



Secrets of



MetaTrader 4 Trading Platform

So many people uses MetaTrader4 trading platform,
but not so many really knows how to use it.





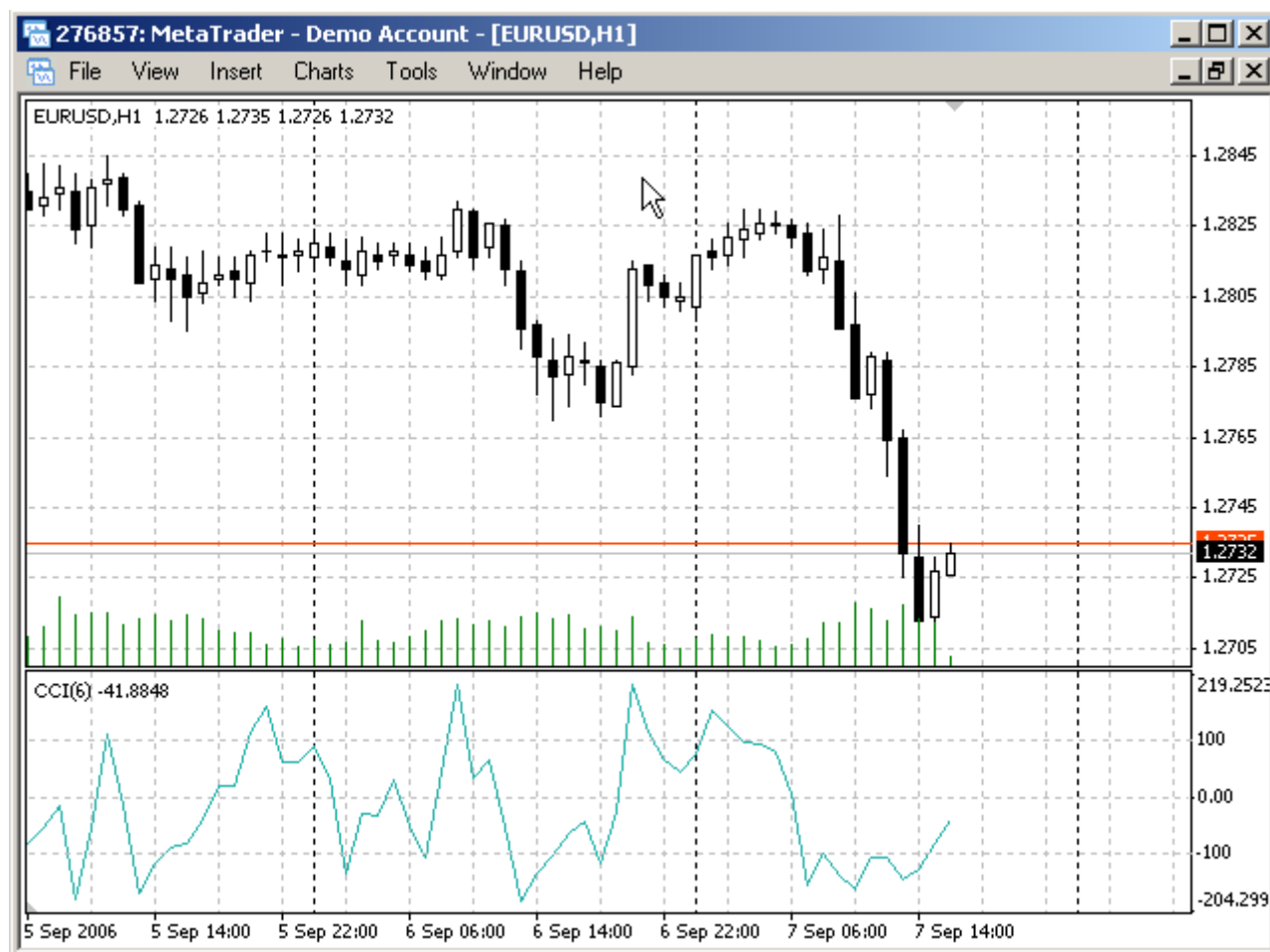
1. How to switch to the full-screen mode?
2. How to promptly attach indicators, expert advisors and/or scripts to the charts?
3. How to get better positioning of the chart on the necessary time?
4. How to minimize "Terminal" window title bar?
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1. How to switch to the full-screen mode?

In order to switch to the full-screen mode you should press on F11.



In the full-screen mode, the following hotkeys can be used to open command windows:

- **Ctrl+M** - Market Watch
- **Ctrl+N** - Navigator
- **Ctrl+T** - Terminal
- **Ctrl+D** - Data window

To return to the normal mode, just press F11 again.

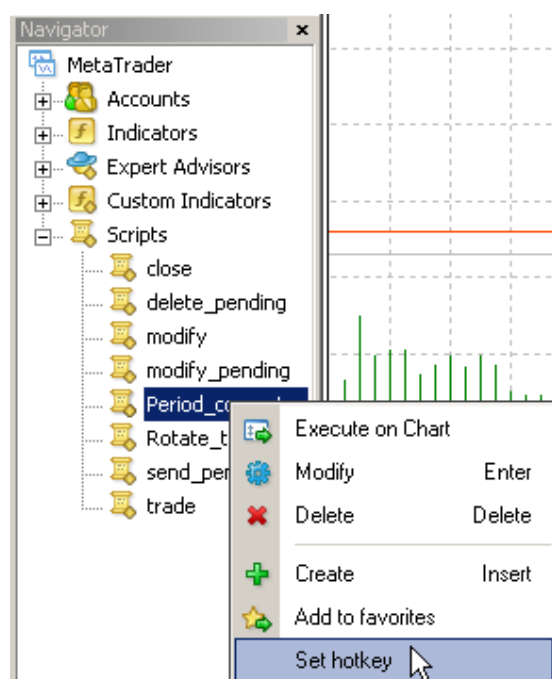




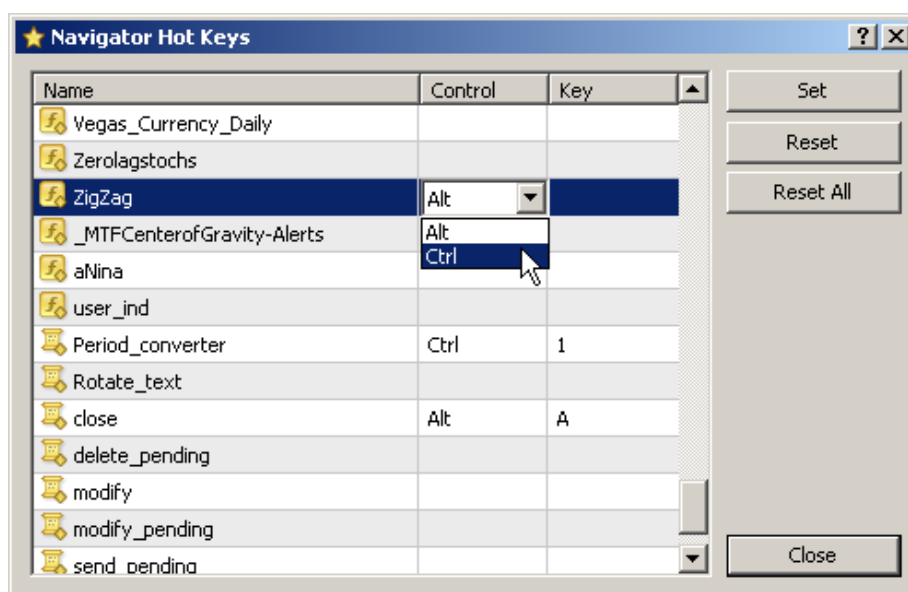
2. How to promptly attach indicators, expert advisors and/or scripts to the charts?

Indicators, experts and/or scripts can be promptly attached to the chart if hotkeys are preliminarily set for them.

This can be very useful in the full-screen mode. To assign hotkeys, select the "Set hotkey" option in the "Navigator" window context menu:



You can select any keys combinations you wish:

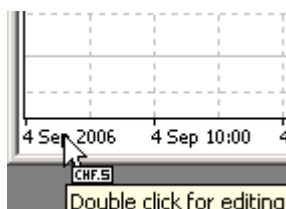




3. How to get better positioning of the chart on the necessary time?

For better positioning of the chart on the necessary time, you can use the fast navigation line.

To open the fast navigation line, press the spacebar or Enter or move the cursor to the left bottom part of the chart window and, after the sign **CHF.S** appears, double-click with the left mouse button:



Do not forget to disable the chart auto scroll.





Format of commands in the Fast Navigation line for precise positioning of the chart:

- [time (hours: minutes)]
example: 8:30
- [date]
example: 2004.10.16
- [date] [time]
example: 16.10.04 8:30

Using the fast navigation line, one can promptly switch between the chart's symbols and periods. This can be very useful in the full-screen mode.

Format of commands in the Fast Navigation line for switching between symbols and/or periods of the chart:

- [symbol name]
example: GBPUSD
- [chart period]
example: M30
- [symbol name],[chart period]
example: GBPUSD,M30

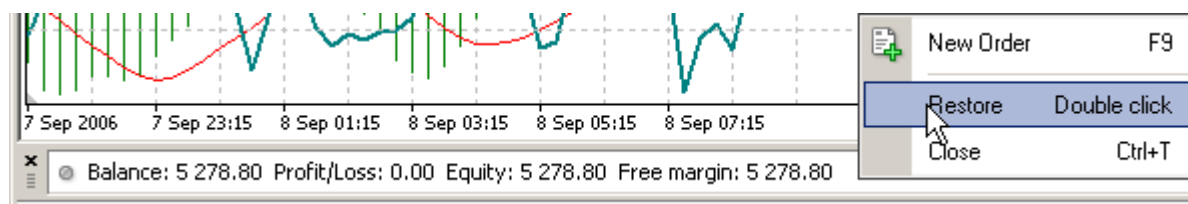
To execute a fast navigation command, press Enter. To cancel it, press Esc. Only one of the above commands can be executed in the fast navigation line at a time.

4. How to minimize "Terminal" window title bar?

A double click with the left mouse button on the "Terminal" window title bar will minimize it to the bar of the current account status.

Thus, some additional space will be free for the chart. You can also minimize the window by double-clicking with the left mouse button on the title of any tab in the window.

To restore, double-click in the minimized window or select the "Restore" command in the context menu.

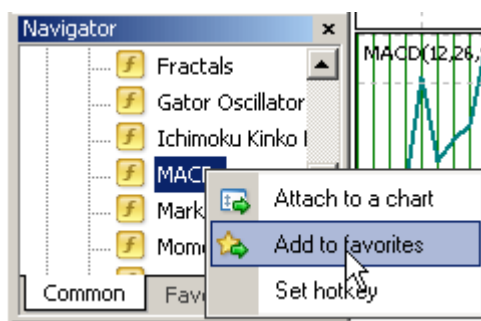




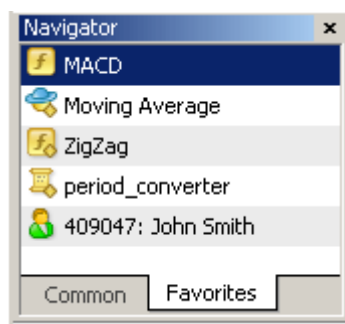
5. How to create "Favorites" group with your frequently used indicators, scripts, expert advisors and/or accounts?

Frequently used indicators/scripts/experts/accounts can be added to the "Favorites" group to have a faster access to them.

To do so, click with the right mouse button on the name of the indicator/script/expert/account and select the command "Add to favorites":



The listed items will be available in the "Favorites" tab of the "Navigator" window:

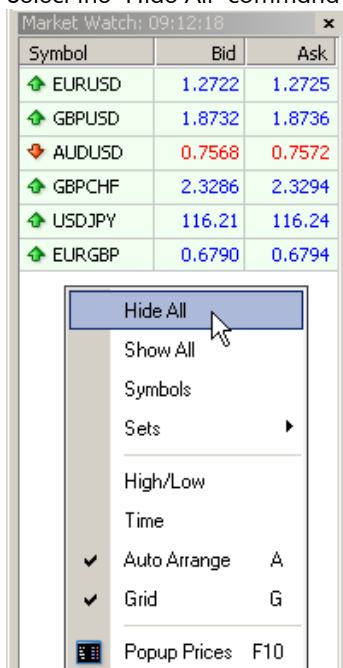




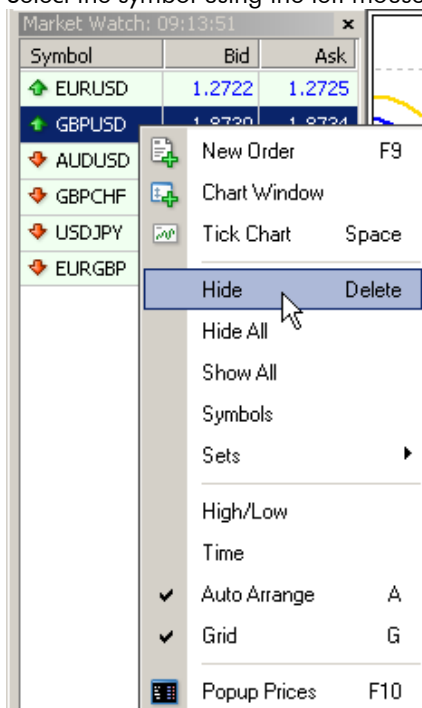
6. How to save traffic?

