



# MT4SUPER

## APPS

## USER GUIDE

From advanced order execution and management to sophisticated alarms and messaging plus the latest market news and data, optimise your trading opportunities with our 12 feature-rich apps.

Full details on how to use them within.

## SENTIMENT TRADER

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## 1. About sentiment data

The Sentiment Trader displays information about current and historic long/short sentiment: the percentage of traders who currently have (or had) an open buy or sell position in a symbol.

The figures are *not* technical analysis based on price action. They are calculated from real-money accounts which are being published to [www.fxblue.com](http://www.fxblue.com). For example:

- 5845 real-money accounts publishing to [www.fxblue.com](http://www.fxblue.com) have an open buy position in EURUSD, and 2378 accounts have an open sell position. The app will show that the EURUSD sentiment is 71% long.

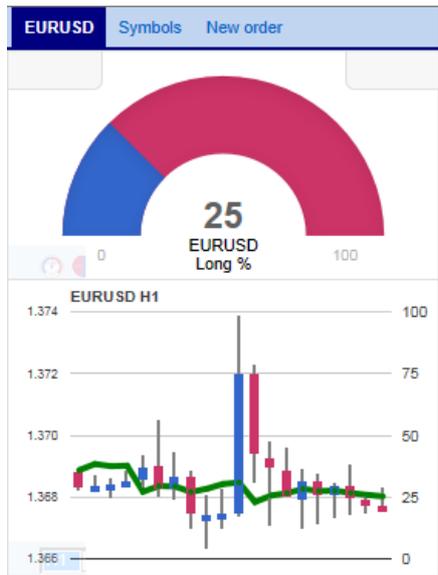
The list of available symbols is determined by popularity, i.e. the number of people trading them. For example, sentiment data is not available for CADJPY because there are typically too few traders with an open position to calculate a meaningful percentage.

If a trader has multiple open orders in the same symbol, then the sentiment calculation uses a single net figure for the trader's positions. For example, if a trader has an open buy order for 1.5 lots and an open sell order for 0.7 lots, then they are treated as being long.

The sentiment percentage is **not** weighted by volume (because [www.fxblue.com](http://www.fxblue.com) has a few users with *very* large accounts and trade sizes). A trader who is long 0.1 lots has the same effect on the figures as a trader who is long 50 lots.

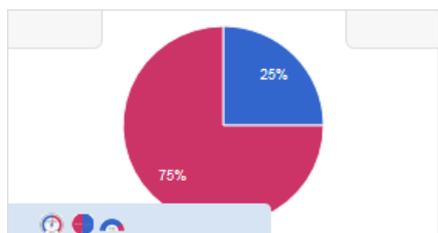
## 2. Using the Sentiment Trader

The Sentiment Trader shows the current long/short sentiment (25% long in the following example), and a chart of historic sentiment plotted against price action. In the example below, sentiment has remained consistently below 50%, i.e. a majority of traders have been short EURUSD.



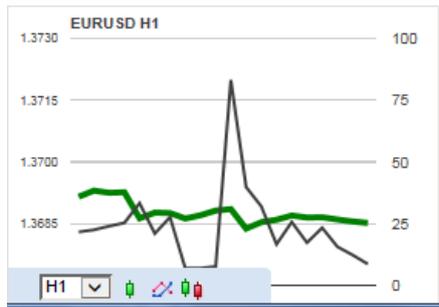
### 2.1 Changing the display of current sentiment

You can change the way that current sentiment is displayed using the pop-up bar in the bottom-left of the chart. There are three options: a dial; a pie chart; and a gauge (the default).



### 2.2 Changing the display of historic sentiment

You can change the way that historic sentiment is displayed again using a pop-up bar in the bottom-left of the chart:

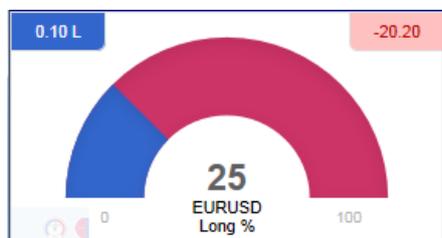


You can choose the timeframe for the historic chart (e.g. M5, H1), and three different types of chart:

- Price candles vs sentiment (the default)
- A line chart of close prices vs sentiment (as illustrated above)
- “Sentiment candles”: these show the *range* of sentiment values, rather than just the closing value, within each time bar (M5, H1 etc).

### 2.3 Current open position

The boxes at the top of the display show any open position in the selected symbol. In the following example, the trader is long 0.1 lots EURUSD, and the current P/L of that position is a loss of 20.20:



### 2.4 Switching between symbols

You can switch between different symbols using the Symbols tab at the top of the app.

This displays a list like the example below which shows the symbols; the current long/short sentiment as a bar; any open position which you have in the symbol; and the P/L of the open position.

You can switch the main display to a different symbol by clicking on its name in this list.

EURUSD	Symbols	New order		
AUDNZD		-	-	-
AUDUSD		0.10 S	+63.90	
EURCHF		-	-	
EURGBP		-	-	
EURJPY		-	-	
EURUSD		0.10 L	-20.20	
GBPUSD		15.00 L	-23445	
NZDUSD		-	-	
USDCAD		-	-	
USDCHF		-	-	
USDJPY		-	-	

## 2.5 Opening and closing positions

[Please note: the order tab is not available on the tradable platform]

You can use the New Order to carry out simple trading actions such as closing an open position or opening a new one.

EURUSD	Symbols	New order	
Volume	Floating P/L	<button>Close</button>	
0.10 L	-20.20		
EURUSD			
Volume:	<input type="text" value="0.10"/>	lots	
S/L:	<input type="text" value="-"/>	<input type="button" value="v"/>	pips
T/P:	<input type="text" value="-"/>	<input type="button" value="v"/>	pips
<input checked="" type="checkbox"/> Non-hedging mode (sells close buys, and vice versa)			
<input type="button" value="Sell"/>	<input type="button" value="Buy"/>		
1.36764	1.36778		

The top of the trading form shows any open position in the selected symbol, with a button for closing the position. Below that is a simple form for placing a new buy or sell market order.

**SESSION MAP**

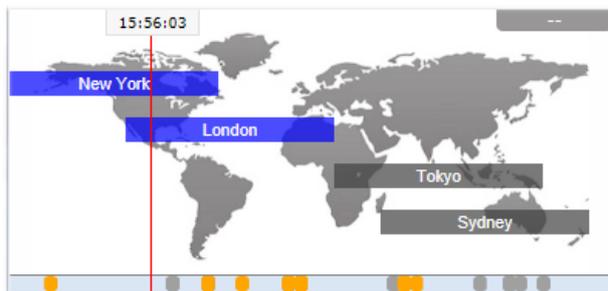
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## 1. Session Map

The Session Map shows your current local time in relation to “sessions” during the trading day, i.e. the core trading hours when institutional dealers are most active in Sydney, Tokyo, London and New York.

(For example, Tokyo trading is defined as 11pm GMT to 8am GMT, or 8am to 5pm Tokyo time.)

The Session Map also shows markers for [future news events](#); information about your [floating P/L and equity](#); and [price activity](#) during each session.



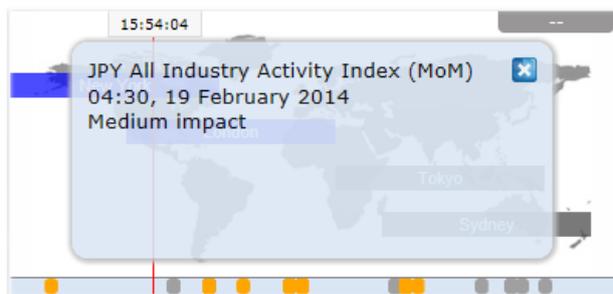
**Please note:** the current time is taken from your computer clock, and its accuracy depends on your computer clock being accurate.

### 1.1 News markers

The bar at the bottom of the map shows markers for future news events, e.g. non-farm payroll. (Items to the right of the current time are *not* in the past: they are a long way into the future.)

Each marker is color-coded to indicate its importance: red for high-impact events; orange for medium; and gray for low.

You can hover the mouse over a marker to display a tooltip showing what the event is, and you can click on a marker to see that text in full. For example:

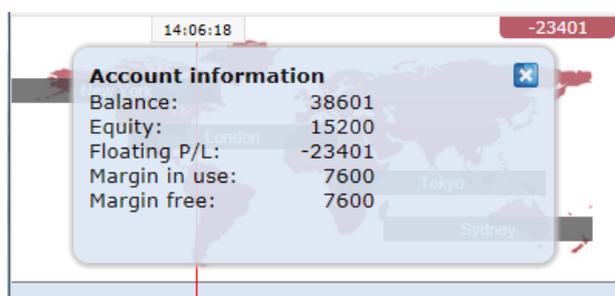


## 1.2 Floating P/L, account information, and color-coding

The box at the top of the map shows the current floating P/L on your account (if any). In the example above, the floating P/L is a loss of TODO.

The map is color-coded depending on the floating P/L: green for profit; red for loss; gray if no open position.

You can get a summary of your account by clicking on the P/L box. For example:



## 1.3 Session bars

If you hover the mouse over a session bar such as "Sydney", you will see a tooltip showing the current local time in Sydney and how long it is until core trading opens or closes in that region.

You can also click on a session bar to show a summary of price action for major symbols during that session.

The following example shows the most recent trading in Tokyo. EURUSD fell 5.5 pips during the session, with a trading range of 26.2 pips, closing at 1.3688.



The screenshot shows the 'Tools' > 'Settings' window in MT4. At the top, it displays the time '14:03:17' and a balance of '-23401'. The main window is titled 'Tokyo' and shows the session hours 'Thu 23:00 - Fri 07:59'. Below this is a table of market data for various currency pairs. The table has columns for 'Pips', 'Rise/fall', 'Range', and 'Close'. The data is as follows:

Pips:	Rise/fall	Range	Close
EURUSD	-5.5	26.2	1.3688
USDJPY	+1.9	50.2	103.36
USDCHF	+3.0	29.5	0.8978
GBPUSD	+14.4	39.4	1.6653
AUDUSD	-54.4	85.8	0.8701

Please note: the prices used in the Session Map are an average of multiple brokers and may differ very slightly from the prices displayed by your broker.

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## 1. Overview of the Trade Terminal

### 1.1 Opening the Trade Terminal

You run the Trade Terminal by opening a chart for any symbol in MetaTrader 4, and then adding the Trade Terminal expert advisor (EA) to that chart: either double-click on the EA in the MT4 Navigator list, or drag the EA onto the chart.

Please note: you can only run one EA per chart in MT4. If an EA is already running on a chart, then adding the Trade Terminal to that chart will replace the existing EA. To run both the Trade Terminal and another EA, simply open more than one chart.

### 1.2 Components of the Trade Terminal

The Trade Terminal consists of three parts:

- [Market watch](#)
- [Account summary](#)
- [Order list](#)

You can minimise (i.e. contract) the account summary and order list by clicking on the double-arrows in their title bars. This devotes the maximum amount of space to the market watch.

The Trade Terminal shows all activity on your account, not just orders placed using the Trade Terminal itself. For example, if you are running an automated system, or you place manual trades using MT4's own built-in features, then this activity will be reflected in the Trade Terminal's account summary and order list.

## 2. Market watch

The market watch displays a trading widget (or “deal ticket”) for each symbol. Each one of these behaves in a very similar way to the on-chart Mini Terminal, which is described in a separate manual.

The symbols in the Trade Terminal’s market watch synchronise with MT4’s own market watch. In other words, to add or remove symbols from the Trade Terminal, you add or remove them from the MT4 market watch. The Trade Terminal will then synchronise its list within a few seconds.

Please note: the speed and processor usage of the Trade Terminal depends on the number of symbols being displayed.

### 2.1 Placing buy/sell orders

You can place a buy or sell order for each symbol in the market watch using the large green and red buttons. The status indicator at the top of each widget shows your current net position for that symbol, e.g. +0.10 if you are long 0.1 lots, or -0.10 if you are short 0.1 lots. You can quickly close all your open positions and pending orders for a symbol by clicking on this status indicator.

You can control the lot size on new orders, and set a stop-loss, take-profit, or trailing-stop using the fields above the buy and sell buttons.

You can also open calculators for each of these fields by holding down the Ctrl key while clicking on them. For example, if you are trading 0.25 lots, and you want a stop-loss which is equivalent to \$100, then you can Ctrl+click on the S/L field and tell the calculator to work out the number of pips which is equivalent to a fixed cash risk of \$100.

### 2.2 Placing pending orders

You can place pending orders (limits and stops) by clicking on the  button and choosing “New order”. You can choose the order type and entry price, stop-loss, take-profit etc.

The entry price for pending orders can be defined either as a fixed price (e.g. 1.23456) or as a number of pips. For example, if you choose a buy-limit and enter a value of 20 pips rather than a price, then the limit order is created 20 pips below the current price.

### 2.2.1 OCO orders

The new-order form also lets you place one-cancels-other (OCO) orders. There are two types of OCO order:

- “OCO breakout”. You specify two prices, or two values in pips, either side of the current price, and the Trade Terminal places a buy-stop and a sell-stop. Once one of the pending orders is filled, the other is automatically cancelled. You would typically use this when you are expecting a major price movement, but you don’t know whether the move is going to be up or down. For example, there are many trading strategies based around trading the breakout, in either direction, of yesterday’s range.
- “OCO reversion”. In this case the Trade Terminal places a buy-limit and sell-limit, rather than a buy-stop and sell-stop. You would typically use this if you are expecting a move in either direction followed by a return towards the current price – e.g. a bounce off yesterday’s high or low.

### 2.3 Order templates

If there is a type of order which you place regularly – e.g. a buy-limit 20 pips below the current price, with a 100-pip s/l and t/p – then you can save this as a template for quick re-use in future:

- Click on the  button, and choose “New order”
- Enter the details of the order
- Click on the “Save template” button and choose a name.

You can then quickly execute that saved template in future, in two different ways:

- Click on the  button and choose the saved template from the Templates sub-menu.

Or:

- Hold down the Ctrl key while clicking on the  button
- Choose the saved template from the list

### 2.4 Closing orders

You can close all open and pending orders for a symbol in two ways:

- By clicking on the position marker at the top of the symbol's widget: the text which reads +0.10, -0.50 etc.
- By clicking on the  button and choosing "Close position"

## **2.5 Symbol information**

You can view information about the symbol by clicking on the  button and choosing "Symbol information". This pops up a window showing the minimum price movement for the symbol, the minimum and maximum trade sizes etc.

## **2.6 Other features**

You can quickly open a new chart for a symbol by clicking on the  button and choosing "New chart".

### **3. Account summary**

The account summary shows key information about your account: balance, equity, floating P/L, free margin, number of open positions etc.

You can set an alarm on any entry by clicking on the bell icon next to it. For example, you can ask for an alarm when your free margin falls below \$1,000, or when the number of positions is zero (i.e. when all positions have been closed). Alarms are displayed as popup alerts in MT4, and can also be sent to you by email.

When an alarm has been created, the colour of the bell icon changes to yellow. If an alarm is then subsequently triggered, the colour changes to red.

#### **3.1 Alarm levels**

You set an alarm by specifying a threshold (e.g. 1000) and choosing whether the alarm should go off when the value exceeds the threshold, or falls below it, or is exactly equal to it, or not equal to it. For example, if there are currently 2 open positions and you want to be notified if this changes in any way, then you would enter the value 2 for the alarm and choose the option "not equal to".

#### **3.2 Alarm repeats**

Alarms can either be turned off once they are triggered, or they can be set to repeat. A repeat period tells the terminal to ignore the alarm for a certain number of minutes. For example, if you have asked for an alarm when free margin falls below \$1000, then the repeat period prevents the alarm being triggered over and over again every few seconds if free margin keeps bouncing between \$999 and \$1001.

#### **3.3 Email**

You can get an email notification when an alarm is triggered, as well as having the standard alert pop up on screen. In order to receive email you need to turn on MT4's email settings, which you can configure using the main Tools/Options/Email menu in MT4.

#### **3.4 Closing charts and orders**

You can configure two extra actions to take place when an alarm is triggered:

- Close all orders. When the alarm is triggered, this option attempts to close all open positions and delete all pending orders. It would typically used in relation to an alarm on free margin, where you want to close out your positions in order to prevent a margin call.
- Close all charts. This option closes all charts in MT4 apart from the Trade Terminal's own chart. The main purpose of this is to prevent automated systems (EAs) on other charts from placing any further trades.

## 4. Order list

The order list shows all the open positions and pending orders on your account, and provides facilities for managing those orders. It replicates the information from MT4's own order list, and includes some extra details such as trade duration and profitability in pips.

N.B. If the  icon next to an order changes to  then it indicates that the Trade Terminal is carrying out some kind of automated action on the order: a [trailing stop](#), or an [automated close](#), or that the order is part of an [OCA group](#). You can check which actions are being carried out by clicking on the icon and choosing "Tasks in progress".

### 4.1 Sorting the list and re-ordering columns

You can sort the order list by any of its columns: simply click on a header such as "Ticket" to sort in ascending order, and then click again to re-sort in descending order.

You can also re-arrange the columns in the list by dragging the headers: press and hold the left mouse button over a header, and then drag the mouse pointer to the new location where you want to put the column.

