between current prices and older prices. Current prices are represented by a Short SMA, and the longer time frame by a Long SMA. Tushar Chande recommends the following information lines for the indicator: plus-minus 0.3% or 0.1% (depending on the market).

### Twiggs Money Flow

The main idea behind the TMF indicator is to evaluate volume (money flow) as bullish or as bearish based on a close price location. Chaikin Money Flow uses CLV (Close Location Value) to do it. Twiggs Money Flow, on the other hand, uses TR (True Range). Another main difference is that CMF uses cumulative volume (sum of volumes over specified period) and the TMF applies Moving average to the volume.

## Menu

The Main menu has all the controls to access options in Alpha Trader.



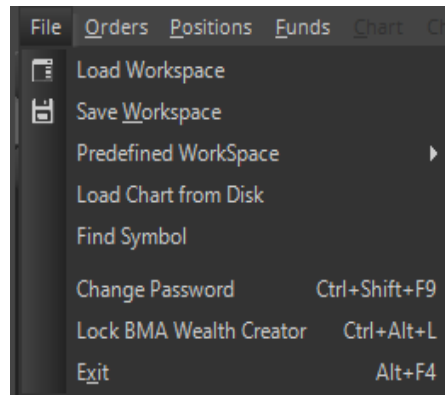
File Orders Positions Funds Chart ChartTools View Alerts Artificial Intelligence Help

The Main menu consists of several sub- menus are:

- File
- Orders
- Positions
- Funds
- Chart
- Chart Tools
- View

- Alerts
- Artificial Intelligence
- Help

## File menu



### Load Workspace

Load Workspace loads a workspace into Alpha Trader from Workspace folder saved in SAS ONLINE/Alpha Trader folder by default, if Workspace folder is not saved or created, Alpha Trader will create a new folder named Workspace. Workspace consists of symbols added in market watch and charts. By default it will load the default workspace given with the application while starting Alpha Trader.

### Save Workspace

Save Workspace allow the user to save their symbol list and charts to Workspace folder saved in SAS ONLINE/Alpha Trader folder by default, if Workspace folder is not saved or created, Alpha Trader will create a new folder named Workspace. User could save the workspace and save it on the disk. The user could load workspace to use the saved workspace.

### Pre-defined Workspaces

It allows user to open predefined workspaces related to NSE/BSE exchanges. There are several predefined workspaces in Alpha Trader:

- For NSE:
  - Nifty 50
  - Nifty Auto
  - Nifty Bank
  - Nifty Commodities
  - Nifty Consumption
  - Nifty Energy
  - Nifty FMCG
  - Nifty Infra
  - Nifty IT
  - Nifty Media
  - Nifty Metal
  - Nifty Midcap 50
  - Nifty MNC
  - Nifty Next 50
  - Nifty Pharma
  - Nifty PSE
  - Nifty PSU Bank
  - Nifty Realty

- Nifty ServSector
- For BSE:
  - BSE Auto
  - BSE FMC
  - BSE IT
  - BSE Metal
  - BSE Oil and Gas
  - BSE Power
  - BSE Realty

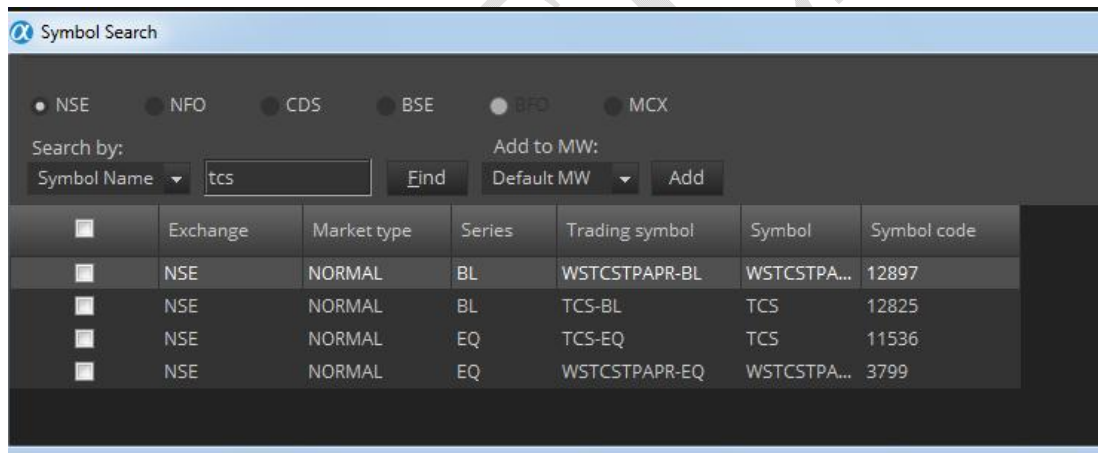
These predefined workspaces will be available to user according the exchange he/she is subscribed to.

## Load Chart from Disk

Load Chart from Disk helps user to load the saved chart back into Alpha Trader from Charts folder saved in SAS ONLINE/Alpha Trader folder by default, if Charts folder is not saved or created, Alpha Trader will create a new folder named Charts. The user can do technical analysis and other studies on the chart. The saved charts loaded from disk will be live.

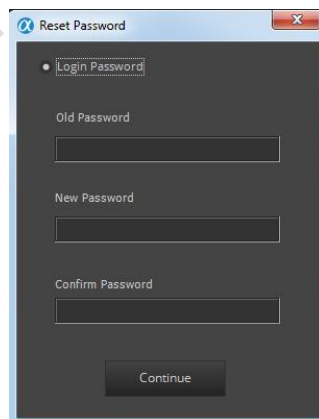
## Find Symbol

Find Symbol helps users to find a symbol from list of trading symbols.



## Change Password

Change Password helps user to change his/her Login password and Transaction password.



## Lock SAS ONLINE Alpha Trader

Lock Alpha Trader helps user to lock his/her current session in Alpha Trader, so nobody can touch his/her workspace. User can unlock it by entering the account password and click Continue. Three wrong attempts of entering password will log out Alpha Trader. User can also exit Alpha Trader after clicking on Exit button.



## Exit

It exit's Alpha Trader and logs the user out.

## Orders

From this menu, user can access to various types of Orders

- Normal Buy Order (F1 or Alt + F1)
- Normal Sell Order (F2 or Alt + F2)
- Cover Order Buy (Shift + F1)
- Cover Order Sell (Shift + F2)
- Bracket Order Buy (Shift + F3)
- Bracket Order Sell (Shift + F4)
- After Market Order Buy/Sell (Ctrl + F1/Ctrl + F2)

User can also view:

- OrderBook (F3)
- TradeBook (F8)

## Buy/Sell Order

From this window user can place different types of Buy/Sell orders:

- Normal Orders
- Cover Orders(CO)
- Bracket Order(BO)
- After Market Orders(AMO)

## Normal Order

### Buy Normal Order

**Shortcut: Alt + F1 or F1**

User can place buy orders through this window. User can use shortcut keys or can select Buy Normal Order from Orders menu in main menu after selecting particular scrip from market watch which will invoke buy order window. User have to fill all required fields before click on submit button. User can use Tab button for faster navigation through this window and also use F1 and F2 to toggle between Normal Order Buy and Sell window.



### Sell Normal Order

**Shortcut:** Alt + F2 or F2

User can place sell orders through this window. User can use shortcut keys or can select Sell Normal Order from Orders menu in Main menu after selecting particular scrip from market watch which will invoke sell order window. User have to fill all required fields before click on submit button. User can use Tab button for faster navigation through this window and also use F1 and F2 to toggle between Normal Order Buy and Sell window.

#### NOTE:

**Differentiation between buy order window and sell order window call also be based on colour as always buy order window will be in blue and sell order window will be in red.**

The user must enter the following details while placing a Buy or Sell order:

**Exchange:** The user must select the Instrument Name for which the order is to be placed.

**Symbol:** The user must select the desired Symbol for which the order is to be placed.

**Type:** The user must select the Option Type either CE or PE. This is not applicable for cash segment and commodities.

**Strike Price:** The user must select the Strike Price for which the order is to be placed. This is not applicable for cash segment and commodities.

**Expiry Date:** The user must select the Expiry Date. This is not applicable for cash segment.

**Quantity:** The user must enter the quantity that should be placed in the order.

**Price:** The user must enter the price at which the order is to be placed for the scrip.

**Trigger Price:** The user must enter the Trigger Price while placing stop loss orders, as the price at which the order is to get triggered.

**Disc Quantity:** The user can enter the disclosed quantity, that is, the quantity that is to be disclosed to the market.

**Client Code:** It is set default as unique for every user.

### Cover Order

Cover order offers an order placement feature through which user can take an intraday position in equity/F&O/Commodities segment where in system will place the market order along with the stop loss market order which will get triggered at specified trigger price. This order will help user to limit the loss if any on the position.

**Features:**

- All orders placed through cover order product are market orders.
- Trigger price entered by the user for stop loss should be within trigger price range.
- RMS would validate this product type taking lesser margin (RMS would take flat percentage or cash co factor times the predefined trigger price % configured for individual scrips).
- If first leg is rejected the other is also rejected by the system.
- User can book the trade by converting the SL to market or the system will do it for user if he/she clicks on exit button.
- Cover orders are accepted for selected scrips as configured by the administrator.

**Buy Cover Orders****Shortcut: Shift + F1**

User can invoke Cover Order Buy from orders menu or can directly invoke from market watch after selecting particular scrip for which user want to place CO by using its shortcut key.

**For stop loss sell order:**

When we are placing buy Cover Order, for the stop loss sell order trigger price should be within the range that is displayed in trigger price range box. Trigger price is calculated as LTP - Trigger percentage. User can use Tab button for faster navigation through this window and can use F1 and F2 to toggle between Cover Order Buy and Sell window.

**Sell Cover Orders****Shortcut: Shift + F2**

User can invoke sell cover order entry from orders menu. User can also invoke from market watch by using its shortcut key.

**For stop loss buy order:**

When we are placing sell cover order, for the stop loss buy order trigger price should be within the range that is displayed in the trigger box price range. Trigger price range is calculated as LTP + trigger percentage.

User can use Tab button for faster navigation through this window and can use F1 and F2 to toggle between Cover Order Buy and Sell window.





### Cover Order Modification

The user places fresh cover order in to the system as first order is always market, it will be traded and as second leg is stop loss, it will be pending in the system. The user can modify only the price in the pending order window with limits that is mentioned in the trigger range box.