The traffic can be saved if the unused symbols are hidden. The symbols can be hidden in a several ways:

1. Select the "Hide All" command in the context menu of the "Market Watch" window:

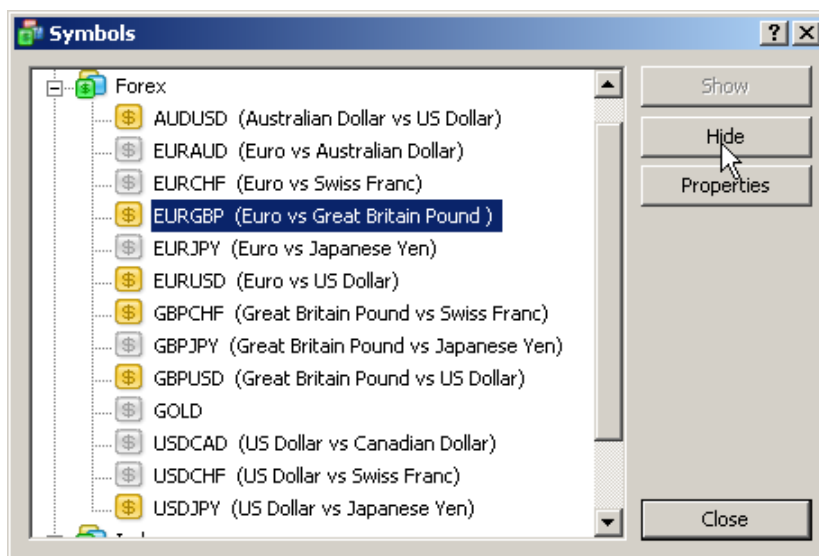


2. Select the symbol using the left mouse button and press Delete:





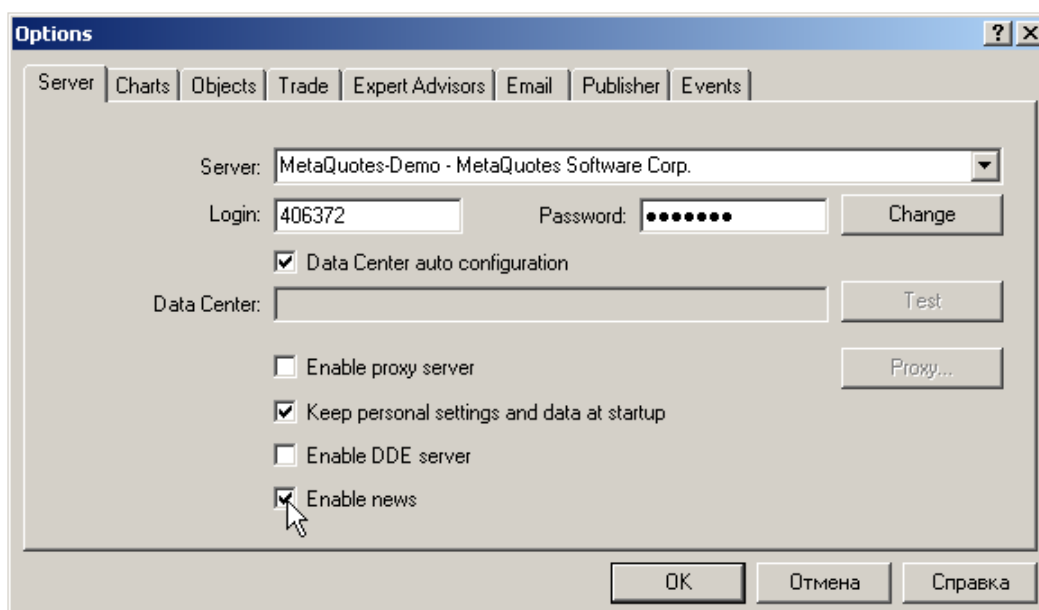
3. Select the "Symbols" command in the context menu of the "Market Watch" window and hide/show symbols in the window that appears:



The symbol cannot be hidden if:

- there are open positions or pending orders for this symbol
- the chart has been opened within the current session
- this symbol is used to recalculate cross rates

Traffic can also be saved if news are disabled. To do so, open the "Tools -> Options" menu and unflag the "Enable news" field in the "Server" tab:





7. How to switch between several sets of symbols?

You can create several sets of symbols and switch between them, if necessary.

This can be very useful if you work with different groups of symbols (currency pairs, shares, futures, etc.). Hide all "excessive" symbols and save the set obtained.

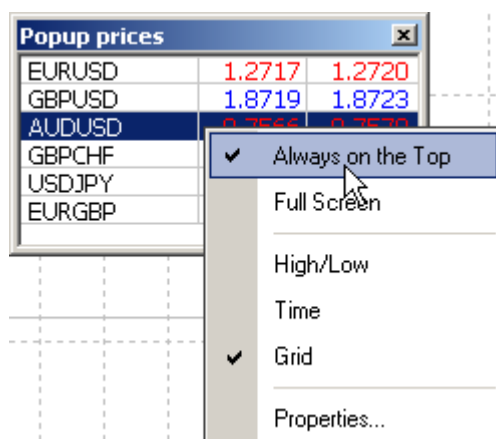




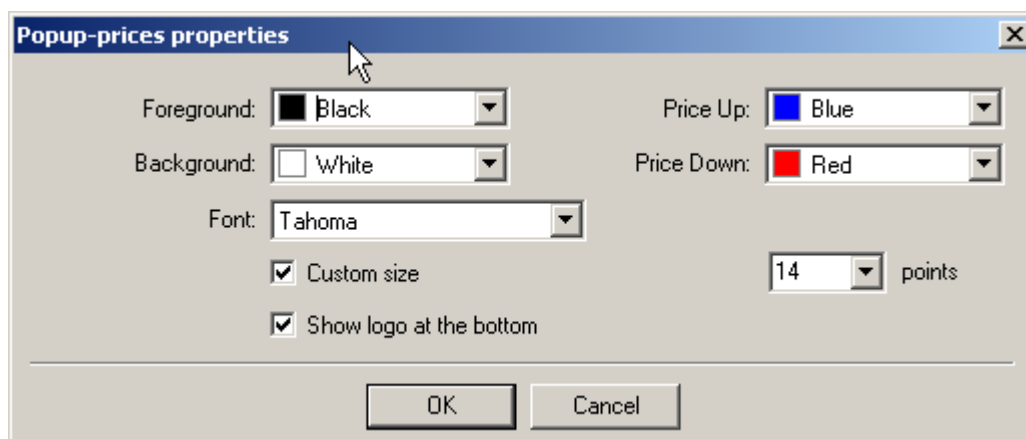
8. How to open the pop-up prices window?

The Popup prices window can be opened by pressing F10.

If you select "Always on the Top" in the context menu of this window, you will be able to watch quotes while working with other applications:



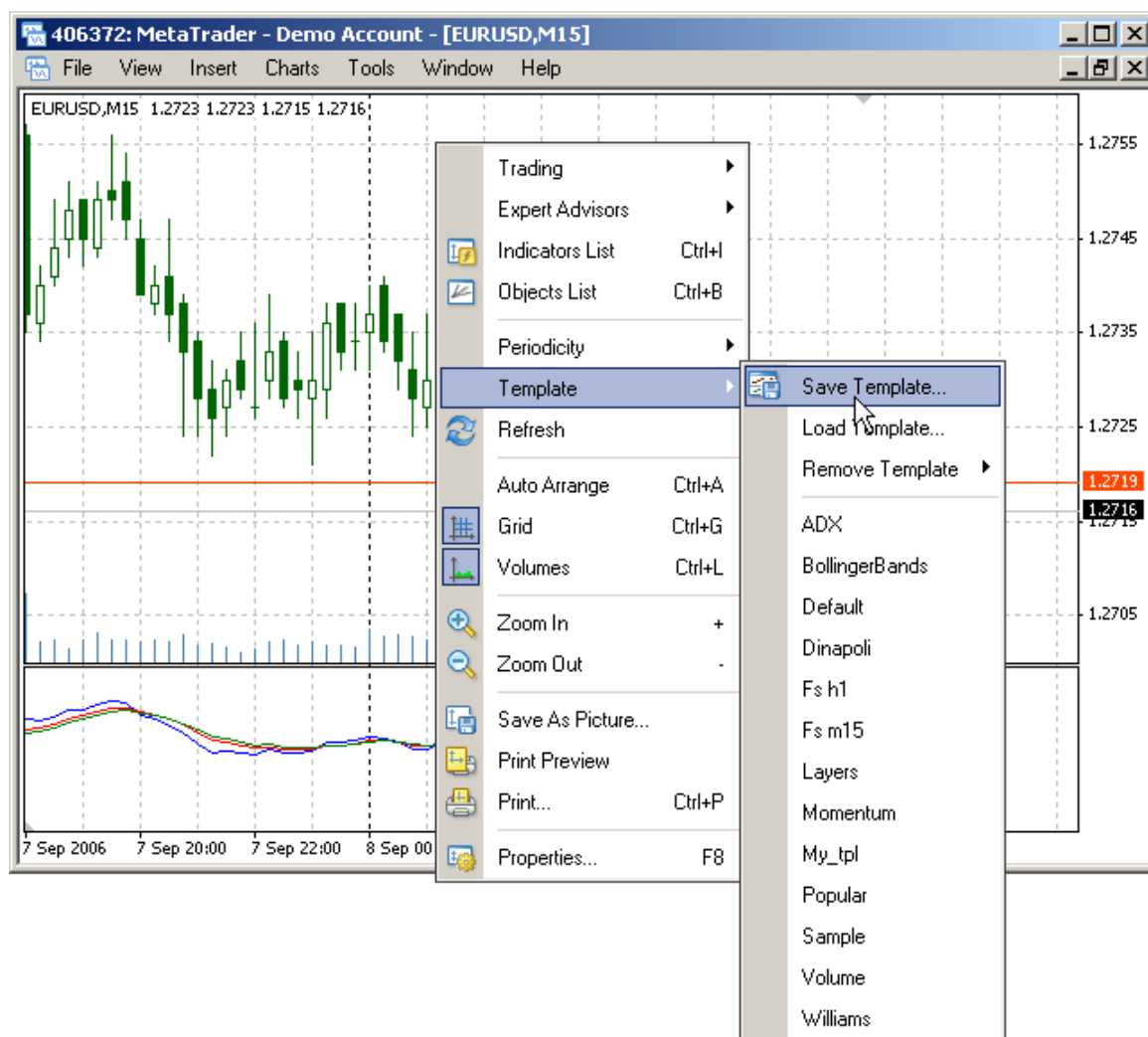
Having selected "Properties..." in the context menu of the Popup prices window, you can adjust its colors and fonts:





9. How to create the same background and bars colors, indicators and objects for all charts?

Background and bars colors, indicators and objects can be made the same for all charts. To do so, adjust any chart as you wish: set colors, superpose objects, attach indicators, etc. Then select the "Charts → Template → Save Template..." menu and save the obtained template as default.tpl



From this moment, the template will apply to all newly opened charts.

The following can be saved in a template:

- chart type and color
- colors
- chart scaling
- the presence of the OHLC line
- the attached expert advisor and its parameters
- the superposed custom and technical indicators with their settings
- line studies
- separators of days





Specific templates can be created for charts opened from the Tester and for those opened independently.

To create a default template for charts opened from the Tester, you have to save the template as "tester.tpl"



For independent charts, the default template must be "offline.tpl".

Open Offline Chart						
History Data	Bars	From	To		Open	
SBER,M30	571	2006.04.27 11:30	2006.06.21 15:30		<input type="button" value="Open"/>	
USDCHF,M1	789	2006.06.22 03:15	2006.06.22 17:39			
USDCHF,M15	570	2006.06.14 14:30	2006.06.22 13:45			
USDCHF,M30	9562	2005.10.20 17:00	2006.07.28 12:30			
USDCHF,H1	1541	2006.05.11 18:00	2006.08.10 10:00			
USDCHF,H4	621	2006.02.22 00:00	2006.07.17 08:00			
USDCHF,Daily	537	2004.06.25 00:00	2006.07.17 00:00			
USDJPY,M1	29166	2006.06.01 00:01	2006.07.26 15:34			
USDJPY,M30	9133	2005.10.20 17:30	2006.07.17 14:30			
USDJPY,H1	765	2006.03.13 16:00	2006.04.26 17:00			
YUKO,M30	573	2006.04.27 10:30	2006.06.21 16:30			
_NQCOMP,H1	707	2005.09.20 21:00	2006.02.13 21:00			
EURUSD,M5 (Control p...	85565	2006.08.11 02:10	2006.09.08 09:35			
EURUSD,M5 (Open prices)	11484	2006.08.11 02:10	2006.09.08 09:35			
EURUSD,M5 (Every tick)	106084	2006.08.11 02:10	2006.09.05 15:35			
					<input type="button" value="Cancel"/>	

If the "offline.tpl" template is not found when the chart is opened independently, the "default.tpl" template is used. On no "tester.tpl", the embedded settings are used.

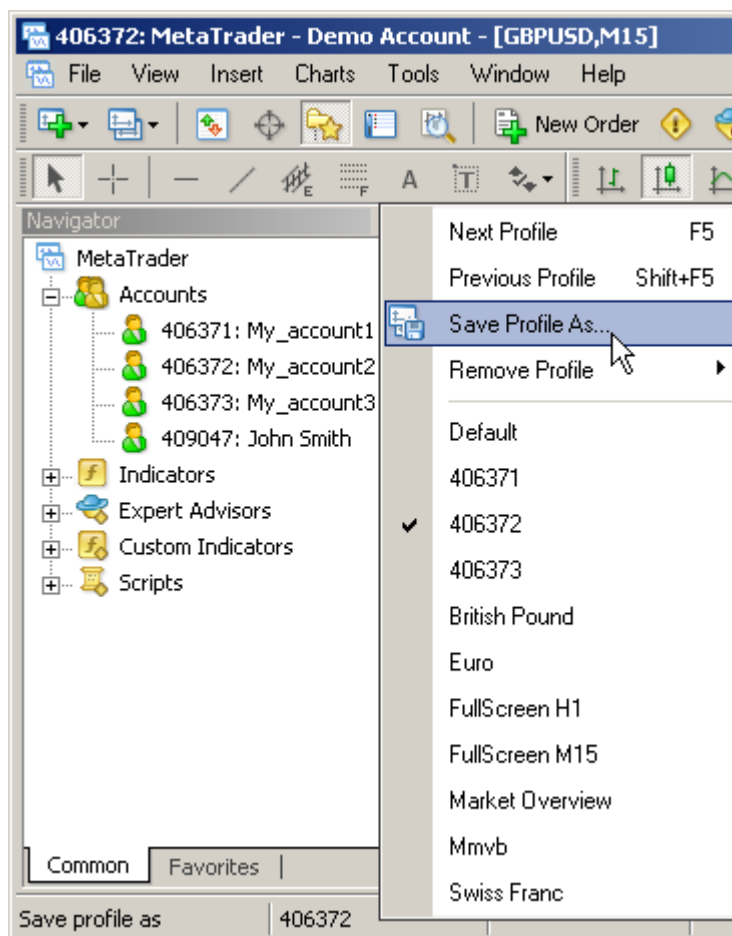




10. How to create a special profile for each account?

If you have several accounts, you can create a special profile for each. At switching between accounts, the profiles will be opened automatically.

To create such a profile, you have to save it under the name which is exactly the same as the account number:



11. How to call the "Crosshair" object?

To call the "Crosshair" object, click the middle button of the mouse or press Ctrl+F.

This can be very useful when working in the full-screen mode.

