

UTRADE FX

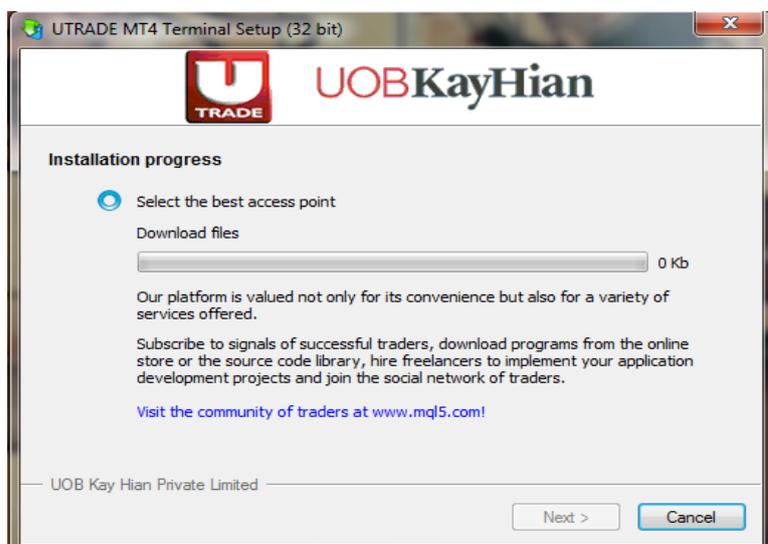
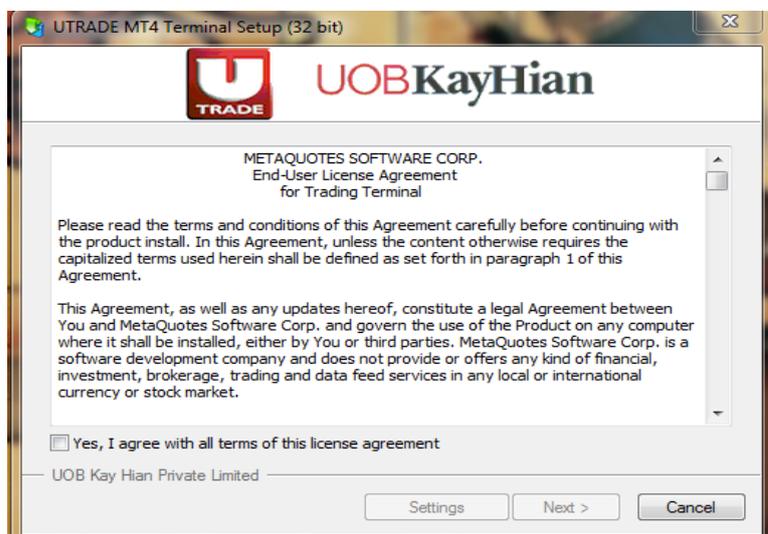
MT4 USER GUIDE



ONLINE TRADING
MADE EASY

Installing MT4 on a Windows PC

1. Begin installation by downloading the UTRADE MT4 installer:
<https://download.mql5.com/cdn/web/uob.kay.hian/mt4/utradefx4setup.exe>
2. Run the installer and follow the installation steps on screen.
3. Read the license agreement to continue the installation.



Installing MT4 on Mac operating system

Installation of MT4 on Mac systems is a complicated process.

MetaQuotes has detailed instructions to install it manually here:

<https://www.mql5.com/en/articles/1356>

System Requirements

MT4 is a desktop application available only for Windows. While there are Linux installations, they require a lot of work to install and are not recommended.

System requirements for MT4 are low. The platform is designed to use very limited system resources.

Minimum requirements:

Operation system: Windows 7/10

Processor: 1.5 GHZ

RAM: 1 GB

Screen resolution: 1024x768

1.5 Mbps broadband internet connection

Recommended requirements:

Operation system: Windows 7/10

Processor: 2GHZ or higher

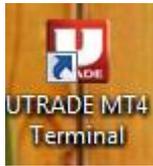
RAM: 2 GB or more

Screen resolution: 1280x1024 or higher

8 Mbps broadband internet connection

Launching MT4 and Initial Login

Upon successful installation, the UTRADE MT4 Terminal will appear on your desktop:



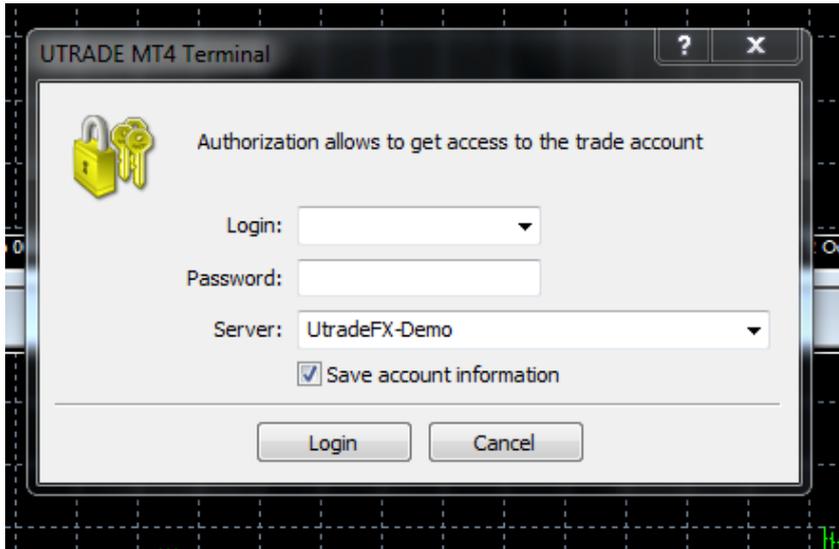
Double-clicking on the UTRADE MT4 Terminal icon will launch the MT4 trading platform.

The default MT4 platform layout is shown below when it is launched for the first time. The platform is only partially functional until logging into either a demo or live server.



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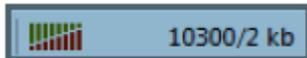
Once the application launches, you will be prompted to enter your login details and password.



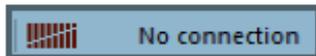
1. Enter the Login (username) and **Password**
2. Enter and select the correct server as follows:
DEMO SERVER: UtradeFX-Demo
LIVE SERVER: UtradeFX-Live
3. Click **Save account information** if needed.
WARNING: This option should not be used on public computers.
4. Click **Login**

Upon successful login, the platform will make a positive 'chime' sound effect.

On the bottom right of the platform, the **Connection Status** will be half red and half green and will show the transfer/connection speed (e.g. 10300/2 kb).



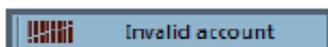
If the login is not successful, it will show **No connection** or **Invalid account**



If connection is fully red and shows **No connection**, please check the following:

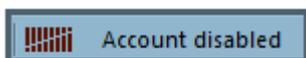
- Check your internet connection. If using Wi-Fi, please try reverting to a physical connection.
- Ensure you have selected the correct server.
- We may be performing maintenance.

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If connection is fully red and shows **Invalid account**, please check the following:

- Check that you have selected the correct server.
- Make sure each field is completely empty before you type your credentials.
- Ensure your login details are correct.
- Do not copy and paste the password. Always enter them MANUALLY.

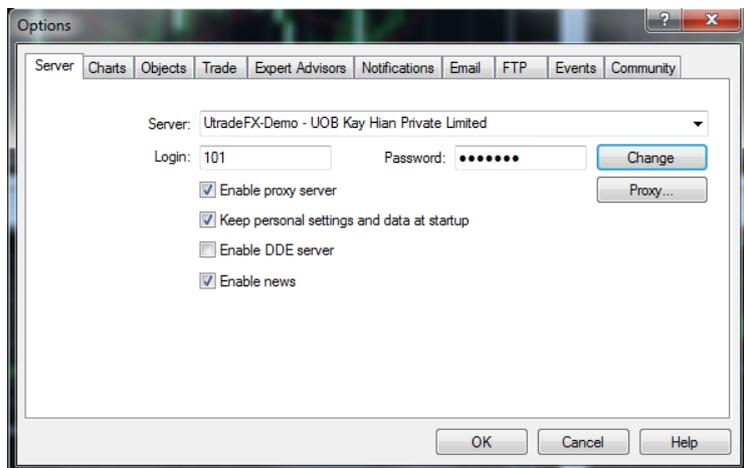


If connection is fully red and shows **Account disabled**, contact UOB Kay Hian Client Services for support at the following email: alternativeproducts@utrade.com.sg or call us at +65 6536 9338.

Changing Password

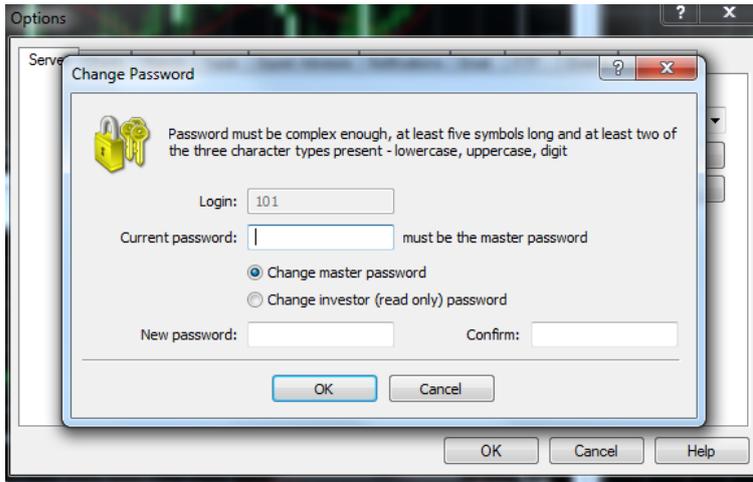
It is highly recommended that you change your password upon logging into the platform for the first time.

To change your password, go to **Tools > Options > Server tab > Change** button (next to the Password field).



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Enter the **Current password** first, then select the radio button **Change master password** and then enter your preferred password.



Setting an Investor Password

This allows a client to set a view-only password on their MT4 account. They can then give this password (along with their login/username) to third parties so that they can login and view the account **but not trade**.

To set the investor password, go to **Tools > Options > Server tab > Change** button (next to the password field). Enter the **Current password** first, then select the radio button **Change investor (read only) password** and then enter the preferred password.

Forgot your Password?

If you have forgotten your password, kindly email our Client Services at the following email: alternativeproducts@utrade.com.sg or call us at +65 6536 9338 to reset your password.

MT4 on iPhone and Android

Please download the "MetaTrader 4" app from the App Store or Play Store and select the UTRADE FX server.

MT4 PLATFORM OVERVIEW

The MT4 platform is relatively intuitive and easy to use and navigate. A right-click on any part of the platform will bring up sub-menus for you to perform most trading functions where needed.

The following are main areas of the MT4 platform:

Main Menu



The main menu of the terminal is located under the program heading and represents a set of sub-menus.

File: Working with charts, storing of historical data and profiles, and print.

View: Setting toolbar, managing command windows ("Market Watch", "Data Window", "Navigator", "Terminal", "Tester") and the program interface language.

Insert: Managing technical indicators, line studies, and other objects.

Charts: Setting of bars display, scale, managing imposed objects, presence of grid, chart properties.