If the first order is not traded due to lack of market depth it will be sitting as limit order with price as Last traded price. The user can modify it to market again if he/she wants to.

### After Market Order (AMO)

#### AMO Buy

**Shortcut: Ctrl + F1**

User can place After Market Buy orders through this window. User can use shortcut keys or can select AMO Buy from Orders menu in Main menu after selecting particular scrip from market watch which will invoke AMO Buy order window. User have to fill all required fields before click on submit button. User can use Tab button for faster navigation through this window.



Alpha Trader allows the end user to place AMO orders from the terminal which will be parked at the server level. Next trading day these will be sent to the exchange.

#### AMO Sell

**Shortcut: Ctrl + F1**

User can place After Market Sell orders through this window. User can use shortcut keys or can select AMO Sell from Orders menu in Main menu after selecting particular scrip from market watch which will invoke AMO Sell order window. User have to fill all required fields before click on submit button. User can use Tab button for faster navigation through this window.

### Bracket Order

Order in which user can enter a new position along with a target/exit and also stoploss order. As soon as the main order is executed the system will place two more orders (profit taking and stoploss).

**Note:**

- This is an Intra-day product, so all Bracket order (BO) positions will be squared off by 3:20 pm.
- Enabled across Equity, Futures & Options and Currency. Bracket order is not allowed for BSE.

### Trailing Stoploss

When user places BO, user get an option to either place a fixed stoploss order, or also a trail user stoploss. It means that if the contracts/stock moves in user direction by a particular number of ticks, the stop loss will go up/down based on whether order is long or short automatically.

### Bracket Order Buy

**Shortcut: Shift + F3**

Buy order that is accompanied by a sell limit order above the buy order's price and a sell stop order below the buy order's price. These three component orders will all be set at a price determined by the investor at the time the order is entered. This type of order allows investors to lock in profits with an upside movement and prevent a downside loss, without having to constantly follow the position.

User can place Bracket Order Buy through this window. User can use shortcut keys or can select Bracket Order Buy from Orders menu in Main menu after selecting particular scrip from market watch which will invoke Bracket Order Buy window. User have to fill all required fields before click on submit button. User can use Tab button for faster navigation through this window and can use F3 and F4 to toggle between Bracket Order Buy and Sell window.

### Bracket Order Sell

**Shortcut: Shift + F4**

Sell order on a short sale that is accompanied (or bracketed) by a buy stop order above the entry price of the sell order and a buy limit order below the entry price of the sell order. As the three component orders are based

on set prices, this type of order protects the investor from the downside but also potentially locks in a gain without the investor constantly monitoring price.

User can place Bracket Order Sell through this window. User can use shortcut keys or can select Bracket Order Sell from Orders menu in Main menu after selecting particular scrip from market watch which will invoke Bracket Order Sell window. User have to fill all required fields before click on submit button. User can use Tab button for faster navigation through this window and can use F3 and F4 to toggle between Bracket Order Buy and Sell window.

## Order Book

### Shortcut: F3

Once an order is placed, the user would like to see the status of that order. The Order Book window opens with Market Watch by default, when user log in into Alpha Trader. A user can call the order book window by pressing F3 in the market watch or from MarketWatch toolbar. This will show the status of all the orders that were placed. If the user presses F3 it would show the status of all the orders that were placed across all the segments as well as across the entire exchanges. The Order Book window is very user-friendly as it allows the user to view and access the data in a very efficient way. User can also set the columns in the sequence user prefers them to appear in the order book window. One can also remove the unwanted columns from the window. All the fields/columns can also be filtered by right clicking on columns and select choose columns. This allows the user to search for the information that user is looking for.

The Order Book provides details of all the orders placed by the user. These include orders placed to the exchange, but not traded or partially traded (open orders), traded orders (completed), rejected orders and cancelled orders.

The user can also modify or cancel open orders from this window, by selecting the order from order book and clicking on Modify or Cancel, as the case may be. Other functions like writing the orders to excel and view order history.

User can use Shortcut keys to Modify, Cancel, Cancel All and Exit orders in Orderbook.

For modifying the pending order user can use Shift + M shortcut key to modify the order. For cancel the selected pending order user can use Shift + K shortcut key to cancel the order. For cancel all pending orders, user can use Shift + A shortcut key. To exit the CO and BO, user can use Shift + E shortcut key to exit the pending CO and BO.

Alpha Trader [Version : 1.0.0.0] 5127, 07337, SAS - All : 05-11-2016 3:22:59 PM

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Default MW Order Book X

Pending Orders (2)

Segment	Product	Trading symbol	Order ty...	Buy/Sell	Total Qty	Pending ...	Disclosed Qty	Price	Trigger price	Status	Rejection r...	Avg. price	Update T...	Oms Ord...	Exchang...	User ID
N...	NRML	BANKNIFTY16NOV01	L	BUY	40	40	0	17400.00	0.00	open		0.00	05Nov20...	1611050...	14200000...	CHIEF
N...	MIS	RELIANCE-EQ	L	BUY	1	1	0	930.00	0.00	open		0.00	05Nov20...	1611050...	12200000...	CHIEF

Completed Orders (96)

Segment	Product	Trading	Order	Buy/Sell	Initial Quantity	Total Qty	Traded	Disclosed Qty	Price	Trigger price	Status	Rejection reason	Avg. price	Update time
NFO	NRML	BANKNIFTY...	L	BUY	40	40	0	0	19500.00	0.00	cancelled		0.00	05Nov2016 01:0...
MCX	MIS	ALUMINIUM...	L	BUY	1	0	0	0	107.00	0.00	rejected	RMSRule: Check freeze quantity for FO including square off order Current1, limit set0 for entity account-5127 across exchange f...	0.00	05Nov2016 01:0...
NFO	MIS	BANKNIFTY...	MKT	SELL	40	0	0	0	0.00	0.00	rejected	16000 : The trading system is not available for trading	0.00	05Nov2016 01:1...
CDS	MIS	USDNR16N...	MKT	BUY	1	0	0	0	0.0000	0.0000	rejected	Server Not Ready	0.0000	05Nov2016 01:5...
NSE	MIS	TCS-EQ	MKT	BUY	1	0	0	1	0.00	0.00	rejected	RMSRule: Check circuit limit including square off order exceeds for entity account-5127 across exchange across segment across...	0.00	05Nov2016 01:4...
BSE	MIS	RELIANCE	MKT	BUY	1	0	0	0	0.00	0.00	rejected	RMSRule: Turnover order level limit including CNC.Current2625964.15, limit set0.00 for entity account-5127 across exchange a...	0.00	05Nov2016 01:4...
NFO	NRML	BANKNIFTY...	MKT	BUY	40	0	0	0	0.00	0.00	rejected	RMSRule: Turnover order level limit including CNC.Current3405333.35, limit set0.00 for entity account-5127 across exchange a...	0.00	05Nov2016 01:4...
CDS	MIS	USDNR16N...	MKT	BUY	1	0	0	0	0.0000	0.0000	rejected	RMSRule: Turnover order level limit including CNC.Current2692466.35, limit set0.00 for entity account-5127 across exchange a...	0.0000	05Nov2016 01:4...
CDS	MIS	USDNR16N...	MKT	BUY	1	0	0	0	0.0000	0.0000	rejected	Server Not Ready	0.0000	05Nov2016 01:4...
NSE	MIS	TCS-EQ	MKT	BUY	1	0	0	1	0.00	0.00	rejected	RMSRule: Check circuit limit including square off order exceeds for entity account-5127 across exchange across segment across...	0.00	05Nov2016 01:4...
NFO	MIS	NIFTY16NO...	L	BUY	75	0	0	75	9150.00	0.00	rejected	RMSRule: Turnover order level limit including CNC.Current3311211.35, limit set0.00 for entity account-5127 across exchange a...	0.00	05Nov2016 01:4...
NSE	MIS	RELIANCE-EQ	MKT	BUY	1	0	0	0	0.00	0.00	rejected	RMSRule: Check circuit limit including square off order exceeds for entity account-5127 across exchange across segment across...	0.00	05Nov2016 01:4...
CDS	MIS	USDNR16N...	MKT	BUY	1	0	0	0	0.0000	0.0000	rejected	RMSRule: Turnover order level limit including CNC.Current2692466.35, limit set0.00 for entity account-5127 across exchange a...	0.0000	05Nov2016 01:4...
NSE	MIS	TCS-EQ	MKT	BUY	1	0	0	1	0.00	0.00	rejected	RMSRule: Check circuit limit including square off order exceeds for entity account-5127 across exchange across segment across...	0.00	05Nov2016 01:4...
CDS	MIS	USDNR16N...	MKT	BUY	1	1	1	0	66.4475	0.0000	complete		66.4475	05Nov2016 01:4...
NSE	MIS	TCS-EQ	L	BUY	1	0	0	1	2561.50	0.00	rejected	RMSRule: Check circuit limit including square off order exceeds for entity account-5127 across exchange across segment across...	0.00	05Nov2016 01:4...
CDS	MIS	USDNR16N...	MKT	BUY	1	0	0	1	0.0000	0.0000	rejected	64027 : Location ID not found	0.0000	05Nov2016 01:4...
CDS	NRML	USDNR16N...	MKT	BUY	10	10	10	0	66.4475	0.0000	complete		66.4475	05Nov2016 01:5...
CDS	MIS	EURNR16N...	MKT	BUY	10	0	0	0	0.0000	0.0000	rejected	RMSMargin Exceeds Required:1187179.54, Available:1000000.00 for entity account-5127 across exchange across segment acro...	0.0000	05Nov2016 01:5...
CDS	NRML	EURNR16N...	MKT	BUY	1	0	0	0	0.0000	0.0000	cancelled	17070 : The Price is out of the current execution range	0.0000	05Nov2016 01:5...
MCX	MIS	ALUMINIUM...	MKT	BUY	1	0	0	0	0.00	0.00	rejected	RMSRule: Check freeze quantity for FO including square off order Current1, limit set0 for entity account-5127 across exchange f...	0.00	05Nov2016 01:5...
NFO	MIS	NIFTY16NO...	L	BUY	75	0	0	75	9100.00	0.00	rejected	64027 : Location ID not found	0.00	05Nov2016 01:5...

Refresh Modify Cancel Cancel all Exit

BQ : 41 BV : 690930 SV : 0 SQ : 0 NV : 690930 NQ : 41

11 Interactive Broadcast

## Order History

For viewing the Order History by double clicking on the order can also be performed easily by the user.