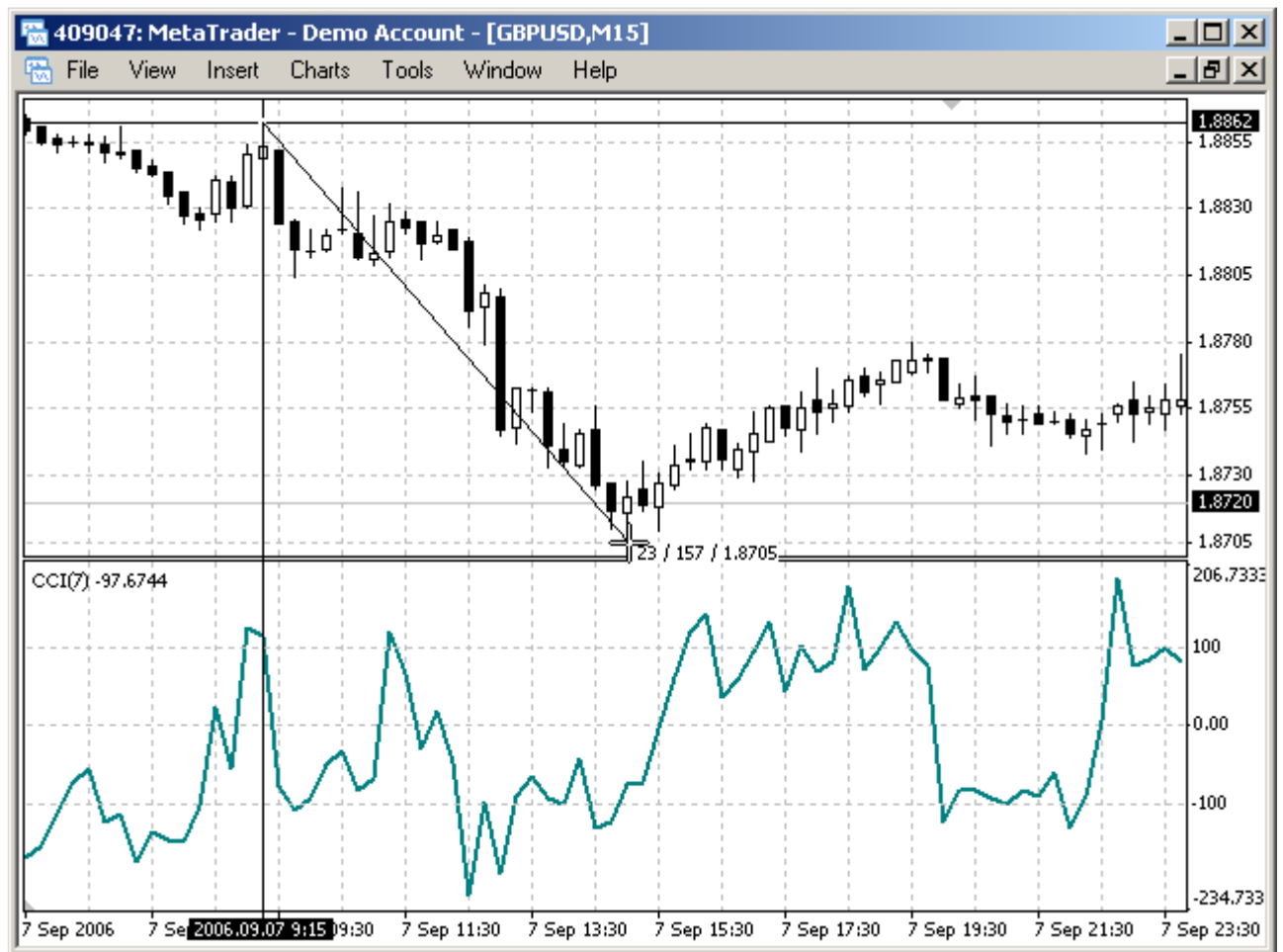




12. How to check vertical distances and the amount of bars between two points?

You can check vertical distances and the amount of bars between two points using the ruler.

To do so, select the "Crosshair" object, click with the left mouse button on the first point in the chart and drag the cursor to the second point:



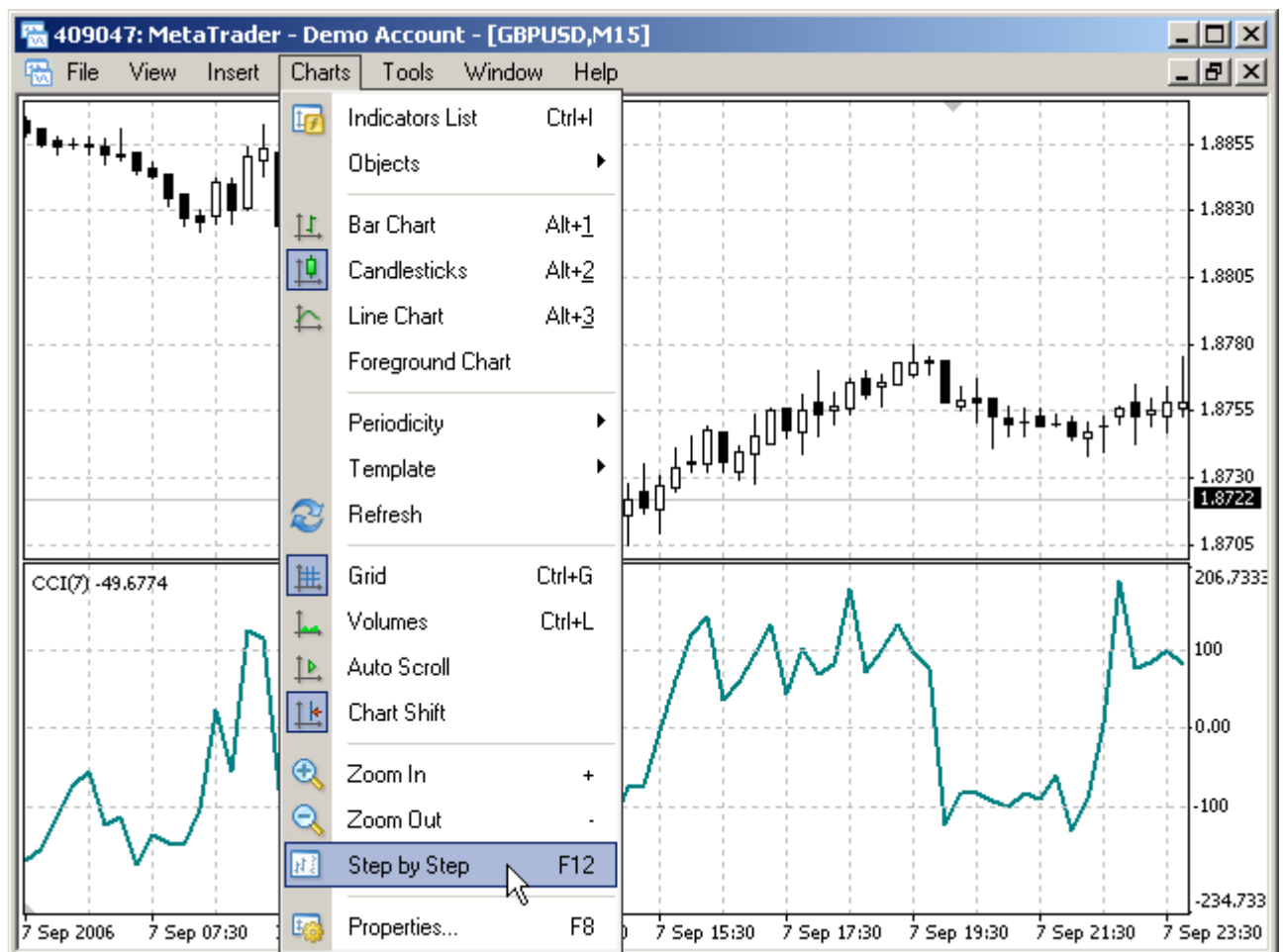
The first number (23) is the count of bars, the second number (157) is the vertical distance in pips, the third number (1.8705) is the bid price in the second point.





13. How to page through the chart bar by bar?

Use **F12** to page through the chart bar by bar. This function can be very useful when you develop and test your own trading strategy. Just open the chart at the very beginning of the history (press Home) and page through it bar by bar.



Shift+F12 will page through the chart backward.



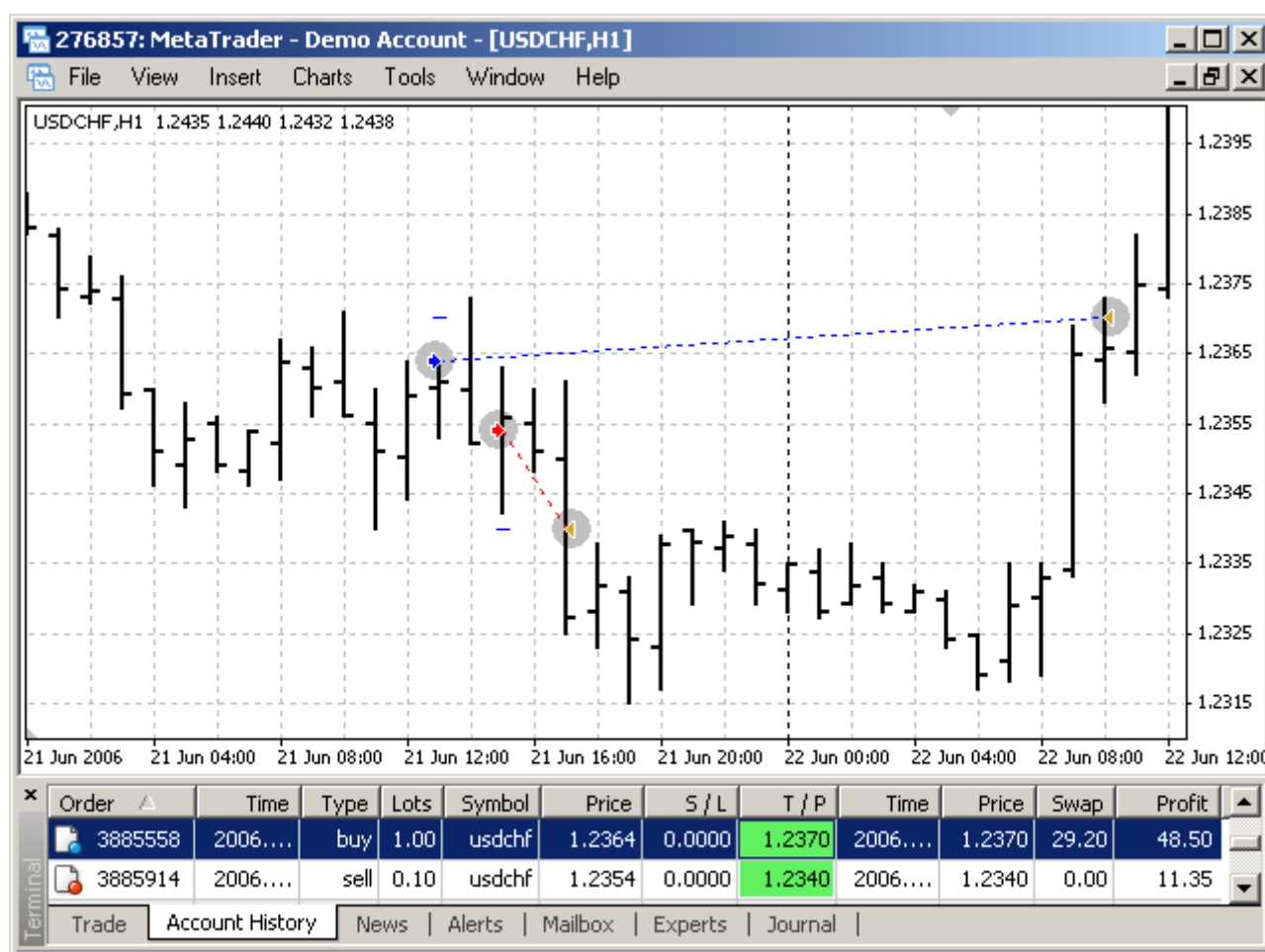


14. How to display closed positions and deleted pending orders in the chart?

Closed positions and deleted pending orders can be displayed in the chart.

To do so, go to the "Account History" tab in the "Terminal" window and drag the order to the chart using the left mouse button. It is necessary that the symbol history of the selected order is downloaded from the server. If the order is dragged to another symbol chart, it will be replaced with the selected symbol chart.

The order is displayed in the chart as order opening and closing/deleting arrows joined with a trend line segment. Stop Loss and Take Profit levels are displayed in the vertical line with the open price.



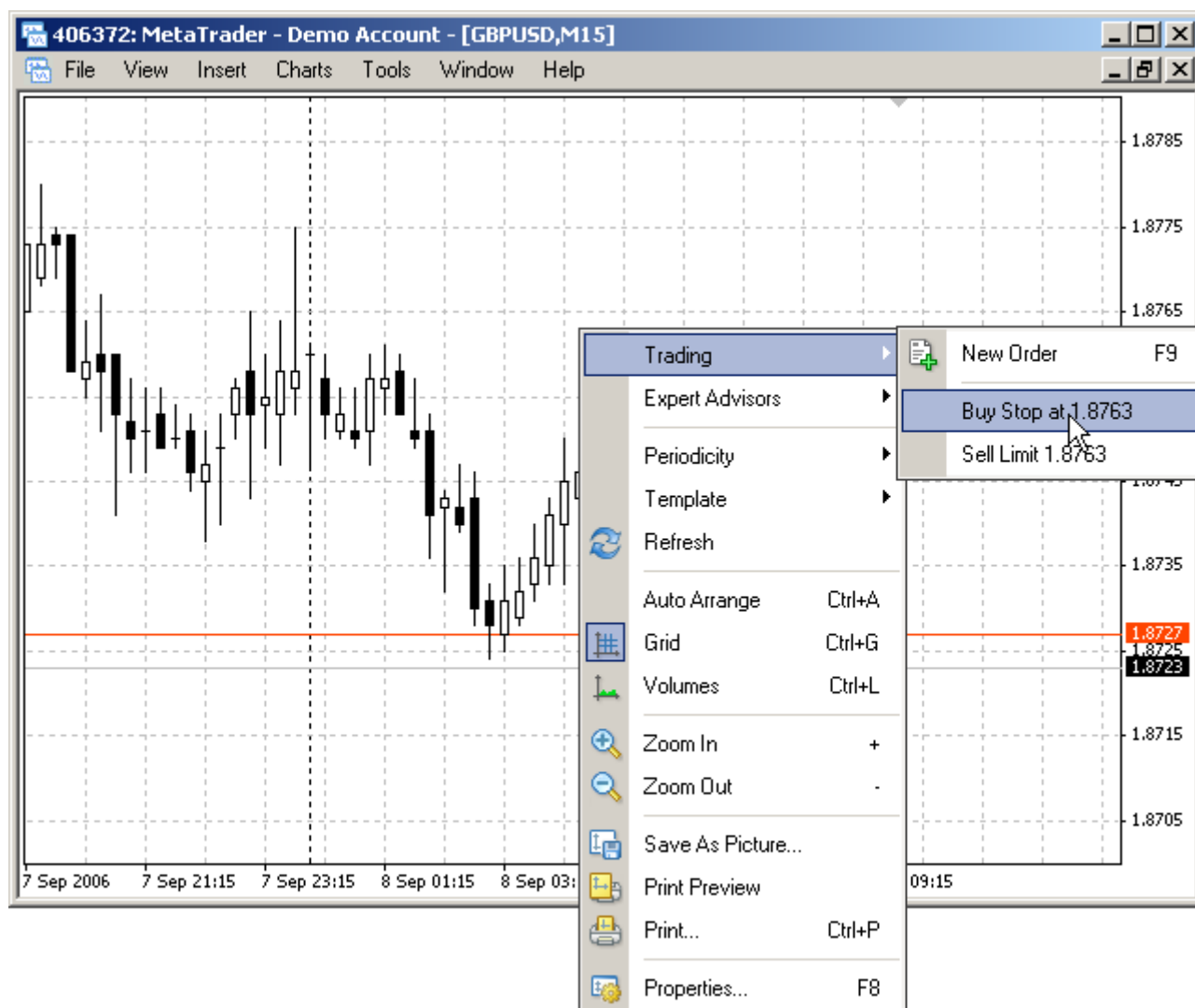
If Shift is pressed at the moment of dragging, all positions for the symbol of the selected order available in the "Account History" tab will be displayed.