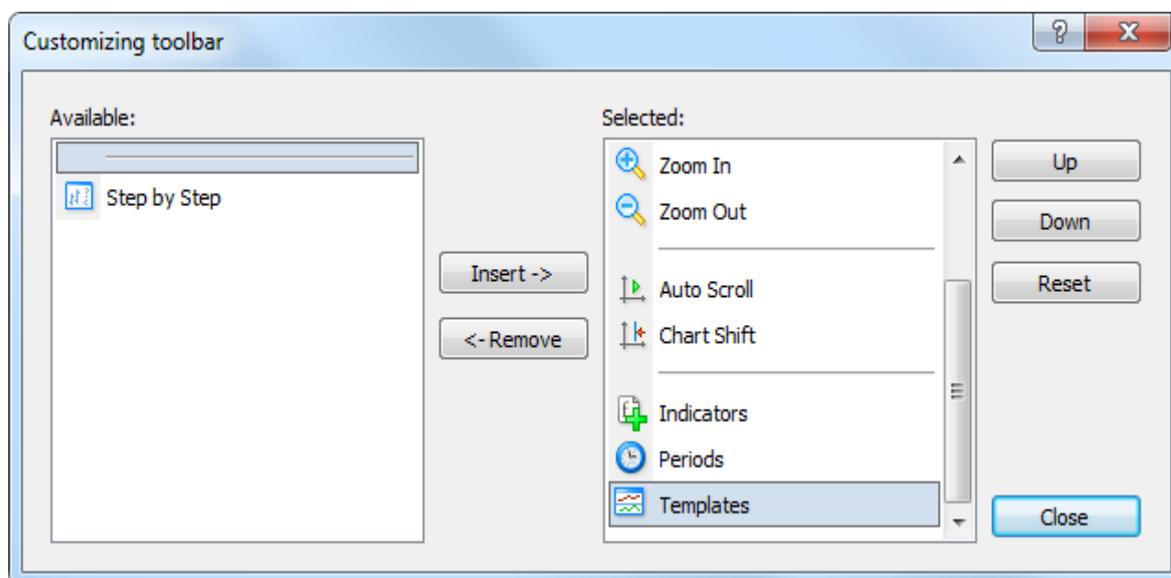
Tools: General settings of the client terminal, History Center, global variables, and MetaEditor (MetaQuotes Language 4 editor).

Window: The list of open charts and their locations.

Help: User guide and information about the program.

Toolbars

There are four toolbars built into the terminal. The main commands used in the terminal are duplicated in the toolbars in form of buttons. Normally, the toolbars are placed under the main menu, but they can easily be moved into any program window area. Toolbars can be shown or hidden by the ["View — Toolbars" menu](#) command. All toolbars are customizable, and allow you to place only necessary, often used commands in them. To set up a toolbar, you have to open its context menu (right mouse-button click) and execute the "Customize..." command.



All commands are grouped in toolbars according to their functions:

- Standard — managing general commands of the terminal;
- Charts — commands for managing charts;
- Line Studies — managing objects to be imposed onto charts;
- Timeframes — managing the chart timeframes.

Market Watch

The securities (symbols) for which the Client Terminal gets quotes from the server are listed in the "Market Watch" window.

Symbol	Bid	Ask
USDCHF	0.89235	0.89244
GBPUSD	1.67161	1.67170
EURUSD	1.36939	1.36945
USDJPY	101.894	101.901
USDCAD	1.09604	1.09611
AUDUSD	0.90305	0.90316
EURGBP	0.81916	0.81926
EURAUD	1.51625	1.51645
EURCHF	1.22201	1.22211
EURJPY	139.535	139.546
GBPCHF	1.49167	1.49195
CADJPY	92.959	92.971

The data is represented in this window as a table having several fields. The "Symbol" field contains the security name, the fields of "Bid", "Ask", and "Time" show the corresponding prices and time of their update from the server. Values of the "Maximum" and "Minimum" fields are calculated on basis of price changes within a day. The "Market Watch" window can be opened/closed by pressing the keys Ctrl+M, by the "View — Market Watch" menu command, or by pressing of the  button of the "Standard" toolbar.

This window allows you to place market and pending orders and open new charts. Upon the right mouse button click in the "Market Watch" window, the context menu will appear where the following commands are available:

- New Order** — open the "New Order" window where one can prepare and place a market or a pending order for the symbol selected. At the order preparation stage, one can specify the Stop Loss and Take Profit levels. The "New Order" window can also be opened by double clicking on the security name in the "Market Watch" window, by the "Tools — New Order" menu command, by the "Terminal — Trade — New Order" window context menu command, the  button of the "Standard" toolbar, or by pressing of F9;

- Chart Window** — open the chart of the symbol selected. The symbol chart can also be opened by the "File — New Chart" and "Window — New Window" menu commands and by pressing of the  button of the "Standard" toolbar;

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•**Tick Chart** — open the tick chart of the symbol selected. Unlike normal charts, the tick chart is located directly in the "Market Watch" window. The tick chart of the selected symbol can also be viewed by switching to the tab of the same name in the same window. The tick data loads only when the account is connected. Thus, if an account has not been active for a certain period of time, the tick chart may appear empty in the beginning. The tick data is stored separately for each server;

•**Depth Of Market** — open the depth of market of the symbol selected;

•**Specification** — open symbol parameters;

•**Hide** — delete (hide) the symbol from the list. To minimize traffic, it is recommended to hide unused securities from the quotes window by this command or by pressing the Delete button.

Attention: If there are open positions or pending orders for the symbol, or its chart is open, the symbol cannot be deleted.

•**Hide All** — delete all symbols from the list. This command does not apply to securities for which there are open positions or the charts of which were opened in the current working session;

•**Show All** — show the list of all available securities. After this command has been executed, quotes will load for all these symbols;

•**Symbols** — call the window of the same name where there is a list of all available symbols. Symbols are grouped in the window according to their types. The "Show Symbol" command allows you to add necessary symbols to the quotes window, and that of "Hide Symbol" — to delete a symbol from it. The "Properties" window command allows you to view the symbol parameters;

•**Sets** — open the sub-menu that manages the symbol sets. The current set of symbols can be stored in this sub-menu, as well as delete or select an existing one. This is very convenient when working with securities of different types;

•**Spread** — show/hide column that displays spread — the difference between the bid and ask prices;

•**High/Low** — add the highest and the lowest values of the daily price to the quotes displayed;

•**Time** — show time of incoming quotes;

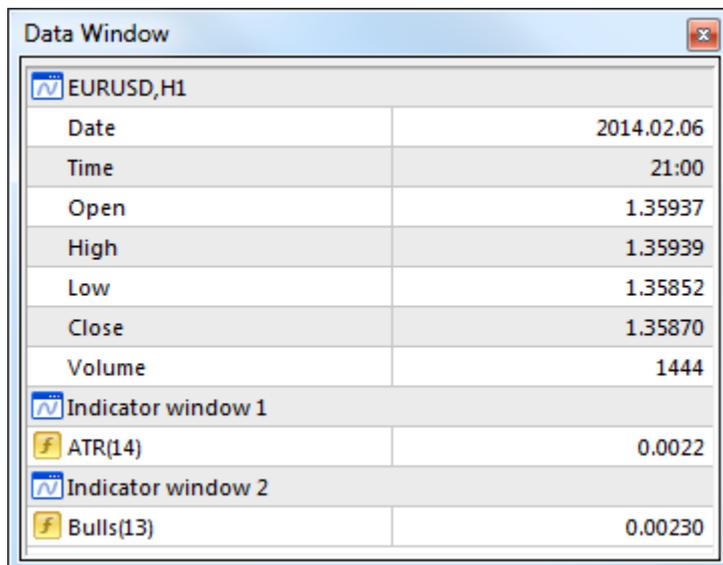
•**Auto Arrange** — automatic arrangement of columns when changing the window size. Auto Arrange can also be enabled by pressing the A button;

•**Grid** — show/hide the grid separating columns. The grid can also be shown by pressing the G button;

•**Popup Prices** — open an additional quotes window. You can also open this window by pressing F10 on your keyboard. The list of symbols in this window is the same as that in the "Market Watch" window at the moment of the command execution. This means that changes in the symbol list in the "Market Watch" window does not influence that in the "Popup Prices". It is an information window, but trading operations can also be performed from it. To do so, you have to double-click with the left mouse button on the desired security. In the context menu of this window, there are commands allowing you to set up data displaying parameters, enable the full screen mode, or place the window over all others.

Data Window

This window is intended for displaying of price information (OHLC), date and time of the bar, and the indicators (including custom ones) used. "Data Window" is an information window and it does not allow you to perform any actions. The desired information about a certain bar and the imposed indicators can be obtained here promptly. To do so, it is sufficient to place the cursor over the necessary bar.



Data Window	
EURUSD, H1	
Date	2014.02.06
Time	21:00
Open	1.35937
High	1.35939
Low	1.35852
Close	1.35870
Volume	1444
Indicator window 1	
ATR(14)	0.0022
Indicator window 2	
Bulls(13)	0.00230

Context menu commands of this window allow:

Copy — copy data from this window into the clipboard for further use in other applications. The same action can be performed by pressing of accelerating keys of Ctrl+C;

Last Data — show/hide the latest data column. An additional column containing the last bar data will appear in the window;

Auto Arrange — set up the column size automatically when the window size changes;

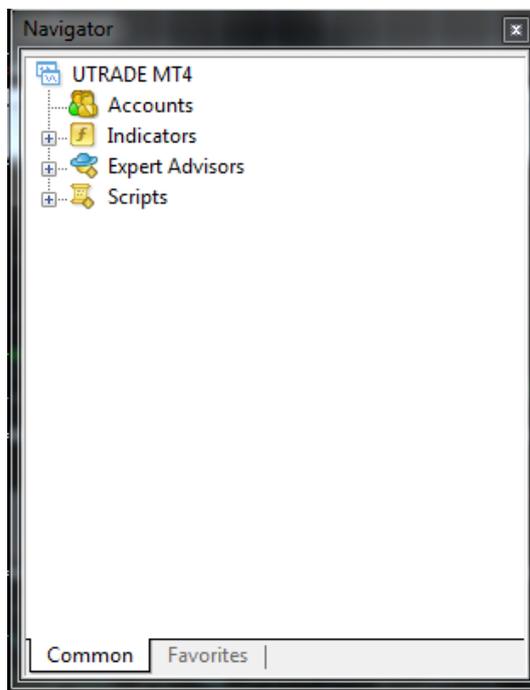
Grid — show/hide grid to separate columns;

Show — show/hide information fields. Any of the bar prices (OHLC), date or volume can be selected in the sub-menu that appears. If the element has not been checked, it will not be shown.

Navigator

The navigator panel is essentially a panel that allows quick access to certain features of the platform, such as the ability to switch between accounts, add indicators & custom indicators to a chart, manage EA's and scripts.

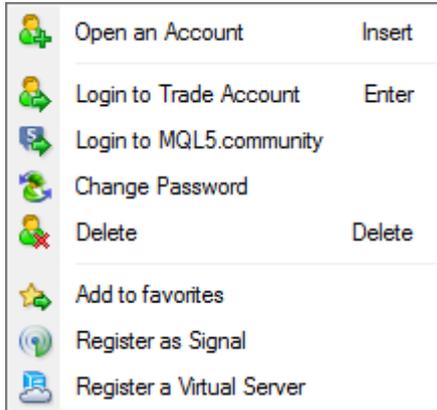
This window can be opened/closed by pressing accelerating keys of Ctrl+N, by the "View — Navigator" menu command, or by pressing the  button of the "Standard" toolbar.



This panel can be customized by adding favorites to the Favorites tab. Right-click on an item in the Navigator panel (for example an indicator) and then click Add to Favorites.