## Trade Book

### Shortcut: F8

The Trade Book window displays the executed orders for all the scrips. This window can be invoked by using shortcut key from the market watch or can be selected from Orders menu or from MarketWatch toolbar. It will display the trade details as shown in the below figure.

User can write trade book to excel for his further reference and also can select desired columns from right clicking on column head and selecting on choose columns.

The summary displays the Total Buy Quantity, Total Buy Value, Total Sell Value, Sell Quantity and the Net Amount. Pressing F8 will display all the trades across all the scrips (All Segments All Exchanges).



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Default MW Order Book Trade Book X

Segment	Product type	Trading symbol	Buy/Sell	Traded	Trade	Status	Update time	Trade ID	Oms Order ID	Exchange Order ID
CDS	MIS	USDINR16NOVFUT	SELL	1	66.4325	Filled	05Nov2016 01:53:47 PM	28981	161105000000111	1020000000033804
CDS	MIS	USDINR16NOVFUT	BUY	1	66.4475	Filled	05Nov2016 01:51:21 PM	28970	161105000000105	1020000000033781
CDS	NRM	USDINR16NOVFUT	BUY	10	66.4475	Filled	05Nov2016 01:50:07 PM	28960	161105000000100	1020000000033769
CDS	MIS	USDINR16NOVFUT	BUY	1	66.4475	Filled	05Nov2016 01:48:44 PM	28956	161105000000094	1020000000033761
NFO	MIS	RELIANCE16NOVFUT	BUY	500	1075.00	Filled	05Nov2016 12:41:15 PM	87520942	161105000000028	1120000000000027
NFO	MIS	NIFTY16NOVFUT	BUY	75	9233.80	Filled	05Nov2016 12:39:59 PM	12539622	161105000000024	1120000000002079
NFO	MIS	NIFTY16NOVFUT	SELL	75	9232.60	Filled	05Nov2016 12:39:50 PM	12539588	161105000000023	11200000000020835
NSE	MIS	RELIANCE-EQ	SELL	1	1100.50	Filled	05Nov2016 12:38:03 PM	50318129	161105000000021	12200000000026363
NSE	MIS	RELIANCE-EQ	SELL	1	1102.60	Filled	05Nov2016 12:37:52 PM	50315032	161105000000018	12200000000026787
NSE	NRM	RELIANCE-EQ	SELL	10	1102.45	Filled	05Nov2016 12:32:10 PM	50308452	161105000000009	12200000000006798
NFO	NRM	NIFTY16NOVFUT	SELL	75	9200.05	Filled	05Nov2016 12:34:22 PM	12538083	161105000000012	11200000000018924

Refresh

BQ : 587 BV : 2026655 SV : 1462108.85 SQ : 163 B-ATP : 161.17 S-ATP : 1258.27 NQ : 424 NV : 564546.15

0 Interactive Broadcast

## Positions

Using this menu, user can access the various types of positions:

- Admin Position (F11)
- Cash Position (Ctrl + Shift + V)
- Stock Holdings (Alt + F9)

## Admin Positions

### Shortcut: F11

This window can be invoked using shortcut key or can be selected from Positions menu or from MarketWatch toolbar. The user can view the consolidated positions in the Net Positions Window. These positions can be further filtered according to the exchange/segment, according to the product tag and Opt/Fut calls or according to the Daywise/Netwise positions of the scrips for which the trade was made.

This window also provides some vital information like the Net Position, Buy Quantity, Sell Quantity, Buy Amount, Sell Amount, MTM profit/loss, etc.

If the user desires to square-off all his pending positions or a part of the open positions then he can do that by just selecting the scrip(s) and then entering the percentage of quantity or the exact quantity that user wants the system to be squared-off.

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File Orders Positions Funds View Alerts Artificial Intelligence Help

Default MW X Order Book Admin Position X

Segment Product DayWise/NetWise Apply Filter NewWise Get Positions

Segment	Product	Trading symbol	Net Buy Qty	Buy Avg Price	Net Sell Qty	Sell Avg Price	Net Qty	LTP	Prev Close	MTM	Q-Total P&L	Q-Buy Avg	Q-Sell Avg
NFO	MIS	NIFTY16NOVFUT	75	9223.60	75	9232.46	0	9150.00	8983.35	166.00	N.A.	N.A.	N.A.
NSE	NRML	RELIANCE-EQ	0		10	1102.45	-10	1136.55	1136.55	-341.50	N.A.	N.A.	N.A.
CDS	MIS	USDINR16NOVFUT	2	66.4475	1	66.4325	1	67.5050	67.5300	1942.5000	N.A.	N.A.	N.A.
NSE	MIS	RELIANCE-EQ	0		2	1101.55	-2	1136.55	1136.55	-70.00	N.A.	N.A.	N.A.
NFO	MIS	RELIANCE16NOVFUT	300	1075.00	0		300	1124.20	1062.70	24690.00	N.A.	N.A.	N.A.
CDS	NRML	USDINR16NOVFUT	10	66.4475	0		10	67.5050	67.5300	16575.0000	N.A.	N.A.	N.A.
NFO	NRML	NIFTY16NOVFUT	0		75	9200.05	-75	9150.00	8983.35	3783.75	N.A.	N.A.	N.A.

☒ Square off entire quantity
 ☒ Square off at market price
 Qty  Price

BQ: 587 BV: 2026655.00 SV: 1462108.85 SQ: 163 NW: -564546.15 NQ: 424 MZM: 40220.25 Q-P&L: 0.00

## Convert Position

Convert Position button given in admin positions window will allow user to convert position from one product type to another product type.

It will consider all checks before converting position to other product type. For example is a position is initiated in MIS Product type and later user want to convert the same to NRML it will check if enough money is there or not to convert the selected position and then convert its product type.

## Accounts (Cash Position)

**Shortcut: Ctrl + Shift + V**

This window can be invoked using shortcut key or can be selected from Positions menu or from MarketWatch Toolbar. Accounts window allows the user to view the limits for clients. The user will have to select the category for which the limit is to be viewed. All limits set for the selected client will appear in this window. How much cash is used, how much margin is blocked everything can be known from this window.

Alpha Trader [Version: 1.0.0.0] S127, 07337, SAS - All - : 05-11-2016 10:26:44 PM

File Orders Positions Funds View Alerts Artificial Intelligence Help

Default MW Order Book Trade Book Cash Position X

EntityId	Name	Category	Total Margin	Pay In	Collateral Value	Margin Used	Premium	Span Margin	Exposure Margin	Adhoc	RealizedMTM	UnrealizedMTM	Free Cash
S127	Shrey jain	EQUITY	0	0	0	798908.52	0.00	79492.00	757167.50	0	645.00	39575.25	-798908.52
S127	Shrey jain	COMMODITY	1000000	0	0	0.00	0.00	0.00	0.00	0	-0.00	-0.00	1000000.00
		NO VALIDA...	0	0	0	0.00	0.00	0.00	0.00	0	-0.00	-0.00	0.00

## DEMAT Holdings (Stock Holdings)

### Shortcut: Alt + F9

In this window user can see his equity holdings which are in his DEMAT account. He/she can also see his/her T1 holdings. The valuation based on LTP for each exchange is showed on top of the window. User can open this window from Position menu or using shortcut Key or from MarketWatch Toolbar.

User can square off his positions from this window also. User can place both limit orders and market orders by selecting the desired position he want to close from his holdings. The user is provided to select columns based on his preference.

## Funds Transfer (To do)

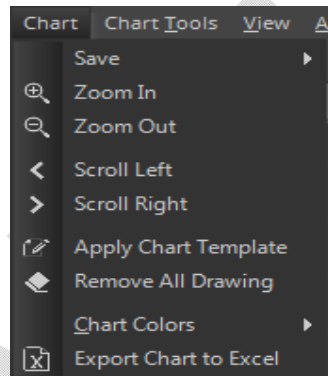
### Pay In

Clicking on Pay In will open the payment gateway to transfer the fund from user bank account to User trading account with SAS ONLINE. Using this user can transfer the funds in any of the segment i.e. Equity, Commodities or Derivatives.

### Pay Out

Clicking on Pay Out will open User's SAS ONLINE backoffice page.

## Chart Menu



### Save

- **Save Chart on Disk**  
Save Chart saves the chart file on the Disk.
- **Save Chart as Image**  
Save Chart as image saves the charts as snapshot.
- **Save Chart as Template**  
Chart Template could be saved for later applying on charts to do similar technical study on all the charts.

### Zoom In

Zoom-in the selected chart.

### Zoom Out

Zoom-out the selected chart.

### Scroll Left

To navigate through the chart, scroll left.

### Scroll Right

To navigate through the chart, scroll right.

## Apply Chart Template

User can apply his/her favorite indicators and colors at once.

## Remove All Drawings

User can remove all the drawing objects in one click from the selected chart.

## Chart Colors

Chart Color allows user to choose color for:

- Fore Color
- Back Color
- Grid Color
- Gradient Top Color
- Gradient bottom Color

## Export Chart to Excel

All values on a chart may be exported to Excel. Simply click a chart to select it then click the Export Chart to Excel in Chart menu.

## Chart Tools

The chart tools available in Alpha Trader are:

### Trendline

A line that is drawn over pivot highs or under pivot lows to show the prevailing direction of price. Trendlines are a visual representation of support and resistance in any time frame. Trendlines are used to show direction and speed of price. Trendlines also describe patterns during periods of price contraction.

### Speed Line

Speed resistance lines (SRL) are especially useful when looking at issues that are inside of strong trends a chartist uses the SRL to determine support and resistance and can be used by those interested in both short and intermediate phases as well as long-term outlooks. Simply put, the SRL measures the line of an uptrend or a downtrend.

### Gann Fan

A Gann fan consists of a series of diagonal lines called Gann angles, of which there are nine. These angles are superimposed over a price chart to show a security's support and resistance levels. The resulting image is supposed to help technical analysts predict price changes. Gann fan relies heavily on subjective choices made by individual traders; the chart may be limited in its usefulness and accuracy. The three premises Gann based his theory on were: i) price, time and range are the only factors, ii) cyclical markets, and iii) geometric market design.

### Fibonacci Arcs

A charting technique consisting of three curved lines that are drawn for the purpose of anticipating key support and resistance levels, and areas of ranging. Fibonacci arcs are created by first drawing an invisible trendline between two points (usually the high and low in a given period), and then by drawing three curves that intersect this trendline at the key Fibonacci levels of 38.2%, 50% and 61.8%. Transaction decisions are made when the price of the asset crosses through these key levels.