15. How to easily place pending orders?

There is no need to remember conditions, on which the type of pending orders to be placed depends. Just click with the right mouse button on the desired point in the chart where you would like to place the order and select the "Trading" command in the context menu. You will see the types of pending orders that can be placed in this selected point:



After one of the types has been selected, the window of order creation/modification with partly filled fields will open. It just remains to specify Stop Loss and/or Take Profit values.

Chalk Up

Pending orders can be of four types:

- **Buy Limit** — the current price level is above the value of the order to be placed.
- **Buy Stop** — the current price level is below the value of the order to be placed.
- **Sell Limit** — the current price level is below the value of the order to be placed.
- **Sell Stop** — the current price level is above the value of the order to be placed.





16. How to easily modify Stop Loss and/or Take Profit?

To modify Stop Loss and/or Take Profit, double-click on one of these fields in the order line.

Order	Time	Type	Lots	Symbol	Price	S / L	T / P	Price	Swap	Profit
4207082	2006.09.0...	buy	0.10	eurusd	1.2718	0.0000	0.0000	1.2715	0.00	-3.00

Balance: 5 030.00 Equity: 5 027.00 Margin: 127.18 Free margin: 4 899.82 Margin level: 3952.67%-3.00

Trade | Account History | News | Alerts | Mailbox | Journal

After that, enter necessary values in the newly opened window.

Order #4207082 buy 0.10 lot EURUSD at 1.2718 sl: 0.0000 tp: 0.0000

EURUSD

Symbol: EURUSD, Euro vs US Dollar

Volume: 0.10

Stop Loss: 0.0000 Take Profit: 0.0000

Comment:

Type: Modify Order

Modify Order

Level: 8 points Level: 5 points

Copy as: 1.2710 Copy as: 1.2718

Stop Loss: 0.0000 Take Profit: 0.0000

Modify #4207082 buy 0.10 EURUSD sl: 0.0000 tp: 0.0000

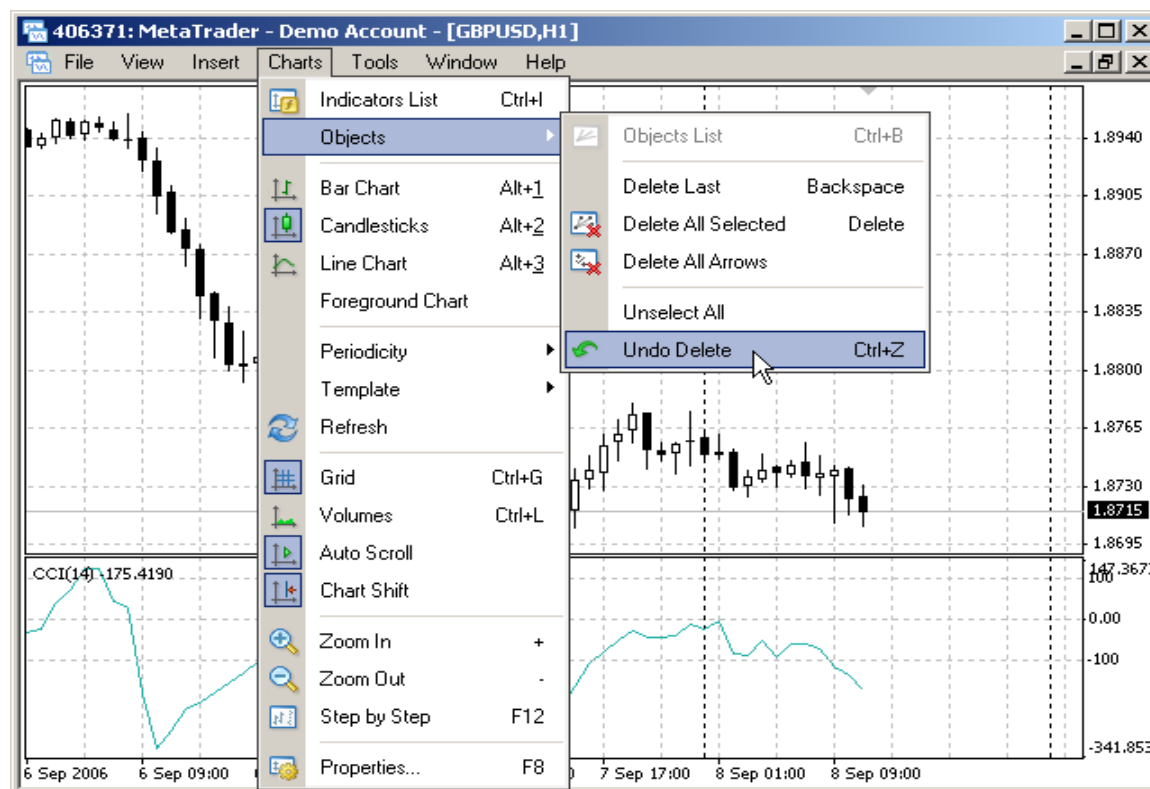
Stop Loss or Take Profit you set must differ from market price by at least 5 pips.



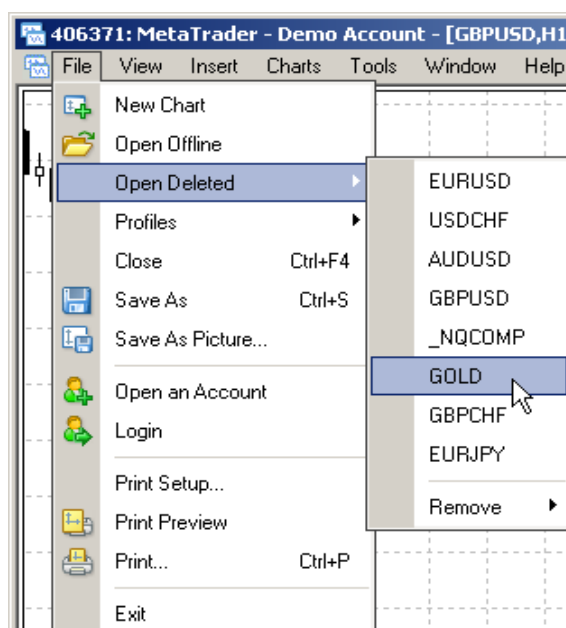


17. How to recover deleted object/chart?

If you have deleted an object by accident, press Ctrl+Z to undo:



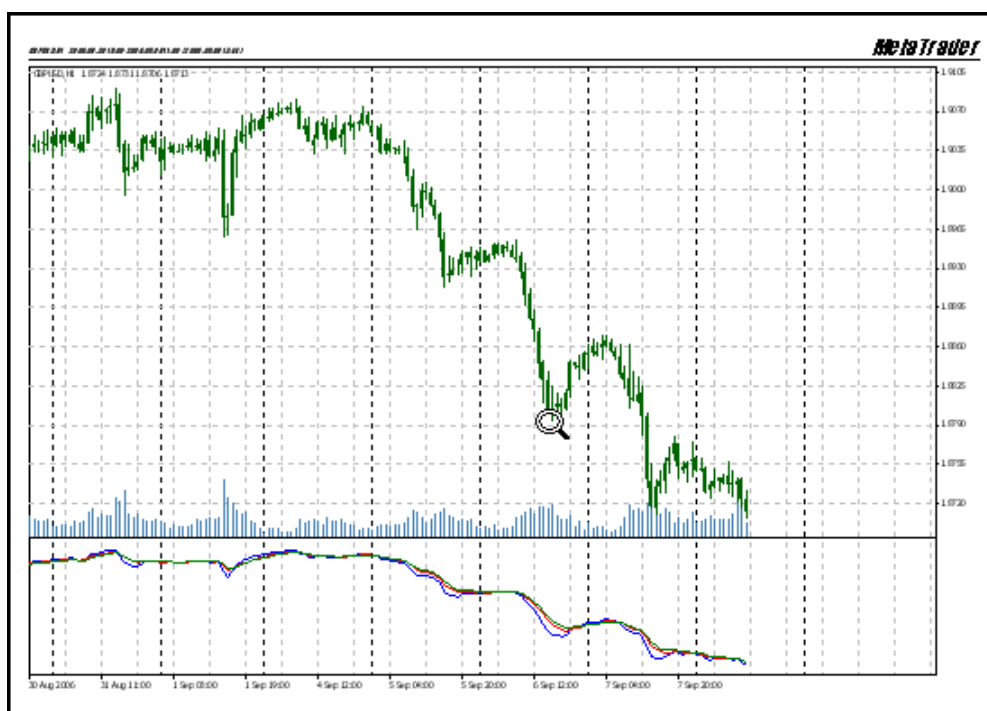
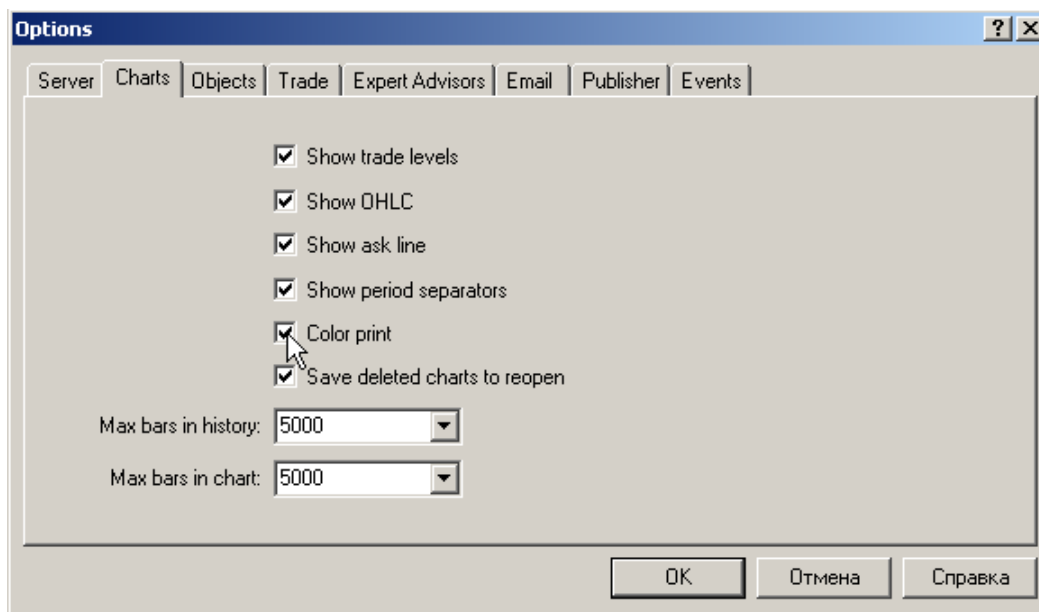
Charts closed by accident can be reopened with all their settings using the "File → Open Deleted":





18. How to print a chart?

Press Ctrl+P to print out a chart. The chart is printed black and white by default, but it can also be printed in color. Just check the "Color print" field in the "Charts" tab of the "Tools → Options" menu:

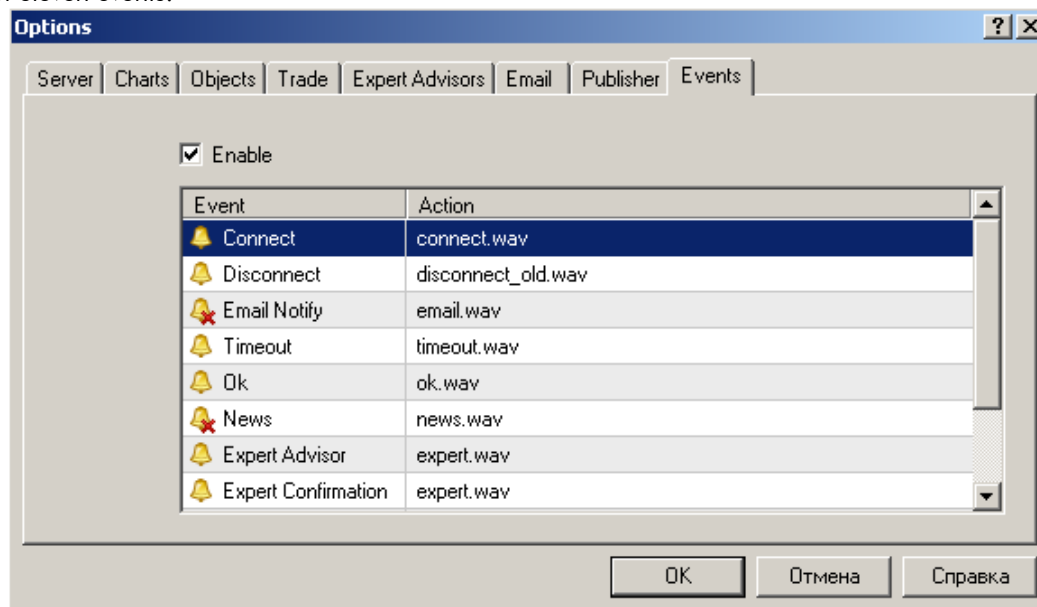




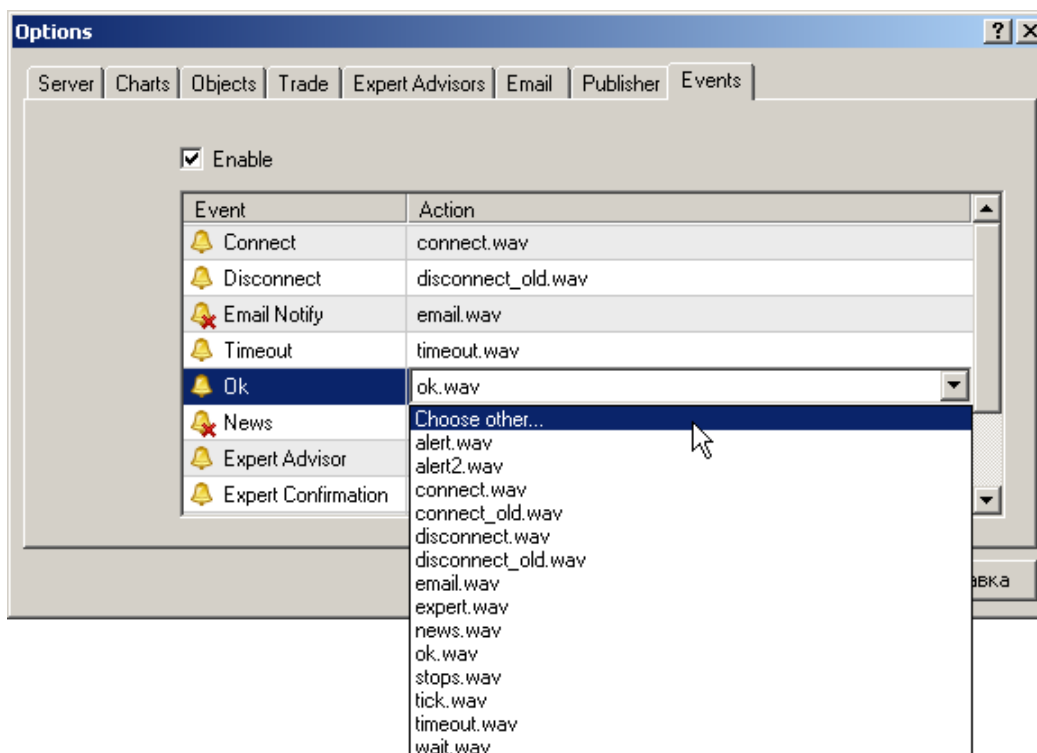
19. How to set an alerting system?