Accounts

The "Accounts" group includes the list of open accounts. Using a context menu, you can open a new demo account or delete the old one.



•**Open an Account** — An unlimited amount of demo accounts can be opened via the terminal. To do so, you have to execute the "Open an Account" context menu command or press the Insert button. More details about opening of accounts can be found in the corresponding section.

•**Login to Trade Account** — to authorize an existing account (whether a demo or a real one), you have to execute the "Login to Trade Account" command or double-click with the left mouse button on the desired account line.

•**Login to Web Terminal** — the web terminal allows trading on financial markets and conducting technical analysis by using a web browser. The web platform is safe to use - any transmitted information is securely encrypted.

- At the moment, the web terminal is under testing and not all of its planned features are available.
- Web trading is available at MQL5.community in the "Trading" section.

•**Login to MQL5.community** — open the settings of the trading platform to login to MQL5.community and get additional services.

•**Change Password** — change the password of the trade account.

•**Delete** — delete a selected account. The same action can be performed by pressing the Delete key.

•**Add to Favourites** — add the selected account to favourites.

•**Register as Signal** — register a selected account in the "Signals" service. After executing this command, you will be led to the signal registration page at MQL5.community. The selected account and the right UOBKH server will automatically be specified in the registration form.

•**Register a virtual server** — this command allows you to allocate a virtual server for the terminal's continuous round-the-clock operation. Unlike renting ordinary VDS or VPS from third-party companies, you are able to select the server that is the closest to UOBKH minimizing the network latency when sending orders from the terminal to the trade server.

Attention: Real accounts cannot be started from the terminal, they can only be opened by UOBKH.

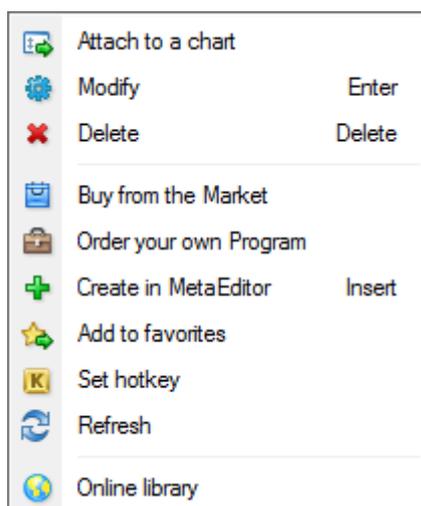
Indicators

This group contains indicators — the main tools for analysing the price dynamics:

- Built-in technical indicators divided into four categories: Trend, Oscillators, Volumes, Bill Williams.
- Indicators downloaded from the source code library at MQL5.community. Displayed in the Downloads sub-category.
- Indicators purchased from the Market — the store of applications for the trading platform. Displayed in the Market sub-category.
- Built-in examples of indicators with the source codes. Displayed in the Examples sub-category.
- Custom indicators located in /MQL4/Indicators folder; displayed according to the structure of sub-folders they are stored in.

The Navigator shows executable indicator files (*.EX4) only.

If the diamond in the lower right corner of a program icon is gray (for example, ) , it means that the program does not have the source code files or that they cannot be compiled.



The following commands can be executed in the context menu:

- **Attach to Chart** — apply a selected indicator to the active chart. The same action can be performed by a double click on the indicator. You can also apply an analytical tool to any chart or a subwindow of already attached indicator by using the Drag'n'Drop method.
- **Modify** — open the source code file (*.MQ4) of a selected indicator in MetaEditor. The same action can be performed by selecting an indicator and pressing the Enter key.
- **Delete** — delete a selected custom indicator. This action deletes both its executable file (*.EX4) and its source code file (*.MQ4). The same action can be performed by clicking the Delete key.
- **Buy from the Market** — go to the Market — the store of applications for the trading platform.
- **Order your own Program** — place an order for the development of an MQL4 program at the "Freelance" service at MQL5.community.
- **Create in MetaEditor** — create a custom indicator. The execution of this command opens MQL4 Wizard in MetaEditor where an indicator can be created. The same action can be performed by clicking the Insert key.
- **Add to Favorites** — add a selected indicator to favorites.
- **Set hotkey** — assign a hotkey to the selected indicator.
- **Refresh** — retrieve information about existing compiled indicators from the hard disk. The execution of this command is necessary when copying already compiled files to the corresponding folder of the client terminal.
- **Online library** — go to the "Code Base" section, where you can easily download programs published in the corresponding section of the MQL5.community website.

Expert Advisor

The "Expert Advisors" group contains the list of all available expert advisors. Expert Advisors in the terminal are programs allowing you to automate analytical and trading activities. To create and modify them, the built-in editor, MetaEditor, is used. More details about creation and working with experts can be found in the "Auto Trading" section.

The "Create" context menu command allows you to create a new expert, "Modify" — to modify an existing one, and "Delete" — to delete an expert from the terminal. The "Attach to a Chart" command or double-click with the left mouse button allows you to impose the expert onto the active chart. Thereafter, when a new tick loads, the expert will start working. Experts can be imposed onto any chart with the "Drag'n'Drop" technique.

Terminal

"Terminal" is a multifunctional window granting you access to various terminal features. This window gives you control over trading activities, view news and account history, set up alerts, and work with the internal mail and system journal. The window can be opened by the "View — Terminals" menu command, by pressing of accelerating keys of Ctrl+T, or the  button of the "Standard" toolbar. There are 10 tabs in the window:

Order /	Time	Type	Size
322	2016.02.01 13:46:00	buy	0.50
Balance: 90 914.63 USD Equity: 91 073.63 Free margin: 90 914.63			

Terminal

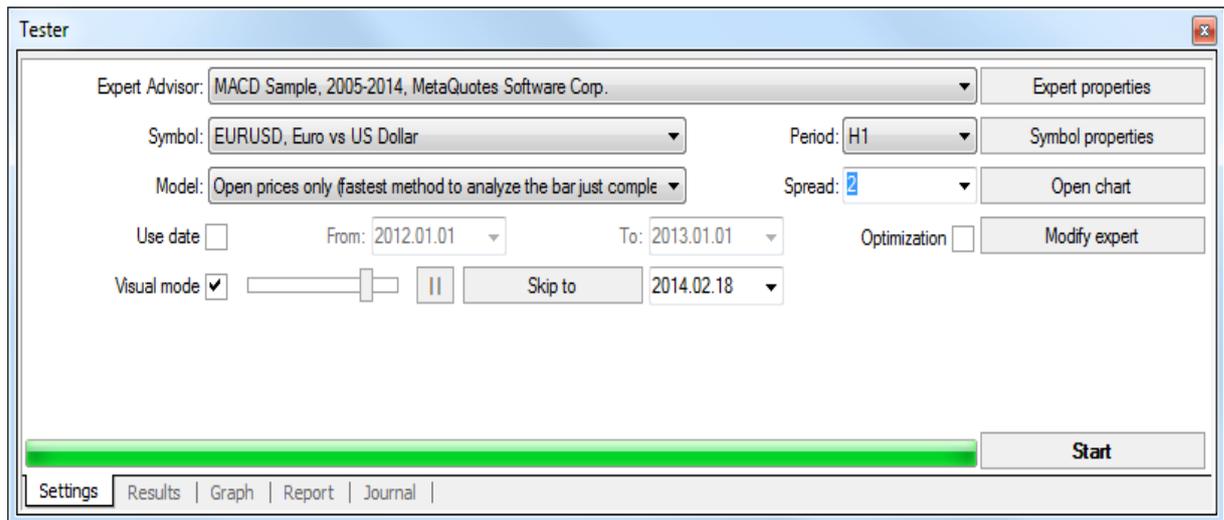
Trade | Exposure | Account History | News | Alerts | Mailbox₉ | Market | Code Base | Experts | Journal |

- **Trade:** Shows account balances, open trades, pending orders and running P&L.
- **Exposure:** Shows the summary information about the state of your assets for all open positions.
- **Account History:** Shows a comprehensive list of past trading activity such as deposits/withdrawals and closed trades. It does not take into account current open positions.
- **Alerts:** Create and manage alerts.
- **Mailbox:** A messaging inbox through which clients receive incoming and outgoing messages.
- **Market:** Marketplace to purchase new indicators, EA's and more.
- **Code Base:** This tab allows you to access the code base published at MQL4.community right from the client terminal. By selecting a necessary [MQL4 application](#) at this tab, you can download it and attach to the chart right away.
- **Experts:** This tab contains the entire information about the attached expert, including opening/closing of positions, modifying of orders, the expert's own messages, etc.
- **Journal:** This tab contains information about the stated actions of the trader and the client terminal within the current session.

Tester

"Tester" is a multifunctional window that allows you to test strategies and optimize parameters of expert advisors. When being tested, the expert is passed through the modelled data allowing it to estimate its profitability and effectiveness. For optimization purposes, the mechanical trading system is passed many times in order to find such parameters of the expert at which its profitability is the highest.

The window can be called by the "View — Strategy Tester" menu command, by pressing of accelerating keys of Ctrl+R, or the  button of the "Standard" toolbar.



There are several tabs in this window:

- **Settings** — settings for testing and optimization. The parameters of expert advisors, period to be tested, the method of bars modelling, and many other things, can be set up in this tab;
- **Results** — the results of trade operations performed by the expert, as well as the direction of balance changes;
- **Graph** — display of testing results in a graph;
- **Report** — the detailed testing report. Many indications of testing and effectiveness of experts can be found here: the amount of bars modelled, the total profit, the most profitable and unprofitable positions, the amount of profit and loss trades, etc.;
- **Journal** — a log where all actions and internal messages of the expert are recorded;
- **Optimization Results** — information about every pass, including inputs, profitability, drawdowns, and other data;
- **Optimization Graph** — the results of expert optimization as a graph. Besides each pass profitability, the amount of profit and loss trades is also displayed in the graph.

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As in the "Terminal" window, some tabs of the "Tester" window are hidden if they are empty. So, initially, only the tabs of "Settings" and "Journal" can be seen in this window. The tabs of "Results", "Graph", and "Report", will only appear after an expert has been tested. After it has also been optimized, the tabs of "Optimization Results" and "Optimization Graph" will appear. More detailed information about testing experts can be found in the section of the same name.

Charts

A focal point of the platform, covered in detail in a later section. However, an important thing to note with charts is the fact that a lot of functions in MT4 will occur on the **active** chart only. For example, if you press the +New Order button on the Standard toolbar, the market/symbol on the order window will be selected based on the active chart.

The active chart is the chart that is 'selected'. If you have multiple charts open, you can select one to make it the active chart. The window frame is highlighted as per standard Windows functionality.

A chart shows the price changes for a security with time. Charts are necessary for performing technical analysis, working of expert advisors and testing thereof. Up to ninety-nine charts can be opened in the terminal at the same time.

The client terminal allows you to:

- open up to 99 charts simultaneously;
- set up their representation form and information shown;
- print charts;
- impose and delete various objects and indicators;
- recover deleted charts;
- use chart templates.

USING CHARTS

Opening charts



A new chart can be opened by executing the "File — New Chart" menu command, "Window — New Window" menu command, or by pressing of the  button of the "Standard" toolbar. The list of securities available will appear when performing any of the above actions. Having selected the necessary symbol from this list, you can open its chart. New charts can also be opened from the "Market Watch" window, holding Ctrl and dragging the element of the list (the symbol) from the window into any point of the workspace of the terminal, or having executed the "Chart Window" command of the context menu. All new charts are opened with the DEFAULT.TPL template created during the terminal installation. This template cannot be deleted, but it can be modified.