### 4.2 Closing orders

You can close an open position or delete a pending order by clicking on the  button next to it.

The "Close" option on the toolbar above the order list contains options for closing multiple orders: close everything, close all losers etc.

As [described above](#), you can close all the orders for a particular symbol by using its widget in the market watch. (It is also possible to close all the orders for a symbol by opening a [summary of your orders](#) by symbol, and then using the  icon for the symbol and choosing the "Close" option.)

### 4.3 Modifying orders

You can carry out a number of actions on orders: partial close, change s/l, set a trailing stop etc. These options are available in a number of places, and appear as a pop-up menu:

- By clicking on the ✖ icon next to an individual order.
- By choosing “All orders” under Tools on the menu bar above the order list. The pop-up menu will then carry out an action such as a partial close on every order.
- By selecting some of the orders in the list ([see below](#)) and then choosing “Selected orders” from the Tools menu.
- By clicking on the ✖ icon in a summary window ([see below](#)).

#### **4.3.1 Selecting orders from the list**

You can select some of the orders in the order list and then carry out actions only on those specific orders. The order list follows the standard behaviour for a Windows application:

- Clicking on an entry selects that row (and de-selects any existing entries).
- Using Shift+click selects all the entries between the current selection and the item now being clicked on. For example, if there are 5 entries in the order list and you want to select items 2 through 4, then you click on item 2 and Shift+click on item 4.
- Using Ctrl+click “toggles” an entry: i.e. selects it if it is currently de-selected, or de-selects it if currently selected. Therefore, you can select all the entries in the list except by one by clicking on the first entry, Shift+clicking on the last entry, and then Ctrl+clicking on the order you want to leave out.

Once you have selected some entries in the order list, you can use the “Selected orders” option on the Tools menu. This will be disabled (greyed out) if no orders are currently selected.

#### **4.3.2 Partial closes, s/l, t/p, and t/s**

You can do a partial close of an order, or set/modify its stop-loss (s/l), or its profit target (t/p), or its trailing stop (t/s). The values for stop-losses and profit-targets are specified in pips, though the s/l and t/p can also be set to break-even, i.e. the order’s entry price.

A partial close cannot always be processed exactly: for example, you cannot do an exact 50% partial close of an order for 0.03 lots, because 0.015 lots is not a permitted size. Partial closes always round down to the nearest lot size permitted by your broker. For example, if you ask to close 50% of an order for 0.03 lots, then the software will close 0.01 lots, leaving an order for 0.02 lots.

Please note: trailing stops are processed by the Trade Terminal software, not by your broker. The trailing stop will cease operating if you close the Trade Terminal (or MT4).

### 4.3.3 Order details

You can also open a pop-up window for each order by clicking on its ticket number, or by clicking on the  icon and choosing “Edit...”

The pop-up window shows how close the s/l and t/p are to being hit (e.g. for long orders, the distance from the current bid price to the s/l), and the cash effect on the balance if the s/l or t/p is hit. The current profit for the order shown in the top-right of the window can be switched between cash and pips by clicking on it.

You can close the order using the red button, and you can change the s/l, t/p or trailing stop by clicking on those options.

## 4.4 Automated closes

Automated closes let you define rules for exiting an open position. These can consist of multiple parts (e.g. scaling out of a position when profit thresholds are met), and can include visual and email alerts. Automated closes can also be saved as templates for quick re-use in future.

Please note: automated closes are processed by the Trade Terminal software, not by your broker. They will cease operating if you close the Trade Terminal (or MT4).

You create an automated close, or run an existing one, by choosing “Automated close” from the [Tools menu](#) for an order (or multiple orders), and then choosing “Create” to define a new automated-close rule, or “Edit” if there is already an active automated-close on the order.

Each automated close can consist of any number of stages: for example, close 50% of the order and set a break-even stop when it reaches 20 pips of profit, and close the remainder of the order when it reaches 30 pips. You simply click on the “Add a rule” link to add a stage to the automated-close.

#### 4.4.1 Thresholds for automated closes

At the top of each stage of an automated close, you choose the threshold when this rule is applied. You select the criterion, such as the order's profit in pips or duration, and the value for the threshold. For example, to carry out an action once an order has been open for an hour, you choose "order duration", "greater or equal to", and enter the value 60.

#### 4.4.2 Actions for automated closes

In each stage of an automated close you can carry out a number of actions such as closing part or all of the order, or setting a stop-loss or trailing stop, or sending an alert by email. You simply tick the box next to each action which you want to carry out and fill in the corresponding setting such as the percentage of the order to close.

Please note that the percentage of an order to close is specified in relation to its original size, not the current size following any previous partial closes. For example, if you have two stages, and each of them is configured to close 50% of the order, then the order will be completely closed when the second stage is reached. (In other words, this does **not** close 50% of the order, and then close 50% of the remainder, leaving 25% of the original order open.)

#### 4.4.3 Saving automated closes as templates

Once you have defined an automated close, you can save it as a template by clicking on the "Save template" button. A saved template can then be applied to an order in future by choosing "Automated close" from the Tools menu and selecting the template from the sub-menu.

You can organise your list of saved automated-close templates, removing any which you no longer need, by choosing "Manage templates" from the sub-menu.

### 4.5 OCA (One Cancels All) groups

The Trade Terminal lets you create a one-cancels-all group of pending orders: a group where all the remaining orders are automatically deleted when one of the orders is filled. (An OCO order is simply an OCA group where there are only two orders in the group.)

Please note: OCA groups are processed by the Trade Terminal software, not by your broker. They will cease operating if you close the Trade Terminal (or MT4).

You create an OCA group by choosing “Create OCA group” from the OCA menu. This option is only available if you have at least two pending orders. You simply choose a name for the group, so that you can recognise it in future, and tick the pending orders which you want to include in the group.

A single order can belong to multiple OCA groups, and orders in a group can be for different symbols.

You can delete an OCA group by choosing “Delete OCA group” from the OCA menu. Please note that this does not delete the pending orders; it only stops the Trade Terminal from running the OCA rule on those orders.

## 4.6 Order summaries

You can view summaries of your open positions by symbol, or direction, or duration etc, using the Summary menu on the toolbar above the order list.

This pops up a floating window containing aggregated information about the orders such as their combined profitability in cash and pips, and their total volume. The summary contains separate sets of columns for open positions and pending orders.

You can carry out actions on all the orders in a category by clicking on its  icon. This displays the tool menu [described above](#).

## 4.7 Settings and other features

### 4.7.1 Settings

You can control the settings for the Trade Terminal (and also all copies of the on-chart Mini Terminal) by choosing “Confirmations and preferences” from the Settings menu in the toolbar above the order list.

The options available may depend on your broker, but you will typically see the following settings:

- Confirm new orders. Turns on or off confirmations when you place a quick order by clicking on the green and red buy and sell buttons in a trading widget.
- Confirm close-all. Turns on or off confirmations when you close all the orders for a symbol by clicking on its [status indicator](#).

- Hedging mode. By default the Trade Terminal is usually installed in hedging mode, which is the standard behaviour for MT4 as a whole: if you place a buy order and then place a sell order for the same symbol (or vice versa), the software will create two open orders. (Please note that hedging is not permitted on US brokers; a sell order will be rejected if you already have an open buy order.) However, you can also choose to run the software in non-hedging mode. If you have an open buy order, and you place a sell order, then the sell closes the buy rather than creating a new order. For example, if you are long 0.3 lots, and you sell 0.1 lots, then you will be left with a buy order for 0.2 lots. Alternatively, if you are short 0.2 lots, and you place a buy order for 0.3 lots, then you will be left with a buy order for 0.1 lots.

#### **4.7.2 Undocking the Trade Terminal from MT4**

You can “undock” the Trade Terminal from MT4 into its own free-standing window, by choosing “Undock terminal” from the Settings menu. If your computer has multiple monitors, then you can obviously place the MT4 window on one monitor and the Trade Terminal window on another monitor.

You can continue trading, and modifying orders etc, while the Trade Terminal is undocked. When you want to re-dock the Terminal, you simply click on the option on the Settings menu again.

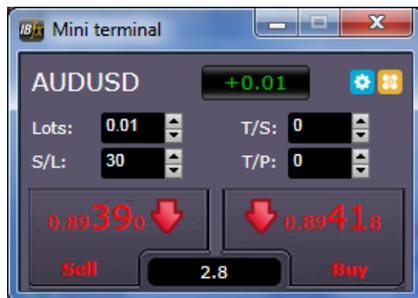
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## 1. Placing trades using the Mini Terminal

### 1.1 Placing buy/sell orders

Once the Mini Terminal is running you can place buy and sell orders using the large buy and sell buttons:



MT4 will show the usual dotted horizontal lines on the chart for each order. The status indicator at the top of the Mini Terminal will show your current net position, e.g. +0.10 if you are long 0.1 lots, or -0.10 if you are short 0.1 lots.

You can control the lot size on new orders, and set a stop-loss, take-profit, or trailing-stop using the fields above the buy and sell buttons.

You can also open **calculators** for each of these fields by holding down the **Ctrl key** while clicking on them. For example, if you are trading 0.25 lots, and you want a stop-loss which is equivalent to \$100, then you can **Ctrl+click** on the S/L field and tell the calculator to work out the number of pips which is equivalent to a fixed cash risk of \$100.

### 1.2 Placing pending orders

You can place pending orders (limits and stops) by clicking on the  button. You can choose the order type and entry price, stop-loss, take-profit etc.

The entry price for pending orders can be defined either as a fixed price (e.g. 1.23456) or as a number of pips. For example, if you choose a buy-limit and enter a value of 20 pips rather than a price, then the limit order is created 20 pips below the current price.

#### 1.2.1 Placing pending orders directly from the chart

You can also create pending orders from the chart. If you hold down the **Ctrl key** while clicking on the chart, a small window will pop up letting you create a pending order at the selected price. If the price you click on is above the current price then you can create a

buy-stop or a sell-limit; if the selected price is below the current price then you can create a buy-limit or a sell-stop. Using the MT4 cross-hairs to do this (use the  button on MT4's toolbar) will help to identify the exact price you are selecting.

### 1.2.2 OCO orders

You will find these by clicking on the  button and selecting OCO (one-cancels-other) from the drop down 'Order type' menu. There are two types of OCO order:

- "OCO breakout". You specify two prices, or two values in pips, either side of the current price, and the Mini Terminal places a buy-stop and a sell-stop. Once one of the pending orders is filled, the other is automatically cancelled. You would typically use this when you are expecting a major price movement, but you don't know whether the move is going to be up or down. For example, there are many trading strategies based around trading the breakout, in either direction, of yesterday's range.
- "OCO reversion". In this case the Mini Terminal places a buy-limit and sell-limit, rather than a buy-stop and sell-stop. You would typically use this if you are expecting a move in either direction followed by a return towards the current price – e.g. a bounce off yesterday's high or low.

### 1.3 Order templates

If there is a type of order which you place regularly – e.g. a buy-limit 20 pips below the current price, with a 100-pip s/l and t/p – then you can save this as a template for quick re-use in future:

- Click on the  button
- Enter the details of the order on the 'New order' screen
- Click on the "Save template" button and choose a name.

You can then quickly execute that saved template in future:

- Hold down the Ctrl key while clicking on the  button
- Choose the saved template from the list; your order will be automatically implemented

## 1.4 Closing orders

You can close an open position by clicking on the position marker at the top of the Mini Terminal: the text which reads +0.10, -0.50 etc. This will slide out a panel of options:



The panel shows the profitability of order for the symbol in cash terms, and also in pips. The price underneath the profit in pips is the average entry price for the position (if there is more than one open order).

You can use the options to close all open orders for the symbol, or all winning or losing trades, or to hedge or reverse the open position.

## 1.5 Modifying orders

By default, the Mini Terminal will show markers on the chart for each order. (You can turn off these markers, or change their position, using the [Settings](#).)

You can click on the markers to open a pop-up window for each order, and you can use the “handle” at the right-hand end of the marker to drag it.



### 1.5.1 Changing s/l, t/p and pending entry prices by dragging markers

You can change the s/l or the t/p of an order by dragging its marker, using the “handle” at the right-hand end of the marker. You can also drag the entry price of pending orders (but you cannot move the entry price of open positions!)

If you drag a marker to an invalid level – e.g. you drag a s/l the other side of the current market price – then you will be asked if you want to close the order. You can cancel a drag which is in progress by pressing the Esc key.

### 1.5.2 Viewing and changing order details

You can open a pop-up window for each order by clicking on its chart marker. The window shows how close the s/l and t/p are to being hit (e.g. for long orders, the distance from the current bid price to the s/l), and the cash effect on the balance if the s/l or t/p is hit.

The current profit for the order shown in the top-right of the window can be switched between cash and pips by clicking on it.



You can close the order using the red button, and you can change the s/l, t/p or trailing stop by clicking on those options.

### 1.5.3 Changing the s/l or t/p on all open orders

You can also change the s/l or t/p on all open orders by clicking on the chart. You move the mouse over the price where you want to set the s/l or t/p (it is easier using the MT4 crosshairs), and then hold down the **Ctrl key** while clicking – i.e. the same method as for [placing a pending order](#).

From the window which pops up, you then click on the s/l or t/p buttons and the s/l or t/p will automatically move to the new price selected. For example, you can **Ctrl+click** on the high or low of a bar to set the s/l or t/p to that price or use the cross hairs or mouse cursor to select a new price.

## 1.6 Other features

### 1.6.1 Settings, and non-hedging mode

You can control the settings used by the Mini Terminal by clicking on the Tools button () and choosing “Settings”. This lets you turn on confirmations before orders are opened and closed, and also lets you turn on non-hedging mode.

By default, the Mini Terminal follows normal MT4 behaviour and lets you have buy and sell orders open at the same time. If you turn on non-hedging mode, buy orders close sell orders, and vice versa. For example, if you are long 0.10 lots and place a sell order for 0.30 lots, then the buy order will be closed and a sell order will be placed for the balance of 0.20 lots.

### 1.6.2 Automated tasks

You can see a list of all the automated tasks which the Mini Terminal is running at any point in time: any trailing stops on orders, plus any [OCO orders](#). You click on the Tools button () and choose “Auto tasks”.

### 1.6.3 Undocking the Mini Terminal window

This allows you to trade from multiple monitors at the same time. You can undock the Mini Terminal into a floating window by clicking on the Tools button () and choosing “Undock terminal”. You can continue to trade while the terminal is undocked from its chart. To re-dock the terminal, click on the Tools button again and choose “Re-dock terminal”

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## 1. About the Alarm Manager

The Alarm Manager lets you do three main things:

- Get notifications about events on your account, and in the market
- Take automatic actions when events occur
- Send automatic updates to your followers via Twitter, email, or SMS

In essence, the Alarm Manager is a set of building blocks which you can use to create a completely personalised and automated trading companion. For example, you can use the Alarm Manager to do any and all of the following:

- Warn you on screen (or by email, or SMS) if your margin usage exceeds 20%
- Close all losing positions if drawdown on your account exceeds 10%
- Send a message to followers on Twitter (or email or SMS) every time you trade
- Automatically place orders or close positions at a time in the future, e.g. “at 2pm” or “in 30 minutes time”
- Warn yourself if you have open positions without a stop-loss
- Automatically place orders or close positions based on technical indicators such as RSI or moving-average crosses
- Send a message to followers on Twitter whenever there is a new 30-day high in an instrument
- Display a message congratulating yourself if you have 3 consecutive winning trades
- Remind yourself to stop trading if you have 4 consecutive losing trades, or if your balance declines by more than 3%, or if your win/loss % falls below 30%
- Show a message 10 minutes before high-impact events in the economic calendar
- Place a new order when RSI is above 70 on three different timeframes
- Place a new order if RSI goes above 70 **or** there is a MACD cross of the signal line

## 2. Overview of the Alarm Manager

### 2.1 Alarms and groups

When you first run the Alarm Manager it will display some example alarms, divided up into groups such as “Account alarms” and “News alarms”. (These alarms are for demonstration purposes only and do not have any [actions](#) attached to them.)

A group is just a label, to help you organise your alarms. You can put any type of alarm into any group.

Each alarm can have any number of actions associated with it. For example, when an alarm is triggered it can pop up a message, and/or place a trade, and/or send an email.

### 2.2 Display of alarms

The display of each alarm looks like the following example:



This shows the condition for the alarm (e.g. open loss of more than 10%); the current value (e.g. -7.5%); and whether the alarm has been [triggered](#).

The trigger on the right can have two states:

	The condition for the alarm has not been met yet (or the alarm has been reset). Any <a href="#">actions</a> for the alarm will be carried out in future when the conditions are met.
	The condition for the alarm has been met, and any actions have already been carried out. The actions will not be carried out again until the alarm is <a href="#">reset</a> .

You can edit an alarm by clicking on the text display on the left, and you can [reset](#) an alarm by clicking on the [trigger](#) on the right.

### 2.3 Triggers

An alarm is either already triggered or not yet triggered, but an alarm can have *three* states:

- [Not triggered yet](#)

- Triggered, and the condition for the alarm is [still met](#)
- Triggered, but the condition is [no longer met](#).