### Fibonacci Retracement

A term used in technical analysis that refers to areas of support (price stops going lower) or resistance (price stops going higher). The Fibonacci retracement is the potential retracement of a financial asset's original move in price. Fibonacci retracements use horizontal lines to indicate areas of support or resistance at the key Fibonacci levels before it continues in the original direction. These levels are created by drawing a trendline between two extreme points and



then dividing the vertical distance by the key Fibonacci ratios of 23.6%, 38.2%, 50%, 61.8% and 100%.

Fibonacci retracement is a very popular tool used by many technical traders to help identify strategic places for transactions to be placed, target prices or stop losses.

After a significant price movement up or down, the new support and resistance levels are often at or near these lines.

### **Fibonacci Fan**

A charting technique consists of three diagonal lines that use Fibonacci ratios to help identify key levels of support and resistance. Fibonacci fans are created by first drawing a trendline through two points (usually the high and low in a given period), and then by dividing the vertical distance between the two points by the key Fibonacci ratios of 38.2%, 50% and 61.8%. The result of these divisions, each represent a point within the vertical distance. The three 'fan' lines are then created by drawing a line from the leftmost point to each of the three representing a Fibonacci ratio.

### **Fibonacci Time Zones**

An indicator used by technical traders to identify periods in which the price of an asset will experience a significant amount of movement. This charting technique consists of a series of vertical lines that correspond to the sequence of numbers known as Fibonacci numbers (1, 2, 3, 5, 8, 13, 21, 34, etc.). Once a trader chooses a starting position (most commonly following a major move) on the chart, a vertical line is placed on every subsequent day that corresponds to the position in the Fibonacci number sequence.

Fibonacci numbers are a sequence of numbers where each successive number is the sum of the two previous numbers. For reasons unknown, these numbers play an important role in determining relative areas where the prices of financial assets experience large price moves or change direction. The four popular Fibonacci studies are arcs, fans, retracements and time zones.

### **Tirone Levels**

A series of three sequentially higher horizontal lines used to identify possible areas of support and resistance for the price of an asset. The position of the center line is plotted by calculating the difference between the highest high and the lowest low for the asset price over a period of time and dividing it by 2. The top and bottom line are drawn 1/3 and 2/3 of the difference, respectively, between the same high and low that are used to calculate the center line.

The use of Tirone levels is similar to that of Fibonacci retracement, and both are interpreted in the same way. They both determine the position of the lines by using a percentage of the difference between a high and a low. Both Tirone levels and Fibonacci retracement use 50% as one of the possible support/resistance levels.

### **Quadrant lines**

Quadrant Lines are a series of horizontal lines splitting the highest and lowest values of a security's prices into four equal sections. They provide for day trading methods yet another set of useless lines that probably do no more than clutter the screen. To calculate them, find the highest high and the lowest low during the time period under question. The top line is drawn horizontally thru the highest price during the time period and the bottom line is drawn horizontally thru the lowest price during the time period. The remaining three lines are then drawn by dividing the two outer lines into four equal sections. The center line (a.k.a. the "mean") is usually shown too.

### **Raff Regression**

The Raff Regression channel is a great confirmation tool though, both for seeing active trends and helping to spot trend reversals. When user connects the regression line to the low and high

point of a trend, the regression line will swivel all over the place as it calculates the ideal trajectory. The end result is a line that runs through most of the price action.

## Error Channels

Standard Error Channels are calculated by plotting two parallel lines above and below an x-period linear regression trendline. The lines are plotted a specified number of standard errors away from the linear regression trendline.

## Rectangle

A pattern formed on a chart where the price of a security is trading within a bounded range in which the levels of resistance and support are parallel to each other, resembling the shape of a rectangle. This pattern signals that the price movement, which has stalled during the pattern, will trend in the direction of the price breakout of the bounded range.

The bounded range, or rectangle, is a period of consolidation in which market participants are generally indecisive. The formation of this pattern will see the price of the security test the levels of support and resistance several times before a breakout. Once the security breaks out of the range, in either direction, it is considered to be trending in the direction of the breakout.

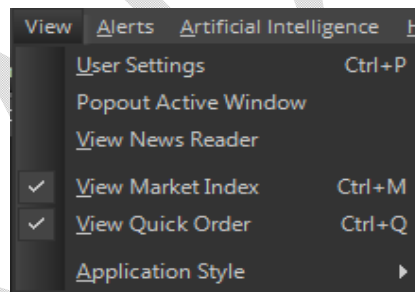
## Ellipse

Just Select Ellipse from Chart Tools and drag across the chart to easily draw an ellipse of any size and at any angle. When finished user can edit the location, size, angle, etc to fine tune it to market data. User can drag it to other areas of Alpha Trader chart to identify the dominant price-time limits of the market data. Future movements are contained within the limits of the perimeter of these ellipses.

## Free Hand Drawing

### View Menu

View Menu has User settings and other user interface customizations.



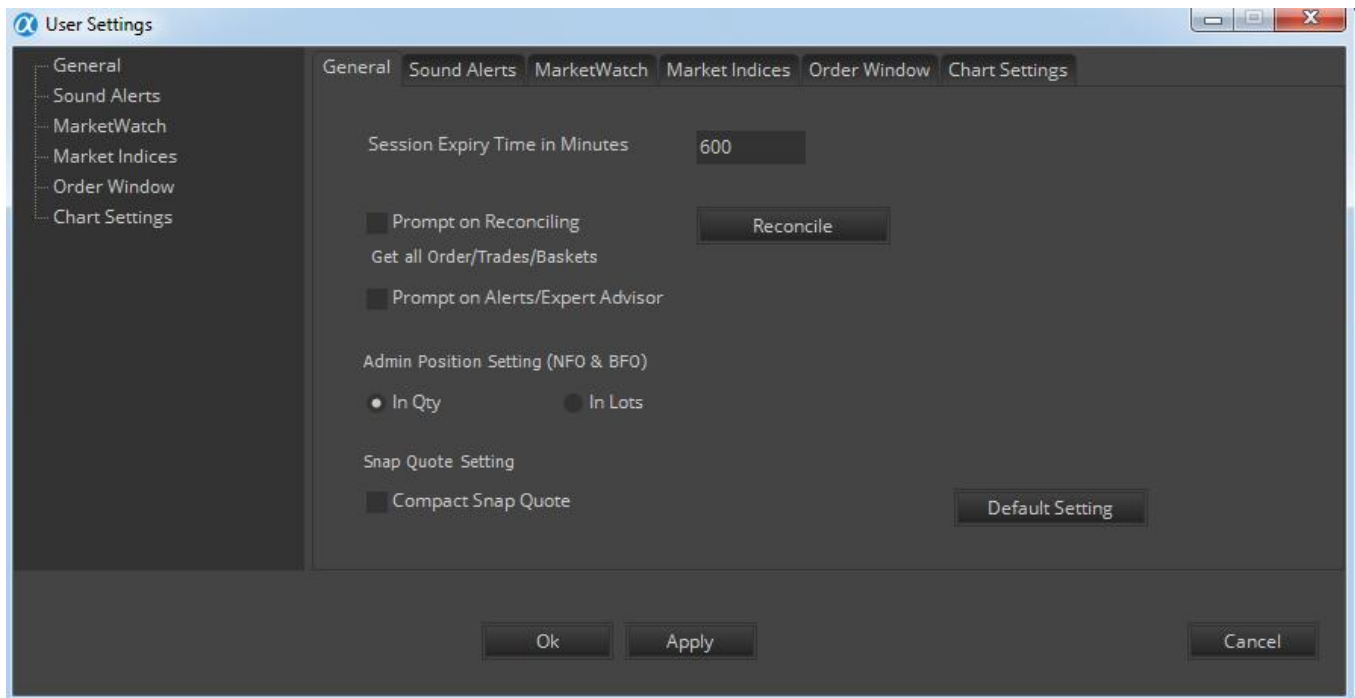
### User Settings

**Shortcut: Ctrl + P**

User settings have settings which can be customized by user according to their choice. User setting form has General, Sound Alerts, MarketWatch, Market Indices, Order Window and Chart Setting.

### General Settings

- Session expiry time in minutes can be specified here.
- Reconcile button will reconcile all order/trades/baskets and on alerts/EA.
- Admin position settings (NFO & BFO) can be selected here either in Qty or in Lots. It will show net buy qty in admin position either in Qty or in Lots.
- User can select compact snapquote from here.
- Default settings button will set general settings page to default.



### Sound Alerts

- Sound alerts for alerts could be enabled or disabled.
- Sound alerts for expert advisers could be enabled or disabled.
- Sound alerts for order related events could be enabled or disabled.
- Default settings button will set sound alerts settings page to default.

### MarketWatch Settings

- Change the font, font size and font style.
- Change market watch up and down tick color.
- Select the save charts in workspace/exit option.
- Select the market watch save confirmation on exit.
- Select the intraday chart time interval (minutes).
- Default settings button will set market watch settings page to default.

### Market Indices

- Show market indices floating window.
- Add or remove indices from the market indices list.
- Default settings button will set market indices settings page to default.

### Order Window

- Select the default product type and default qty for F&O.
- Select the default product type and default qty for CM.
- Select the default order type while placing the order.
- Pick the order qty either by default qty for CM/F&O or from snapquote while placing the orders from snapquote.

- Order window focus will be selected between order qty and order price.
- Selecting confirm before selecting order will ask confirmation every time while placing an order.
- Selecting transaction password required will ask to enter transaction password every time while placing an order.
- Default settings button will set order window settings page to default.

## Chart Settings

User can save these features on charts for future references.

### 1. Chart Colors

- UpTick  
Change the UpTick candle color on chart.
- DownTick  
Change the DownTick candle color on chart.
- Chart Tool  
Change the chart tool color on chart.

### 2. Chart Styles

- Use X Grid  
Show X Grid in charts.
- Use Y Grid  
Show Y Grid in charts.
- Show Panel Separators  
Show Separator between panels in chart Window. If user checked Show separate panel option in chart setting then it'll show a separate panel on chart for indicators else it'll hide the separate panel.
- Three D Style  
Enable 3D style for charts. If user checked Three D style option in chart setting then it'll show charts in 3D view.
- Darvas Boxes  
Enable Darvas Box on charts.
- Volume Panel  
Show Volume Panel on charts.

### 3. Chart Tools

- Cross Hair
- Data Box
- Day Separator
- Pivot Lines
- Quick Order Panel  
Place Quick Limit Order through charts. It can also be used to view SnapQuote.
- Confirm Quick Order  
User can disable the confirmation message while placing the Quick Limit order using Quick Order Panel.