System Events

Open the "Tools → Options" menu and go to the "Events" tab. By default, a WAV file is used to alert about one of eleven events:

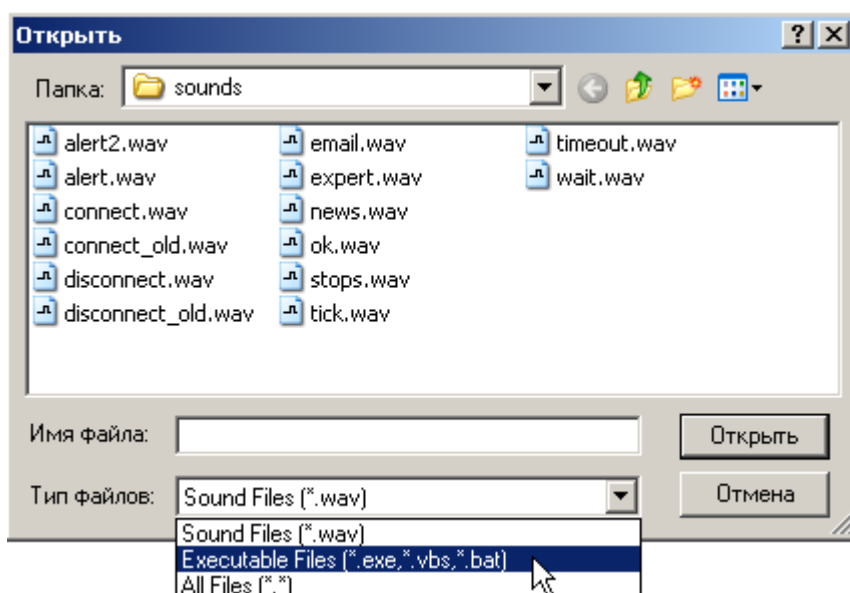


These files can be found in the \MetaTrader 4\sounds\ directory of the Client Terminal. The alert can be modified as desired. To do so, open the popup list in the "Action" column by double-clicking with the left mouse button on the selected line:





The alert can be both a WAV file and an executable file ("EXE", "VBS", "BAT").

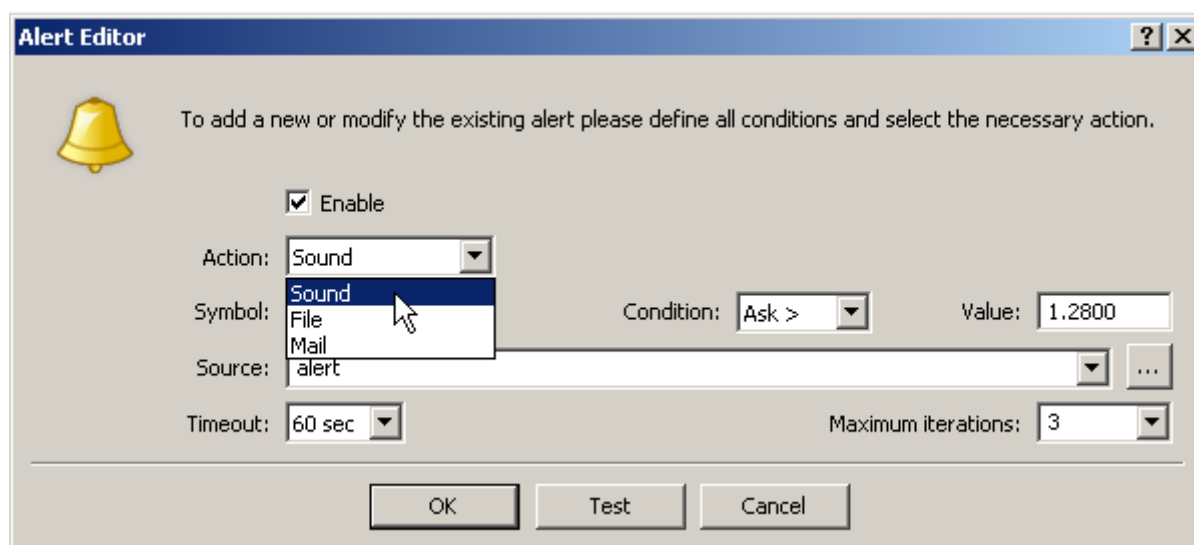


If a file of another type is chosen for alerting, the application related to this file type will be launched. After having selected an action, press Enter to confirm the choice. The event alert can be disabled by double-clicking with the left mouse button on the line in the "Event" column.

User-Defined Events

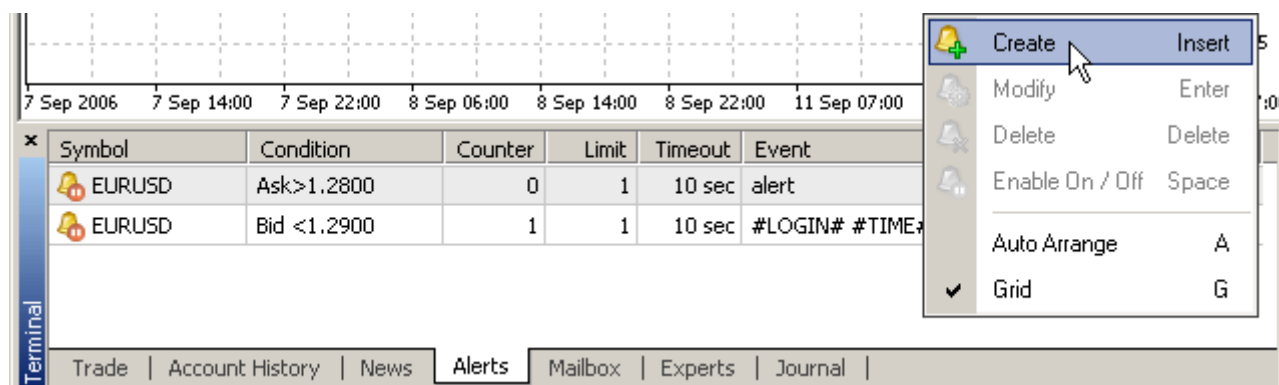
Custom events can be of two types:

- the price reaches the pre-defined value for the desired symbol;
- the pre-defined timeout is reached.





To set up alert, you have to go to the "Alerts" tab in the "Terminal" window and press Insert:

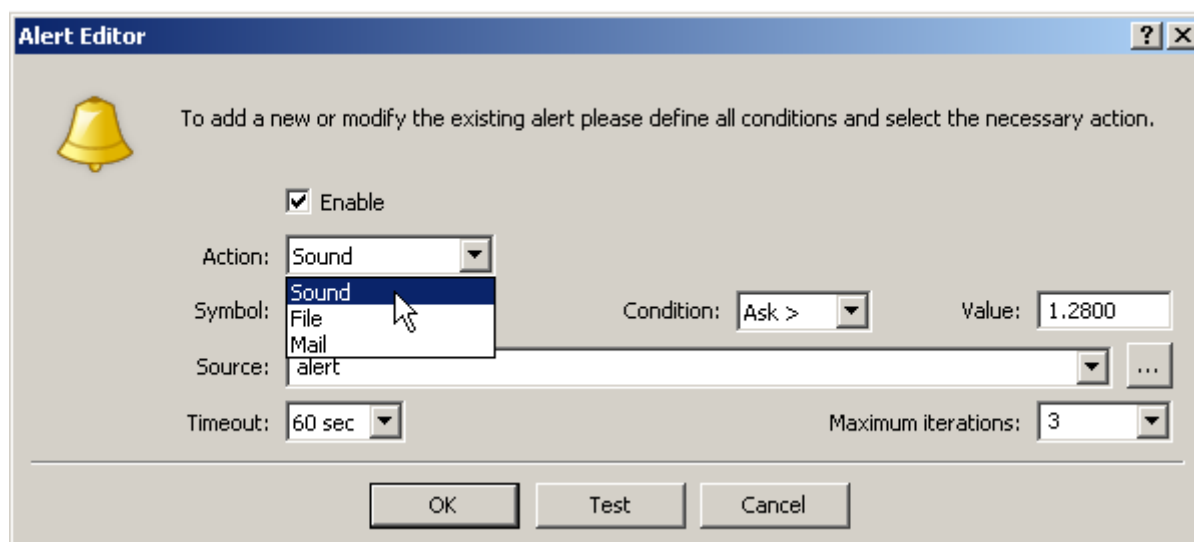


The alerts can be enabled/disabled by pressing Space, and modified by pressing Enter.

Alerts can be of three types: a sound alert, an executable file, an emailed message. For all alert types, it is necessary to specify the "Symbol" and conditions (fields "Condition" and "Value"), at meeting of which the alert will trigger. In the fields named "Timeout" and "Maximum iterations", it should be specified how many times and with what regularity the alert will trigger.

Sound Alerts

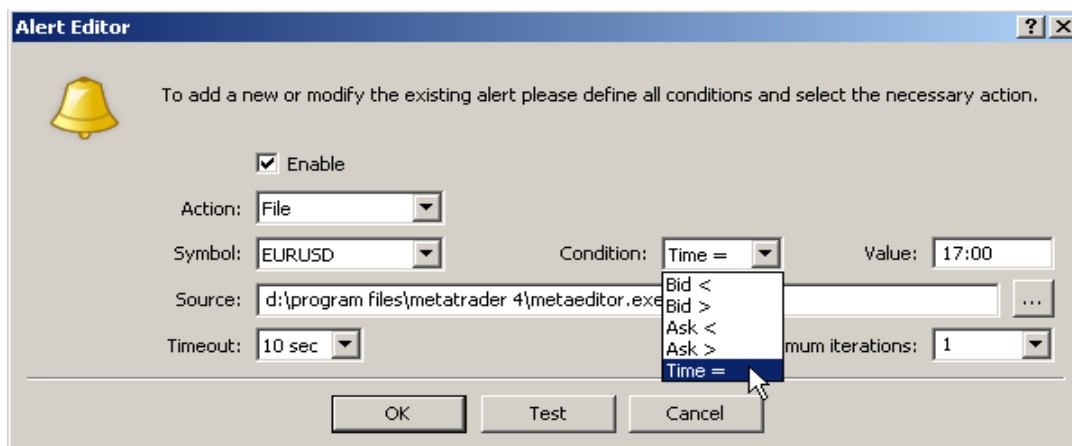
Both files stored in the \MetaTrader 4\sounds\ directory of the Client Terminal and any other files can be used as sound alerts: "WAV", "MP3", "WMI". If a file in the "MP3" or "WMI" format is chosen, the application related to these file types will be launched at alert triggering.





Executable Files

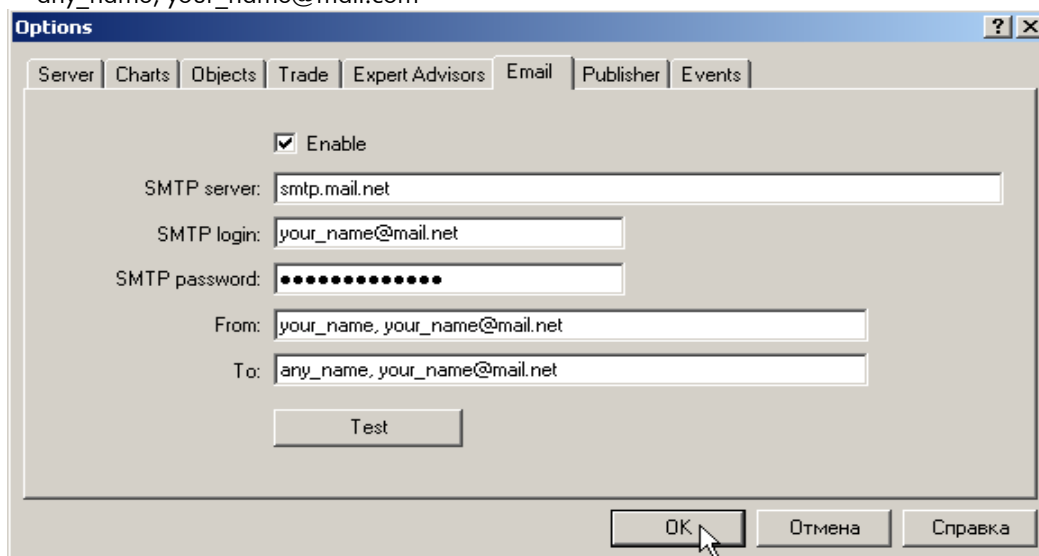
Executable files can be in formats of "EXE", "VBS", "BAT". If a file of any other format has been chosen, the application related to these file types will be launched at alert triggering.



20. How to set an email messages alerting system?

To get alert messages via email, it is necessary to make presetting in the "Email" tab of the "Tools → Options" menu. Check the "Enable" field and enter your email server settings in the corresponding fields. In each field, you can see red prompts about the data format to be entered.

- SMTP server – address of your mailing server when accessed via SMTP. Please do not forget to specify the port number separated by a colon. It is usually port 25. Example: smtp.mail.com:25
- SMTP login – it is usually your email address. Example: your_name@mail.com
- SMTP password – a password used to access to your mailbox.
- From: – you should enter the login ("Your name") and your email address on the same server, the SMTP of which you would like to use. As a rule, the login coincides with the first part of the email address, but it can be skipped. Example: your_name, your_name@mail.com
- To: – email address you would like to send alerts to. The "Your name" part of the address can be skipped. In general, the "To:" field should be filled out with any real email address. Example: any_name, your_name@mail.com






Click on the "Test" button and check whether the message has been delivered to the email address you have specified in the "To:" field. If all settings have been written correctly, the message: "Mail: 'Test message' has been sent" must appear in the "Journal".