### 2.3.1 Alarms not yet triggered

If an alarm has not yet been triggered then it will look like the following example:



### 2.3.2 Alarm triggered, and condition still met

If an alarm has been triggered, and the condition for the alarm also still applies, then it will look the following example:



For example: the alarm is set to go off if margin usage exceeds 10%, and margin usage is *currently* above 10%. (An alarm cannot be [reset](#) if it is in this state.)

### 2.3.3 Alarm triggered, but condition no longer met

If an alarm has been triggered, but since then the condition is no longer met, then it will look like the following example:



For example: the alarm is set to go off if margin usage exceeds 10%. Margin usage in the past rose about 10%, and the alarm was triggered, but margin usage is now back below 10%.

## 2.4 Resetting alarms

Any actions for an alarm are carried out when the alarm is triggered. For example: when margin usage rises above 10%, or when there is a moving-average cross etc.

The actions are not carried out again until (a) the alarm is reset and (b) it is then triggered again.

You can reset an alarm manually by clicking on the trigger: . You can also configure alarms to [reset automatically](#) after a period of time such as 10 minutes.

You cannot manually reset an alarm if it would go off again immediately. For example, you have an alarm on margin usage above 10%, and margin usage is *currently* above

10% and the alarm has been triggered. This alarm cannot be reset at the moment because margin usage remains above 10%, and the alarm would go off again immediately.

## 2.5 Disabled groups of alarms

You can [disable groups of alarms](#) to stop them going off. A disabled group looks like the following example:



While a group is disabled, all the alarms in it continue to update, but they are not triggered when their conditions are met, and no actions are carried out.

There are two purposes for disabling groups of alarms:

- You can do this manually to prevent alarms going off without having to permanently delete the alarms
- You can use [actions](#) on alarms to disable a group. In effect, you can create a “one-cancels-all” group of alarms where the first alarm to trigger prevents all the others from triggering.

### 3. Creating and editing alarms

The different types of alarm are listed [separately below](#).

#### 3.1 Adding new alarms

You create a new alarm in a group by clicking on the “add” button next to the group’s name: 

If you want to create a new alarm in a *new* group, then you simply choose a new group name when [configuring the alarm](#): change the group name in the “Alarm settings” section.

The different types of alarm are listed [separately below](#). (This list is constantly being extended, but some types of alarms are not available on some trading platforms.)

#### 3.2 Editing existing alarms

You can edit an existing alarm by clicking on the text of its display. (Clicking on the trigger to the right of the alarm [resets the alarm](#).)

#### 3.3 Alarm parameters

Almost all types of alarm have parameters which you can change. For example: the number of consecutive losing trades before an alarm goes off; the timeframe and number of bars for a MACD calculation; the time period for a countdown etc.

These parameters are described in the [list of alarms below](#).

#### 3.4 Alarm settings

Every alarm has general settings which you can change:



- Automatic reset ([described below](#))

- The group to which the alarm belongs. You can create a new group simply by entering a new name in the field.
- The graphical style of the [trigger icon](#) when the alarm is and is not triggered. For example, you can have more important alarms displayed in red and less important alarms displayed in blue.
- You can replace the usual text for the alarm with a fixed caption. For example, if you have an alarm on 5 consecutive losses, then you can use the fixed caption so that the title of the alarm becomes “Stop trading!” instead of “5 consecutive losses”.

### 3.5 Automatic reset of alarms

As [described above](#), an alarm’s [actions](#) are carried out once when the alarm is triggered, and they are not carried out again until after the alarm has been reset. For example, if you have a message box when margin usage exceeds 10%, then the message is displayed when margin goes over 10%, but it does not *keep* being displayed if margin usage *remains* over 10%.

However, you can configure alarms so that they are reset automatically. For example, you can get a warning when margin usage goes over 10%, and you can configure the alarm to reset if margin usage falls below 10% for at least 5 minutes. You will get another message if margin usage goes above 10%; falls below 10% for at least 5 minutes; and then rises back above 10%.

There are four different types of auto-reset:

- Immediate reset
- Timed reset after trigger
- Timed reset after the signal clears, i.e. after the conditions for the alarm are no longer met
- Reset at the start of the next bar (only applicable to technical indicators and price alarms)

#### 3.5.1 Immediate auto-reset

Immediate auto-reset is only available on some types of alarm. You can only use it on an alarm which cannot go off again immediately (because otherwise you could do something like sending yourself an endless stream of emails because the alarm is resetting and then going off again immediately, over and over again).

For example: you can use immediate auto-reset on a timer countdown. If you have a timer set to 5 minutes, with immediate auto-reset, then its actions will be carried out *every* 5 minutes.

### 3.5.2 Auto-reset delay after trigger

You can configure an alarm to reset after a fixed delay from the time it is triggered, even if the conditions for the alarm are still met.

For example: you set an alarm on margin usage, and you want to be warned every 10 minutes even if margin usage simply stays above the threshold such as 25%

You configure the alarm to auto-reset 10 minutes after it is triggered. If, 10 minutes later, margin usage is above the threshold then the alarm will go off again, regardless of whether or not margin usage had fallen below the threshold during those 10 minutes.

### 3.5.3 Auto-reset delay after signal cleared

You can configure an alarm to reset after a fixed delay from the time when its conditions are no longer met.

For example: you set an alarm on margin usage, but you do **not** want repeated alerts if margin usage simply stays above the threshold such as 25%.

You configure the alarm to auto-reset 5 minutes after the signal is cleared. You will then get two separate alerts if the following happens:

- Margin usage rises above 25%
- Margin usage falls below 25% and stays there for at least 5 minutes
- Margin usage rises back above 25%

In this scenario you will **not** get repeated alerts if the following happens:

- Margin usage rises above 25%
- Margin usage briefly falls below 25% (e.g. for 30 seconds)
- Margin usage rises back above 25%

### 3.5.4 Auto-reset at start of next bar

For technical indicators only, such as RSI and MACD, you can configure alarms to auto-reset at the start of the next bar.

For example: you want to be notified about new 30-day highs, but you do not want repeated notifications during the *same* day as new highs are continually reached.

You create a [bar-breakout alarm](#) which monitors the previous 30 days, and you configure the auto-reset to be “start of next bar”. You will get one notification today if a new high is set, and you will get another notification tomorrow if today’s new high is then breached tomorrow.

## 3.6 Alarm actions

You can add any number of actions to each alarm (including none – an alarm does not need to have any actions associated with it).

You assign new actions using the “Add action” button, and you can change existing actions by clicking on their titles in the list.

The different types of actions are [described below](#), and they consist of the following main categories:

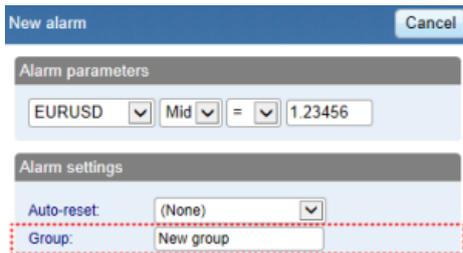
- Notifications on your own computer: sounds and pop-up messages
- Remote notifications to yourself and other people: email, SMS, and Twitter
- Actions which close existing positions
- Actions which open new orders
- Actions which disable groups of alarms
- Miscellaneous actions designed for software developers

## 4. Creating and editing alarm groups

Alarms are [divided up into groups](#). The groups are just labels, and you can give them any names you want. You can put any type of alarm into any group. (If you want to, you can put an account alarm into a group which you have called “News alarms”.)

### 4.1 Creating a new group

You create a new group simply by choosing a new group name when creating a new alarm. For example:



The screenshot shows a 'New alarm' dialog box with a 'Cancel' button. It is divided into two sections: 'Alarm parameters' and 'Alarm settings'. In the 'Alarm parameters' section, there are dropdown menus for 'EURUSD', 'Mid', and '=', followed by a text input field containing '1.23456'. In the 'Alarm settings' section, there is a dropdown menu for 'Auto-reset' set to '(None)'. The 'Group' field, which contains the text 'New group', is highlighted with a red dashed border.

In other words, you do not create a new group by itself. Instead, you do the following:

- Click on the  button to add an alarm to any *existing* group.
- In the settings for the new alarm, change the name of the group to something new.

### 4.2 Editing an alarm group

You can edit a group of alarms by clicking on the group's name.

You can use these settings to change the name, to change the order in which groups are displayed, and to [disable the group of alarms](#).

You can also assign actions to the group itself (as well as, or instead of, to the individual alarms in the group).

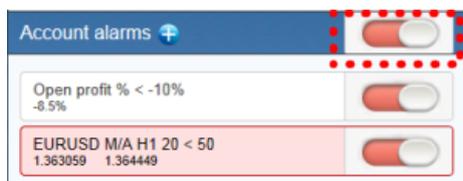
### 4.3 Group actions

You can assign actions to a group of alarms as well as to the individual alarms. For example, you can do the following:

- Create an alarm on a moving-average cross
- Create an alarm on RSI

- Create an alarm on MACD
- Use the group actions to do something only when **all** these conditions are **simultaneously** met

If you have defined actions for a group of alarms, then a trigger icon is displayed for the group as well as for the individual alarms:



You can configure a group's actions to be carried out under three different circumstances:

- [Once all the alarms in the group have been triggered](#)
- [When all the alarms in the group are signalled at the same time](#)
- [When any single alarm in the group is signalled](#)

#### 4.3.1 Group actions once all alarms have been triggered

You can configure a group's actions to be carried out once all the alarms in the group have been triggered. (This does not necessarily mean that the conditions for all the alarms are *currently* met, at the same time.)

For example, you want to discipline yourself to stop trading when things are going badly. You want a reminder when you have had three consecutive losing trades and you have also had open drawdown of more than 3%, but not necessarily at the same time. You do the following:

- Create an alarm on consecutive losses
- Create an alarm on floating P/L
- Create an action for the group which displays a message to yourself
- Set the group's actions to be triggered once all the alarms have been triggered

This will then display the message if the following events happen in **either** order:

- You go more than 3% into loss (even if you later return to profit)
- You have three losing trades

### **4.3.2 Group actions when all alarms are currently signalled**

You can configure a group's actions to be carried out when the conditions for all the alarms are met at the same time.

For example: you want to open a new position when RSI on three different timeframes is simultaneously above 70. You do the following:

- Create the three separate alarms for RSI on the different time periods
- Create an action for the group which places a new order
- Set the group's actions to be triggered if all the alarms are currently signalled

### **4.3.3 Group actions when any one alarm is signalled**

You can configure a group's actions to be carried out if any one of its alarms is signalled.

For example, you want to place a new order if RSI goes above 70 **or** if MACD crosses above its signal line. You do the following:

- Create an alarm on RSI
- Create an alarm on MACD
- Create an action on the group which places a new order
- Set the group's actions to be triggered if any one alarm is signalled

## **5. Types of alarm**

### **5.1 Price alarms**

#### **5.1.1 Price level**

The “price level” alarm is triggered simply by an instrument’s current price. You simply define whether you are interested in the price going above ( > ) or below ( < ) a threshold.

#### **5.1.2 Price change**

The “price change” alarm is triggered if an instrument’s price changes by more than a specified amount from the time when you create the alarm. You can configure it to monitor changes in either direction, or to limit it just to rises or just to falls.

#### **5.1.3 Bar breakout**

The “bar breakout” alarm is triggered if the current price exceeds the high or low of the last N bars – e.g. 30 D1 bars if you are interested in new 30-day highs and lows.

### **5.2 Account alarms**

#### **5.2.1 Account value**

The “account value” alarm can be used to monitor any headline account metric such as balance, equity, floating P/L, margin in use etc. For example, you can use it to create the following alarms:

- Margin usage > 10%
- Open profit < -10% (i.e. open drawdown of more than 10%)
- Floating P/L < -2000 (i.e. open loss of more than \$2000)

#### **5.2.2 Balance change**

The “balance change” alarm is triggered whenever there is any change in the account balance – i.e. a closed trade. You can use it to detect any changes, or you can restrict it so that it only looks at rises (i.e. winning trades) or falls (i.e. losing trades).

### 5.2.3 Consecutive wins

The “consecutive wins” alarm is triggered by an unbroken sequence of winning trades, e.g. closure of 3 profitable positions without closure of losing positions in the middle of the sequence. On some trading platforms, you can choose between two different ways of doing the count:

- Individual trades. Each open position is counted separately. For example, if you have a basket of three different EUR/USD positions, and you close them at a profit at the same time, then this will count as 3 different (and consecutive) winners.
- Balance changes. The app looks at changes in the balance rather than individual positions. If you have a basket of trades which is closed simultaneously, then these will count as one winning trade, not multiple (consecutive) winning trades

### 5.2.4 Consecutive losses

Same as “[consecutive wins](#)”, except that it looks for a sequence of losing trades rather than winning trades.

### 5.2.5 Win/loss %

The “win/loss %” alarm calculates the win/loss percentage on closed trades, starting from trades which are closed after the alarm is created. You choose a minimum number of trades before the alarm can become active (so that one single winner is not immediately treated as a win rate of 100%).s

## 5.3 Trade activity alarms

### 5.3.1 New position open

The “new position open” alarm is triggered whenever a new position is opened. You can optionally restrict it to look at one particular symbol (e.g. only EUR/USD).

### 5.3.2 New position close

The “new position close” alarm is triggered whenever a position is closed. You can optionally restrict it to look at one particular symbol (e.g. only EUR/USD).

### 5.3.3 Position floating P/L

The “position floating P/L” alarm is triggered by the open profit/loss of individual positions. You can use it to trigger actions when an individual position has reached a particular level of cash profit (e.g. > 500) or loss (e.g. < -250).

### 5.3.4 Position without stop-loss

The “position without stop-loss” alarm is triggered by one or more open positions which do not have a stop-loss. You can use it to warn yourself about unprotected positions in the market.

Some platforms require a stop-loss to be created separately after opening a new position. Therefore, the alarm has a parameter which lets you control how quickly it goes off after detecting a new position.

## 5.4 Time alarms

### 5.4.1 Timer countdown

The “timer countdown” is a simple alarm which goes off after a specified timeout, e.g. 5 minutes. (You can create an alarm which goes off *every* 5 minutes by using a countdown with [immediate auto-reset](#).)

### 5.4.2 Time of day

The “time of day” alarm goes off at a specific time according to your local clock.

The time of day is interpreted based on the current time when you create the alarm. For example, if you create an alarm for 3am when it is currently 2pm, then the alarm will be treated as 3am tomorrow (and not 3am today, causing the alarm to go off immediately).

## 5.5 News alarms

### 5.5.1 Economic calendar

The “economic calendar” alarm is triggered by pending events in the economic calendar (e.g. NFP). You can use it to warn yourself in advance of major announcements which may affect your trading activity.

You can use the alarms parameters to choose between different providers of calendar data, what impact of events to alert about, and how long before each event to trigger the alarm.

### **5.5.2 Sentiment**

The “sentiment” alarm is triggered by current market sentiment in terms of the number of traders who are currently long/short in a symbol. For example, you can use the alarm to alert yourself when fewer than 20% of traders are long USD/JPY.

You can choose between different providers of sentiment data. The symbols for which sentiment is available will depend on the data provider; usable sentiment data is only available for heavily traded instruments.

## **5.6 Technical indicators**

Many of the technical-indicator alarms have two standard parameters: price-type and bar-shift.

Price-type determines the type of price to use in the indicator calculation: each bar’s close; or its median price (average of high and low); or the average of high, low and close.

Bar-shift determines whether the calculation looks at the current in-progress bar, or whether the calculation is shifted back to ignore one or more bars. For example, in order to ignore moving-average crosses during the current bar, which may cross back again before the bar ends, set the shift value to 1.

### **5.6.1 Moving average cross-over**

The “moving average cross-over” alarm is triggered by one simple moving average crossing another. You can choose the number of bars for each moving average (e.g. 20 and 50), the bar timeframe (e.g. H1), whether you want long crosses (>) or short crosses (<), and the price to use.

### **5.6.2 Bollinger band**

The “Bollinger band” alarm is triggered by the price moving outside Bollinger bands.

### 5.6.3 Swing point

The “swing point” alarm is triggered by the formation of new swing points. The rule for swing points uses the “fractal” definition from MT4/5 and elsewhere: a group of 5 (or 3 or 7) bars where the middle bar is the highest or lowest.

The “swing point” alarm only looks at completed bars. It does not inspect the current bar, and therefore it does not get triggered by swing points which can be cancelled later in the bar by setting a new high or low.

### 5.6.4 Stochastic

The “stochastic” alarm is triggered by values of the stochastic oscillator indicator. You define the parameters for the calculation in the usual way (i.e. %K, %D, and slowing), and you can then choose different types of alarm: either %K crossing %D, or %K or %D crossing an absolute level such as 65.

### 5.6.5 MACD

The “MACD” alarm is triggered by values of the MACD indicator. You define the parameters for the calculation in the usual way (i.e. the periods for the two moving averages, and the signal period), and you can then choose different types of alarm: either MACD crossing its signal line, or MACD or the signal crossing absolute values such as - 0.0020.

### 5.6.6 Relative Strength Index

The “Relative Strength Index” alarm is triggered by values of the RSI indicator. You define the parameters for the calculation, and set a threshold such as “above 70” (> 70) or “below 20” (< 20).

### 5.6.7 Average true range

The “average true range” alarm is triggered by values of the ATR indicator (Wilder definition). You define the parameters for the calculation and set a threshold such as 0.01.