**\*Note: Do not uncheck, order may be executed at single click inadvertently.**

### 4. Default Templates

In this feature, three Templates are provided by default, user can select any one of them to use it as default Template on charts.

User can make his own template and set it as default template on charts.

**\*Note: Default Template should be used on chart of data till 60 days (1Min).**

### 1. Thickness

User can change the thickness of horizontal and vertical line up to 5 points on chart.

- Horizontal Line
- Vertical Line

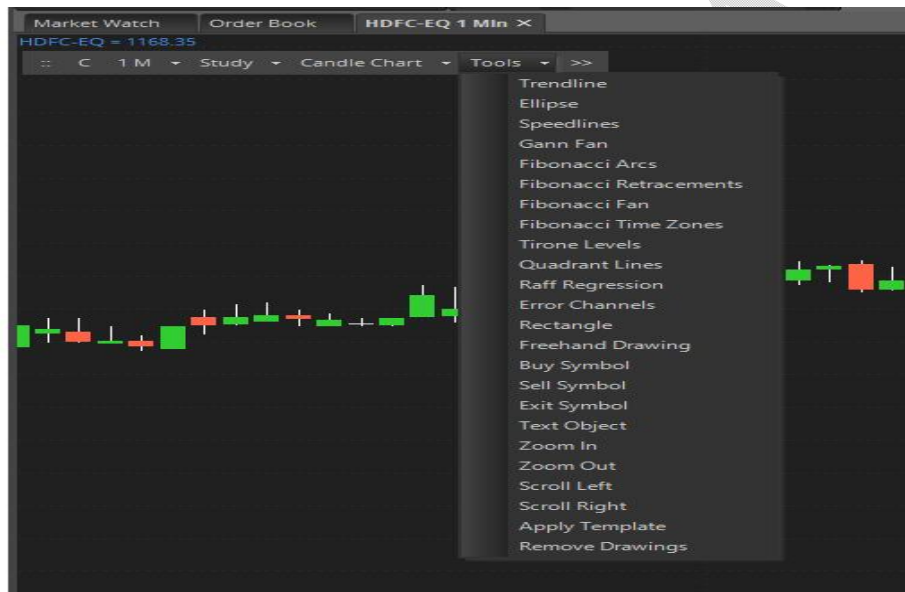
### 2. Chart Toolbar

User can select any type of chart toolbar

- Floating Toolbar



Floating Toolbar View 1



Floating Toolbar View 2

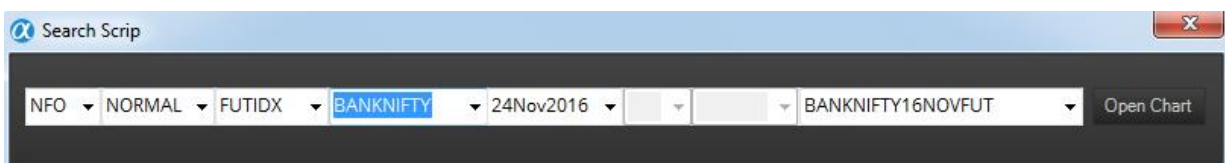
- Fixed Toolbar

3. Default settings button will set chart settings page to default.

## Advanced Chart Toolbar

### 1. Search Scrip

- User can open new scrip's chart by using this feature on an already opened chart.



**2. Time Frame**

- User can change timeframe on an already opened chart according to the periodicity.
- For eg: For min chart, user can change only to min, hourly to hourly, for day: user can't switch to any other periodicity. (limitation as of now)

**3. Study**

- User can add Technical Indicators using Study dropdown. User can also search the indicators by typing the indicator name in the study search box provided.

**4. Chart Type**

- User can change the chart type using chart type dropdown.

**5. Chart Tools**

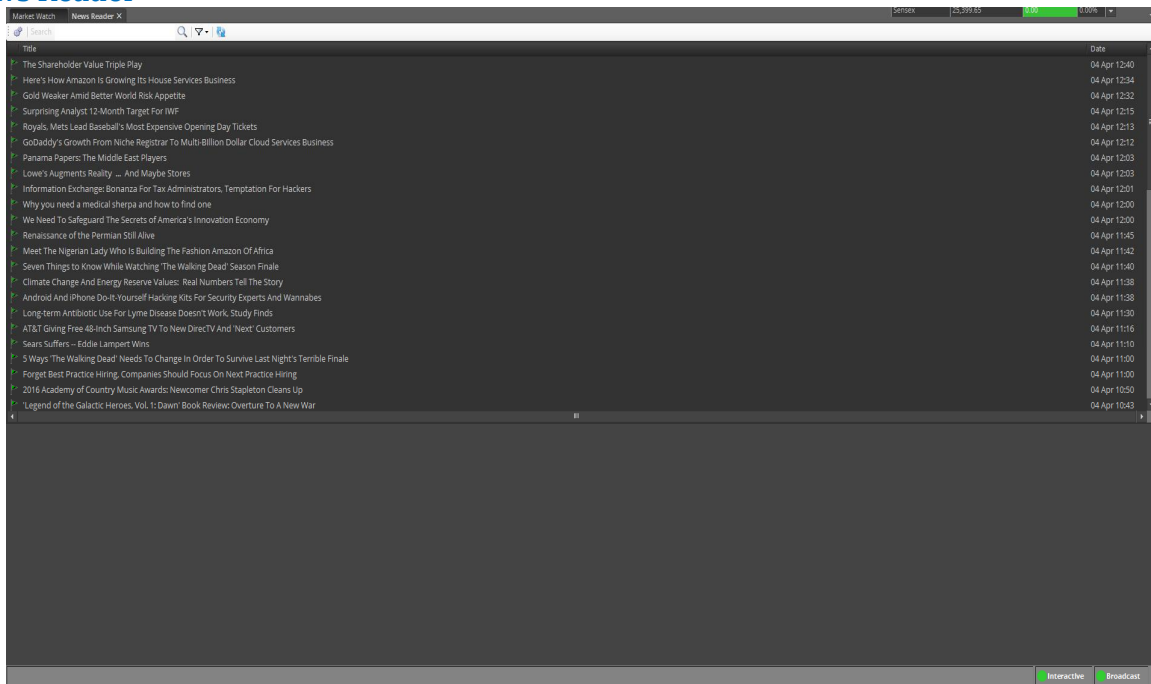
- Trendline
- Ellipse
- Speedlines
- Gann Fan
- Fibonacci Arcs
- Fibonacci Retracements
- Fibonacci Fan
- Fibonacci Time Zones
- Tirone Levels
- Quadrant Lines
- Raff Regression
- Error Channels
- Rectangle
- Freehand Drawing

**6. Buy Symbol****7. Sell Symbol****8. Exit Symbol****9. Text Object****10. Zoom In/Zoom Out****11. Scroll Right/Left****12. Apply Template****13. Remove Drawings****Pop Out Active Window**

Using this Pop out Active window option in View menu, user can open separate window of any tab by selecting that particular active tab in Alpha Trader. User can open as many separate windows as he/she want using this option.



## View News Reader



News Reader helps User get news from a large no of RSS feed sources simultaneously and filter according to keywords. User could add his/her favorite sources on clicking and do other setting changes using the settings button. Refresh button helps user to refresh the News from the source. User could also filter the news for Keywords.

Once the news gets populated user could select the NEWS using mouse which shows a summary of the news at the bottom window. On double-click the news reader goes to the link of the news.

## View Market Index

**Shortcut: Ctrl + M**

Show or hides the floating window showing Market Indices. User can use the shortcut key to show or hide Market Index.

## View Quick Order

**Shortcut: Ctrl + Q**

Shows or hides the Quick Order window in the charts. User can use the shortcut key to show or hide Quick Limit Order window. User can place a Limit order on Charts or can also open SnapQuote using Quick Limit Order window.

## View Application style

Alpha Trader is equipped with various styling themes which could be chosen by user.

Application style allows user to choose from the following given styles

- Blue
- Silver
- White
- Dark Theme(Default theme)

## Alerts Menu

This menu consists of following sub-menus:

- Create Scripted Alert

- Scanner
- Backtest
- Generated Alerts

## Create Scripted Alerts

Alerts can be accessed from Create Scripted alerts from Alerts Menu item in Main Menu or by Clicking on the Scripted Alerts Icon on the top.

User can provide program instructions to display trade alerts by clicking the Alert button on the top.

User can provide instructions that tell the application to play a sound or pop-up when a specific series of events occur, as specified by four program scripts. A script is a set of instructions written in the TradeScript. For example, a script might consist of just one line such as "LAST > 350 AND HIGH > 351.25", or it may consist of many lines of instructions.

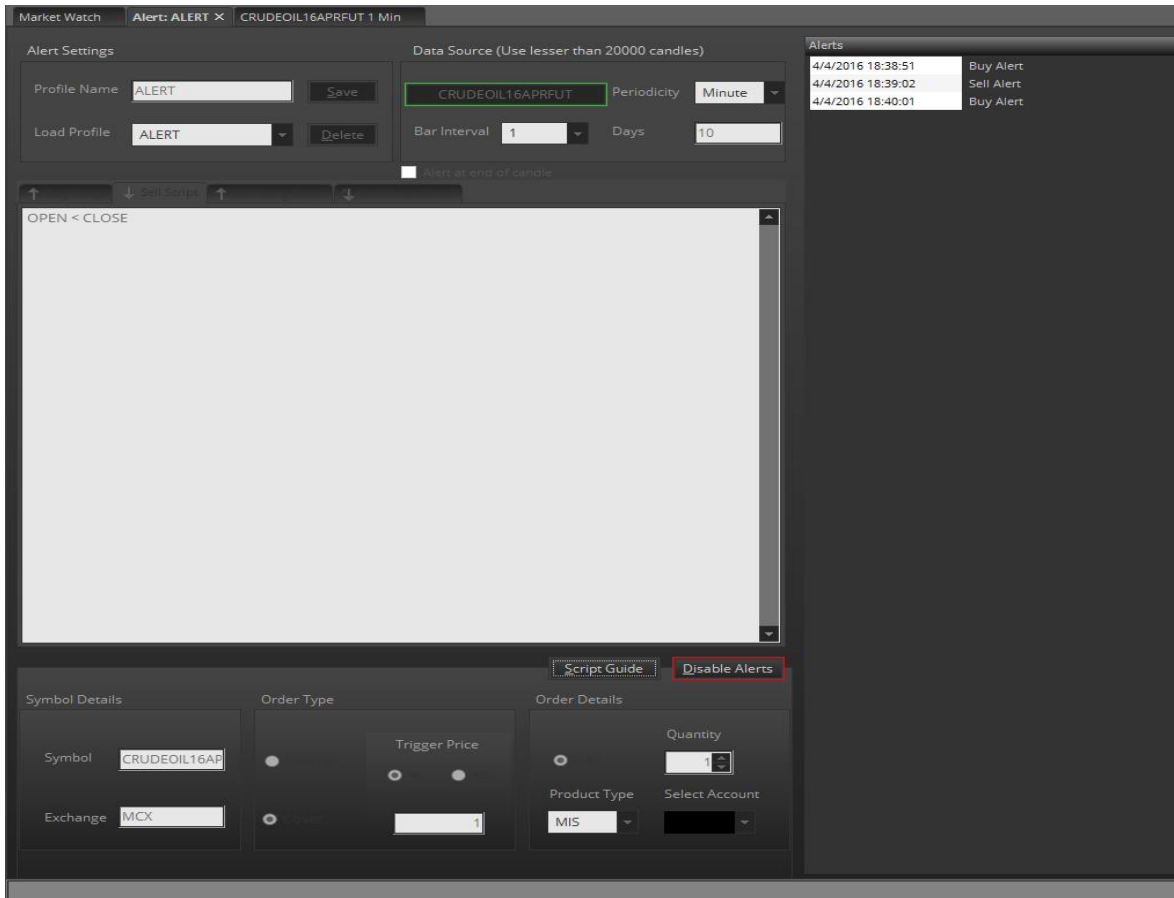
A separate programming manual is provided for the TradeScript, which can be viewed by clicking the Script Guide button on any Alert window or can be selected from Help menu in Main menu.