Historical data used for drawing of charts are stored on the hard disk. When opening a chart, the data is downloaded from the disk and the last missing data is spooled from the trading server. If there is no historical data for the symbol on the hard disk, the last 512 bars of history will be downloaded. To spool earlier data, you have to move the chart to the desired area. After the chart has been opened, information about current quotes starts to load onto the terminal. Thus, further price changes will be shown in the real-time mode. This information will be stored in the history file and is used at the reopening of this chart in future.

Navigating around the chart

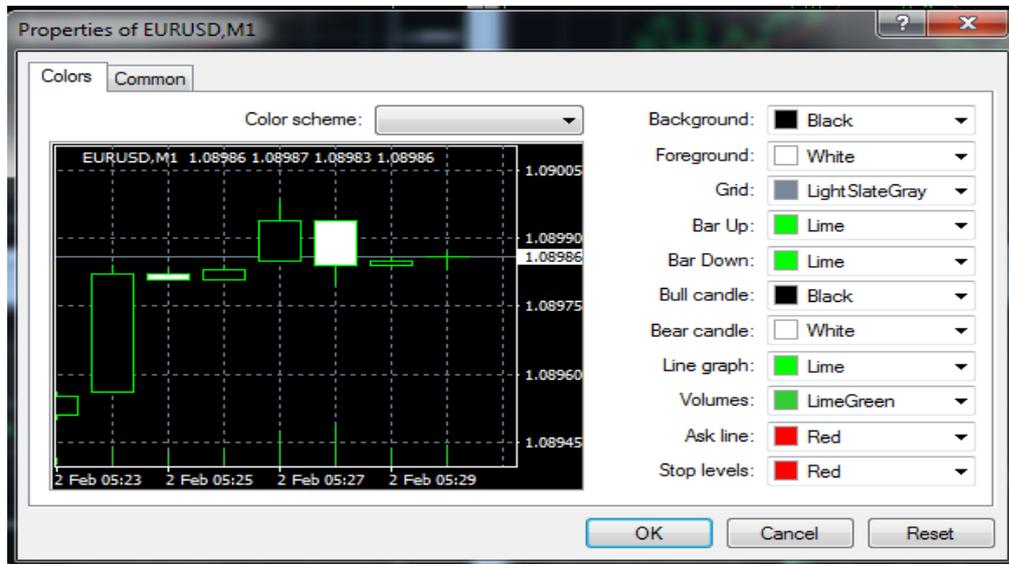
Navigating around the chart will take some getting used to if you're familiar with ITF/IG charts. This is because the mouse scroll wheel is used to move back and forward in time, rather than zoom. Also, the chart is automatically scaled so that all data is kept within view (this can be changed in Tools > Options).

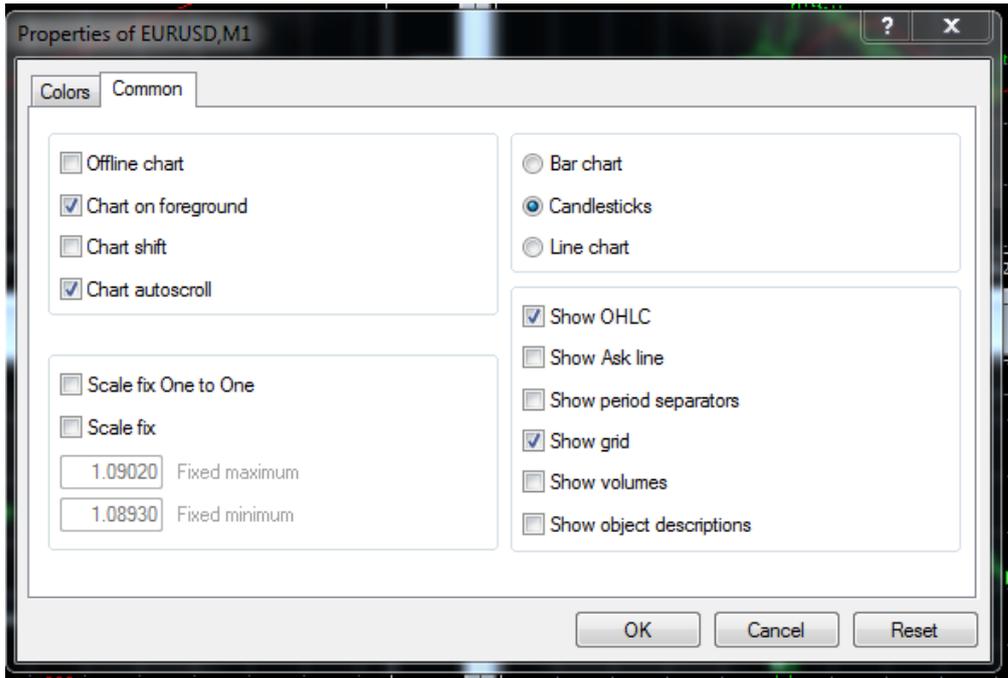
You can also click and drag the chart around to view it. There are also several ways to zoom, but the two easiest ways are using the zoom buttons at the top of the chart, or the + and – keys on the keyboard.

Chart setup

Appearance and properties of each chart in the terminal can be set up individually. To do so, you have to execute the "Charts — Properties..." menu command, the chart context menu command of the same name, or press F8. These actions will open the "Properties" window that can be used for setting the colour of various elements of the chart (the "Colors") tab:

- **Background** — chart background colour;
- **Foreground** — colour of axes, scales, OHLC line;
- **Grid** — chart grid colour;
- **Bar Up** — bar up, shades and fringing of the Bull Candle body;
- **Bar Down** — bar down, shades and fringing of the Bear Candle body;
- **Bull candle** — colour of the Bull Candle body;
- **Bear candle** — colour of the Bear Candle body;
- **Line graph** — line chart and doji;
- **Volumes** — volumes and levels of open positions;
- **Ask line** — colour of the Ask line;
- **Stop levels** — levels of stop orders (Stop Loss and Take Profit)





The changes made are automatically shown in the left part of the window in the preview chart. Apart from the manual setting of various colour elements of the chart, one can choose pre-defined colour diagrams in the field of the same name. There are three colour diagrams available in the terminal: "Yellow on Black", "Green on Black", and "Black on White". After a colour diagram has been chosen, the chart elements described above will change in the chart in the left part of the window. Custom colour diagrams can be stored in templates.

Other chart settings can be defined in this window as well. To do so, you have to switch to the "Common" tab and select the desired options:

- **Offline chart** — turn the chart offline. This option stops receiving and drawing of price data for the given chart. In future, after this option is disabled, price data will be drawn in the chart again. After the chart has been opened offline, (the "File — Open offline" menu command), this option will be enabled automatically.
- **Chart on foreground** — place the chart in the "foreground". If this function is enabled, all analytical objects will be placed "under" the price chart. This command is the same as that of "Charts — Foreground chart".
- **Chart shift** — shift the chart from the right border of the window to the shift mark. The chart shift mark (a gray triangle in the upper part of the window) can be moved with the mouse horizontally within 10 to 50% of the window size. This option can also be enabled with the  button of the "Charts" toolbar or by the "Charts — Chart Shift" menu command.
- **Chart autoscroll** — allow/forbid the shifting of the chart to the left automatically after the new bar has started to form. If this option is enabled, the latest bar will always be shown in the chart. This option can also be enabled by the  button of the "Charts" toolbar and by the "Charts — Auto Scroll" menu command.

•**Scale fix One to One** — fix the chart scale as "one to one" (the size of one pip of the vertical axis in pixels is equal to the distance between the bars axes in pixels). The "Scale fix" option will be enabled automatically, and a scroll bar will appear at the right side of the window that allows you to move the chart vertically. This mode is necessary for precise constructions.

•**Scale fix** — fix the current chart scale. If the scale has not been fixed, the chart will be automatically scaled vertically. This option disables automatic scaling and fixes the current scale. When this option is selected, the fields of additional scaling parameters "Fixed maximum" and "Fixed minimum" are activated.

•**Bar chart** — display the chart as a sequence of bars. This action can also be performed with the  button of the "Charts" toolbar, by the "Charts — Bar Chart" menu command or by pressing of accelerating keys of Alt+1.

•**Candlesticks** — display the chart as a sequence of candlesticks. This action can also be performed with the  button of the "Charts" toolbar, by the "Charts — Candlesticks" menu command, or by pressing of accelerating keys of Alt+2.

•**Line chart** — display the chart as a broken line that connects the points of bar close prices. This action can also be performed by the  button of the "Charts" toolbar, by the "Charts — Line Chart" menu command, or by pressing of accelerating keys of Alt+3.

•**Show OHLC** — show/hide the OHLC line. If this action is done, an additional data line will appear in the upper left part of the window. Apart from symbol name and chart period, the latest bar prices are also listed in it. Prices are recorded in the following format: OPEN, HIGH, LOW and CLOSE (OHLC) — bar open price, the highest bar price, the lowest bar price, and bar close price, respectively. Thus, the precise value of the latest bar can always be seen. This option influences the data line of sub-windows of indicators, as well.

•**Show Ask line** — show/hide Ask price level of the latest quote. Bars are drawn and shown only on Bid prices in the terminal. However, at opening of long positions and closing of the short ones, the Ask price is always used. It is not shown in the chart by default, so it cannot be seen. To control one's trading activities more precisely, one can enable the "Show Ask line" parameter. After this command has been executed, an additional horizontal line will appear in the chart which would correspond with the Ask line of the latest bar.

•**Show period separators** — show/hide period separators. Date and time of each bar are displayed on the horizontal axis of the chart. The horizontal scale interval is the selected timeframe. The "Show period separators" option draws additional vertical lines in the chart that correspond with the larger period (timeframe) borders. Hence, daily separators will be drawn for charts with periods of M1 to H1, weekly ones — for H4, monthly ones — for D1, and yearly ones — for W1 and MN1.

•**Show grid** — show/hide grid in the chart window. The same actions can be performed by the chart context menu and "Charts" menu command of the same name, as well as by pressing of accelerating keys of Ctrl+G.

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•**Show volumes** — show/hide the volume chart in the lower part of the window. This option does not function when the scale is fixed. The same actions can be performed by the chart context menu and "Charts" menu command of the same name, as well as by pressing of accelerating keys of Ctrl+L.

•**Show object descriptions** — show/hide object descriptions in the chart. If this option is enabled and there are available descriptions of objects imposed onto the chart, they will be shown directly in the chart.

Chart data

MT4 charts the **bid**-price, NOT the mid-price. Hence, candles are formed using the bid-price. You can right-click on a chart and select Properties to also show a horizontal dynamic Ask Line.

Chart Management

Charts allow you to analyze price changes in the market and are used for graphical analysis, building of various indicators and line studies. Charts are a very valuable instrument for analyzing financial markets, which is why great attention is paid to them. Chart management refers to:

•Chart Type

A chart can be of three types:

•**Bar Chart** — the sequence of bars.

To enable a chart of this type, you have to press the  button of the "Charts" toolbar, accelerating keys of Alt + 1, the corresponding option of the Charts Setup window, or execute the "Charts — Bar Chart" menu command.

•**Candlesticks** — the sequence of candlesticks.

To enable a chart of this type, you have to press the  button of the "Charts" toolbar, accelerating keys of Alt + 2, the corresponding option of the Charts Setup window, or execute the "Charts — Candlesticks" menu command.

•**Line Chart** — a broken line connecting the bar close prices.

To enable a chart of this type, you have to press the  button of the "Charts" toolbar, accelerating keys of Alt + 3, the corresponding option of the Charts Setup window, or execute the "Charts — Line Chart" menu command.