## 6. Types of action

All text parameters for actions – e.g. messages, URLs – can use [variables described below](#). For example, the default text for a pop-up alert window uses the variables {DATE} and {TIME} which are replaced by the current date and time.

### 6.1 Notifications

#### 6.1.1 Play sound

Plays one of the sounds on the list – please make sure that your computer’s speakers are turned on!

#### 6.1.2 Show pop-up alert

Displays a pop-up alert window. The default text for the alert uses [variables](#) to show the current date and time, the alarm’s caption, and the alarm’s current value (e.g. margin usage, or a price)

### 6.2 Email and Twitter

#### 6.2.1 Send email

Sends email to a **single** email recipient. You can send to a group of addresses by creating a mailing list in a service such as Google Groups. The email is sent to you from the app’s own email address. You can then automatically forward this to other people, from your own email address, by setting up rules in your email software (e.g. Outlook) or web service (e.g. Gmail).

#### 6.2.2 Send tweet

Sends a status update to a Twitter account. You need to authorise the app to use your Twitter account by clicking on the button and logging in to Twitter. (The app does **not** then know your Twitter password.)

#### 6.2.3 Send SMS

Sends an SMS message. You need to choose an SMS provider and register with them. The list of available providers may depend on your broker and/or trading platform. When you register with any of the SMS providers, they will give you a set of credentials (e.g. an

“API key” and “API secret”) which you need to enter as parameters for the SMS action in the app.

## **6.3 Close positions**

### **6.3.1 Close everything**

Closes all trading activity on the account: all open positions **and** all pending orders.

### **6.3.2 Close profitable positions**

Closes all open positions which are currently in profit.

### **6.3.3 Close losing positions**

Closes all open positions which are currently in loss.

### **6.3.4 Close symbol**

Closes all open positions and pending orders for a specific symbol, e.g. EUR/USD

## **6.4 New-order actions**

### **6.4.1 Place market order**

Places a new market (buy or sell) order. The volume is entered either as a number of lots (e.g. 0.10) or as a cash amount (e.g. 10,000) depending on your trading platform.

If you turn on the “non-hedging mode” option then the order is offset against any existing position in the opposite direction. For example: if you buy 0.3 lots and you are currently short 0.1 lots, then the open sell position will be closed and a new buy order will be placed for 0.2 lots.

Please note that the ability to set a stop-loss or take-profit on the new order is not available, and is disabled, on some trading platforms.

### **6.4.2 Place pending order**

Places a new pending (stop or limit) order. The volume is entered either as a number of lots (e.g. 0.10) or as a cash amount (e.g. 10,000) depending on your trading platform.

The entry price for order can either be a fixed price, or it can be a number of pips from the current price. For example: a sell-stop 20 pips from the current price means 20 pips above the current bid price.

Please note that the ability to set a stop-loss or take-profit on the new order is not available, and is disabled, on some trading platforms.

## **6.5 Miscellaneous actions**

### **6.5.1 Open web page**

Opens the specified URL in your web browser when the alarm is triggered.

### **6.5.2 Send web request**

Intended for use by software developers. Does an HTTP GET request to the specified URL. This can be used by developers as a way of running a bespoke action on their web server when an alarm is triggered.

## **6.6 Alarm Manager actions**

### **6.6.1 Disable the alarm's group**

[Disables the group](#) to which the alarm belongs. This can be used to create a “one-cancels-all” groups of alarms where the first alarm to be triggered prevents any other alarms in the same group from being triggered.

### **6.6.2 Disable all groups of alarms**

Disables all groups of alarms; i.e. prevents any further actions being triggered in the Alarm Manager until the groups are manually re-enabled.

## 7. Text variables

All the text parameters used in [actions](#) can contain variables which are replaced before the text is used.

For example, you can set the text of a [pop-up alert](#), or an [email](#), or a [tweet](#) to **Your account equity is {ACCEQUITY}** and this will be converted to something such as **Your account equity is 15224.97** before sending/displaying.

### 7.1 Standard variables

The following variables can be used with any type of alarm:

Variable	Description/replacement
{CAPTION}	Caption which describes the alarm, such as "Margin use % > 10"
{LATEST}	Current value of the alarm, such as the current margin usage, or the current price
{ALARMSYMBOL}	The trading symbol which the alarm is monitoring. Only applicable to alarms such as <a href="#">technical indicators</a> and <a href="#">price alarms</a> .
{DATE}	Current date
{TIME}	Current time
{ACCBALANCE}	Account balance
{ACCEQUITY}	Account equity
{ACCFLOATINGPL}	Floating profit/loss on the account (i.e. loss as a negative number)
{ACCMARGINUSED}	Margin in use (cash)
{ACCMARGINFREE}	Margin free (cash)
{ACCMARGINUSE%}	Margin in use (percentage)
{ACCMARGINFREE%}	Margin free (percentage)
{ACCFLOATING%}	Open profit/loss as a percentage of balance
{OPENPOSITIONCOUNT}	Number of open positions on the account
{PENDINGORDERCOUNT}	Number of pending orders on the account

### 7.2 Variables which are specific to types of alarm

Some types of alarm understand extra variables in addition to the standard ones.

Alarms on position activity ([new positions](#), [closed positions](#), [position P/L](#), [missing stop-loss](#)) understand the following variables which are specific to the position which triggers the alarm:

Variable	Description/replacement
{POSSYMBOL}	Trading symbol of the position, e.g. EUR/USD
{POSTICKET}	Trading platform's ticket number for the position
{POSOPENPRICE}	Open price of the position
{POSCLOSEPRICE}	Closing price of the position (or current price for open positions)
{POSSL}	Stop-loss price on the position, or zero
{POSTP}	Take-profit price on the position, or zero
{POSACTION}	Type of position: buy or sell
{POSVOLUME}	Trading volume – always in cash terms (e.g. 10000) rather than lots (e.g. 0.10)
{POSLOTS}	Trading volume in lots

Other miscellaneous variables which can be used with some alarms are as follows:

Variable	Description/replacement
{BALANCECHANGE}	For the <a href="#">balance change alarm</a> , the cash size of the balance change which triggers the alarm

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## 1. About the Excel RTD app

The Excel RTD app lets you do two things:

- [Put real-time data into Excel](#) using only Excel's RTD() function. No macros; no programming; no XLL add-ins
- [Send simple trading commands](#) from VBA code in Excel

You can run multiple copies of the Excel RTD app for different accounts, and then combine the data for those accounts in a single spreadsheet.

The app is supplied with an example spreadsheet which lets you enter up to 5 account numbers, and then automatically displays a dashboard of equity and balance etc; symbol prices; and a consolidated list of open positions.

## 2 Displaying real-time data in Excel

### 2.1 Running the RTD app

In order to put real-time data into Excel you need to run the RTD app. The Excel formulas listed below will give blank values if the app is not running.

#### 2.1.1 Available symbols

Information about the following symbols will be available in the Excel RTD app:

- **MT4/5:** the app will report all the symbols which are included in the MT4/5 market watch
- **Tradable:** the app will report all available symbols in the platform
- **All other platforms:** you configure which symbols the app reports using the app's Symbols menu.

### 2.2 Excel formula

Once the RTD app is running, you can use the following formula in Excel to insert a real-time feed of account, ticket, or price data. You simply need to fill in the account number, and the "[property](#)" which you want to display:

```
=RTD("FXBlueLabs.ExcelRTD", , "account number", "property")
```

For example, if your account number is 156734 and you want to display the account's balance, or the bid price of GBPUSD:

```
=RTD("FXBlueLabs.ExcelRTD", , "156734", "balance")  
=RTD("FXBlueLabs.ExcelRTD", , "156734", "bidGBPUSD")
```

**Please note:** with some language settings – for example, Polish – Excel may want the sections of the formula to be separate by semi-colons instead of commas. For example:

```
=RTD("FXBlueLabs.ExcelRTD"; ; "account number"; "property")
```

### 2.3 Property names

The RTD app supplies data about the [account](#) (e.g. equity and balance), symbol [prices](#), "[tickets](#)", [bar history](#), and [technical indicator](#) values. The list of tickets includes both open positions and pending orders.

### 2.3.1 Account data properties

Property	Meaning
currency	The deposit currency of the account
balance	Account balance
equity	Account equity
pl	Floating profit/loss
usedmargin	Margin in use
freemargin	Free margin
tickets	Number of " <a href="#">tickets</a> ": open positions and pending orders

### 2.3.2 Price and symbol data properties

The app supplies the current ask and bid prices for all [symbols configured in the app](#). For example, if the symbol name you are interested in is EURUSD, then the property name for its ask price is askEURUSD. For example:

```
=RTD("FXBlueLabs.ExcelRTD",, "156734", "askEURUSD")
```

Property	Meaning
<i>bidSymbol</i>	Bid price of symbol
<i>askSymbol</i>	Ask price of symbol
<i>highSymbol</i>	Daily high of the symbol. Not available on all platforms. The definition of the day's start (e.g. GMT, or some other time zone) depends on the broker/platform.
<i>lowSymbol</i>	Daily low of the symbol. Not available on all platforms. The definition of the day's start (e.g. GMT, or some other time zone) depends on the broker/platform.

The app also provides a count and a list of all configured symbols. For example, the following formulas return the number of available symbols and the name of the 5<sup>th</sup> symbol on the list (which can be in any order):

```
=RTD("FXBlueLabs.ExcelRTD",, "156734", "symbols")
```

```
=RTD("FXBlueLabs.ExcelRTD",, "156734", "s5")
```

Property	Meaning
symbols	Number of symbols

sN	Name of the nth symbol, e.g. EURUSD. The N value is an index between 1 and the total number of symbols
----	--

### 2.3.3 Ticket data properties

The app supplies the following information about each "ticket", i.e. each open position and pending order. The N value in each property name is an index between 1 and the total number of tickets (reported by the [tickets property](#)).

For example, you can get the symbol name and net profit of the 2<sup>nd</sup> ticket (if there is one) using the following formulas:

```
=RTD("FXBlueLabs.ExcelRTD", , "156734", "t2s")
=RTD("FXBlueLabs.ExcelRTD", , "156734", "t2npl")
```

Property	Meaning
tNt	Ticket number, i.e. the ID of the open position or pending order
tNa	Action: BUY, SELL, BUYLIMIT, SELLLIMIT, BUYSTOP, SELLSTOP
tNs	<a href="#">Symbol name</a>
tNv	<a href="#">Volume</a>
tNnpl	Net profit (gross profit + commission + swap). Not applicable on pending orders, and reported as zero.
tNpl	Gross profit. Not applicable on pending orders, and reported as zero.
tNswap	Swap. Not applicable on pending orders, and reported as zero.
tNcomm	Commission. Not applicable on pending orders, and reported as zero.
tNsl	Stop-loss price
tNtp	Take-profit price
tNop	Open/entry price
tNcp	Current price of symbol
tNcm	Order comment
tNmg	Order magic number (MetaTrader 4 only)
tNot	Open time (as number of seconds since 1/1/1970)

### 2.3.4 Bar history

You can use the Excel RTD app to request recent price history from the platform. All values are bid prices. (Please note that this price history is not available on the tradable platform.)

The property name for bar history is as follows: @bh,[\*symbol\*](#),[\*timeframe\*](#),[\*data\*](#),[\*shift\*](#). For example, the following formula shows the high of the current EUR/USD H1 bar:

```
=RTD("FXBlueLabs.ExcelRTD",,"156734", "@bh,EURUSD,H1,high,0")
```

#### 2.3.4.1 Timeframe value

The bar timeframe can either be specified as a number of minutes – e.g. 60 for hourly bars – or you can use standard notations such as H1 or M3. The available timeframes are as follows:

Period	Timeframe value
M1	1
M2	2
M3	3
M4	4
M5	5
M6	6
M10	10
M12	12
M15	15
M30	30
H1	60
H2	120
H3	180
H4	240
H6	360
H8	480
D1	1440
D2	2880
W1	7200

#### 2.3.4.2 Price data

You can request the following information about each bar:

Data	Meaning
time	Start time of the bar (in the format yyyy/mm/dd hh:mm:ss)
open	Open price
high	High price
low	Low price
close	Close price
range	Range from high to low
median	Average of high and low
typical	"Typical" price: average of high, low, and close
weighted	"Weighted" price: average of high, low, close, and close – i.e. double-weighting on the close value
change	Change in bar: close minus open, therefore negative for down bars and positive for up bars.
abschange	Absolute change value, i.e. change converted to a positive number if negative

### 2.3.4.3 Bar shift

The final part of the price history formula is the bar "shift", i.e. which bar to get information about. Bars are numbered with the newest at zero, and increasing in order of age. In other words, bar 0 is the current in-progress bar; bar 1 is the last complete bar etc.

Therefore, the close price on bar 0 (for any timeframe) is the current bid price. In effect, the following two formulas are identical:

```
=RTD("FXBlueLabs.ExcelRTD", , "156734", "bidGBPUSD")
=RTD("FXBlueLabs.ExcelRTD", , "156734", "@bh,GBPUSD,60,close,0")
```

The amount of data available on each timeframe depends on the underlying platform, but will typically be around 250 bars.

### 2.3.5 Technical indicators

The Excel RTD app has some built-in indicator calculations which you can request using formulas. For example, the following formula will show 14-bar Relative Strength Index for GBP/USD M5:

```
=RTD("FXBlueLabs.ExcelRTD", , "156734", "@rsi,GBPUSD,M5,14,0")
```

Please note that the technical indicators are not available on the tradable platform.

The property name for a technical indicator starts with an indicator name such as @rsi or @ema, and is then followed by a list of parameters separated by commas.

The first two parameters for an indicator are always the [symbol](#) name and the [timeframe](#), which can be specified either as H2 or as the equivalent number of minutes such as 120.

The last parameter is always the [bar "shift"](#). You will normally want to use a value of 0 for the shift, in order to get the current indicator value, but you can also use a shift of e.g. 1 to get the value of the indicator at the end of the previous bar. (The only exception are the [swing-point indicators](#), which always return the latest swing point and do not use a shift parameter.)

Many indicators can be applied to different [data values](#) from each bar, e.g. the high price or even the bar range instead of the close price.

Please bear in mind that exponential moving averages and similar calculations are affected by the amount of available bars. For convenience, everyone always refers to the N value in such calculations as "N bars" (e.g. "21-bar EMA"), but this is not what it truly means. The N is a weighting factor, and a calculation such as an EMA always looks at the entire bar history which it has collected, but giving increased weight to the most recent N bars. Two calculations of an EMA can be different – though only usually by small amounts – if they are using different amounts of bar history.

### 2.3.5.1 @sma – Simple Moving Average

You can calculate a simple moving average (i.e. arithmetic mean) using the @sma indicator. For example, the following formula does an average of the [median](#) prices for the last 10 bars on GBP/USD M5:

```
=RTD("FXBlueLabs.ExcelRTD", , "156734", "@sma,GBPUSD,M5,median,10,0")
```

The indicator's parameters are as follows:

Parameter	Meaning
symbol	<a href="#">Symbol</a> name, e.g. GBPUSD
timeframe	Bar <a href="#">timeframe</a> , as a number of minutes or a notation such as H1 or M3

data	<a href="#">Data</a> to use from each bar, e.g. close or high
period	Number of bars to calculate the average over
shift	Bar <a href="#">shift</a> , e.g. zero in order to get the current value of the indicator

### 2.3.5.2 @ema – Exponential Moving Average

You can calculate an exponential moving average using the @ema indicator. For example, the following formula does an average of the [ranges](#) of the last 21 bars on GBP/USD D1:

```
=RTD("FXBlueLabs.ExcelRTD", , "156734", "@ema,GBPUSD,1440,range,21,0")
```

The indicator's parameters are as follows:

Parameter	Meaning
symbol	<a href="#">Symbol</a> name, e.g. GBPUSD
timeframe	Bar <a href="#">timeframe</a> , as a number of minutes or a notation such as H1 or M3
data	<a href="#">Data</a> to use from each bar, e.g. close or high
period	Number of bars to calculate the average over
shift	Bar <a href="#">shift</a> , e.g. zero in order to get the current value of the indicator

### 2.3.5.3 @smma – Smoothed Moving Average

You can calculate a smoothed moving average using the @smma indicator. (A smoothed average with period N is the same as an exponential moving average with period 2N-1).

For example, the following formula does an average of the [close prices](#) of the last 21 bars on GBP/USD H1:

```
=RTD("FXBlueLabs.ExcelRTD", , "156734", "@smma,GBPUSD,H1,close,21,0")
```

The indicator's parameters are as follows:

Parameter	Meaning
symbol	<a href="#">Symbol</a> name, e.g. GBPUSD
timeframe	Bar <a href="#">timeframe</a> , as a number of minutes or a notation such as H1 or M3
data	<a href="#">Data</a> to use from each bar, e.g. close or high
period	Number of bars to calculate the average over

shift	Bar <a href="#">shift</a> , e.g. zero in order to get the current value of the indicator
-------	--

### 2.3.5.4 @lwma – Linear-Weighted Moving Average

You can calculate a linear-weighted moving average using the @lwma indicator. For example, the following formula does an average of the [ranges](#) of the last 21 bars on GBP/USD D1:

```
=RTD("FXBlueLabs.ExcelRTD", , "156734", "@lwma,GBPUSD,1440,range,21,0")
```

The indicator's parameters are as follows:

Parameter	Meaning
symbol	<a href="#">Symbol</a> name, e.g. GBPUSD
timeframe	Bar <a href="#">timeframe</a> , as a number of minutes or a notation such as H1 or M3
data	<a href="#">Data</a> to use from each bar, e.g. close or high
period	Number of bars to calculate the average over
shift	Bar <a href="#">shift</a> , e.g. zero in order to get the current value of the indicator

### 2.3.5.5 @macd and @macdsig – MACD

You can calculate MACD (the difference between a "fast" EMA and a "slow" EMA) using the @macd indicator. You can also use @macdsig to get the smoothed "signal" value of the MACD indicator.