User can load an existing alert by selecting a Profile name from the drop down menu (if any exist). To create a new alert, type a Profile name, data selection criteria, enter at least a buy and sell script (exit-short and exit-long scripts are optional). Finally, click the Enable Alerts button to turn the alert on. When the underlying data is matched with one of user's alert scripts, an alert will broadcast to users running Desktop.

On enabling Alert, Pop up alerts will come showing the details of the alerts generated on clicking the close button order form will come to place the orders accordingly depending it is buy or sell signals.

User can select the Order type either Normal or Cover Order in Order section given below and can also select the Product type and Quantity in order details section.

User can add symbol on which he/she wants to generate Buy/Sell alerts by clicking on Select Symbol button:



The alerts pop-up on cancelling will pop up the order form with details mentioned in the alerts window like quantity, order type etc. If left for more than 5 sec it will be removed.

To disable the Alert's popup user could click stop live button. However user could still receive the Alert's message in alert window and in MarketWatch's message window. To disable an alert at any time, simply click the disable Alerts button.

## Scanner

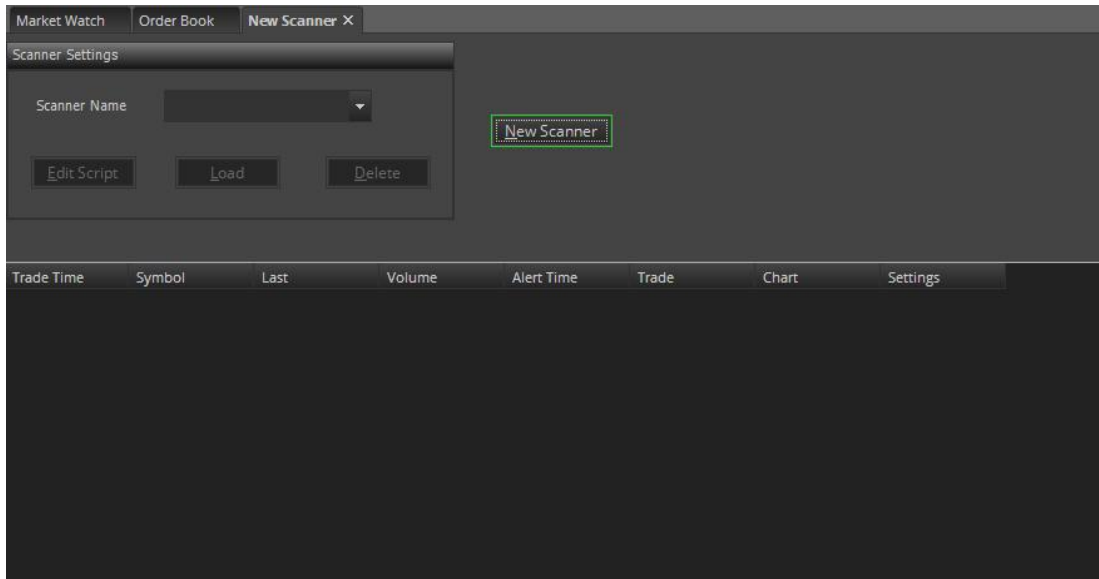
The Stock Scanner feature can be accessed from the Alerts menu in Main menu.

A stock scanner is a tool that allows user to search several symbols simultaneously for certain criteria.

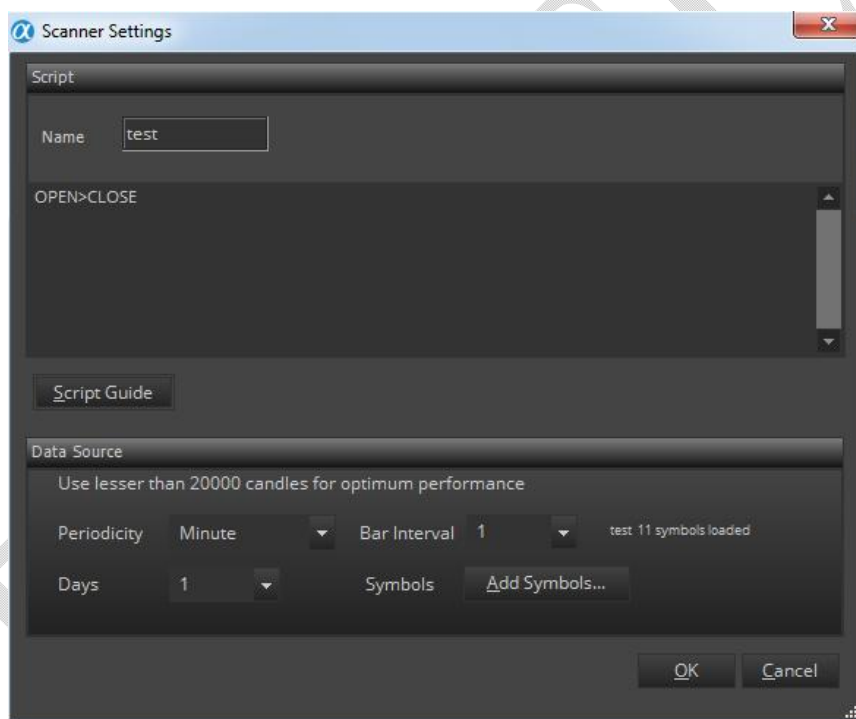
The stock scanner that is built into Alpha Trader allows user to accomplish this by means of the TradeScript.

To create a new scanner, select Scanner from Alert menu in the Main menu. Next, click on New Scanner button.

A dialog will display:



To create a new scanner, select Stock scanner from Alert menu in the main menu. Next, click on New Scanner button. A dialog will display:



Here user could give name to the scanner and simply type trade script into the script text box then choose the appropriate bar interval, periodicity and no. of days values. Always use up to 60 days for optimum performance. Next, click the Add Symbol button to add symbols on which user want to run the scanners.

Here user could search the symbols and add to list of symbols on which he/she want to run the scanner. Click OK button to select the list of symbols. User can also add predefined list of symbols, by selecting default symbols. Now select OK button for saving the scanner.

User could now see the newly defined scanner in scanner list. Just select the scanner and press Load button to start the scanner. User could also edit or using Edit and Delete buttons.

User may also remove all the symbols by clicking on Remove All button.

The scanner gets loaded in the list of scanners created by user. User can select the scanner and click Load button to start a scanner. Scanner allows for one symbol per new line.

The scanner will take several moments to load the historic data into memory; therefore this start-up task should be run prior to the market opening.

The back test screen will run in real time after the historic data has been loaded into memory.

The Trade Time cell indicates when the last trade occurred. The Alert Time cell indicates when user's script last generated a signal.

The Trade button allows user to place a trade, the Chart button allows user to open a chart, the Settings button allows user to customize the script for the selected symbol only. The stop button will give a message box asking user "Stopping the scanner will require a complete re-priming of data if user wish to restart the scanner" and clicking on Yes will stop the scanner or clicking on No will continue with the scanner.

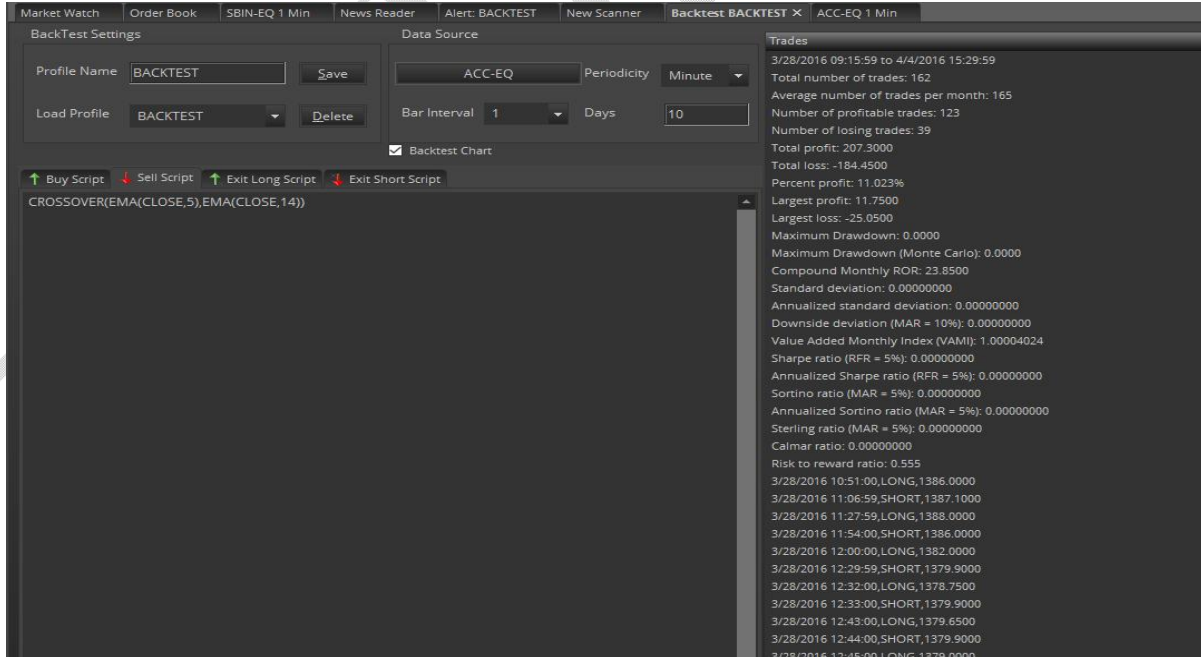
The scanner can be edited, by clicking Edit button and the script bars, bar intervals etc could be changed and saved. The scanners can be selected in list of scanners and deleted by clicking Delete button.