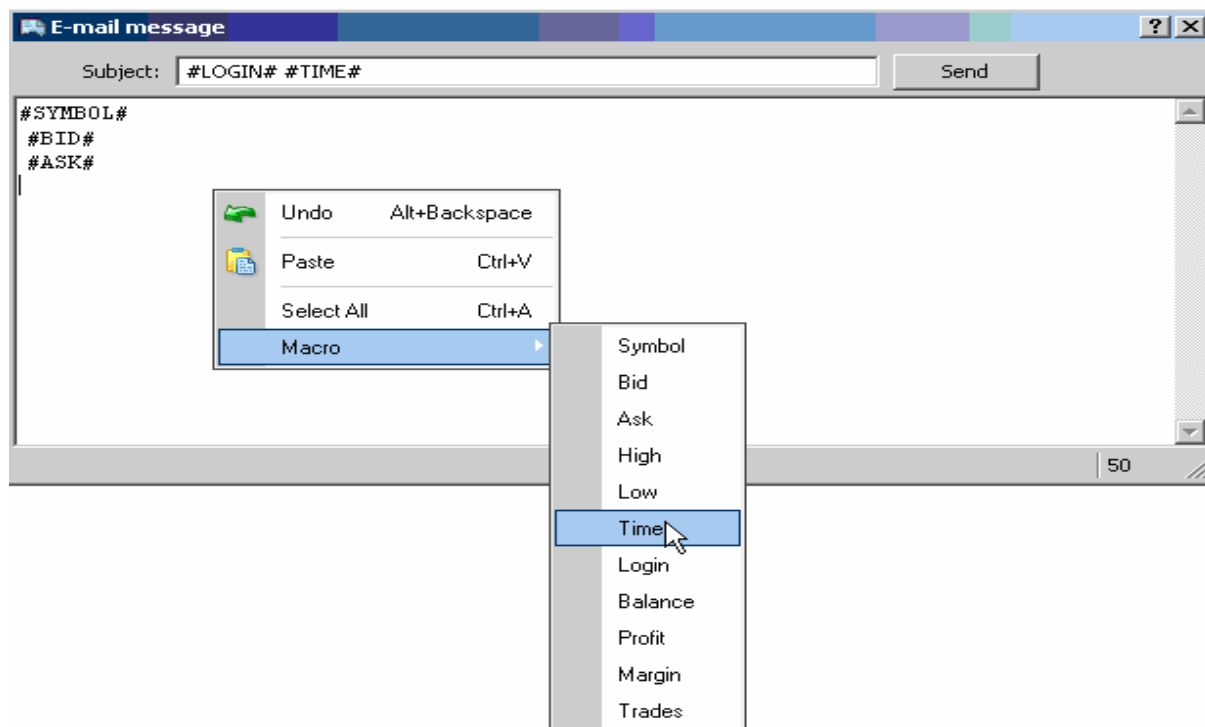
For sms messages to be sent, you have to specify the email address provided by your cellular operator in the "To:" field. To use the operator's SMTP server as such, you have to verify its settings on the operator's website or at the accounts department. Please keep in mind that not all cellular operators permit to use their SMTP servers without calling to POP3 servers.

Then the alert as such can be created. To do so, press Insert in the "Alerts" tab in the "Terminal" window. Fill out all the fields:

The 'Alert Editor' dialog box is shown. It has a title bar with a question mark and a close button. Inside, there is a yellow bell icon and a text instruction: 'To add a new or modify the existing alert please define all conditions and select the necessary action.' Below this, there are several fields: 'Enable' with a checked checkbox, 'Action:' with a dropdown menu showing 'Mail', 'Symbol:' with a dropdown menu showing 'EURUSD', 'Condition:' with a dropdown menu showing 'Bid <', 'Value:' with a text box showing '1.2900', 'Source:' with a text box containing '#LOGIN# #TIME#\n#SYMBOL#\ #BID#\ #ASK#' and an ellipsis button, 'Timeout:' with a dropdown menu showing '10 sec', and 'Maximum iterations:' with a dropdown menu showing '1'. At the bottom, there are three buttons: 'OK', 'Test', and 'Cancel'.



To create the message text, click on the  button near the "Source" line. Enter the subject and the body of the message. Both in the subject and in the message body, you can use "Macros". The list of macros is available from the context menu:



After this, click on the "Send" button.

Having filled out other fields, click on the "Test" button and check whether the alert has income at your mailbox. If the message has been sent successfully, the corresponding record will appear in the "Journal":

Time	Message
2006.09.13 15:5...	Mail: 'Test message' has been sent
2006.09.13 15:5...	'276857': login (4.00, #29253C66)
2006.09.13 15:5...	MetaTrader 4.00 build 197 started





21. How to publish a report on FTP Server?

The terminal allows publishing in internet reports about the account status on a periodic predetermined base. For this, it is necessary to set up connection to the internet via FTP. Open the "Tools → Options" menu and go to the "Publisher" tab.

The red color specifies the format to be used for entering the data.

The image shows the 'Options' dialog box with the 'Publisher' tab selected. The 'Enable' checkbox is checked. The 'Account' field contains '406371'. The 'Refresh every' dropdown is set to '5' minutes. The 'FTP server' field contains 'ftp.metaquotes.net'. The 'FTP path' field contains '/my_accounts'. The 'FTP login' field contains 'your_ftp_login'. The 'FTP password' field is masked with dots. The 'Passive mode' checkbox is unchecked. A 'Test' button is located below the password field. At the bottom are 'OK', 'Отмена', and 'Справка' buttons.

The data transfer can be performed in either active or passive mode. The main difference between them is the side that opens connection to transfer data. In the active mode, the FTP server initiates connection, and in the passive one, the customer does.

Periodicity is the minimal time interval with which the report will be published. At that, if a trading position or order changes in the terminal, the report will be forcedly and immediately published. This mechanism provides data accuracy (except for the current market price and the profit) in the report.

After all settings have been made, click on the "Test" button. If the report has been successfully sent, the corresponding line will appear in the "Journal".

Time	Message
2006.09.13 16:03:10	Publisher: ok
2006.09.13 16:03:07	Publisher: starting
2006.09.13 16:03:06	'276857': login (4.00, #29253C66)
2006.09.13 16:03:04	MetaTrader 4.00 build 197 started

Terminal | Trade | Account History | News | Alerts | Mailbox | Journal





22. Indicators

No one can imagine the analysis of financial markets without technical indicators at the present time. You can create your own indicators or use the embedded ones. The embedded indicators work faster than the custom ones and have a number of features that cannot be implemented in custom indicators. For example, there are indicators that can be attached to a chart both in the main window and in a sub window. Besides, indicator can be calculated not on price and/or volume values, but on the values of another indicator.

Clever use of the embedded indicators will help to go far without diving into programming the own ones.

There are thirty embedded indicators in the MetaTrader 4 Client Terminal. Conditionally, all indicators can be divided into four groups:

- oscillators;
- trend indicators;
- Bill Williams' indicators;
- volumes.

Trend indicators help to allocate price movement in one direction and detect, synchronously or delayed, the moments when trends turn. Oscillators allow detecting such turns synchronously or in advance. Bill Williams' indicators have properties of both oscillators and trend indicators. Volumes analyze not the price movements as they are, but the amount of ticks that have income during the bar.

Summary Table of Embedded Indicators Characteristics

Using the links in the table, you can view the code source of a custom indicator that corresponds with the embedded one.

Indicator	Accepted Abbreviation	Type	Separate / Main	Association with s / m	Additional lines	Period / Shift	Apply to	MA Method	Levels
Acceleration/Deceleration Oscillator	AC	b	s	+/-	-	-/-	-	-	+
Accumulation/Distribution	A/D	v	s	+/-	-	-/-	-	-	+
Alligator	Alligator	b	m	-/+	-	+/+	+	+	-
Average Directional Movement Index	ADX	t	s	+/-	-	+/-	+	-	+
Average True Range	ATR	o	s	+/-	-	+/-	-	-	+
Awesome Oscillator	AO	b	s	+/-	-	-/-	-	-	+
Bears Power	Bears	o	s	+/-	-	+/-	+	-	+
Bollinger Bands	BB	t	m	+/+	+	+/+	+	-	+





<u>Bulls Power</u>	Bulls	o	s	+/-	-	+/-	+	-	+
<u>Commodity Channel Index</u>	CCI	t	s	+/+	+	+/-	+	-	+
<u>DeMarker</u>	DeM	o	s	+/-	-	+/-	-	-	+
<u>Envelopes</u>	Env	o	m	+/+	+	+/+	+	+	+
<u>Force Index</u>	FRC	o	s	+/-	-	+/-	+	+	+
<u>Fractals</u>	Fractals	b	m	-/+	-	-/-	-	-	-
<u>Gator Oscillator</u>	Gator	b	s	+/-	-	+/+	+	+	+
<u>Ichimoku Kinko Hyo</u>	Ichimoku	o	m	-/+	-	+/-	-	-	-
<u>Market Facilitation Index</u>	BW MFI	b	s	+/-	-	-/-	-	-	+
<u>Momentum</u>	Momentum	o	s	+/+	+	+/-	+	-	+
<u>Money Flow Index</u>	MFI	v	s	+/-	-	+/-	-	-	+
<u>Moving Average</u>	MA	t	m	+/+	+	+/+	+	+	+
<u>Moving Average Convergence/Divergence</u>	MACD	o	s	+/-	-	+/-	+	-	+
<u>Moving Average of Oscillator</u>	OsMA	o	s	+/-	-	+/-	+	-	+
<u>On Balance Volume</u>	OBV	v	s	+/-	-	-/-	+	-	+
<u>Parabolic SAR</u>	Parabolic	t	m	-/+	-	+/-	-	-	-
<u>Relative Strength Index</u>	RSI	o	s	+/+	+	+/-	+	-	+
<u>Relative Vigor Index</u>	RVI	o	s	+/-	-	+/-	-	-	+
<u>Standard Deviation</u>	StdDev	t	s	+/+	+	+/+	+	+	+
<u>Stochastic Oscillator</u>	Stochastic	o	s	+/-	-	+/+	+	+	+
<u>Volumes</u>	Volumes	v	s	+/-	-	-/-	-	-	+
<u>Williams' Percent Range</u>	%R	o	s	+/-	-	+/-	-	-	+





Table field descriptions

Type

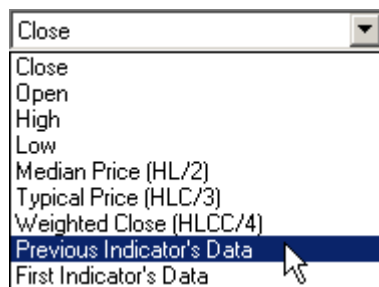
- o – oscillator;
- t – trend indicator;
- b – Bill Williams' indicator;
- v – volume.

Separate/main

- s – indicator is attached in a sub window by default;
- m – indicator is attached in the main window by default.

Association with s/m: Whether the indicator can or not be associated with the indicator already attached in a sub window (s) or in the main window (m).

Additional lines: Additional lines, Previous Indicator's Data and First Indicator's Data, appear in the "Apply to" field in the indicator's properties window when the indicator is being dragged.



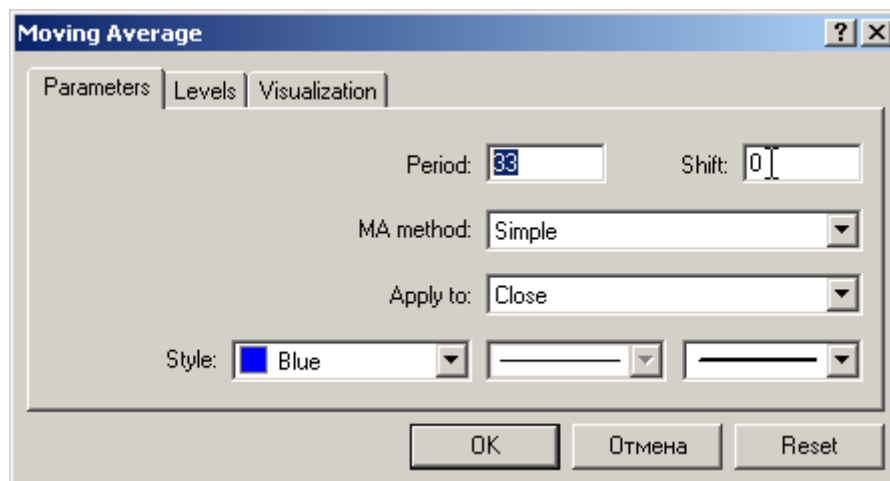
Previous Indicator's Data - data of the latest indicator attached to the main window or to a sub window. If there are no attached indicators, the Previous Indicator's Data are the chart data. And the indicator to be attached will be built based on the Close price of the chart.

First Indicator's Data - data of the indicator that was attached as the first to the main window or to a sub window. If there are no attached indicators, the First Indicator's Data are the chart data. And the indicator to be attached will be built based on the Close price of the chart.

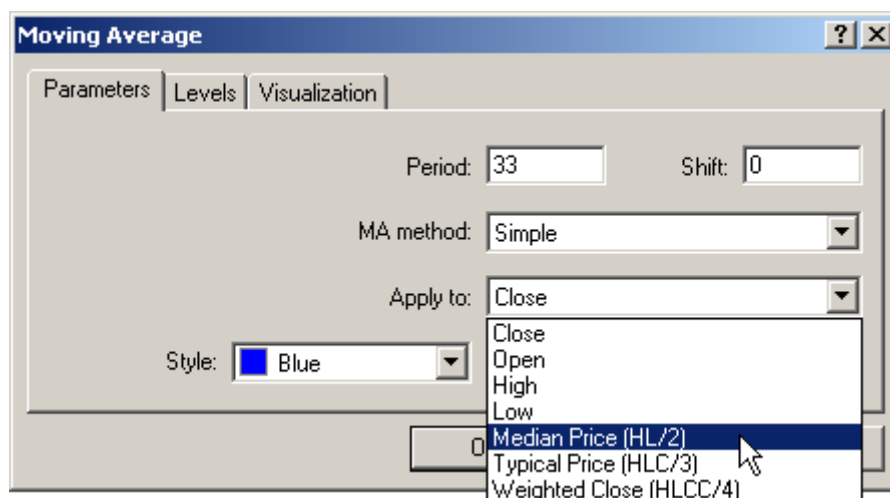




Period/shift: Availability of fields with corresponding names in the "Parameters" tab of the indicator's properties window.



Apply to: Availability of the "Apply to" field in the "Parameters" tab of the indicator's properties window.



MA Method: Availability of the field of the same name in the "Parameters" tab (choice of moving average building method).

Levels: Availability of the "Levels" tab.