•Saving

The client terminal allows you to save historical data of the active chart as a text file in formats of "CSV", "PRN", and "HTM".

To save them in one of these ways, you have to execute the "File— Save As" menu command or press accelerating keys of Ctrl + S. The chart can also be saved as a picture in BMP or GIF format. To do so, you have to execute the "File—Save As Picture..." menu command. The same actions can be performed with the chart context menu command of the same name.

•Print

To print the active chart in colour, you have to flag "Color print" in the chart settings, then execute the "File — Print..." menu command, the chart context menu command of the same name, press the  button of the "Standard" toolbar or accelerating keys of Ctrl+P. If "Color Print" is disabled, or there is no colour printer available, the chart will be printed in black and white.

•Full Screen

Execution of the "View — Full Screen" menu command or pressing of F11 will switch the chart to the full screen mode. Only chart windows, main menu and chart switching bar will remain in the display. One can return to the initial mode using the same command.

•Attaching of MQL4 Programs

Before MQL4 starts to execute, it must be attached to the chart. To do so, you have to select the desired MQL4 program in the "Navigator" window and double-click on it or execute the "Attach to a chart" command of the context menu. The "Drag'n'Drop" technique can be used as well.

•Working with Indicators

An indicator is a mathematical manipulation with price and/or volume of a security in order to forecast future price changes. Decisions about how and when to open or close a position are made on basis of signals from technical indicators. Indicators can be imposed onto a chart by the "Insert — Indicators" menu command or those of the

indicators managing sub-menu that can be opened by pressing of the  button of the "Charts" toolbar. The "Drag'n'Drop" technique allows you to impose indicators from the "Navigator" window onto any open window as well. The list of indicators imposed onto the chart can be viewed in the "Data Window" by executing the "Charts — Indicators List" menu command, the chart context menu command of the same name, or by pressing accelerating keys of Ctrl+I.

More details about working with technical indicators can be found in the section of the same name.

•Working with Objects

To analyze the market, one can impose various graphical objects onto the chart. To do so, you have to use the "Insert" menu command or buttons of the "Line Studies" toolbar. Line studies, geometrical shapes, signs, and texts are grouped in the menu. More details can be found in the "Graphical Objects" section.

•Period Change

The client terminal allows you to use nine different data periods, from a minute to a month. This variety of periods is necessary for analyzing the market with technical indicators and line studies.

The desired period of the chart can be chosen with help of the "Period" toolbar, the  button of the "Charts" toolbar, the "Charts — Period" menu, or by executing the chart context menu command.

•Zooming

Charts can be zoomed horizontally, increasing or decreasing thereby the amount of bars shown in the screen simultaneously.

To do so, one can use the buttons of   of the "Charts" toolbar, keys of "+" / "-", the commands of "Zoom In" / "Zoom Out" of the chart context menu and of the "Charts" menu.

To zoom out a chart vertically, one can hold any point of the vertical axis with the left mouse button and move it down. Double click on the vertical axis or press "5" in the keypad to restore the scale.

The chart can also be zoomed precisely by defining the upper and lower borders in the Charts Setup window with the "Scale fix" option. The "Scale fix One to One" option of the same window allows you to set the "one-to-one", i.e., one pip of vertical axis will correspond with one bar of the horizontal one.

•Scrolling, Auto Scrolling, and Shifting of the Chart

Scrolling is moving of price data to the right/left in the chart that can be performed by the cursor keys of the keyboard. The chart can also be scrolled with F12 (the "Step by Step" mode — scrolling the chart by one bar to the left) or Shift+F12 (scrolling the chart by one bar to the right), or with the mouse: one moves the cursor to the right/left when holding the left mouse button pressed on any point of the chart. Using the fast navigation box, you can show the necessary area of the chart having specified the date and time. If the chart has been scrolled to the area where there is no price data, the missing bars will be downloaded automatically.

If the chart scale has been fixed, it can be scrolled vertically, as well. To do so, you have to move the mouse up/down while holding the slider on the vertical scale. To get the chart back into the visible range, you have to press "5" in the keypad or double-click in the area of the chart price scale.

Auto scroll is intended for users to have the latest bars before their eyes constantly. If this option is enabled, the chart will be automatically scrolled to its end part. This function can be enabled by pressing of the  button of the "Charts" toolbar or by the "Charts — Auto Scroll" menu command.

The "Chart Shift" option shifts the latest bar from the right screen border to the chart shift mark. The chart shift mark (a gray triangle in the upper part of the window) can be moved horizontally with the mouse within 10 to 50% of the window size. The chart shift can be enabled by the  button of the "Charts" toolbar or by the "Charts — Chart Shift" menu command.

•Chart Positioning

Normally, the chart datum point is located in the left part of the window. The specific time bar is anchored to it so it can be moved through scrolling or with the use of the fast navigation box. When a timeframe is changed, there will be an attempt to calculate the new anchoring bar corresponding with that of the previously used timeframe, i.e., the timeframe that is the nearest to this given point will be shown on the left side of the window. The datum point (a gray triangle at the lower border of the chart) can be moved within the chart window using the mouse. It appears only if the "Auto Scroll" is disabled. This mechanism is convenient when analyzing a certain period of time for different timeframes.

Attention: Positioning does not work if the "Auto Scroll" option is enabled.

•Working with Templates

Templates refer to the chart window parameters stored in the memory. The following parameters are saved in a template: chart type, period, scale, all settings of line studies, technical and custom indicators, and experts. Templates allow you to unify the appearance of many charts easily and fast.

The menu that manages templates can be called by the "Charts — Template" menu command, the chart context menu command of the same name and the  button of the "Charts" toolbar. The "Save Template..." menu command allows you to store a new template, and that of "Remove Template" allows you to delete an existing one. More details can be found in the "Templates and Profiles" section.

•Working with Profiles

Profiles present a convenient way of working with chart groups. At the opening of a profile, each chart with all its settings will be found in the same condition as when the profile was stored.

The menu that manages profiles can be opened by the "File — Profiles" menu

command, by pressing of the  button of the "Standard" toolbar, or by clicking with the mouse in the status bar containing the name of the current profile.

More details can be found in the "Templates and Profiles" section.

•Data Updating

Data must be updated if any errors or "holes" occur in the price chart. In order to update the price data, you have to execute the "Charts — Refresh" menu command or the chart context menu command of the same name. After all these actions have been performed, the missing bars will be downloaded from the server automatically and drawn in the chart.

TRADING WITH MT4 PLATFORM

The fundamental and simple rule of profitable trading in the financial markets is to buy cheaper and sell dearer. Thus, trading activities in the financial markets boil down to the successive operations performed to sell or buy securities. To do so, you have to open, modify, and close trade positions. Trade position is a market commitment (order) to the number of bought or sold contracts for which no set-off transactions have been made. Trading in the terminal is implemented through trade positions.

Order Types

The client terminal allows you to prepare requests to UOBKH for execution of trading operations. Moreover, the terminal allows you to manage open positions. For these purposes, several types of trading orders are used. An order is a client's commitment to UOBKH to perform a trade operation. The following orders are used in the terminal: Market order, Pending order, Stop Loss and Take Profit.

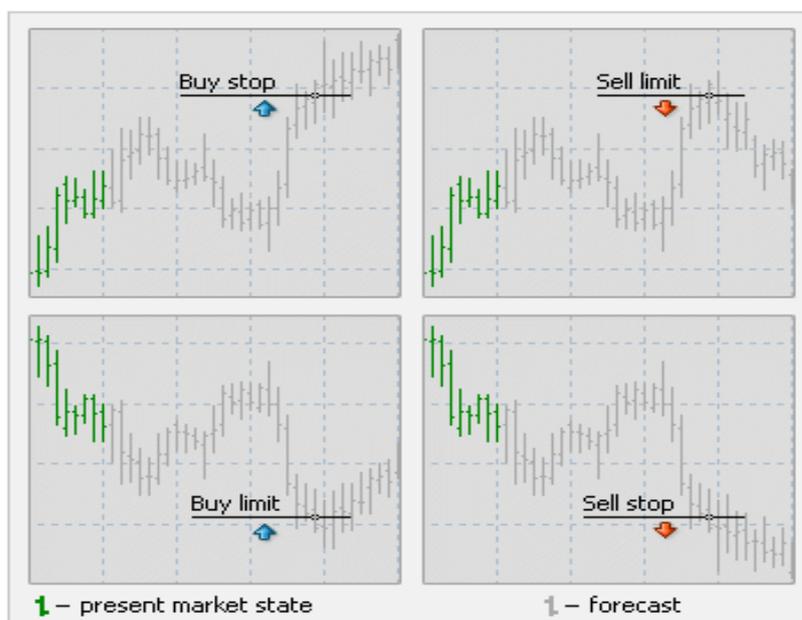
Market Order

Market order is a commitment to UOBKH to buy or sell a security at the current price. Execution of this order results in the opening of a trade position. Securities are bought at ASK price and sold at BID price. Stop Loss and Take Profit orders (described below) can be attached to a market order. [Execution mode](#) of market orders depends on the security traded.

Pending Order

A pending order is the client's commitment to UOBKH to buy or sell a security at a pre-defined price in the future. This type of orders is used for opening of a trade position provided the future quotes reach the pre-defined level. There are four types of pending orders available in the terminal:

- **Buy Limit** — buy provided the future "ASK" price is equal to the pre-defined value. The current price level is higher than the value of the placed order. Orders of this type are usually placed in anticipation that the security price, having fallen to a certain level, will increase;
- **Buy Stop** — buy provided the future "ASK" price is equal to the pre-defined value. The current price level is lower than the value of the placed order. Orders of this type are usually placed in anticipation that the security price, having reached a certain level, will keep on increasing;
- **Sell Limit** — sell provided the future "BID" price is equal to the pre-defined value. The current price level is lower than the value of the placed order. Orders of this type are usually placed in anticipation that the security price, having increased to a certain level, will fall;
- **Sell Stop** — sell provided the future "BID" price is equal to the pre-defined value. The current price level is higher than the value of the placed order. Orders of this type are usually placed in anticipation that the security price, having reached a certain level, will keep on falling.



Orders of Stop Loss and Take Profit can be attached to a pending order. After a pending order has triggered, its Stop Loss and Take Profit levels will be attached to the open position automatically.

Stop Loss

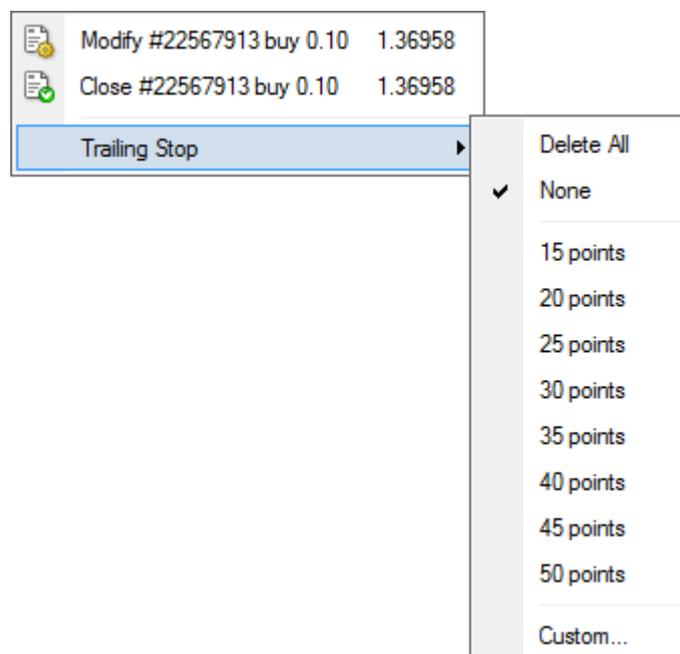
This order is used for minimizing of losses if the security price has started to move in an unprofitable direction. If the security price reaches this level, the position will be closed automatically. Such orders are always connected to an open position or a pending order. UOBKH can only place them together with a market order or a pending order. The terminal checks long positions with BID price for meeting of this order provision (the order is always set below the current BID price), and it performs a similar check with ASK price for short positions (the order is always set above the current ASK price). To automate Stop Loss order following the price, one can use Trailing Stop.