## Back Testing

The Back Testing screen can be loaded from the Alerts menu in the Main Menu.

**Back Testing** is a method that traders use to test their trading strategies against historical market conditions.

Knowing how much profit or loss a trading system generated in the past may help prevent or reduce the risk of loss in real trading.



The Abacus Back Testing engine can calculate user's trading system's performance using nearly two-dozen scientific profit, loss and risk measurements. Abacus allows user to specify individual instructions for buying, selling, holding, and exiting his/her simulated trades. To run a Back Test, simply enter and verify user buy, sell, and exit scripts then click the Back Test button. The Buy Script is a set of instructions for buying (going long) and the "Sell Script" is a set of instructions for selling (going short).

The scripts required on this screen are based on the Abacus programming language. Please refer to the Abacus programming guide for complete details. Click on script guide will open Tradescrypt Help document for user to learn how to write Buy, Sell and Exit scripts.



User can add symbol by clicking on Select Symbol button which will open Select symbol window to select symbols from any of the exchanges to perform the Backtesting.

### Back Test Results Overview

Some trading strategies work well on a wide range of securities but work poorly with some securities. Reasons may include poor market liquidity for a particular stock (low volume), high volatility and other factors. It is a good idea to test user's own strategy across a wide range of securities. Just because it isn't very profitable on one security doesn't mean it won't work well with another security.

The values on the back testing page represent a range of measurements based on profitability and risk of user's trading system when tested with the symbol that user supplied at the top of the back test screen. The output on the back testing results list provides an overall picture of how user's strategy might perform if used as a live trading system.

### Overview of Back Test Outputs

#### Total Number of Trades

Total number of trades including buy, sell, and exit trades.

#### Average Number of Trades per Month

Average number of trades per month, including buy sell, and exit trades.

#### Number of Profitable Trades



Total number of profitable trades since the beginning of the back test.

### **Number of Loosing Trades**

Total number of non-profitable trades since the beginning of the back test.

### **Total Profit**

Total profit since the beginning of the back test.

### **Total Loss**

Total loss since the beginning of the back test.

### **Percent Profit**

Percentage of profitable trades in since the beginning of the back test.

### **Largest Profit**

Largest single trade profit.

### **Largest Loss**

Largest single trade loss.

### **Maximum Drawdown**

The maximum account drawdown, defined as the percent retrenchment from equity peak to equity valley. A drawdown is in effect from the time an equity retrenchment begins until a new equity high is reached.

### **Maximum Drawdown (Monte Carlo)**

Same as maximum drawdown, except the test is repeated 5,000 times, with each test introducing a small random slippage. Preferred over regular drawdown.

### **Value Added Monthly Index (VAMI)**

Reflects the growth of a hypothetical \$1,000 in a given investment over time. The index is equal to \$1,000 at inception. Subsequent month-end values are calculated by multiplying the previous month's VAMI index by 1 plus the current month rate of return.

Where Vami 0=1000 and

Where R N=Return for period N

Vami N= (1 + R N) X Vami N-1

### **Compound Monthly ROR**

The geometric mean is the monthly average return that assumes the same rate of return every period to arrive at the equivalent compound growth rate reflected in the actual return data.

### **Standard Deviation**

Measure the degree of variation of returns around the mean (average) return. The higher the volatility of the investment returns, the higher the standard deviation will be.

Where R I=Return for period I

Where M R=Mean of return set R

Where N=Number of Periods

$M R = (\sum R I) \div N$

I=1

$(\sum (R I - M R)^2 \div (N - 1))^{1/2}$

## Annualized Standard Deviation

Standard Deviation X (12)<sup>1/2</sup>

## Downside Deviation (MAR = 10%)

Similar to the standard deviation above except the downside deviation considers only returns that fall below a defined Minimum Acceptable Return (MAR) rather than the arithmetic mean. For example, if the MAR were assumed to be 10%, the downside deviation would measure the variation of each period that falls below 10%. (The loss standard deviation, on the other hand, would take only losing periods, calculate an average return for the losing periods, and then measure the variation between each losing return and the losing return average).

Where R I=Return for period I

Where N=Number of Periods

Where R MAR=Period Minimum Acceptable Return

Where L I=R I - R MAR (IF R I - R MAR < 0) or 0 ( IF R I - R MAR ≥ 0 )

$((\sum (L I)^2) / N)^{1/2}$

I=1

**Downside Deviation** =  $((\sum (L I)^2) / N)^{1/2}$

Where NL=Number of Periods where R I - M < 0

## Sharpe Ratio

A measure developed by William Sharpe that is defined as the incremental average return of an investment over the risk free rate. Risk (denominator) is defined as the standard deviation of the investment returns.

Where R I=Return for period I

Where M R=Mean of return set R

Where N=Number of Periods

Where SD=Period Standard Deviation

Where R RF=Period Risk Free Return

$M R = (\sum R I) / N$

I=1

$SD = ((\sum (R I - M R)^2) / (N - 1))^{1/2}$

I=1

Sharpe Ratio=  $(M R - R RF) / SD$

## Sortino Ratio (MAR = 5%)

A return/risk ratio developed by Frank Sortino. Return (numerator) is defined as the incremental compound average period return over a Minimum Acceptable Return (MAR). Risk (denominator) is defined as the Downside Deviation below a Minimum Acceptable Return (MAR).

Where R I=Return for period I

Where N=Number of Periods

Where R MAR=Period Minimum Acceptable Return

Where DD MAR=Downside Deviation

Where L I=R I - R MAR (IF R I - R MAR < 0) or 0 (IF R I - R MAR ≥ 0)

$DD MAR = ((\sum (L I)^2) / N)^{1/2}$

I=1

Sortino Ratio =  $(\text{Compound Period Return} - R MAR) / DD MAR$

Annualized Sortino ratio (MAR = 5%)

Annualized Sortino=Monthly Sortino X (12)<sup>1/2</sup>

## Calmar Ratio

Return/risk ratio. Return (numerator) is defined as the Compound Annualized Rate of Return over the last 3 years. Risk (denominator) is defined as the Maximum Drawdown over the last 3 years. If three years of data are not available, the available data is used.

### Sterling Ratio (MAR = 5%)

Return/risk ratio. Return (numerator) is defined as the Compound Annualized Rate of Return over the last 3 years. Risk (denominator) is defined as the Average Yearly Maximum Drawdown over the last 3 years less an arbitrary 10%. To calculate this average yearly drawdown, the latest 3 years (36 months) is divided into 3 separate 12-month periods and the maximum drawdown is calculated for each. These 3 drawdowns are averaged to produce the Average Yearly Maximum Drawdown for the 3-year period.

Where D1 Calmar Ratio = Average Annual ROR /Worst drawdown = Maximum Drawdown for first 12 months

Where D2 = Maximum Drawdown for next 12 months

Where D3 = Maximum Drawdown for latest 12 months

Average Drawdown = (D1 + D2 + D3) / 3

**Sterling Ratio** = Compound Annualized ROR /ABS ((Average Drawdown -10%))

### Generated Alerts

The Generated Alerts window will show the Buy/Sell alerts created using the scripted alerts. Using this window user can buy or sell the particular stock on which alerts are generated. In this window, the information provided for the any stock are Time at which alert is generated, Source Component, Strategy using which alerts are generated, Exchange, Trading Symbol, Order Type, etc. User can also add more columns to this window by right clicking on top of the data grid and selecting the Choose column option.