For example, the following formula calculates MACD for GBP/USD M30, using the standard 12-bar fast EMA and a 26-bar slow EMA, and applying the calculation to the high price of each bar:

```
=RTD("FXBlueLabs.ExcelRTD", , "156734", "@macd,GBPUSD,30,high,12,26,9,0")
```

The indicator's parameters are as follows:

Parameter	Meaning
symbol	<a href="#">Symbol</a> name, e.g. GBPUSD
timeframe	Bar <a href="#">timeframe</a> , as a number of minutes or a notation such as H1 or M3
data	<a href="#">Data</a> to use from each bar, e.g. close or high
fast	Number of bars for the fast EMA

slow	Number of bars for the slow EMA
slowing	Smoothing period for the signal value
shift	Bar <a href="#">shift</a> , e.g. zero in order to get the current value of the indicator

### 2.3.5.6 @atr – Average True Range

You can calculate average true range using the @atr indicator. For example, the following formula calculates the average true range of the last 21 bars on GBP/USD D1:

```
=RTD("FXBlueLabs.ExcelRTD", , "156734", "@atr,GBPUSD,D1,21,0")
```

The indicator's parameters are as follows:

Parameter	Meaning
symbol	<a href="#">Symbol</a> name, e.g. GBPUSD
timeframe	Bar <a href="#">timeframe</a> , as a number of minutes or a notation such as H1 or M3
period	Number of bars to calculate the average over
shift	Bar <a href="#">shift</a> , e.g. zero in order to get the current value of the indicator

### 2.3.5.7 @rsi – Relative Strength Index

You can calculate Relative Strength Index using the @rsi indicator. For example, the following formula calculates 14-bar RSI on USD/JPY M3:

```
=RTD("FXBlueLabs.ExcelRTD", , "156734", "@atr,USDJPY,3,14,0")
```

The indicator's parameters are as follows:

Parameter	Meaning
symbol	<a href="#">Symbol</a> name, e.g. GBPUSD
timeframe	Bar <a href="#">timeframe</a> , as a number of minutes or a notation such as H1 or M3
period	Number of bars to calculate the indicator over
shift	Bar <a href="#">shift</a> , e.g. zero in order to get the current value of the indicator

### 2.3.5.8 @stoch and @stochslow – Stochastic Oscillator

You can calculate the stochastic oscillator using the @stoch indicator. You can also calculate the slowed "signal" value for the indicator using @stochslow.

For example, the following formula calculates the oscillator on GBP/USD H2 bars, using standard parameters of (5,3,3) – i.e. K period of 5, D period of 5, slowing value of 3.

```
=RTD("FXBlueLabs.ExcelRTD", , "156734", "@stoch,GBPUSD,120,5,3,3,0")
```

The indicator's parameters are as follows:

Parameter	Meaning
symbol	<a href="#">Symbol</a> name, e.g. GBPUSD
timeframe	Bar <a href="#">timeframe</a> , as a number of minutes or a notation such as H1 or M3
k	K period for the calculation
d	D period for the calculation
slowing	Slowing period (moving average of D values)
shift	Bar <a href="#">shift</a> , e.g. zero in order to get the current value of the indicator

### 2.3.5.9 @bbupper and @bblower – Bollinger bands

You can calculate "Bollinger" bands – a simple moving average plus/minus a number of standard deviations – using the @bbupper and @bblower indicators.

For example, the following formula calculates the upper band on GBP/USD M10, using an average of the close prices on the last 30 bars, and 2 standard deviations:

```
=RTD("FXBlueLabs.ExcelRTD", , "156734", "@bbupper,GBPUSD,10,close,30,2,0")
```

The indicator's parameters are as follows:

Parameter	Meaning
symbol	<a href="#">Symbol</a> name, e.g. GBPUSD
timeframe	Bar <a href="#">timeframe</a> , as a number of minutes or a notation such as H1 or M3
data	<a href="#">Data</a> to use from each bar, e.g. close or high
period	Number of bars to calculate the indicator over
deviations	Number of standard deviations to calculate (e.g. 2)
shift	Bar <a href="#">shift</a> , e.g. zero in order to get the current value of the indicator

### 2.3.5.10 @vol – Volatility (standard deviation)

You can calculate volatility – i.e. 1 standard deviation – using the @vol indicator.

For example, the following formula calculates the volatility of the last 21 [bar-ranges](#) on GBP/USD M10:

```
=RTD("FXBlueLabs.ExcelRTD", , "156734", "@vol,GBPUSD,10,range,21,0")
```

The indicator's parameters are as follows:

Parameter	Meaning
symbol	<a href="#">Symbol</a> name, e.g. GBPUSD
timeframe	Bar <a href="#">timeframe</a> , as a number of minutes or a notation such as H1 or M3
data	<a href="#">Data</a> to use from each bar, e.g. close or high
period	Number of bars to calculate the indicator over
shift	Bar <a href="#">shift</a> , e.g. zero in order to get the current value of the indicator

### 2.3.5.11 @cci – Commodity Channel Index

You can calculate the Commodity Channel Index using the @cci indicator.

For example, the following formula calculates CCI using the [typical](#) bar price for the last 14 bars on EUR/USD H1:

```
=RTD("FXBlueLabs.ExcelRTD", , "156734", "@cci,EURUSD,60,typical,14,0")
```

The indicator's parameters are as follows:

Parameter	Meaning
symbol	<a href="#">Symbol</a> name, e.g. GBPUSD
timeframe	Bar <a href="#">timeframe</a> , as a number of minutes or a notation such as H1 or M3
data	<a href="#">Data</a> to use from each bar. CCI is usually calculated on the "typical" bar price
period	Number of bars to calculate the indicator over
shift	Bar <a href="#">shift</a> , e.g. zero in order to get the current value of the indicator

### 2.3.5.12 @high – Highest bar value

You can calculate the highest of a series of bar values using the @high indicator. For example, the following formula calculates the highest high during the last 20 GBP/USD D1 bars:

```
=RTD("FXBlueLabs.ExcelRTD", , "156734", "@high,GBPUSD,D1,high,20,0")
```

The indicator can be applied to any bar [data](#). For example, you can find the highest low as well as the highest high. You can also use it to find the bar with the largest range or change.

The indicator's parameters are as follows:

Parameter	Meaning
symbol	<a href="#">Symbol</a> name, e.g. GBPUSD
timeframe	Bar <a href="#">timeframe</a> , as a number of minutes or a notation such as H1 or M3
data	<a href="#">Data</a> to use from each bar, e.g. close or high
period	Number of bars to calculate the indicator over
shift	Bar <a href="#">shift</a> , e.g. zero in order to get the current value of the indicator

### 2.3.5.13 @low – Lowest bar value

You can calculate the lowest of a series of bar values using the @low indicator. The indicator can be applied to any bar [data](#). For example, you can find the lowest high as well as the lowest low. You can also use it to find the bar with the smallest range or change.

The following formula calculates the smallest D1 bar range during the last 20 GBP/USD D1 bars:

```
=RTD("FXBlueLabs.ExcelRTD", , "156734", "@low,GBPUSD,D1,range,20,0")
```

The indicator's parameters are as follows:

Parameter	Meaning
symbol	<a href="#">Symbol</a> name, e.g. GBPUSD
timeframe	Bar <a href="#">timeframe</a> , as a number of minutes or a notation such as H1 or M3
data	<a href="#">Data</a> to use from each bar, e.g. close or high
period	Number of bars to calculate the indicator over
shift	Bar <a href="#">shift</a> , e.g. zero in order to get the current value of the indicator

### 2.3.5.14 @swingh and @swingl – Swing points ("fractals")

You can calculate the most recent swing points using the @swingh and @swingl indicators. A swing point is defined as a bar with lower highs either side of it (or higher lows, for @swingl). These swing points are similar to the MT4 "Fractals" indicator.

For example, the following formulas find the most recent swing-high and swing-low prices on GBP/USD M5, using a 5-bar swing (2 bars either side of swing point) and not allowing an "unconfirmed" swing involving the current bar:

```
=RTD("FXBlueLabs.ExcelRTD", , "156734", "@swingh,GBPUSD,M5,high,2,0")
=RTD("FXBlueLabs.ExcelRTD", , "156734", "@swingl,GBPUSD,M5,low,2,0")
```

The indicator's parameters are as follows. Please note that the @swingh and @swingl do not have a bar "shift" parameter; they only return the most recent swing price.

Parameter	Meaning
symbol	<a href="#">Symbol</a> name, e.g. GBPUSD
timeframe	Bar <a href="#">timeframe</a> , as a number of minutes or a notation such as H1 or M3
data	<a href="#">Data</a> to use from each bar. You normally use "high" with @swingh, and "low" with @swingl. However, you can use any value; for example, you can use "high" with @swingl to find a bar which has a lower high than the bars around it.
swingbars	Number of higher/lower bars required either side of the swing bar. The usual value is 2, for a five-bar swing consisting of two lower highs/higher lows either side of the swing bar, but you can use any value from 1 (i.e. three-bar swing) upwards.
unconfirmed	Either 0 or 1. Zero ignores the current bar and only allows "confirmed" swings. 1 includes the current bar, and allows "unconfirmed" swings which can change depending on price movements during the current bar.

### 2.3.5.15 @keltupper and @keltlower – Keltner channels

You can calculate Keltner channels using the @keltnerupper and @keltnerlower indicators. A Keltner channel is an [exponential moving average](#) plus/minus [average true range](#).

For example, the following formula calculates the lower Keltner channel on GBP/USD H1, using a 20-bar EMA minus half of 10-bar ATR:

```
=RTD("FXBlueLabs.ExcelRTD",, "156734", "@keltlower,GBPUSD,60,close,20,10,0.5,0")
```

Because Keltner channels are simply a combination of an EMA and ATR, the formula above is equivalent to the following:

```
=RTD("FXBlueLabs.ExcelRTD",, "156734", "@ema,GBPUSD,60,close,20,0") –  
(RTD("FXBlueLabs.ExcelRTD",, "156734", "@atr,GBPUSD,60,10,0") * 0.5)
```

The indicator's parameters are as follows:

Parameter	Meaning
symbol	<a href="#">Symbol</a> name, e.g. GBPUSD
timeframe	Bar <a href="#">timeframe</a> , as a number of minutes or a notation such as H1 or M3
data	<a href="#">Data</a> to use from each bar, e.g. close or high, for calculating the EMA
emaPeriod	Number of bars to use for the EMA
atrPeriod	Number of bars to use for the ATR
atrMultiple	Multiples of ATR to add to/subtract from the EMA
shift	Bar <a href="#">shift</a> , e.g. zero in order to get the current value of the indicator

### 2.3.6 Other properties

Other miscellaneous data items provided by the Excel RTD app are as follows:

Property	Meaning
LastUpdateTime	Time of the last update from the RTD app. Will report 1/1/2000 if the RTD app is not running for the account.

## 2.4 Symbol names and standardisation

By default the RTD app uses standardised symbol names. These may be different to the symbol names which your broker uses in your trading platform. For example, your broker's symbol names may have a suffix such as cx or mn, e.g. EURUSDcx or EURUSDmn.

By default, all forex symbols are converted to the form AAABBB. For example, a name such as EURUSDnm or EUR/USD will be converted by default to EURUSD. You can turn

off this standardisation by un-ticking the option "Use standardised symbol names" in the app.

This setting is intended for spreadsheets where you are collecting data from multiple accounts on different brokers/platforms (by running multiple copies of the RTD app), and the brokers/platforms use different symbol names.

For example, you might have something like the following spreadsheet where there are account numbers in columns B onwards, and symbol names in rows 2 onwards. You can then have a formula which uses the symbol names in column A without having to adjust for one account using EUR/USD and the other using EURUSDfx etc.

	A	B	C
1	Symbol/Account	12376522	265823654
2	EURUSD	[ see below ]	
3	GBPUSD		

In cell B2: =RTD("FXBlueLabs.ExcelRTD", , B\$1, CONCATENATE("bid", \$A2))

You could then fill the formula from cell B2 into B3, C2 etc and the cell references would automatically adjust.

(The CONCATENATE function in Excel simply joins two pieces of together. In the above example it is joining the text "bid" with the symbol name in column A, to produce the [property name](#) bidEURUSD or bidGBPUSD.)

## 2.5 Ticket volumes

The RTD app reports the volumes on [tickets](#) as the nominal volume, not as a lot size. For example, a size of 0.20 lots will be reported as a volume of 20000.

(Unless you are using something like an MT4 mini account with a lot size of 10K instead of 100K, in which case 0.20 lots would be 2000 instead of 20000.)

### 3. Sending trading commands from Excel

The RTD app can also be used to send simple trading commands from VBA code in Excel. You can also programmatically read the same data which is available via the RTD function.

The following features can in fact be used from any programming language which supports COM, not just from VBA in Excel.

#### 3.1 Reading data in VBA code

You can read data programmatically using the FXBlueLabs.ExcelReader object. For example:

```
Set reader = CreateObject("FXBlueLabs.ExcelReader")
reader.Connect ("156734")
MsgBox reader.Read("balance")
```

In other words: you create an instance of the FXBlueLabs.ExcelReader object; you use the Connect() function to link it to a specific account number; and then you can use the Read() function to get data about the account.

The [property names](#) for the Read() function are the same as the property names for use with Excel's RTD function.

##### 3.1.1 Checking if a reader is successfully connected

You can successfully create the ExcelReader object and call the Connect() function even if no RTD app is currently running for that account.

In order to check whether data is actually available you can use Read() to make sure that properties such as balance are not blank, or you can read the [LastUpdateTime](#) property and check that the time is later than 1/1/2000.

##### 3.1.2 Data consistency across multiple reads

If you are querying multiple pieces of data, particularly multiple pieces of ticket data, then you need to be careful about updates and data consistency. For example, consider the following code which loops through the ticket list:

```
For i = 1 To reader.Read("tickets")
    strSymbol = reader.Read("t" & i & "s")
    vVolume = reader.Read("t" & i & "v")
Next
```

It is possible for the following to happen:

- At outset there are 2 open tickets
- Between the two uses of Read(), i.e. between the execution of lines 2 and 3, one of the tickets is closed.
- Therefore, what used to be ticket 2 becomes ticket 1.
- As a result, at the end of the first loop, strSymbol will hold the symbol of the ticket which is now closed, and vVolume will hold the volume of the ticket which is still open.

To ensure consistency while reading multiple pieces of data, use Reader.ReaderLock(). This will suspend any changes to the data until you then use Reader.ReaderUnlock(). For example:

```
Reader.ReaderLock()
For i = 1 To reader.Read("tickets")
    strSymbol = reader.Read("t" & i & "s")
    vVolume = reader.Read("t" & i & "v")
Next
Reader.ReaderUnlock()
```

Don't forget to call ReaderUnlock() after using ReaderLock()...

### 3.2 Sending trading commands from Excel

As a security measure, commands are **turned off** by default. You must turn on the "Accept commands" setting in the RTD app in order to send commands successfully. If this option is turned off then all commands will return "[ERR:Commands not allowed](#)".

You can send simple commands from Excel using the FXBlueLabs.ExcelCommand object. For example:

```
Set cmd = CreateObject("FXBlueLabs.ExcelCommand")
strResult = cmd.SendCommand("156734", "BUY", "s=EURUSD|v=10000", 5)
```

The SendCommand() function has four parameters:

- The account number (e.g. 156734)
- The [command](#), e.g. BUY
- Parameters for the command, e.g. symbol and volume to buy
- The number of seconds to wait for a response

SendCommand() is synchronous. It returns either when the RTD app completes the command, or when the timeout period expires. (Timeout **does not** mean that the request such as a market order has been withdrawn/cancelled. It only means that the broker/platform has not responded within the acceptable time.)

The return value from SendCommand() is a string, beginning either with ERR: to indicate that an error occurred, or with OKAY:. The only exception to this is the [TEST command](#), which returns the text HELLO.

### 3.2.1 Differences between trading platforms

There are some minor differences in the trading features which are currently supported on different platforms:

- "Magic numbers" are only valid for MT4 and MT5, and these parameters will be ignored on other platforms.
- Order comments are only available on some platforms.
- Stop-losses and take-profits are not currently supported on tradable

### 3.2.2 Commands and parameters

The parameters for a command are sent as a pipe-delimited string, consisting of a number of settings in the format name=value. The parameters can be listed in any order, and some parameters are optional.

```
cmd.SendCommand("156734", "BUY", "s=EURUSD|v=10000", 5)
```

Trading volumes are always specified as [cash amounts, not as lot sizes](#). The format of symbol names depends on whether the "Use standardised symbol names" option is turned on in the RTD app.

#### 3.2.2.1 TEST command

Simply returns the text HELLO if successful.