Take Profit

The Take Profit order is intended for realising profits when the security price has reached a certain level. Execution of this order results in closing of the position. It is always connected to an open position or a pending order. The order can only be requested together with a market order or a pending order. The terminal checks long positions with BID price for meeting of this order provisions (the order is always set above the current BID price), and it performs a similar check with ASK price for short positions (the order is always set below the current ASK price).

Trailing Stop

Stop Loss is intended for the reduction of losses where the symbol price moves in an unprofitable direction. If the position becomes profitable, Stop Loss can be manually shifted to a break-even level. To automate this process, Trailing Stop was created. This tool is especially useful when the price changes strongly in the same direction or when it is impossible to watch the market continuously for some reason.



Trailing Stop is always attached to an open position and works in the client terminal, not at the server like Stop Loss, for example. To set the trailing stop, you have to execute the open position context menu command of the same name in the "Terminal" window. Then, you have to select the desired value of distance between the Stop Loss level and the current price in the list opened. Only one trailing stop can be set for each open position.

After the above actions have been performed, when new quotes are loaded, the terminal checks whether the open position is profitable. As soon as profit in points becomes equal to or higher than the specified level, a command to place the Stop Loss order will be given automatically. The order level is set at the specified distance from the current price. Furthermore, if the price changes in the more profitable direction, trailing stop will cause the Stop Loss level to follow the price automatically, but if profitability of the position falls, the order will not be modified anymore. Thus, the profit of the trade position is fixed automatically. After each automatic Stop Loss order modification, a record will be made in the terminal journal.

Trailing Stop can be disabled by setting "None" in the managing menu. And trailing stops of all open positions and pending orders will be disabled if the "Delete All" command of the same menu has been executed.

Trailing Stops are handled only on the client's PC, and so will not be visible to UOBKH. The client must have MT4 open and connected for the Trailing Stop to work. If MT4 is closed or disconnected, the Trailing Stop will convert to a normal Stop Loss at its last set level.

Opening a Trade

MT4 uses the same **order window** for all trades, whether that be opening or closing a trade, or placing an order to open.

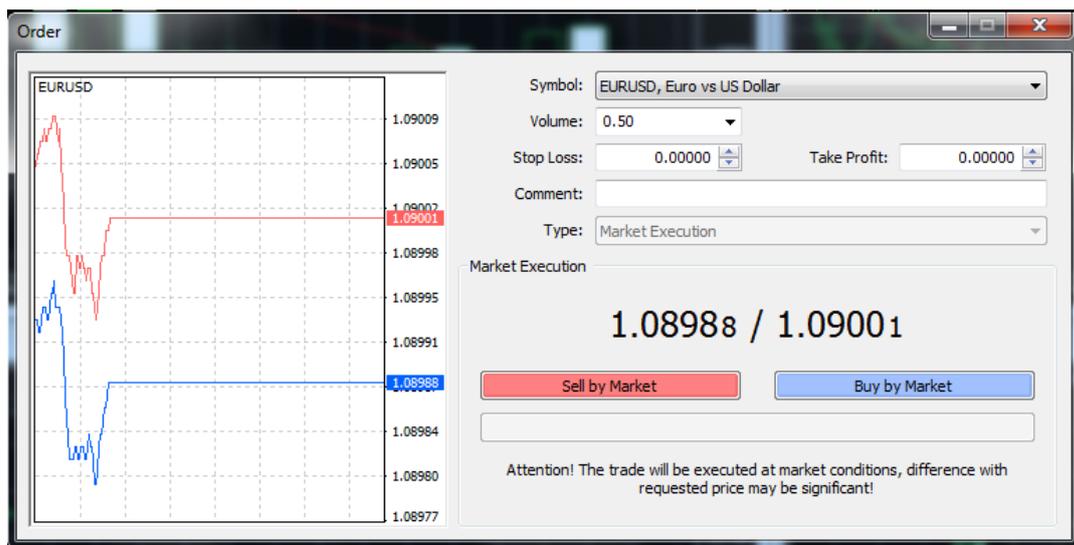
There are multiple ways to bring up the order window in MT4:

- Right click on a chart, click Trading > New Order
- Click the +New Order button on the toolbar
- Double-click a symbol or price in the Market Watch screen
- Right-click on the Trade tab in the Terminal
- Open Tools menu > New Order

Opening of a position, or entering the market, is the first buying or selling of a certain amount of the security traded. A position can be opened either by execution of a market order or by automatic triggering of a pending order.

Market Order

To open a position using a market order, you have to execute the "Tools — New Order" menu command, press the  button of the "Standard" toolbar, press F9, or double-click on the symbol name in the "Market Watch" window. One can also execute the "New Order" context menu command of the windows of "Market Watch" and "Terminal — Trade". The "Order" window used for managing trade positions will open.



When opening a position, you have to:

- **Symbol** — select a security symbol for which the position is to be opened;
- **Volume** — specify the trade volume (amount of lots);
- **Stop Loss** — set the Stop Loss level (optional);
- **Take Profit** — set the Take Profit level (optional);

Attention: Zero values of Stop Loss/Take Profit orders mean that the orders have not been placed at all.

•**Comment** — write a comment (optional). The comment length must not exceed 25 characters. UOBKH may add a comment not above 6 characters long, or it can completely replace the existing one. After a position has been opened, the comment cannot be changed;

•**Type** — the execution mode specified by UOBKH for the given symbol is displayed in this field on default. You can also choose "Pending order" in the list here, which allows you to place a pending order.

•**Enable maximum deviation from quoted price** — enable/disable the use of deviation. If UOBKH requotes the price of order execution, the deviation of the new price from the quote before will be calculated. If the deviation is below or equal to the specified parameter, the order will be executed at the new price without any additional notification. Otherwise, UOBKH will return new prices at which the order can be executed;

•**Maximum deviation** — the value of maximum permissible deviation in pips.

- Price deviation at placing of orders is used only in the instant execution mode.
- The trade window displays current best Bid and Ask price (except for the Execution on Request mode).

After all necessary data have been specified, you have to press the "Sell" or "Buy" button. The order for opening of a short or long position, respectively, will be sent to UOBKH.

Once the order has been sent, the window will display the result of its execution — a successful trade operation or a reason why it has not been executed. If the "One click trading" option is enabled and the order has been successfully executed, the trading window is closed right away without displaying the execution result.

Attention: If orders for a given symbol are executed at request, it is necessary to press the "Request" button to receive quotes first. Quotes offered after requesting will be active for just a few seconds. If no decision is made within these seconds, "Sell" and "Buy" buttons will be locked again.

If the Stop Loss or Take Profit level is too close to the current price at opening of a position, the message of "Invalid S/L or T/P" will appear. It is necessary to shift levels from the current price and re-request for placing of the order. A trade position will be opened after UOBKH has made a trade and set Stop Loss and Take Profit. The status bar of the opened position will appear in the "Terminal — Trade" tab, and open price, Stop Loss and Take Profit levels will be shown in the chart (if the "Show trade levels" option is enabled).

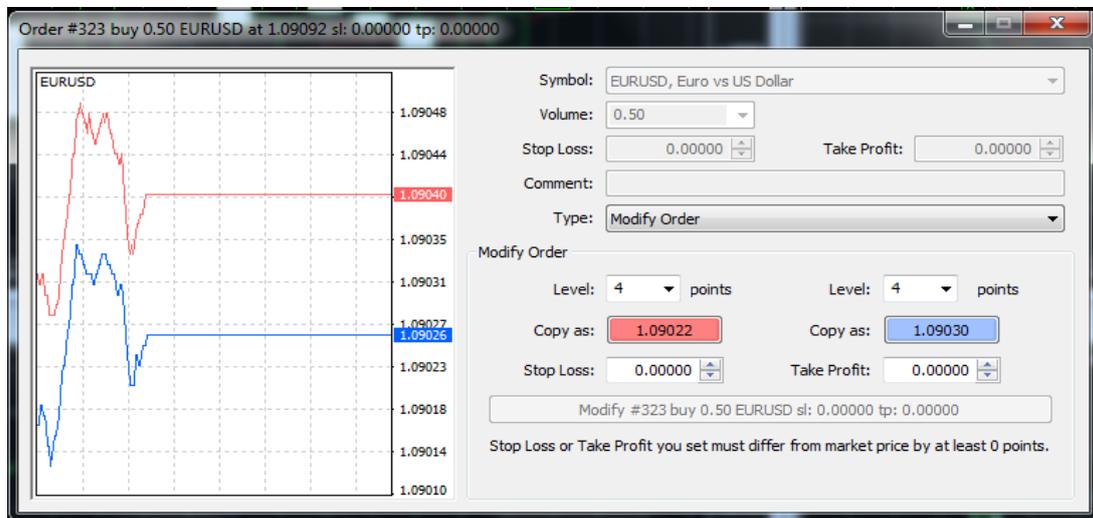
Pending Orders

To open a position with a pending order, you have to place it first as described in the "Placing of Pending Order" section. If the current prices meet its provisions, the pending order will be executed automatically, i.e., a new trade position will be opened. The status bar of the pending order will be deleted in the "Terminal — Trade" tab, and the newly opened position status bar will appear. If Stop Loss and Take Profit orders were attached to the pending order, they will be attached to the new position automatically.

Amending an Open Position

To amend an open position, right-click on it from the Trade tab in the Terminal, and select **Modify** or **Delete Order**.

Here, you can enter a **Stop Loss** or **Take Profit** by entering the actual level; you can also use the quick-select buttons to calculate the level using a defined distance. To do this, choose the Level distance in the dropdown menu, then click the blue or red buttons to copy the calculated distance from the current level into the Take Profit or Stop Loss field.