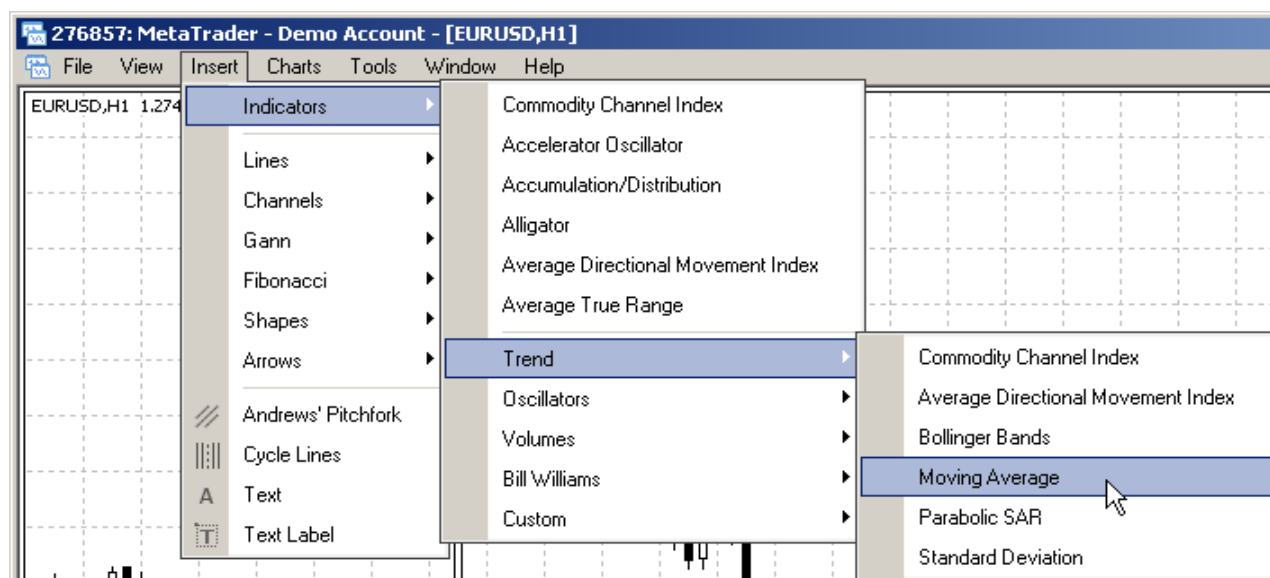





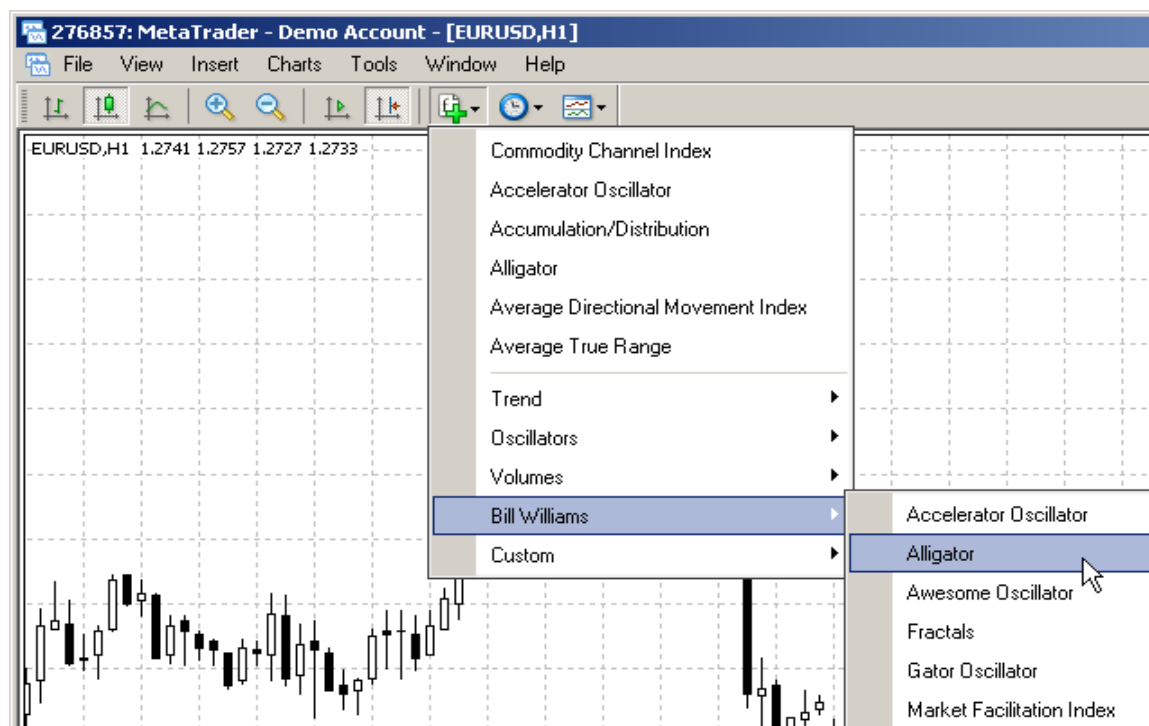
23. How to attach indicators to a chart?

An indicator can be attached to a chart in six ways:

- using the main menu command:

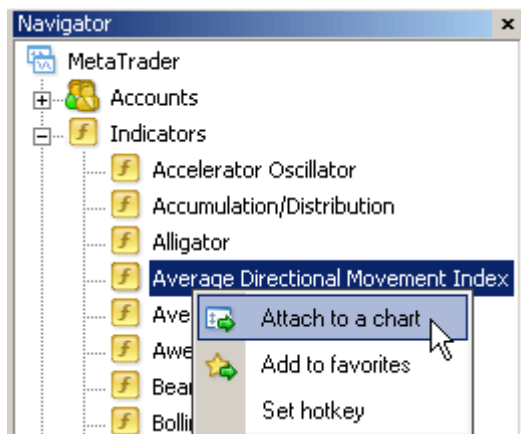


- using button  :

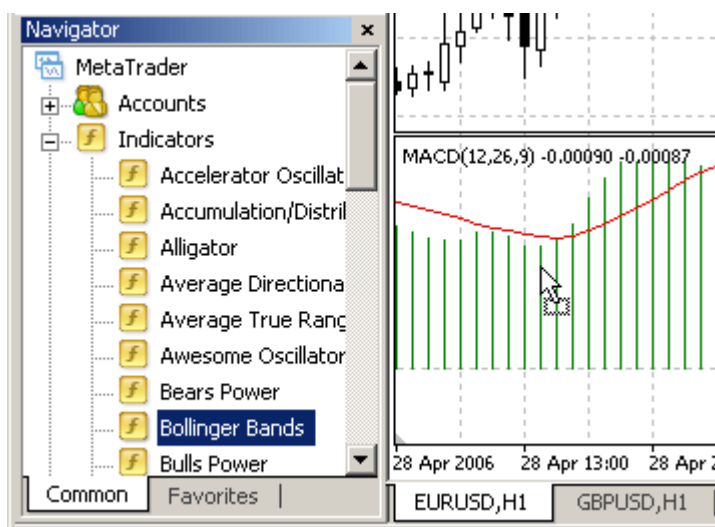




- double-clicking on the indicator name in the "Navigator" window;
- selecting the "Navigator" window context menu command:



- using the preset hot keys;
- dragging the indicator with the mouse into the main window or into the other indicator's sub window (drag-and-drop).



The first five ways do not differ from each other fundamentally. Let us call them default modes of indicator attaching. At this, the indicator will be drawn either in the chart or in a separate sub window, as by default. The fifth method, the dragging, is more interesting. Some indicators, when dragged into the chart, can be calculated from values of another indicator already attached to the chart. There are seven "special" indicators:

- Bollinger Bands;
- Commodity Channel Index;
- Envelopes;
- Momentum;





- Moving Average;
- Relative Strength Index;
- Standard Deviation.

Embedded indicators can be combined with other indicators or calculated on values of other indicators. At combining, the indicator to be attached is just displayed over the indicator already attached, but has its own scale and borders. In this case, the values of the indicator to be attached are calculated from the chart price values.

An embedded indicator that is displayed in a sub window by default can be combined with the indicator already attached in the sub window. An embedded indicator that is displayed in the main window by default can be combined with the indicator already attached in the main window.

Most embedded indicators can only be attached as in the default mode. Those seven "special" indicators can be attached both to the main window and to a sub window.

24. How to attach to the main window indicators that are opened in a sub window by default?

Indicators below are opened in a sub window by default:

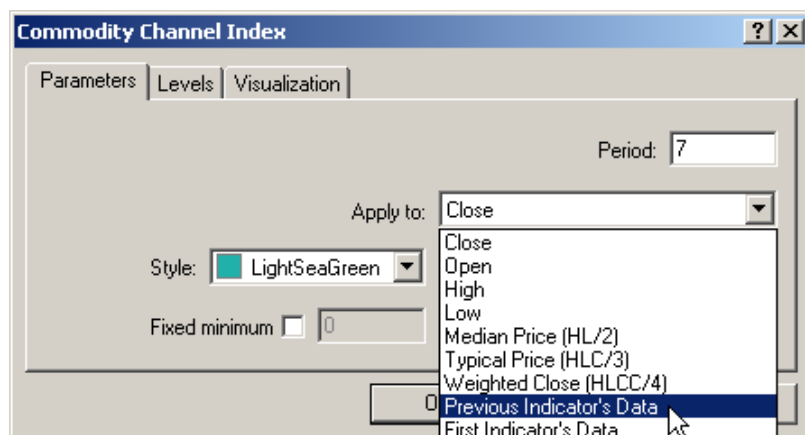
- Commodity Channel Index
- Momentum
- Relative Strength Index
- Standard Deviation

Let us study properties of these indicators by the example of Commodity Channel Index. As it was already mentioned above, this indicator will be opened in a separate window by default:



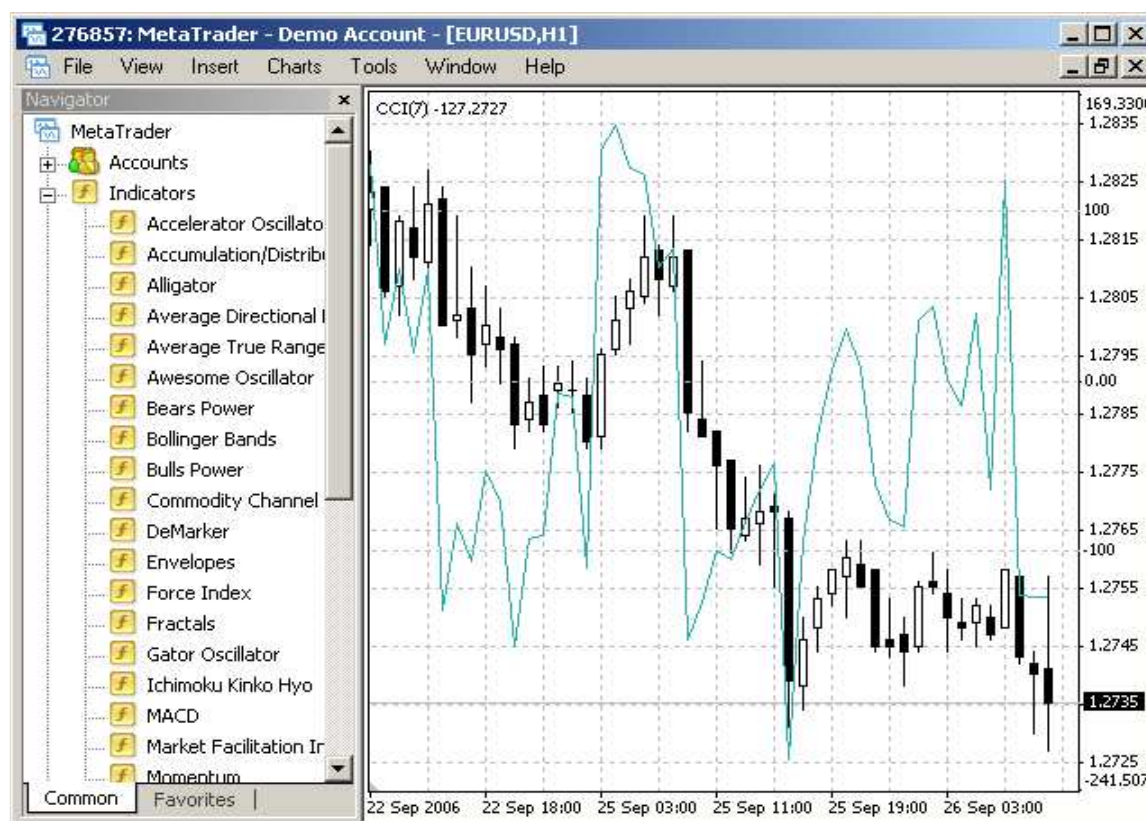


To attach CCI to the main window, one has to drag it to the chart. The indicator's properties will look as given below:



Actually, the chart is at the same time the indicator. So, if no other indicators are available, First Indicator's Data and Previous Indicator's Data - are data of the chart itself, and the drawing method on the previous indicator's values does not differ from that on the first indicator's values in any way.

Thus, to attach indicator into the chart window, one has to drag-and-drop it to the chart and select First Indicator's Data or Previous Indicator's Data. The obtained result:



Indicators Momentum, Relative Strength Index and Standard Deviation are attached to the chart window in the same way.



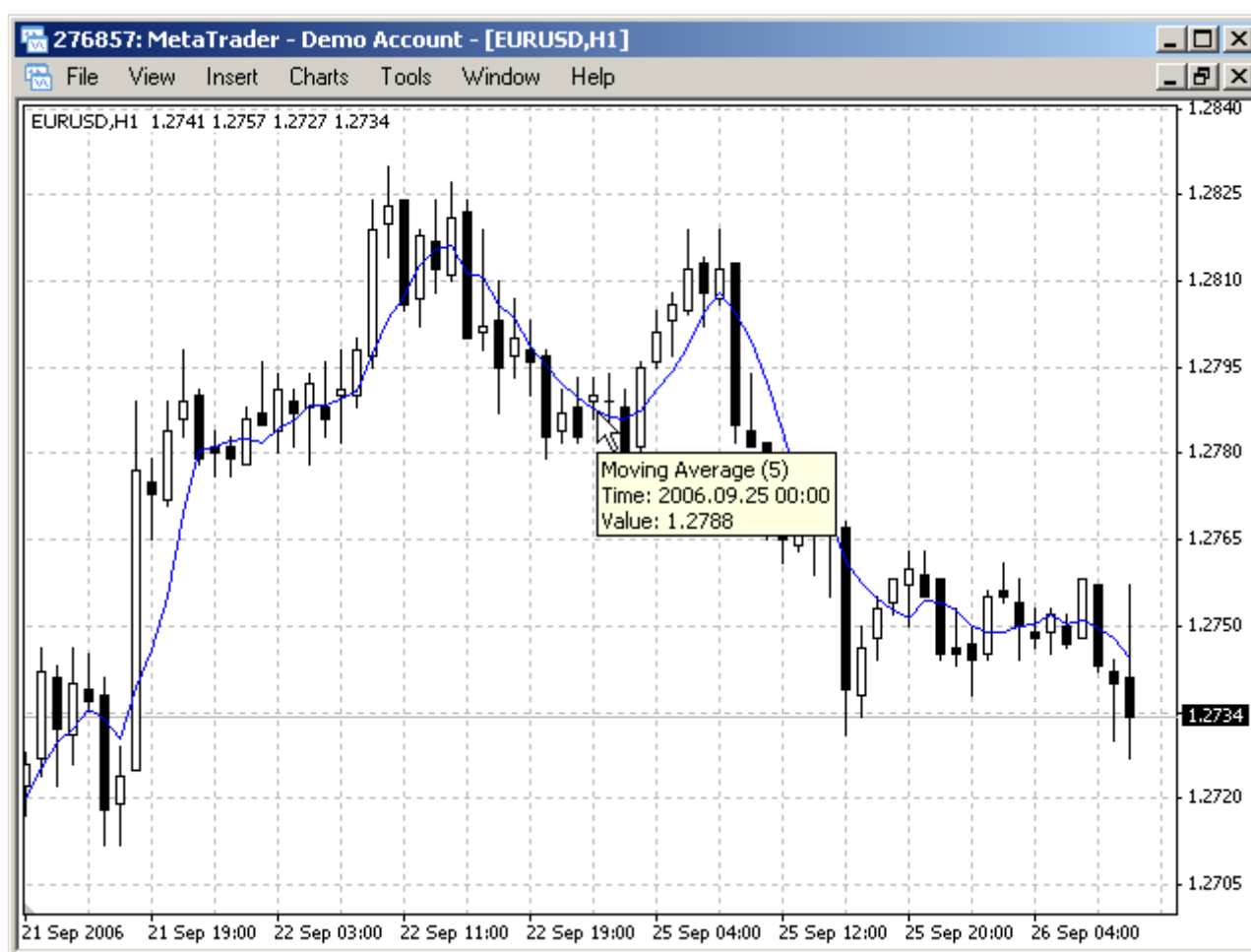


25. How to attach sub window indicators that are opened in the main window by default?

Indicators of this group are listed below:

- Bollinger Bands;
- Envelopes;
- Moving Average.