### 3.2.2.2 BUY and SELL commands

Submits buy or sell market orders. If successful, it returns the ID of the new ticket in the form OKAY:ticket-number

Parameter	Optional?	Meaning
S	Compulsory	<a href="#">Symbol name</a> for the buy order
V	Compulsory	Trading <a href="#">volume</a>
sl	Optional	Stop-loss price for the new position
tp	Optional	Take-profit price for the new position
comment	Optional	Comment for the new position
magic	Optional	Magic number for the new position

### 3.2.2.3 BUYLIMIT, SELLIMIT, BUYSTOP, and SELLSTOP commands

Submits a new pending order. If successful, it returns the ID of the new ticket in the form OKAY:ticket-number

Parameter	Optional?	Meaning
S	Compulsory	<a href="#">Symbol name</a> for the buy order
V	Compulsory	Trading <a href="#">volume</a>
price	Compulsory	Entry price for the pending stop/limit order
sl	Optional	Stop-loss price for the new position
tp	Optional	Take-profit price for the new position
comment	Optional	Comment for the new position
magic	Optional	Magic number for the new position

### 3.2.2.4 CLOSE command

Closes an open position or deletes a pending order. Returns OKAY:okay if successful.

Parameter	Optional?	Meaning
t	Compulsory	ID of the position to be closed, or the pending order to be deleted.

### 3.2.2.5 PARTIALCLOSE command

Does a partial-close of an open position. Returns OKAY:okay if successful. Volumes larger than the position size are simply treated as a full close (not as a close plus a reverse for the remaining amount). Cannot be used on pending orders.

Parameter	Optional?	Meaning
t	Compulsory	ID of the position to be partially closed.
v	Compulsory	Volume to be closed, e.g. 20000

### 3.2.2.6 REVERSE command

Reverses an open position, e.g. closing an open sell and replacing it with a buy. Returns OKAY:okay if successful.

Parameter	Optional?	Meaning
t	Compulsory	ID of the position to be reversed
v	Optional	Volume for the new reversed position. If omitted, the volume of the existing position is used (i.e. symmetrical reverse)
sl	Optional	Stop-loss price for the new position
tp	Optional	Take-profit price for the new position
comment	Optional	Comment for the new position
magic	Optional	Magic number for the new position

### 3.2.2.7 CLOSESYMBOL command

Closes all open positions and pending orders for a specific symbol. Returns OKAY:okay if successful.

Parameter	Optional?	Meaning
s	Compulsory	<a href="#">Symbol name</a> to close

### 3.2.2.8 CLOSEALL command

Closes all open positions and pending orders for all symbols. Returns OKAY:okay if successful. Please note that closing everything can require a substantial timeout.

Parameter	Optional?	Meaning
(none)		

For example:

```
cmd.SendCommand("156734", "CLOSEALL", "", 20) ' 20-second timeout
```

### 3.2.2.9 ORDERSL command

Changes the stop-loss on an open trade or pending order. Returns OKAY:okay if successful.

Parameter	Optional?	Meaning
t	Compulsory	ID of the trade or pending order to be modified
sl	Compulsory	New stop-loss price, or 0 to remove any existing stop-loss

### 3.2.2.10 ORDERTP command

Changes the take-profit on an open trade or pending order. Returns OKAY:okay if successful.

Parameter	Optional?	Meaning
t	Compulsory	ID of the trade or pending order to be modified
tp	Compulsory	New take-profit price, or 0 to remove any existing take-profit

### 3.2.2.11 ORDERMODIFY command

Changes both the stop-loss and take-profit on an open trade or pending order. For pending orders, you can also alter the entry price.

Parameter	Optional?	Meaning
-----------	-----------	---------

t	Compulsory	ID of the trade or pending order to be modified
p	Compulsory for pending orders	For pending orders, the new entry price for the order. Ignored and not required on open trades.
sl	Compulsory	New stop-loss price, or 0 to remove any existing stop-loss
tp	Compulsory	New take-profit price, or 0 to remove any existing take-profit

### 3.2.3 Standard error messages

Property	Meaning
ERR:Need account	Account value for SendCommand() is blank
ERR:Need command	Command value for SendCommand() is blank
ERR:No listening app	Cannot find an running instance of the RTD app for the specified account
ERR:No response within timeout	No response from the broker/platform within the specified number of seconds
ERR:Commands not allowed	The "Allow commands" option is not turned on in the RTD app
ERR:Unrecognised command	The command value for SendCommand() is not understood by the RTD app
ERR:Missing parameters	The command was missing one or more <a href="#">compulsory parameters</a>

### 3.3 Asynchronous commands

It is also possible to send commands asynchronously rather than blocking execution of the VBA code until the command completes or times out. This works as follows:

- You use SendCommandAsync() instead of SendCommand().
- You periodically check the result of the asynchronous action using CheckAsyncResult().
- When finished (or when you have decided to give up) you free up the command memory using FreeAsyncCommand()

For example:

```
Set cmd = CreateObject("FXBlueLabs.ExcelCommand")
```

```
ICommandId = cmd.SendCommandAsync("10915", "BUY", "s=EURUSD|v=10000",  
    60)  
strResult = ""  
While strResult = ""  
    strResult = cmd.CheckAsyncResult(ICommandId)  
    If strResult = "" Then MsgBox "Still waiting..."  
Wend  
cmd.FreeAsyncCommand (ICommandId)
```

SendCommandAsync uses the same four parameters as SendCommand(), but returns a "command ID" for subsequent use with CheckAsyncResult() and FreeAsyncCommand(), instead of returning the command result. Please note that SendCommandAsync() still has a timeout value.

You must eventually call FreeAsyncCommand() after SendCommandAsync(), or else your code will leak memory, albeit in small amounts.

CheckAsyncResult() either returns a blank string if the command is still executing and has not reached its specified timeout or, if complete, it returns the same string response as SendCommand().

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## **1 Market Manager**

The Market Manager does four main things:

- It shows a “watch list” of both symbol prices and open positions, with facilities for closing positions and opening new ones
- It shows headline information about the account, such as equity, balance, and margin usage.
- It shows a list of all open tickets, i.e. all open positions and pending orders, with the ability to open each ticket as a separate window, and then modify or close the position or order.
- It provides a concise summary of recent price activity on a symbol

### **1.1 Choosing the symbols to display**

On MT4 and MT5, the list of symbols in the Market Manager synchronises with the MT4/MT5 market watch. You configure the symbols in the Market Manager by configuring the MT4/MT5 market watch.

On other platforms, you control which symbols are displayed using the app's Symbols menu. You can use this Symbols menu to do a number of things:

- Quickly switch between currency-pairs for a particular currency, e.g. all USD pairs such as EURUSD, USDJPY etc
- Create a bespoke list of symbols
- Save a list of symbols as a “set”, and then quickly re-load a set.

### **1.2 Trading from the Market Manager**

#### **1.2.1 Placing orders**

Clicking on the bid or ask price for a symbol opens a dealing form with the order-type preset to “buy” or “sell”.

This is the same dealing form used in FXBlue’s very popular Trade Terminal and Mini Terminal apps. It can be used to load trading templates created in other modules of the software, or to create new templates.

### 1.2.2 Quick trade-entry from templates

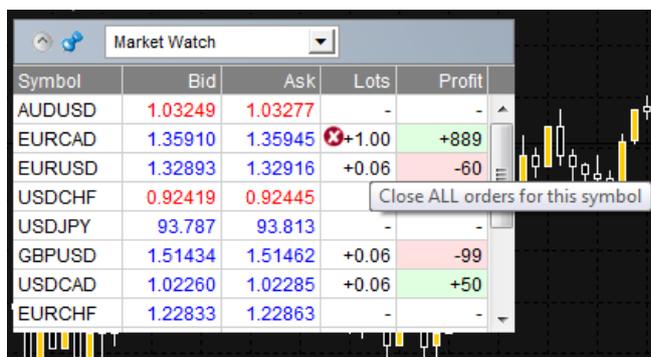
The Market Manager shares templates with FXBlue’s Trade Terminal and Mini Terminal apps. You can quickly execute a template by holding down the Ctrl key while clicking on the bid or ask price for a symbol, and then clicking on the template name:



Please note: templates have an order-type stored as part of their definition. In this context, the order-type is replaced by “buy” or “sell” depending on whether you have clicked on the bid price or the ask price.

### 1.2.3 Closing the entire position for a symbol

You can quickly close all the orders for a symbol by clicking on the position size. While the mouse is over the column, an icon appears next to the volume to indicate this:

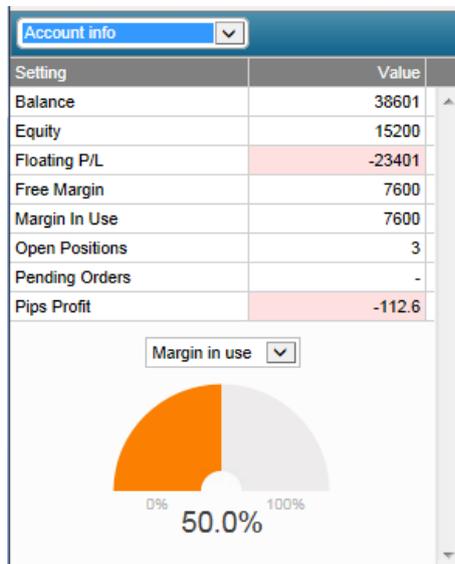


If there are multiple tickets which make up a position, you can close individual tickets using the [order list](#).

## 1.3 Account information

You view information about your account and profitability by choosing the “Account info” option from the drop-down menu. This displays headline values about the account

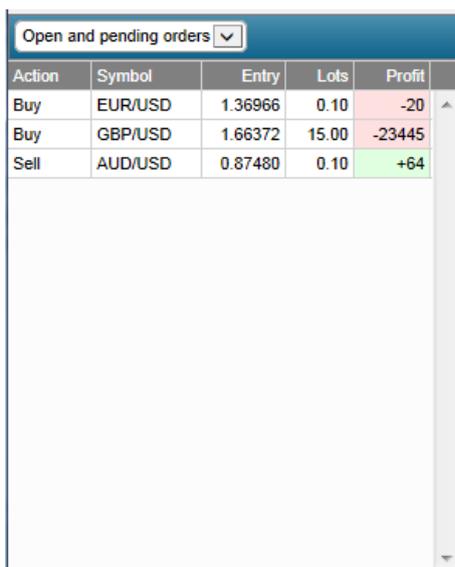
such as balance and free margin, and also shows a choice of three key metrics in graphical form (margin usage, floating P/L, or pips profit).



## 1.4 Order list

The “open and pending orders” option in the drop-down menu displays a list of each open ticket on the account, i.e. all open positions and pending orders.

You can close a position or pending order by clicking on its volume, or you can inspect and order and change its details by clicking on the action such as “Buy” or “Sell”. This opens an order window as discussed in the next section.



The screenshot shows the 'Open and pending orders' window with a table of open positions.

Action	Symbol	Entry	Lots	Profit
Buy	EUR/USD	1.36966	0.10	-20
Buy	GBP/USD	1.66372	15.00	-23445
Sell	AUD/USD	0.87480	0.10	+64

## 1.5 Order windows

Clicking on a ticket's action in the [order list](#) opens a pop-up window for that order. You can have any number of these pop-up windows visible at once.



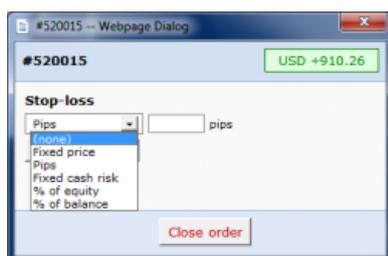
### 1.5.1 Information about s/l and t/p

The information shown about the s/l and t/p includes not only the price, but also the distance in pips from the current ask/bid price, and the cash effect on the balance if the s/l or t/p is hit. (In the example above, the order is substantially in profit and the s/l is in positive territory, i.e. the worst-case result for this order is now a profit, not a loss.)

Please note: when a s/l or t/p is set to a value in pips, it is measured from the open/current price. For example, a buy at 1.2345 with a s/l of 10 pips will have its s/l set to 1.2335. (In other words, when creating a s/l or t/p on an order, pip values are measured from the ask price.) However, the information in the pop-up order window shows how close the s/l and t/p are to being *hit*; the figures are measured from the other side of the spread.

### 1.5.2 Changing stop-losses etc.

The order window lets you change the s/l, t/p or trailing stop as well as just viewing this information. The s/l and t/p can be set using all the same options which are available when opening an order, not just a fixed price or a number of pips. (For example, the stop-loss can be set to a price corresponding to a cash risk of USD 50.)



## 1.6 Pop-up symbol windows

Symbol names in the Market Manager act as links for opening a pop-up window showing recent price movements on that symbol. You can open any number any number of these pop-up symbol windows.



### 1.6.1 Symbol information

The pop-up symbol window shows the following information.

- Current price versus the high-low range over the last 60 minutes, 24 hours, and 5 days.
- Recent H1, M15 and M5 candles.
- The current volume and profitability of any open position in the symbol.

This is drawn from the data in your trading platform, and there can be a short delay before all the information appears if the historic data needs to be downloaded from the broker's servers.

Please note that the gauge for the last 60 minutes is not the same as the current H1 candle. The former runs from e.g. 10.23am to 11.22am whereas the current H1 candle runs from e.g. 11.00am to 11.22am.

The symbol window can be switched so that it shows very recent price activity instead of the candles, using the button highlighted in the following screenshot. This is *not* a tick chart; it is a 500-millisecond chart which continues updating even if there is no market activity.



## 1.6.2 Trading from the pop-up symbol window

You can carry out three trading actions from the symbol window:

- Close an open position (if any) by clicking on the volume.
- Open the standard dealing form by clicking on the Buy and Sell buttons in the top-left and top-right corners.
- Quickly execute a saved template by holding down Ctrl while clicking on the Buy or Sell buttons.

## 1.7 Pop-up menu for symbols

As well as clicking on any symbol name in the Market Manager, you can also hold down the Ctrl key while clicking. This displays a pop-up menu with the following options:

- Symbol information. Same as a simple click on the symbol; opens a pop-up window for that symbol.
- Place order. Opens the standard dealing form.

### 1.7.1 New-chart option on MT4

On MT4 only, the pop-up menu contains a “New chart” option which opens a new chart for the selected symbol. If there is a template in MT4 called “Marketwatch” then this is automatically applied to the new chart. (If not, the default template will be used.)

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## **1 Market Manager**

The Market Manager does four main things:

- It shows a “watch list” of both symbol prices and open positions, with facilities for closing positions and opening new ones
- It shows headline information about the account, such as equity, balance, and margin usage.
- It shows a list of all open tickets, i.e. all open positions and pending orders, with the ability to open each ticket as a separate window, and then modify or close the position or order.
- It provides a concise summary of recent price activity on a symbol

### **1.1 Choosing the symbols to display**

On MT4 and MT5, the list of symbols in the Market Manager synchronises with the MT4/MT5 market watch. You configure the symbols in the Market Manager by configuring the MT4/MT5 market watch.

On other platforms, you control which symbols are displayed using the app's Symbols menu. You can use this Symbols menu to do a number of things:

- Quickly switch between currency-pairs for a particular currency, e.g. all USD pairs such as EURUSD, USDJPY etc
- Create a bespoke list of symbols
- Save a list of symbols as a “set”, and then quickly re-load a set.

### **1.2 Trading from the Market Manager**

#### **1.2.1 Placing orders**

Clicking on the bid or ask price for a symbol opens a dealing form with the order-type preset to “buy” or “sell”.

This is the same dealing form used in FXBlue’s very popular Trade Terminal and Mini Terminal apps. It can be used to load trading templates created in other modules of the software, or to create new templates.

### 1.2.2 Quick trade-entry from templates

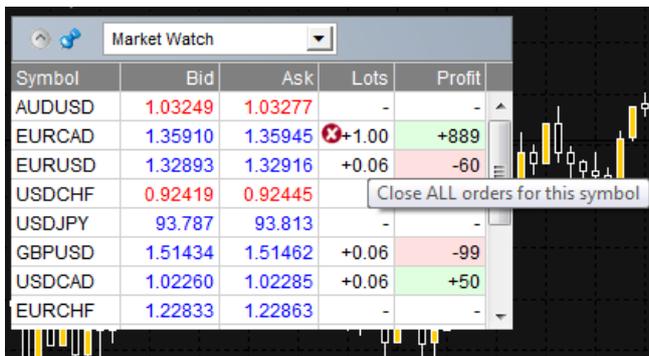
The Market Manager shares templates with FXBlue’s Trade Terminal and Mini Terminal apps. You can quickly execute a template by holding down the Ctrl key while clicking on the bid or ask price for a symbol, and then clicking on the template name:



Please note: templates have an order-type stored as part of their definition. In this context, the order-type is replaced by “buy” or “sell” depending on whether you have clicked on the bid price or the ask price.