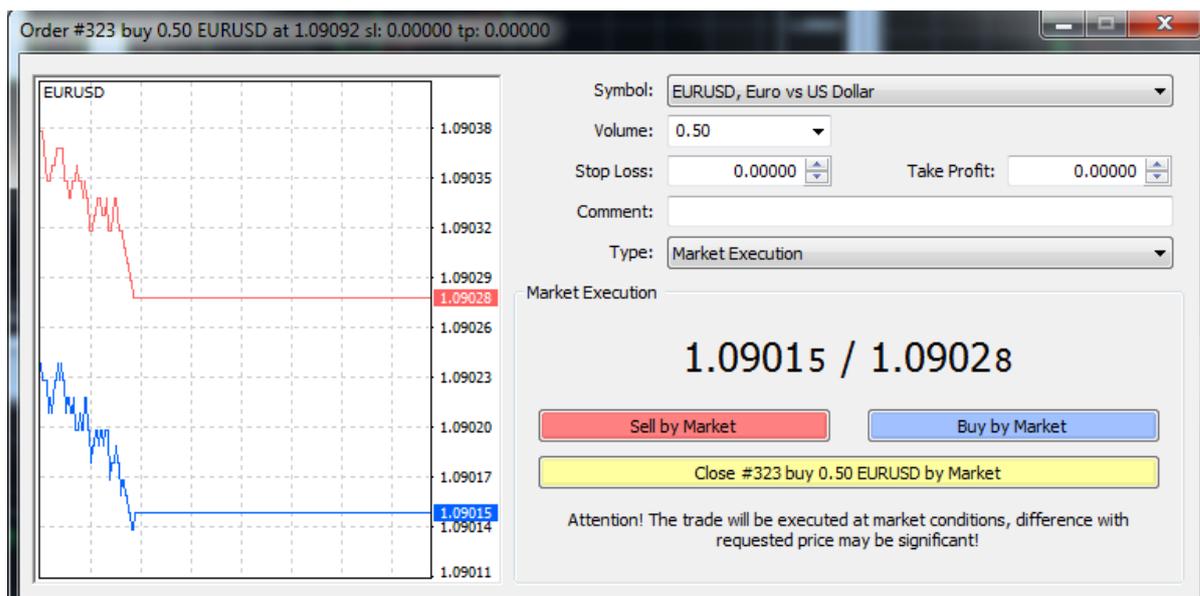
To change the Stop Loss or Take Profit values, you have to enter new values in the corresponding fields. To place the order in points from the current price, you have to set the desired value in the "Level" field and press the "Copy as" button. If values of these fields are zero, the minimum permissible deviation to use will be as set by UOBKH.

Closing a Trade

To close a trade

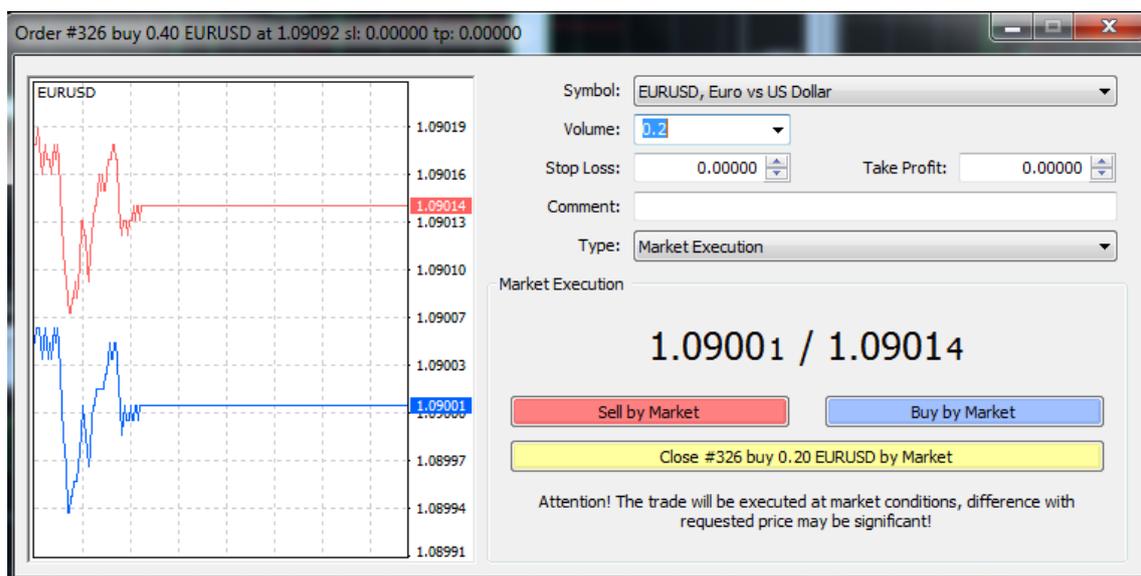
1. From within the Trade tab of the Terminal, double-click the position you'd like to close.
2. On the Order Window, **click the yellow bar** beneath the Sell/Buy buttons (it will show for example: "Close #323 buy 0.5 EURUSD by Market").

Please note: If the Sell/Buy buttons are clicked instead of the yellow bar, **a new position** will be opened. This will be confusing if you are used to IG's close deal tickets which require users to press the Sell/Buy button to close.



Partially closing positions

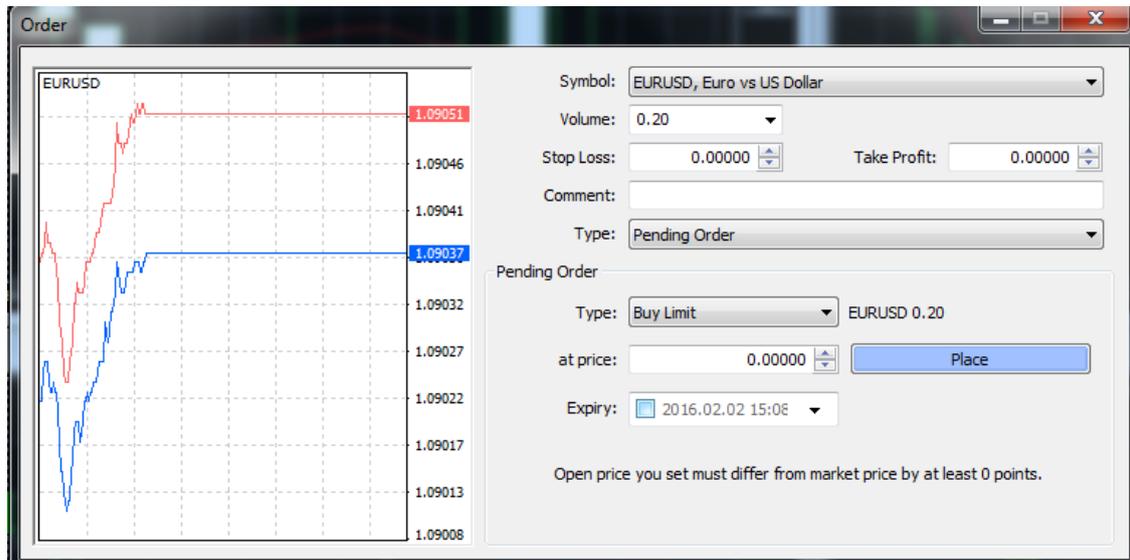
1. From within the Trade tab of the Terminal, double-click the position you'd like to close
2. On the order Window, modify the Volume to the amount you'd like to close
3. Click the yellow bar beneath the Sell/Buy buttons (it will show for example: "Close #326 buy 0.20 EURUSD by Market").



Placing Pending Orders

An order to open is called a Pending Order in MT4. To place a Pending Order:

1. Open the Order Window
2. Enter the Volume (size) of the order
3. Enter a contingent Stop Loss or Take Profit
4. Choose **Pending Order** from the Type drop down menu
5. Choose the Pending Order Type (But Limit, Sell Limit etc); MT4 does not choose the correct order automatically
6. Enter the at price (trigger level)
7. If you want the order to expire at a specific time/date, tick this Expiry option (otherwise it's GTC)
8. Click **Place**.



Modifying Pending orders

When working the market, you often need to modify or delete the placed pending order. To do so, you have to execute the pending order context menu command of "Modify or Delete Order" or double-click with the left mouse button on the pending order status bar in the "Terminal — Trade" window. The window for managing orders will open. The new price of the pending order trigger, new levels of Stop Loss and Take Profit, as well as expiry time of the order can be set in this window. After the order has been modified, you have to press the "Modify" button.

Attention: Setting of zero values for Stop Loss and Take Profit equates to disabling of these orders.

If the pending order has been successfully modified, the values of the corresponding fields in the "Terminal — Trade" window will be changed. If the "Show trade levels" option in the terminal settings has been enabled, the pending order levels and those of Stop Loss and Take Profit attached to it will be shifted correspondingly in the chart as well.

Deletion of Pending orders

If the market situation has changed, there may be a necessity to delete a pending order. To do so, you have to execute the "Modify or Delete Order" pending order context menu command or double-click with the left mouse button on the status bar of the pending order in the "Terminal — Trade" window. The window for managing orders will open. To delete an order, the button of the same name must be pressed in it. Pending orders can also be deleted automatically at the time that has been given in the "Expiry" field. When a pending order has been deleted, the corresponding record will appear in the "Terminal — Account History" window.

AUTOMATED TRADING

To work the financial markets more effectively, you can develop your own successful system of trading. It is very difficult to act within a chosen system of trading in the manual mode due to significant influence of normal human emotions. Mechanical trading systems do not suffer from this disadvantage.

The Client Terminal gives a large range of means for development and use of mechanical trading systems (MTS, experts, advisors). The development environment allows you to create, debug, and test expert advisors. Experts are able to not only alert you about recommended trading signals, but also undertake complete control over trading activities online.

MetaQuotes Language 4, MetaEditor and strategy testing tools are built in the terminal. One can create the following using these means:

- **Expert Advisors** — mechanical trading systems that allow complete automation of analytical and trading activities;
- **Custom Indicators** — independently written technical indicators intended for analyzing of price changes;
- **Scripts** — programs to be executed only once, on request.

Expert Advisers

Expert Advisers (EA's) are automated trading systems that can be installed into the MT4 platform.

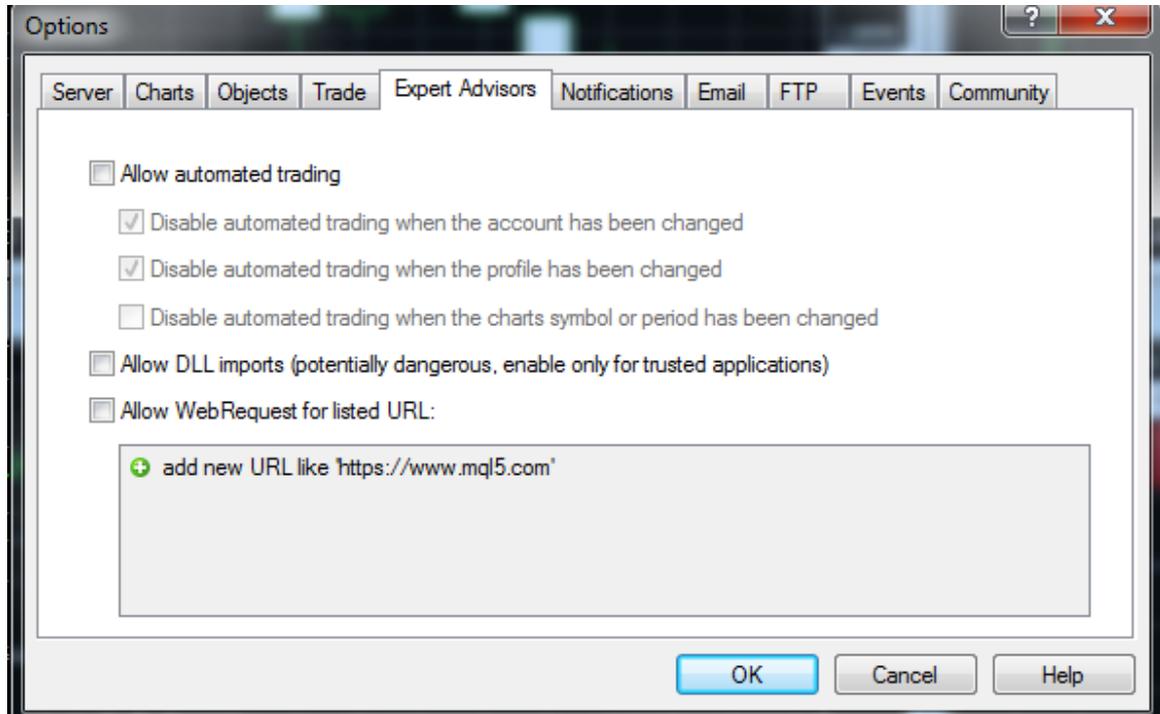
They are programs in the terminal that have been developed in MetaQuotes Language 4 (MQL4) and used for automation of analytical and trading processes. They allow you to perform prompt technical analysis of price data and manage trading activities on basis of signals received. The entire routine work of technical analysis and trading can be given to experts. An expert can perform analytical and trading operations for any symbol or period independent of whether the corresponding chart was opened or not.