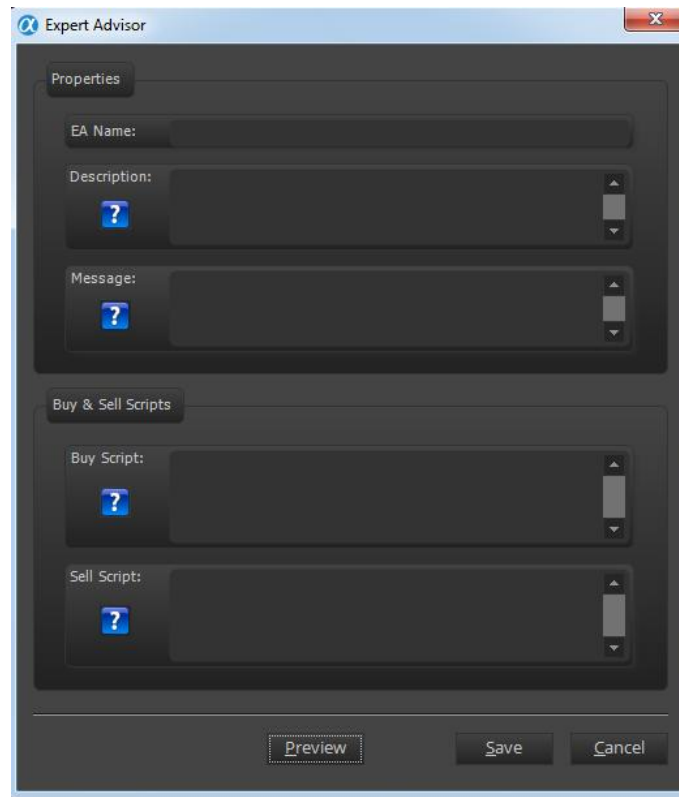
Time	Source Component	Strategy	Exchange	Trading Symbol	Order Type	Product Type	Quantity	Price	Trigger Price	Trade
4/10/2015 5:26:2...	Scripted Alerts	Strategy 1 (TMI...	MCK	CRUDEOIL1SAP...	Limit		1	3182	0.00	BUY
4/10/2015 5:26:1...	Scripted Alerts	Strategy 1 (TMI...	MCK	CRUDEOIL1SAP...	Limit		1	3181	0.00	SELL
4/10/2015 5:26:0...	Scripted Alerts	Strategy 1 (TMI...	MCK	CRUDEOIL1SAP...	Limit		1	3182	0.00	BUY
4/10/2015 5:24:3...	Scripted Alerts	Strategy 1 (TMI...	MCK	CRUDEOIL1SAP...	Limit		1	3176	0.00	SELL
4/10/2015 5:24:2...	Scripted Alerts	Strategy 1 (TMI...	MCK	CRUDEOIL1SAP...	Limit		1	3175	0.00	BUY
4/10/2015 5:24:0...	Scripted Alerts	Strategy 1 (TMI...	MCK	CRUDEOIL1SAP...	Limit		1	3176	0.00	SELL
4/10/2015 5:23:2...	Scripted Alerts	Strategy 1 (TMI...	MCK	CRUDEOIL1SAP...	Limit		1	3177	0.00	BUY
4/10/2015 5:23:1...	Scripted Alerts	Strategy 1 (TMI...	MCK	CRUDEOIL1SAP...	Limit		1	3177	0.00	SELL
4/10/2015 5:23:1...	Scripted Alerts	Strategy 1 (TMI...	MCK	CRUDEOIL1SAP...	Limit		1	3177	0.00	BUY
4/10/2015 5:22:5...	Scripted Alerts	Strategy 1 (TMI...	MCK	CRUDEOIL1SAP...	Limit		1	3176	0.00	SELL
4/10/2015 5:22:3...	Scripted Alerts	Strategy 1 (TMI...	MCK	CRUDEOIL1SAP...	Limit		1	3174	0.00	BUY
4/10/2015 5:22:3...	Scripted Alerts	Strategy 1 (TMI...	MCK	CRUDEOIL1SAP...	Limit		1	3174	0.00	SELL
4/10/2015 5:22:2...	Scripted Alerts	Strategy 1 (TMI...	MCK	CRUDEOIL1SAP...	Limit		1	3174	0.00	BUY
4/10/2015 5:22:1...	Scripted Alerts	Strategy 1 (TMI...	MCK	CRUDEOIL1SAP...	Limit		1	3173	0.00	SELL
4/10/2015 5:22:0...	Scripted Alerts	Strategy 1 (TMI...	MCK	CRUDEOIL1SAP...	Limit		1	3174	0.00	BUY
4/10/2015 5:21:1...	Scripted Alerts	Strategy 1 (TMI...	MCK	CRUDEOIL1SAP...	Limit		1	3168	0.00	SELL

## Artificial Intelligence

### Expert Advisors

Expert Advisors can be attached to charts so that a popup alert will display anytime a buy or sell strategy generates a signal.

To create an Expert Advisor, open a chart and click the Expert Advisors, Create New Expert Advisor menu.



Simply type a name, description, message, a buy script and a sell script (using the TradeScript).

The message will be displayed in the popup window whenever expert advisor generates a signal. User may enclose constants within brackets, separated by a pipe character. For example user may write text such as the following: "The SMA just crossed [over|under] the close, generating a [buy|sell] signal". The first value will be interpreted for long positions while the second value will be interpreted for short positions. User can also use HTML formatted text such as **<b></b>** for bold, **<font color=red></font>** for red text, etc. User can save his/her script by clicking on Save button and can also check the preview of user's scripts by clicking on Preview button, an Alert popup message will appear showing the message user save in the EA script at the bottom of the screen.

### Apply Expert Advisor

Using this option in Artificial Intelligence, user can apply various EA on the charts to generate Buy or Sell signals. There are 35 public Expert Advisors are available in Alpha Trader. User can also use Expert Advisor made by the user himself.

User can also view the public expert advisor script.

### Edit Expert Advisor

Using this option in Artificial Intelligence, user can also edit EA made by him.

After selecting the EA, click on Edit Selected EA and user will be able to edit EA.

**Note: User will not be able to edit any of the public EAs.**

User can also delete the EA made by him.

### Consensus Reports

Consensus Reports are simply groups of Expert Advisors that are processed simultaneously and the results are aggregated into one ranking value.

User may access this feature by opening a chart then selecting Consensus Report in Artificial Intelligence menu.

Simply select one or more Expert Advisors then click the Apply button.

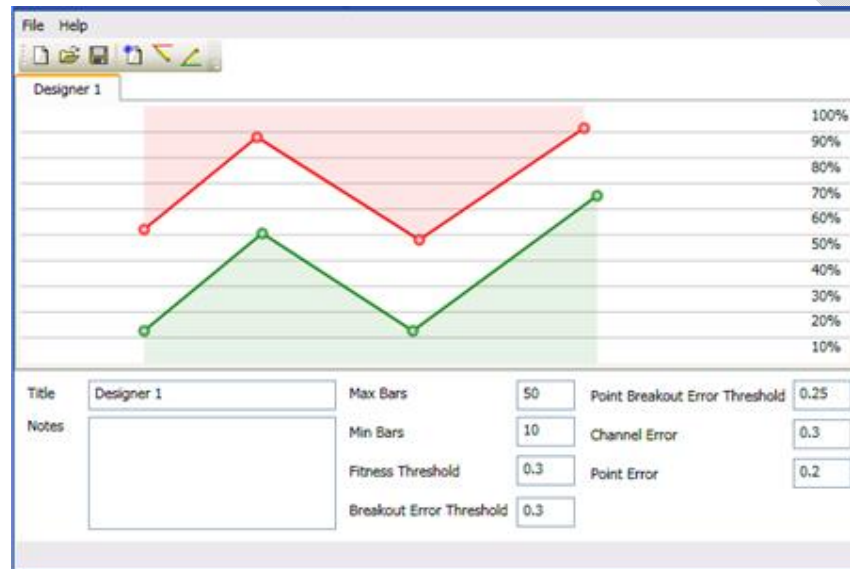
The Consensus Report will list the generated signals for each selected Expert Advisor, along with a ranking value represented inside a gauge.

**Note: The report will be generated by taking previous 10 bars into consideration.**

## Pattern Recognition

The Pattern Recognition feature of Alpha Trader allows user to search for patterns within the currently selected chart.

To use this feature, open the Chart, Pattern Recognition item from the main menu  
A dialog will display. Select <launch pattern designer...> from the list.



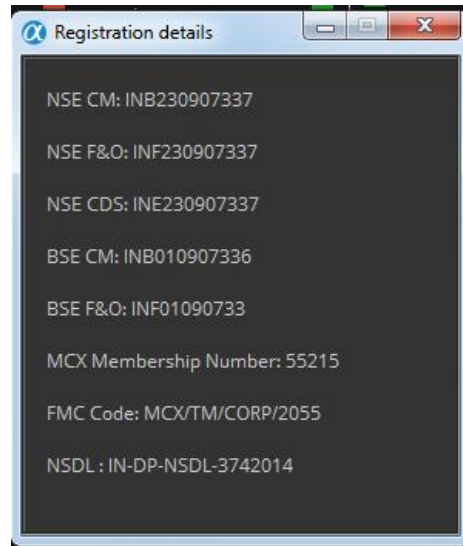
Use the pencil icons to draw pattern then enter the appropriate settings in the text boxes below. Please refer to the Advanced Pattern Recognition documentation for a complete overview of these settings.

After clicking on the Save button, return to Alpha Trader and select Chart, Pattern Recognition again. The pattern created by user will be listed. Simply click on pattern to search for it within the currently selected chart.

## Help Menu

### Registration Details

User can see the registration details by clicking on Help menu and selecting Registration details.



### Web Links

User can open the any of these given web links of NSE, BSE, MCX, SEBI, FMC and Corporate Actions by selecting from Web Links menu in Help menu.

- If User select NSE, user will be redirected to:  
<http://www.nseindia.com/>
- If User select BSE, user will be redirected to:  
<http://www.bseindia.com/>
- If User select MCX, user will be redirected to:  
<http://www.mcxindia.com/>
- If User select SEBI, user will be redirected to:  
<http://www.sebi.gov.in/sebiweb/>
- If User select FMC, user will be redirected to:  
<http://www.fmc.gov.in/>
- If User select Corporate Actions, user will be redirected to:  
<http://www.bseindia.com/markets/Equity/EQReports/MarketWatch.aspx?expandable=2>



## Help Contents

User can view this Help document by selecting Help Contents in Help menu.

## Trading Script Help

User can view Trade Script help document by selecting TradeScript Help in Help menu. Using this document user can write his/her own Trade script that will help user to generate scripted alerts, Backtest, EA and scanner.

## Check for Updates

When new update of Alpha Trader will be available, Alpha Trader will show a popup for new updates. User can updates Alpha Trader using Check for Updates in Help menu.

## Update Available

When user clicks on Check for Updates in Help menu, it'll open a dialog like

## Update downloading

After clicking on Yes, It'll start downloading the new update.

## Patch applied

## About Alpha Trader

User can see the version and release date of Alpha Trader here.

## Keyboard Shortcuts

<b><u>Functionality</u></b>	<b><u>Shortcut Keys</u></b>
1.Change Password	Ctrl + Shift + F9
2. Exit	Alt+ F4
3. Buy Order	F1 or Alt + F1
4. Sell Order	F2 or Alt + F2
5. Cover Order Buy	Shift + F1
6. Cover Order Sell	Shift + F2
7. After Market Order Buy	Ctrl + F1
8. After Market Order Sell	Ctrl + F2
9. Bracket Order Buy	Shift + F3
10. Bracket Order Sell	Shift + F4
11. Order Book	F3
12. Modify Order	Shift + M

13.Cancel Order	Shift + K
14. Cancel All	Shift + A
15. Exit Order	Shift + E
16. Trade Book	F8
17. Admin Position	F11
18. Cash Position	Ctrl +Shift + V
19. Stock Holding	Alt + F9
20. User Settings	Ctrl + P
21. View Market Index	Ctrl + M
22. View Quick Order	Ctrl + Q
23. Scrip Property	Shift + F7
24. Snap Quote	F6
25. Chart settings	Shift + C
26. Add blank space in market watch	Space Bar
27. Chart Shortcuts 27. 1. Zoom Out /In 27.2. Scroll Left /Right 27.3 Navigate to 1st 100 bars 27.4 Navigate to last 100 bars	Arrow Key Down/ Up Arrow key Left/Right Home End
28. Reconcile	Ctrl + R
29. switch between Alpha Trader Document Tabs	Ctrl + TAB
30.Lock Alpha Trader	Ctrl + Alt + L
31. Delete (symbol from market watch, or selected indicators/drawings from chart)	Delete