### 1.2.3 Closing the entire position for a symbol

You can quickly close all the orders for a symbol by clicking on the position size. While the mouse is over the column, an icon appears next to the volume to indicate this:

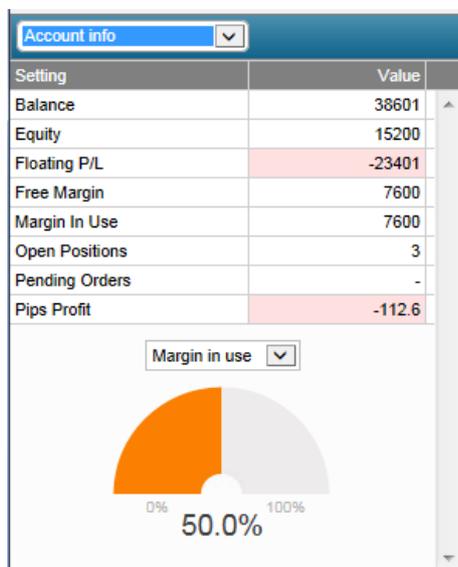


If there are multiple tickets which make up a position, you can close individual tickets using the [order list](#).

## 1.3 Account information

You view information about your account and profitability by choosing the “Account info” option from the drop-down menu. This displays headline values about the account

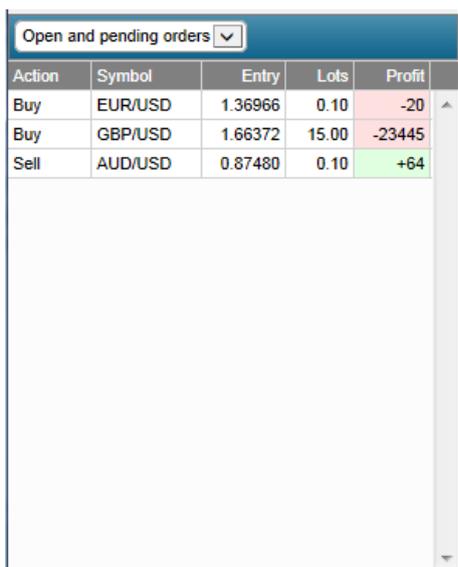
such as balance and free margin, and also shows a choice of three key metrics in graphical form (margin usage, floating P/L, or pips profit).



## 1.4 Order list

The “open and pending orders” option in the drop-down menu displays a list of each open ticket on the account, i.e. all open positions and pending orders.

You can close a position or pending order by clicking on its volume, or you can inspect and order and change its details by clicking on the action such as “Buy” or “Sell”. This opens an order window as discussed in the next section.



The screenshot shows the 'Open and pending orders' window with a table of open positions.

Action	Symbol	Entry	Lots	Profit
Buy	EUR/USD	1.36966	0.10	-20
Buy	GBP/USD	1.66372	15.00	-23445
Sell	AUD/USD	0.87480	0.10	+64

## 1.5 Order windows

Clicking on a ticket's action in the [order list](#) opens a pop-up window for that order. You can have any number of these pop-up windows visible at once.



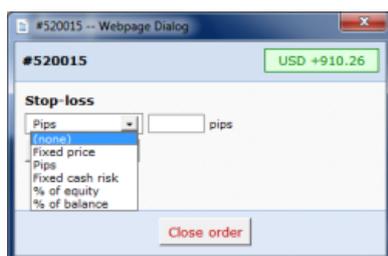
### 1.5.1 Information about s/l and t/p

The information shown about the s/l and t/p includes not only the price, but also the distance in pips from the current ask/bid price, and the cash effect on the balance if the s/l or t/p is hit. (In the example above, the order is substantially in profit and the s/l is in positive territory, i.e. the worst-case result for this order is now a profit, not a loss.)

Please note: when a s/l or t/p is set to a value in pips, it is measured from the open/current price. For example, a buy at 1.2345 with a s/l of 10 pips will have its s/l set to 1.2335. (In other words, when creating a s/l or t/p on an order, pip values are measured from the ask price.) However, the information in the pop-up order window shows how close the s/l and t/p are to being *hit*; the figures are measured from the other side of the spread.

### 1.5.2 Changing stop-losses etc.

The order window lets you change the s/l, t/p or trailing stop as well as just viewing this information. The s/l and t/p can be set using all the same options which are available when opening an order, not just a fixed price or a number of pips. (For example, the stop-loss can be set to a price corresponding to a cash risk of USD 50.)



## 1.6 Pop-up symbol windows

Symbol names in the Market Manager act as links for opening a pop-up window showing recent price movements on that symbol. You can open any number any number of these pop-up symbol windows.



### 1.6.1 Symbol information

The pop-up symbol window shows the following information.

- Current price versus the high-low range over the last 60 minutes, 24 hours, and 5 days.
- Recent H1, M15 and M5 candles.
- The current volume and profitability of any open position in the symbol.

This is drawn from the data in your trading platform, and there can be a short delay before all the information appears if the historic data needs to be downloaded from the broker's servers.

Please note that the gauge for the last 60 minutes is not the same as the current H1 candle. The former runs from e.g. 10.23am to 11.22am whereas the current H1 candle runs from e.g. 11.00am to 11.22am.

The symbol window can be switched so that it shows very recent price activity instead of the candles, using the button highlighted in the following screenshot. This is *not* a tick chart; it is a 500-millisecond chart which continues updating even if there is no market activity.



## 1.6.2 Trading from the pop-up symbol window

You can carry out three trading actions from the symbol window:

- Close an open position (if any) by clicking on the volume.
- Open the standard dealing form by clicking on the Buy and Sell buttons in the top-left and top-right corners.
- Quickly execute a saved template by holding down Ctrl while clicking on the Buy or Sell buttons.

## 1.7 Pop-up menu for symbols

As well as clicking on any symbol name in the Market Manager, you can also hold down the Ctrl key while clicking. This displays a pop-up menu with the following options:

- Symbol information. Same as a simple click on the symbol; opens a pop-up window for that symbol.
- Place order. Opens the standard dealing form.

### 1.7.1 New-chart option on MT4

On MT4 only, the pop-up menu contains a “New chart” option which opens a new chart for the selected symbol. If there is a template in MT4 called “Marketwatch” then this is automatically applied to the new chart. (If not, the default template will be used.)

## CORRELATION MATRIX

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## 1. About correlation

The Correlation Matrix shows the correlation between symbols over a configurable timeframe and number of bars, for example the last 100 H1 bars.

Correlation is measured on a scale from -100 to +100:

- +100 means that the price movements in symbol A and B have been identical (“positive correlation”).
- -100 means that the price movements in symbol A and B have been exactly opposite: A went up when B went down, and vice versa (“negative correlation”).
- 0 means that the symbols have moved independently.

Correlation can have a major effect on your trading risk. For example the following charts show H1 EURUSD and USDCHF over the same time period:



These symbols had very strong negative correlation (about -95). If you were long EURUSD and short USDCHF over this period, or vice versa, then you would have seen very similar profits on both positions. In effect, you did not have two positions: you only really had one position. (If you were long both symbols, or short both symbols, then you probably had a profit on one and a matching loss on the other.)

It is generally advisable to minimise the correlation between your open positions. Otherwise, you are either trading the same price action twice over, or you have two positions which cancel each other out.

The Correlation Matrix helps you to identify symbols with strong or weak correlation.

## 2. Using the Correlation Matrix

### 2.1 The matrix

The Correlation Matrix shows the correlation between a grid of selected symbols. For example:



Each cell in the matrix is color-coded:



Green. No correlation (0 to  $\pm 25$ )



Blue. Weak correlation. ( $\pm 25$  to  $\pm 50$ )



Orange. Medium correlation. ( $\pm 50$  to  $\pm 75$ )



Red. Strong correlation. ( $\pm 75$  to  $\pm 100$ )

It makes little difference whether values are positive or negative (e.g. +90 or -90), and the meaning depends on whether you are long or short each symbol. For example:

- +90. If you are long both symbols, or short both symbols, then you will tend to see identical profits or losses on both positions. If you are long one symbol and short the other, then you will tend to have a matching profit and loss.
- -90. If you are long both symbols, or short both symbols, then you will tend to have a matching profit and loss. If you are long one symbol and short the other, then you will tend to see identical profits or losses on both positions.

The chequered cells show rows and columns which are the same (i.e. correlation of EURUSD against itself is meaningless). The grid is symmetrical either side of the chequered line: e.g. the correlation of EURUSD against USDCHF is the same as the correlation of USDCHF against EURUSD.

## 2.2 Changing the parameters for the calculation

You can use the fields at the top of the matrix to choose a timeframe (e.g. H1, D1) and a number of historic bars (e.g. 25, 100, 500).

Correlation between symbols changes over time, and recent correlation may not continue in future. As a general rule, the settings which you choose should be related to how long you intend to keep open positions for. For example, if you expect a position to be open for 24 hours, you might want to look at H1 correlation over the last 50 or 100 bars (roughly 2 or 4 days).

You can choose which symbols to include in the Matrix by using the ... button. This shows the list of symbols which are currently being displayed, and a list of all available symbols.

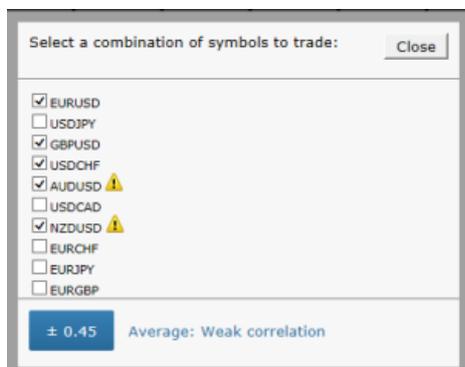
## 2.3 Highlighting correlation strength

The strength field, next to the bars field, lets you highlight different types of correlation in the grid. For example, if you pick "Strong" then the grid highlights correlation above  $\pm 75$ , and grays out all weaker correlations.

## 2.4 Trade list

The Trade List button shows the average correlation between a list of selected symbols – for example, positions you are currently trading, or positions which you intend to open in future.

The list shows the average correlation, and also marks any symbols which have strong correlation with another symbol on the list. In the following example the overall average is weak correlation, but AUDUSD and NZDUSD have strong correlation with each other:



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## 1. About correlation

The Correlation Trader shows the correlation between symbols over a configurable timeframe, e.g. recent H1 bars.

Correlation is measured on a scale from -100 to +100:

- +100 means that the price movements in symbol A and B have been identical ("positive correlation").
- -100 means that the price movements in symbol A and B have been exactly opposite: A went up when B went down, and vice versa ("negative correlation").
- 0 means that the symbols have moved independently.

Correlation can have a major effect on your trading risk. For example the following charts show H1 EURUSD and USDCHF over the same time period:



These symbols had very strong negative correlation (about -95). If you were long EURUSD and short USDCHF over this period, or vice versa, then you would have seen very similar profits on both positions. In effect, you did not have two positions: you only really had one position. (If you were long both symbols, or short both symbols, then you probably had a profit on one and a matching loss on the other.)

It is generally advisable to minimise the correlation between your open positions. Otherwise, you are either trading the same price action twice over, or you have two positions which cancel each other out.

The Correlation Trader helps you to identify symbols with strong or weak correlation, and to trade emerging differences in the correlation.

## 2. Using the Correlation Trader

### 2.1 Price charts

The Correlation Trader shows recent price charts for two symbols side by side (and can be used simply as a way of displaying two linked price charts):



### 2.2 Correlation

The bar in the middle lets you change the timeframe for the charts. It also shows the following:

- Recent correlation between the two symbols over the selected timeframe.
- Any open position in each symbol, and its profitability



#### 2.2.1 Correlation values

The gauge shows the correlation on scale of 0 to  $\pm 100$ . It makes little difference whether values are positive or negative (e.g. +90 or -90), and the meaning depends on whether you are long or short each symbol. For example:

- +90. If you are long both symbols, or short both symbols, then you will tend to see identical profits or losses on both positions. If you are long one symbol and short the other, then you will tend to have a matching profit and loss.
- -90. If you are long both symbols, or short both symbols, then you will tend to have a matching profit and loss. If you are long one symbol and short the other, then you will tend to see identical profits or losses on both positions.

### 2.2.2 Correlation colors

The color of the gauge depends on the strength of the correlation:

	Green. No correlation (0 to $\pm 25$ )
	Blue. Weak correlation. ( $\pm 25$ to $\pm 50$ )
	Orange. Medium correlation. ( $\pm 50$ to $\pm 75$ )
	Red. Strong correlation. ( $\pm 75$ to $\pm 100$ )

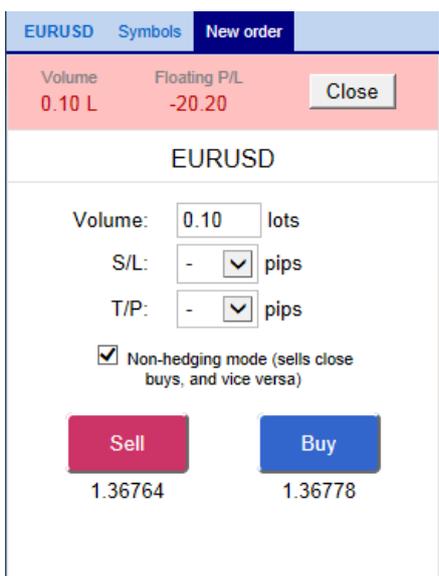
### 2.3 Changing the symbol selection

You can change a symbols by clicking on its name. The label is replaced with an editable box where you can type in a new symbol name, with auto-complete.

### 2.4 Opening and closing positions

[Please note: the order tab is not available on the tradable platform]

You can use the New Order to carry out simple trading actions such as closing an open position or opening a new one.



EURUSD Symbols **New order**

Volume: 0.10 L Floating P/L: -20.20 Close

EURUSD

Volume: 0.10 lots

S/L: - pips

T/P: - pips

Non-hedging mode (sells close buys, and vice versa)

Sell Buy

1.36764 1.36778

The top of the trading form shows any open position in the selected symbol, with a button for closing the position. Below that is a simple form for placing a new buy or sell market order.

## TICK CHART TRADER

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## 1. Overview

The Tick Chart Trader shows tick charts in a [variety of styles](#), and allows [quick trading](#) using either keyboard or mouse.

The tick charts are compiled from the time that the app starts running. It does not provide access to historic tick data.

The app provides five styles of chart:

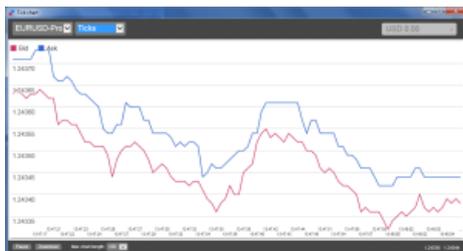
- [Tick charts](#)
- [Tick speed](#)
- [Timed charts](#)
- [Tick candles](#)
- ["Versus" charts](#)

The app also provides extra-fast position entry and exit, on a FIFO basis, using either the keyboard or mouse.

## 2. Charts

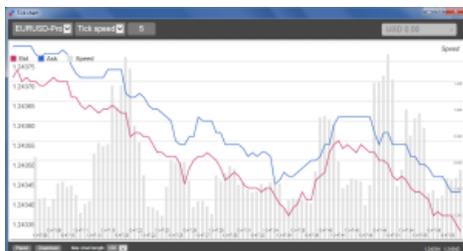
### 2.1 Tick charts

Tick charts show each change in the bid or ask price; the chart updates whenever either price changes. The amount of time between each point on the chart can vary depending on how active the market is.



### 2.2 Tick speed

The tick-speed chart shows each tick, plus grey bars indicating the time between tick. The time is a rolling average, calculated over the number of ticks specified by the numeric field in the toolbar – for example, the average speed of the last 5 ticks. The smaller the grey bars, the faster that ticks are appearing.



### 2.3 Timed charts

Timed charts show each individual tick, but the x-axis of the chart is divided into equal amounts of time. Therefore, the chart can show bursts of activity interspersed with periods where the lines are flat because no new ticks occur.



(This chart covers the same period as the tick chart example above.)

## 2.4 Tick candles

The candle chart shows traditional candles – with an open, high, low, and close – but based on a number of ticks rather than a duration of time. For example, if the period for the chart is set to 5 ticks, then each candle could represent anything from one second if the market is active (i.e. all 5 ticks happen within a single second) through to as much as a minute if the market is quiet (i.e. it takes a 60 seconds for 5 different ticks to happen).

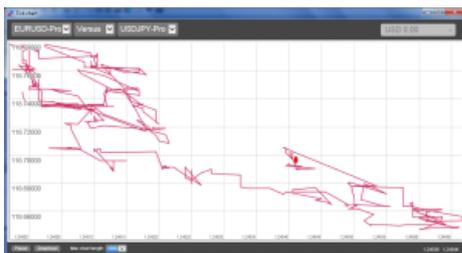
Candle charts are based on the mid price of each tick (i.e. the average of the bid and ask).



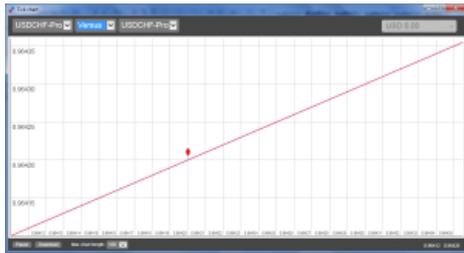
## 2.5 Versus charts

"Versus" charts show the activity on one symbol versus another, plotted against each other. The chart shows the current mid prices, and per-second historic snapshots.

A chart of two different symbols plotted against each other shows the correlation in their movements. In the following example there is quite strong negative correlation between the two symbols:



A chart of a symbol against itself is more useful than may immediately appear: it shows the current price in relation to the high-low range of the period covered by the chart.