EA's are run on the client's PC. They are not calculated or run on our MT4 server. The client's PC must be left on, with MT4 open and connected for the EA to work.

EA's cannot be managed using the MetaTrader mobile apps.

Setting up EA's

Before using experts, you have to set them up first. Working parameters common for all experts are defined in the client terminal settings window. This window can be opened by the "Tools — Options" menu command or by pressing of accelerating keys of Ctrl+O.



To set up expert parameters, you have to select the "Expert Advisors" tab. The following settings are available in it:

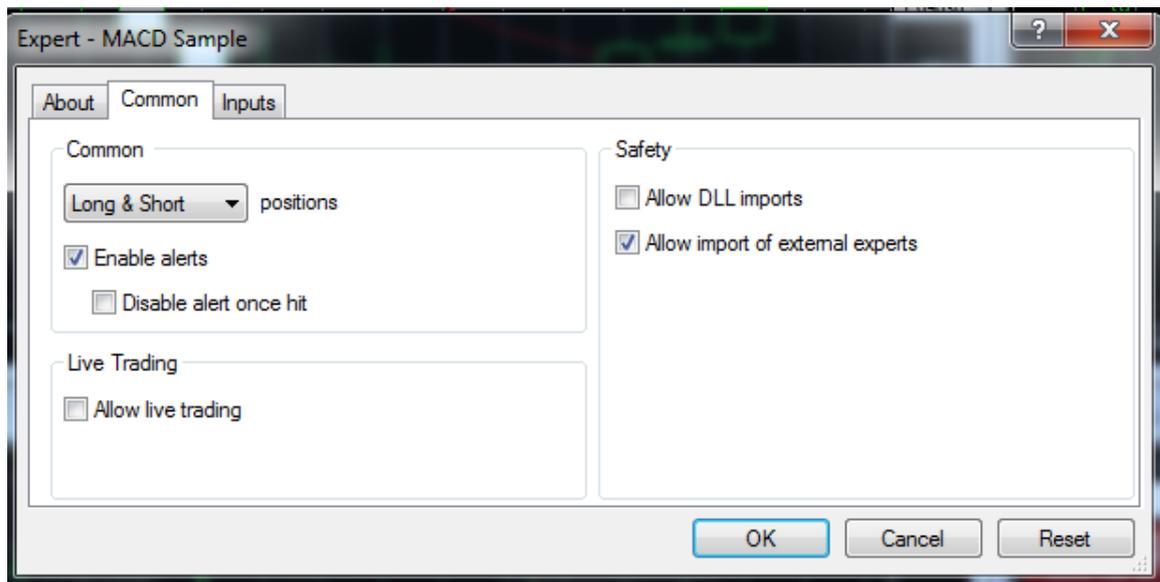
- **Allow automated trading** — this option allows you to enable or disable the performance of trade operations by Expert Advisors and scripts. If it is disabled, scripts and Expert Advisors will work, but they will not be able to trade. This limitation can be useful for testing the analytical capacity of an Expert Advisor in the real-time mode (not to be confused with testing of Expert Advisors on historical data). Automated trading can also be allowed or disabled using the  **AutoTrading** button on the toolbar.
- **Disable Auto Trading when the account has been changed** — this option presents a protective mechanism disabling trading by Expert Advisors and scripts when the account is changed. It is useful, for example, when one changes a demo account for a real one.
- **Disable Auto Trading when the profile has been changed** — a large amount of information about the current settings of all charts in the workspace is stored in profiles. Particularly, profiles contain information about Expert Advisors attached. Expert Advisors included into the profile will start working when a new tick loads. Having ticked this option, you can hinder trading by the Expert Advisors launching when the profile has been changed.

- **Disable Auto Trading when the charts symbol or period has been changed** — if this option is ticked, when the period or symbol of a chart is changed, the expert advisor which is attached to it will be automatically prohibited from performing trade operations.
- **Allow DLL imports**
To enlarge their functionality, expert advisors can use DLLs (dynamic-links libraries). If it is enabled, such libraries can be used without any limitations. If this option is disabled, no expert can use external DLLs. It is recommended to disable import when working with unknown experts.
- **Allow WebRequest for listed URL**
The WebRequest function in MQL4 is used for receiving and sending information to websites using GET and POST requests. To allow an MQL4 application to send such requests, enable this option and manually and explicitly specify the URLs of trusted websites. For security reasons, the option is disabled on default.

Launching EA's

After general parameters have been set up, experts can be launched. To do so, it is enough just to attach the expert to the chart. The "Attach to a chart" command of the "Navigator — Expert Advisors" window context menu or double clicking with the left mouse button on the selected expert in the same window allows you to impose it onto the active chart.

"Drag'n'Drop" technique allows you to impose the expert onto any chart. The window of the expert special settings will appear.



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In its "Common" tab, the following are possible:

Positions — select the direction of position opening:

Long&Short — in both directions;

Only Long — only for buying;

Only Short — only for selling.

Enable alerts — enable/disable the expert to alert;

Disable alert once hit — disable alerts after the first alert has been given;

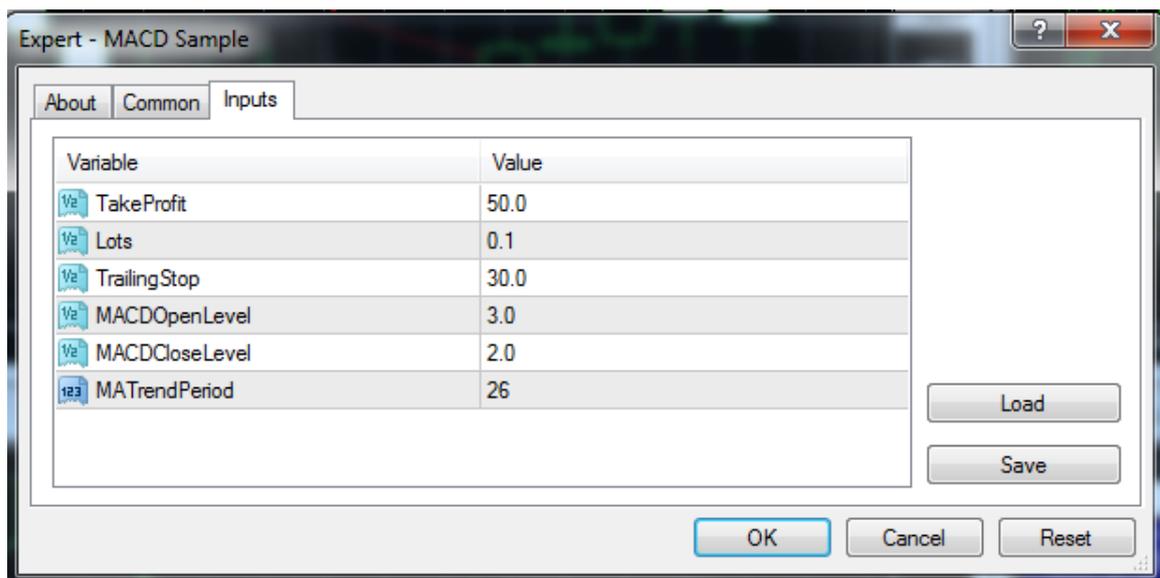
Allow live trading — enable/disable live trading. Note that even if this option is enabled, the autotrading for the Expert Advisor may be disabled by the general settings of the terminal.

Allow DLL imports — enable/disable imports of functions from DLL files;

Allow import of external experts — enable/disable calling of functions from external experts;

Allow modification of Signals settings — this option allows/prohibits an MQL4 application to subscribe and unsubscribe from Signals as well as change the settings of signal copying. The functions for working with the base of Signals from an MQL4 application allow you to performing your own analysis of the quality of signals, dynamically manage the subscription and adjust risks. More detailed information about the functions for managing the signals is provided in MQL4 Reference.

External variables of the expert can be changed in the "Inputs" tab.



These are variables of extern class. To save an input, you have to double-click with the left mouse button on its value and write a new one. You can change the value of each variable or download the set of inputs already saved (with the "Load" button). You can save the current set of external variables using the button of the same name.

The "Reset" button returns all default settings. Parameters defined in the terminal settings are given in the "Common" tab. Parameters defined in the program source code are set as inputs. To attach the expert with the new parameters to a chart, you have to press "OK". To cancel the expert imposition, you have to press the button of the same name.

Attention: Only attached experts can be set up individually. However, while executing, the window of the expert properties cannot be opened. This can be done only during intervals between calls of the start function. The expert will not be launched until its Properties window is closed. If the expert inputs were changed, the expert will be re-initialized with its new inputs at the pressing of "OK".

After an expert has been set up, it will be initialized and, as soon as a new tick loads, will be executed. The expert is attached if its name and a smiley can be seen in the upper right corner of the chart. If live trading is disabled in the expert settings, an L will appear instead of the smiley. A dagger (†) means that all experts are disabled.

Attention: Only one expert can be attached to a chart. If another expert is imposed, the previous one will be deleted from the chart.

Shutting down EA's

To shut down an expert, you have to remove it from the chart. The expert must have been de-initialized before it is shut down. To remove an expert from the chart, you have to execute the chart context menu "Expert Advisors — Delete" command or attach another expert to the same chart. The expert can also be removed from the chart at profile or template change.

Attention:

- during client terminal shutdown, all experts are shut down, too;
- during chart closing, the expert attached to this chart will be shut down;
- during imposition of another expert, the previous one will be removed after confirmation;
- deletion of the expert from the "Navigator" window does not shut down the expert of the same name imposed on the chart;
- disabling of experts in the client terminal settings does not provide complete disabling of experts. This option stops launching of the start function of each expert, but the initialised experts will continue to execute.

Custom Indicators

A custom indicator is a program independently developed in [MetaQuotes Language 4](#) by the user and functioning as a technical indicator. A technical indicator is a mathematical transformation of security price and/or volume in order to forecast future price changes. The use of indicators allows you to answer the question about whether the current trend will remain the same and where it will turn. Indicators are intended for relative simplification of the complicated process of trading decision making. Algorithms of indicators are also used for development of trading tactics and expert advisors.

Custom indicators can be downloaded the same way as EA's, and can also be very complex. You can click and drag them onto a chart via the Navigator panel to launch them

Scripts

A script is a program written in MetaQuotes Language 4 (MQL4) and intended for a singular performance of any action. A script can fulfil both analytical and trading functions. Unlike experts, scripts are executed on request, not by ticks. In other words, where an expert works almost continuously, a script, having completed the function once, stops functioning by itself.

Working with scripts entails:

Creation of a Script

The built-in "MetaEditor" is used to create and compile a script. It is a constituent of the client terminal and represents a convenient development environment of MQL4 programs.

Script Setup

You have to set up scripts first before using them. Working parameters common for all scripts are defined in the client terminal setup window. Every script has its own settings as well.

Launching of a Script

To launch a script, you have to attach it to the chart. The script algorithm will be launched immediately after that.

Deletion of a Script

The script completes its work after it has been deleted from the chart.