### **3. Trading**

All trading through the Tick Chart Trader app is on a FIFO basis. For example, if you place a buy order and then a sell order, then the sell closes the previous buy even if you are using a trading platform such as MT4 which allows "hedged" orders. The trading functionality in the Tick Chart Trader app is designed for people who want quick entry and exit from a single position in each symbol.

#### **3.1 Placing orders with the mouse**

You can place buy and sell orders by clicking on the bid and ask prices in the bottom-right of the app. This displays a pop-up panel with buy or sell pre-selected depending on whether you clicked on the ask price or bid price. The trade size from the field in the footer is copied into the pop-up panel.

You can close an open position by clicking on the position/profit marker in the top-right of the app. This pre-fills the dealing panel with an order which closes your position. For example, if you are long 0.30 lots, then the panel will be pre-filled with a sell order for 0.30.

However, you can change the contents of the dealing panel before placing the order. For example, you can click on the bid price, pre-filling the dealing panel with a sell order, but then change that to a buy order before placing the trade.

You can close the panel without placing a trade by clicking anywhere outside it.

#### **3.2 Placing orders with the keyboard**

You can trade with the keyboard using the B, S, and C keys.

B has the same effect as clicking on the ask price: it pre-fills the dealing panel for a buy order. S is equivalent to clicking on the bid price; it pre-fills the panel for a sell order. C has the same effect as clicking on the position/profit marker.

After pressing one of these keys you can then either amend the order details, or simply press the spacebar rather than having to click on the "Place order" button. (You can move from the "Place order" button to the volume field using the standard keyboard shortcut Shift+Tab.)

You can close the panel without placing a trade by pressing the Esc key.

### 3.3 Placing quick orders using the Ctrl key

For extra-fast order entry, you can use the Ctrl key. You need to turn this option by using any of the above facilities for opening the dealing panel. (You do not need to place a trade; you can turn on the Ctrl option and then cancel the dealing panel.)

Using the Ctrl key is then equivalent to opening the trading panel (using either [mouse](#) or [keyboard](#)) and then clicking on the "Place order" button without changing the pre-filled settings.

In other words:

- Ctrl+C, or holding down Ctrl while clicking on the position/profit marker, closes your current open position.
- Ctrl+B, or holding down Ctrl while clicking on the ask price, places a new buy order using the trade size shown in the footer.
- Ctrl+S, or holding down Ctrl while clicking on the bid price, places a new sell order using the trade size shown in the footer.

## **4. Options and settings**

You can change options and settings for the app using the controls in the bottom-left corner of its window.

### **4.1 History length**

The history-length setting does two things:

- It controls how many ticks are displayed on the chart (number of seconds rather than ticks in the case of ["versus" charts](#)).
- It controls how much tick history is recorded for symbols which are not currently being displayed.

For example, if the history-length is set to 100 and you are currently looking at EUR/USD, then the software will only show the most recent 100 ticks but it will be recording an unlimited number of ticks for EUR/USD. You can change the value from 100 to e.g. 200 in order to see more of the EUR/USD history (provided that 200 ticks have been received). However, the software will have only stored the most recent 100 ticks for any other symbol which is not being displayed, such as GBP/USD, and after changing the setting the software will only record a maximum of 200 ticks for these symbols.

### **4.2 Pause chart**

The Pause button suspends drawing of the chart. The software continues to collect ticks, and it updates the current price and the position/profit marker.

### **4.3 Download**

The Download button downloads the entire available tick history for the selected symbol as a TSV file, showing the date, bid price, and ask price.

## STEALTH ORDERS

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## 1. Overview

Stealth Orders hide your entry and exit levels from the market. Instead of placing pending orders, the app buys or sells at the current market price when an entry level is reached. There is no pending order in the market which other participants can see. Similarly, you can have a stealth stop-loss or take-profit which sends a close instruction when an exit level is hit.

You can use the app to do four things, including closing multiple trades if their combined profit reaches a threshold:

- [Stealth entries](#): the equivalent of limit and stop orders. You can also create one-cancels-all (OCA) groups of orders where the remaining orders are removed when the first one is filled.
- [Stealth exits](#): the equivalent of a take-profit or stop-loss on a single trade. Exit points can be specified in cash terms (e.g. "take-profit at USD +50") instead of prices.
- [Symbol exits](#): these close all the positions and orders for a symbol if a price is hit, or if the combined profit of the positions reaches a threshold. You can also use filtering, e.g. "only long EUR/USD orders, and only if their comment includes the text Breakout".
- [Account exits](#): these close all positions and orders on the entire account when a threshold is hit.

### 1.1 Disadvantages of stealth orders

You should be aware of **two disadvantages** of using stealth entries and exits compared to a normal pending order, or a stop-loss or take-profit:

- You will tend to get more slippage with stealth orders (though this can be positive as well as negative).
- Stealth orders are only processed if the app is running and connected to your broker. A normal pending order, or stop-loss or take-profit, will be processed even if your trading software is not running or your internet connection goes down.

For protection, you can use your trading platform to set a "real" stop-loss or take-profit on positions, in addition to using stealth orders. For example, if you are long EUR/USD and the current price is 1.2345, you can set a real stop-loss in the market at 1.2300 using your trading platform and also a stealth stop-loss at 1.2310 using the app. Your position

will be closed at 1.2310 (plus or minus slippage) provided that the app remains running. If there is any sort of problem with the connection to your broker, the real stop-loss at 1.2300 should be activated instead, by the broker/exchange.

## 2. Stealth entries

Stealth entries are the equivalent of limit and stop entry orders. Instead of placing e.g. a buy-limit into the market at 1.2345, the app waits for the price to hit 1.2345 and then places a buy order.

### 2.1 Creating and editing stealth entries

You create new entries on the "Entries" tab, using the "New stealth entry" button. You can edit an existing item by clicking on its title.

### 2.2 Basic stealth entry details

In order to create a stealth entry, you need to enter four pieces of information:

- The symbol (e.g. EUR/USD)
- The trade size
- The order type (e.g. buy-limit, sell-limit)
- The entry price, as a fixed amount or as an offset from the current price.

If you ask for an entry price which is already valid, e.g. a buy-limit at 1.3400 when the current price is below that, the software will warn you before creating an entry which is then processed immediately.

#### 2.2.1 Immediate buy and sell orders

As well as creating stealth buy-limits, sell-stops etc you can also choose to create buy and sell orders which are placed immediately into the market without waiting for a trigger level to be hit.

In combination with the [stop-loss and take-profit settings](#), this lets you create a new open trade with a [stealth exit](#) attached to it. Once your immediate buy or sell order has been placed, the app creates a stealth exit for the new ticket using the stop-loss and take-profit details.

### 2.3 Stop-loss and take-profit

You can set a stop-loss and/or a take-profit for each stealth entry, either as a fixed price, or as a distance from the opening price, or as a cash amount (e.g. stop-loss at USD -50 and take-profit at USD +50).

When an entry is filled, these details are then used to create a [stealth exit](#) for the open trade.

## **2.4 Maximum spread**

You can set a maximum spread at the time an entry is hit. If the spread is higher than the threshold when your entry price is reached, then the stealth entry is removed and not traded. For example, if you set the maximum spread to 3 pips, and the spread when your entry price is reached is 3.5 pips, then the stealth entry will be removed without trading.

## **2.5 Order comment and "magic number"**

You can use the settings for the stealth entry to set the textual order comment which appears in your trading platform. You can also set the "magic number" for the order (similar to the comment, but numeric rather than textual).

## **2.6 OCA group**

You can combine stealth entries into one-cancels-all (OCA) groups where remaining entries in the same group are removed once the first one has been triggered.

For example, you want to trade the break-out of yesterday's range (e.g. 1.2345 to 1.2375), going long or short when the high or low is broken, but *not* then placing the opposite order from the low or high if the price re-traces again. You create two stealth entries: a buy-stop (at 1.2375) and a sell-stop (at 1.2345), and you assign them to the same OCA group, e.g. "Breakout". When one of the prices is hit, the other stealth entry will be removed.

### 3. Stealth exits

Stealth exits are the equivalent of stop-losses and take-profits (s/l and t/p). They close individual open trades when a price is hit, or when the trade's net profit reaches a threshold (e.g. USD 50 profit or USD 100 loss).

#### 3.1 Creating stealth exits

You create new stealth exits on the "Exits" tab, using the "New stealth exit" button. You can edit an existing item by clicking on its title.

If you set a stop-loss or a take-profit on a [stealth entry](#), then this automatically creates a stealth exit for the ticket when the entry price is hit and an order is placed.

You can only create a new stealth exit if there is an open position on your account. If you want to open a *new* trade in the market, and then apply a stealth exit to it, you can create an [immediate buy or sell order](#) using the Entries tab and use the [stop-loss and take-profit](#) to create a stealth exit for the new trade.

#### 3.2 Stealth exit details

In order to create a stealth exit you need to enter the following information:

- The open trade to apply the exit to.
- The amount of the position to close.
- Either a stop-loss level or a take-profit level, or both.

#### 3.3 Volume to close

A stealth exit can do three things:

- Close the entire open trade
- Close a specific amount (e.g. 0.20 lots / 20K)
- Close a percentage of the open trade, e.g. 50%

If you choose a specific volume (e.g. 0.30 lots) and this is larger than the size of the trade when the closure rules are hit (e.g. 0.20 lots) then the app simply ignores the excess and closes the open trade (0.20 lots). It does not place a new order for the difference (e.g. 0.10 lots).

Percentages are always rounded *up* to the nearest permitted trade size. For example:

- You have an open trade for 0.50 lots
- You have specified that the stealth exit should close 75% of the trade
- The broker's minimum trade size and increment is 0.10 lots
- The app will close 0.40 lots out of 0.50 (leaving 0.10). 75% of 0.50 is 0.375, which is rounded up to the next multiple of the permitted 0.10 trade size.

### **3.4 Stop-loss and take-profit**

A stop-loss or take-profit can be specified in three ways:

- As a fixed price, e.g. 1.2345
- As a number of pips from the current market price (not the open price of the trade)
- As a cash amount. The trade is closed if its net profit hits this threshold.

In addition, a stop-loss (but not a take-profit) can be set as a [trailing stop](#), in pips.

#### **3.4.1 Trailing stops**

Different people have varying definitions of a trailing stop. The app's trailing stops work as follows:

- The current price is e.g. 1.2345 (on a buy trade) and you define a trailing stop of e.g. 20 pips.
- The app sets the stop-loss to 1.2325: 20 pips from 1.2345.
- If the price falls, the stop-loss does not move.
- If the price rises, e.g. to 1.2350, then the stop-loss moves upwards, e.g. to 1.2330.
- Therefore, the trade is closed 20 pips below its highest price (unless a separate take-profit is hit).

If you change the amount of a trailing stop, e.g. from 20 pips to 10 pips, then its history is reset, and the stop-loss will be moved to 10 pips from the current price.

### **3.5 Multiple exits for the same trade**

You can create multiple exits for the same open trade, e.g. closing 50% at one level and the remainder at a further level. For example, you could close 50% of a trade at a profit

of USD 50, and then have another stealth exit rule which closes the remainder when the trade reaches a profit of USD 100.

Please note that [close percentages](#) apply to the trade volume when the rule is triggered, not to the original trading volume. If you have two rules for the same trade which each close 50%, then this will leave 25% of the original trade still open. The first rule will close 50% of the original trade (e.g. 0.20 lots out of 0.40 lots), and the second rule will then close 50% of the remaining trade size (e.g. 0.10 lots out of 0.20 lots).

### **3.6 Trades which are manually closed outside the app**

If you close an open trade in your trading platform, outside of the app, then the app will say that it is unable to find the ticket for the exit rule. The exit rule will be automatically removed after 60 seconds. (The delay is in order to handle partial closes where an original ticket number is changed by the broker to a new ticket number.)

## 4. Symbol exits

Symbol exits close all the open trades for a single symbol, e.g. EUR/USD, when a price target is hit, or when the combined net profit on all the open trades for the symbol reaches a trigger value.

You can also set up [filtering](#), so that the symbol exit only acts on some of the orders for the symbol. For example, you can create a symbol exit which only looks at EUR/USD buy orders which have the comment "Breakout".

### 4.1 Creating symbol exits

You create new symbol exits on the "Symbols" tab, using the "New symbol exit" button. You can edit an existing item by clicking on its title.

### 4.2 Choosing a symbol

You can either choose an individual symbol such as EUR/USD, or you can select "All symbols". The latter is intended for use with [filtering](#), and lets you create an exit which, for example, acts on all orders for *all* symbols which have the comment "Breakout".

### 4.3 Exit threshold: price or profit

A symbol exit can either close its trades when the price reaches trigger points (ask at  $x$  or bid at  $y$ ) or it can look at the combined net profit of the open trades, e.g. closing them if they are USD 50 in loss or USD 100 in profit.

You must always specify both an upper and a lower limit. If you only want to use one of these, simply set the other limit to a value which will never be hit (e.g. if you only want to use the lower limit, then set the upper limit to a profit of USD 999999 or a price of 999999).

If you [select "All symbols"](#), you can only use a profit trigger because there is no applicable price.

### 4.4 Amount to close

You can choose what percentage of each open trade to close. Each ticket is processed separately, and amounts are rounded *up* to the nearest permitted trade size. For example:

- You have 4 separate open trades in EUR/USD, each of 0.10 lots.
- Your broker's minimum trade size/increment is 0.10 lots.
- You ask to close 75% of each ticket.
- The app will completely close all 4 trades. It will close 75% of each individual ticket, which is rounded up from 0.075 lots to the minimum of 0.10.
- The app will *not* close 75% of the total overall position, i.e. closing three of the positions and leaving you with one of the trades (0.10 lots out of the original 0.40 lots, i.e. 75%).

#### 4.5 Closing pending orders

You can choose whether the symbol exit also deletes pending orders. If turned on, this will remove any pending orders in your trading platform, and also any [stealth entries](#).

The [close amount](#) is not applied to pending orders. They are always removed in full.

#### 4.6 Filtering

You can set up filtering so that the symbol exit only looks at, and acts on, trades which match certain criteria. For example, you can restrict the symbol exit so that it only closes EUR/USD buy orders, not sell orders, or only EUR/USD buy orders which have the comment "Breakout".

You can also use the ["All symbols" option](#) to create a symbol exit which acts on multiple symbols: for example, something which closes all trades with the comment "Breakout", on all symbols, when their combined profit hits a trigger.

You can filter on three things, and these conditions are combined. For example, if you select buy orders and the comment "Breakout", it means "buy orders which also have the comment", not "buy orders *or* orders with the comment".

- [Trade direction](#)
- [Order comment](#)
- [Order "magic number"](#)

##### 4.6.1 Trade direction

You can choose whether a symbol exit acts on all orders, or only buys or only sells.

#### 4.6.2 Order comment

You can select orders whose textual comment contains specific text. For example, if you enter the value "Breakout", then the symbol exit will act on orders whose comment **contains** the text "Breakout". For example: "Breakout", "Breakout123", "Bar Breakout" etc. The comparison is not case-sensitive; it will also match against "Bar breakout" etc.

You can specify multiple comments separated by commas: for example, "Breakout,Pivot". This will match against any orders whose comment contains "Breakout" **or** "Pivot".

#### 4.6.3 Order magic number

You can also select orders whose numeric "magic number" matches a specific value. For example, if you enter the value 12345, then the symbol exit will act on orders whose magic number is 12345.

You can specify multiple numbers separated by commas: for example, "12345,98765,22222". This will match against any orders whose magic number is 12345 **or** 98765 **or** 22222.

#### 4.7 Repeats

You can choose that a symbol exit is not removed after it has been triggered, and is instead kept on the list and keeps acting whenever its trigger is hit. For example:

- You are running an automated trading system on your account which is continually placing orders.
- In addition to the trading system's own rules, you want to close its positions if it goes USD 200 into loss or USD 300 into profit.
- And you want to *keep closing* the positions: the automated system keeps on trading, but you *repeatedly* want to shut down its positions if the profit limits are hit.

## 5. Account exits

Account exits close all the open trades on your account (plus, optionally, pending and stealth orders) when a threshold is reached on the account: e.g. floating P/L in loss of more than USD 500, margin usage greater than USD 1000 etc.

### 5.1 Creating account exits

You create new account exits on the "Account" tab, using the "New account exit" button. You can edit an existing item by clicking on its title.

### 5.2 Account metric

You can use an account exit to monitor any of the following:

- Floating P/L
- Equity
- Free margin
- Used margin

### 5.3 Upper and lower limits

Equity and floating P/L exits require both an upper and a lower limit. If you only want to use one of the values, you simply set the other to an amount which will never be reached. For example, if you want to close all your trades when equity falls below USD 2000, and you have no profit target, you can simply set the upper limit to a large value such as 999999.

### 5.4 Closing pending orders

You can choose whether an account exit closes pending orders as well as open trades. If you select this option, the app will close all pending orders in your trading platform and also remove any [stealth entries](#).

## **6. Log**

The Log tab shows the activity of the Stealth Orders. It records all actions since the app most recently started, plus any activity from previous sessions which happened within the last 2 days.

You can download the log, as a TSV file which you can open in Excel or similar software, using the "Download" button at the bottom of the list.