Let us consider Moving Average as an example. By default, this indicator looks as follows:

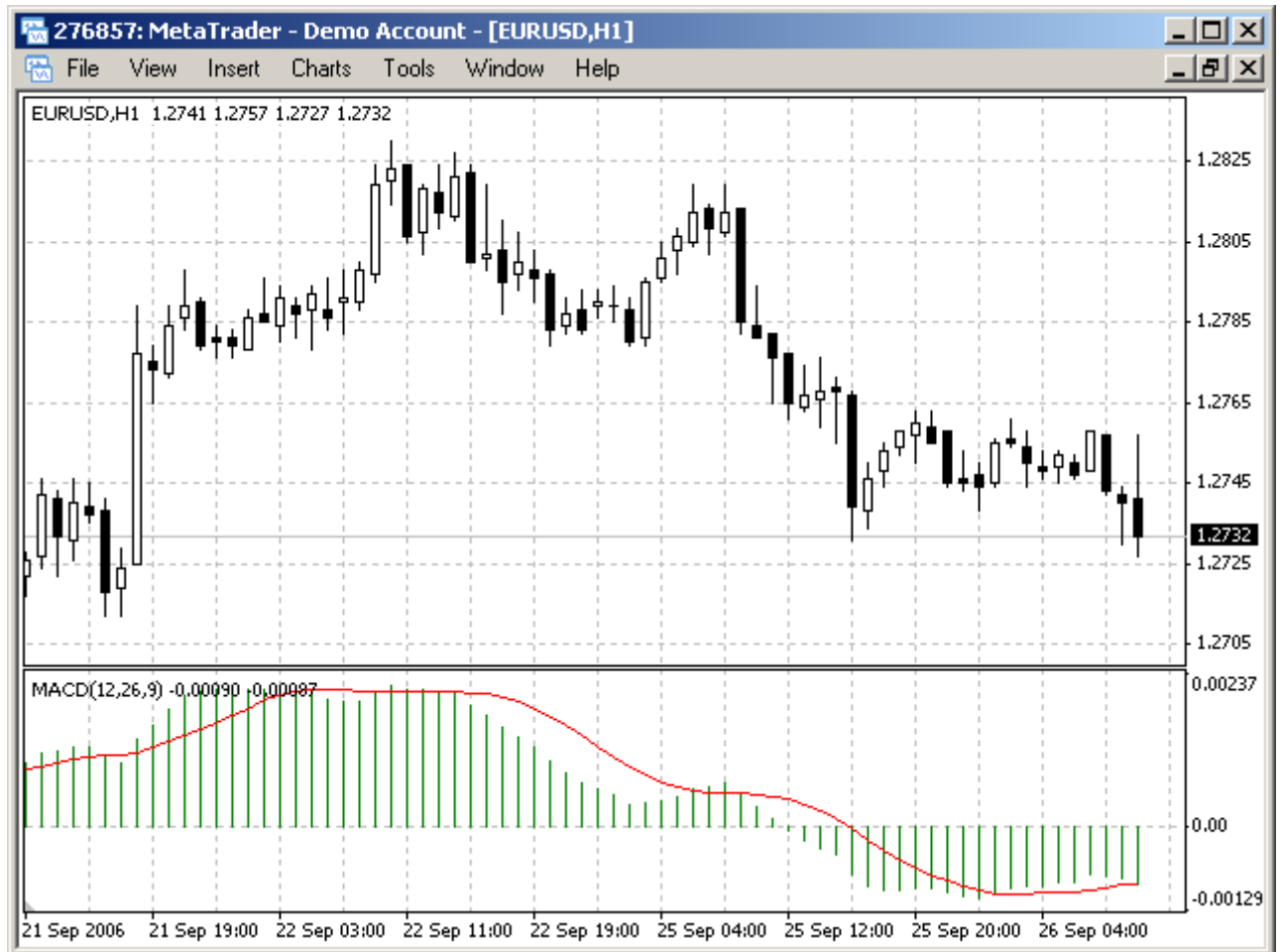


Attachment of the MA to a separate sub window, it is necessary to make some more actions than for the previous example.





First of all, a separate window must be "created". For this, let us attach to the chart any indicator that can be opened in a sub window. For example, MACD:

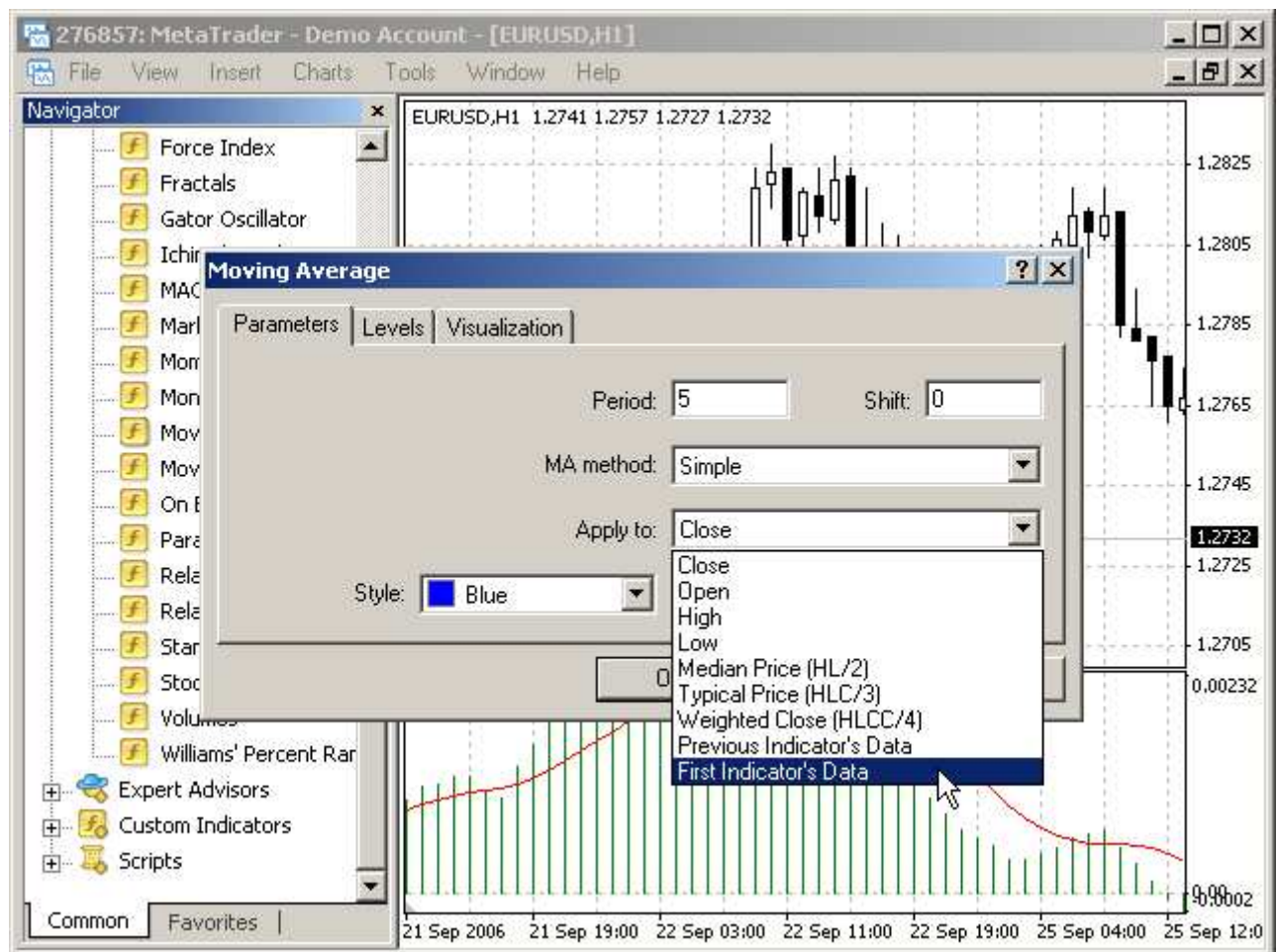


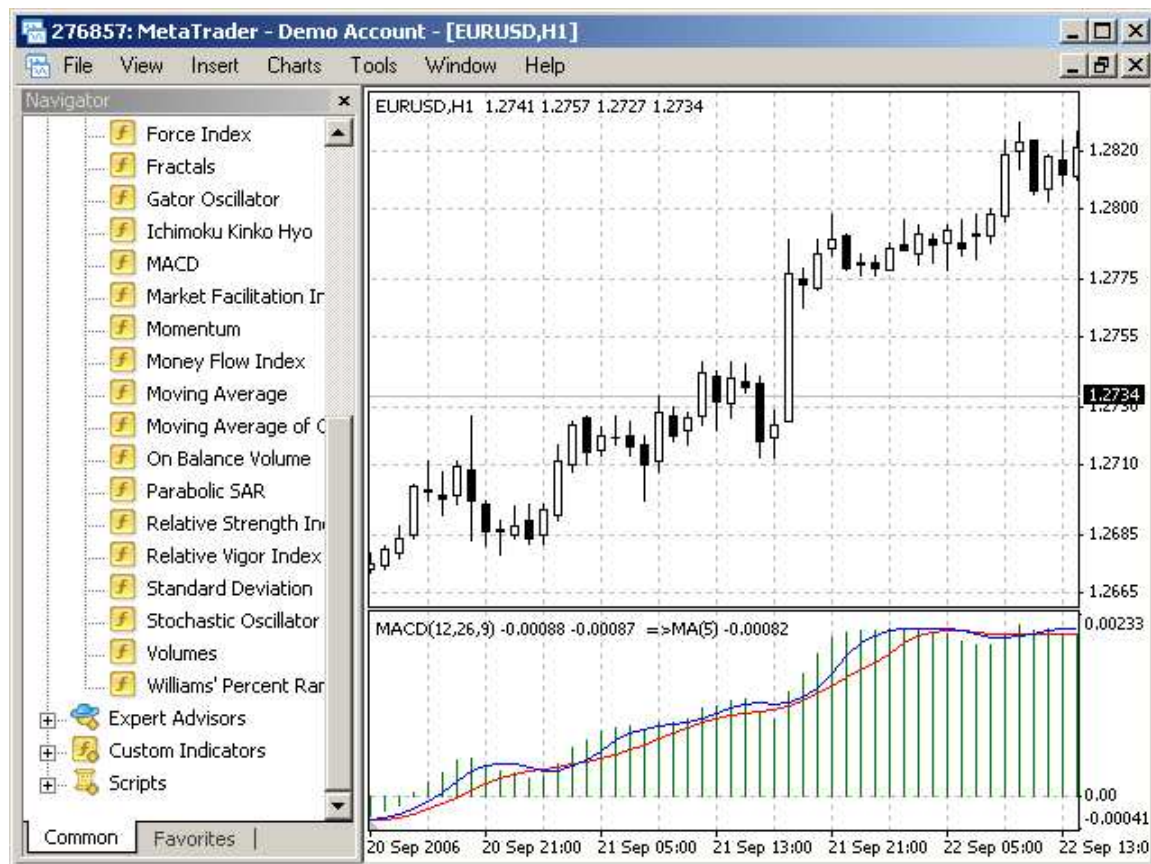
Now, we can drag the Moving Average into the MACD window and select Previous Indicator's Data or First Indicator's Data in the properties window (since there is only one indicator in the sub window, the MACD, it will be both the first and the last indicator).



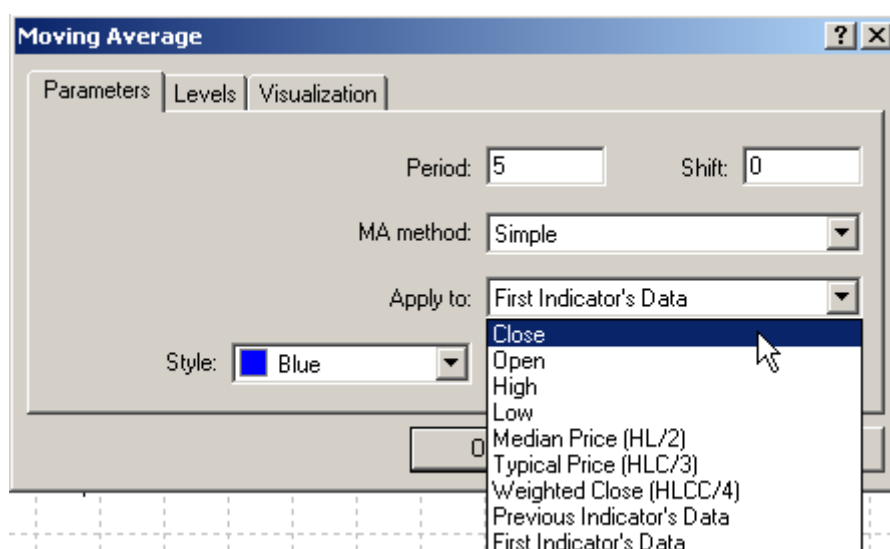


When a number of indicators are attached to one sub window, it is always possible to detect, which of them on which is built. Selection of Previous Indicator's Data is displayed as "→", that of First Indicator's Data - as "=>".



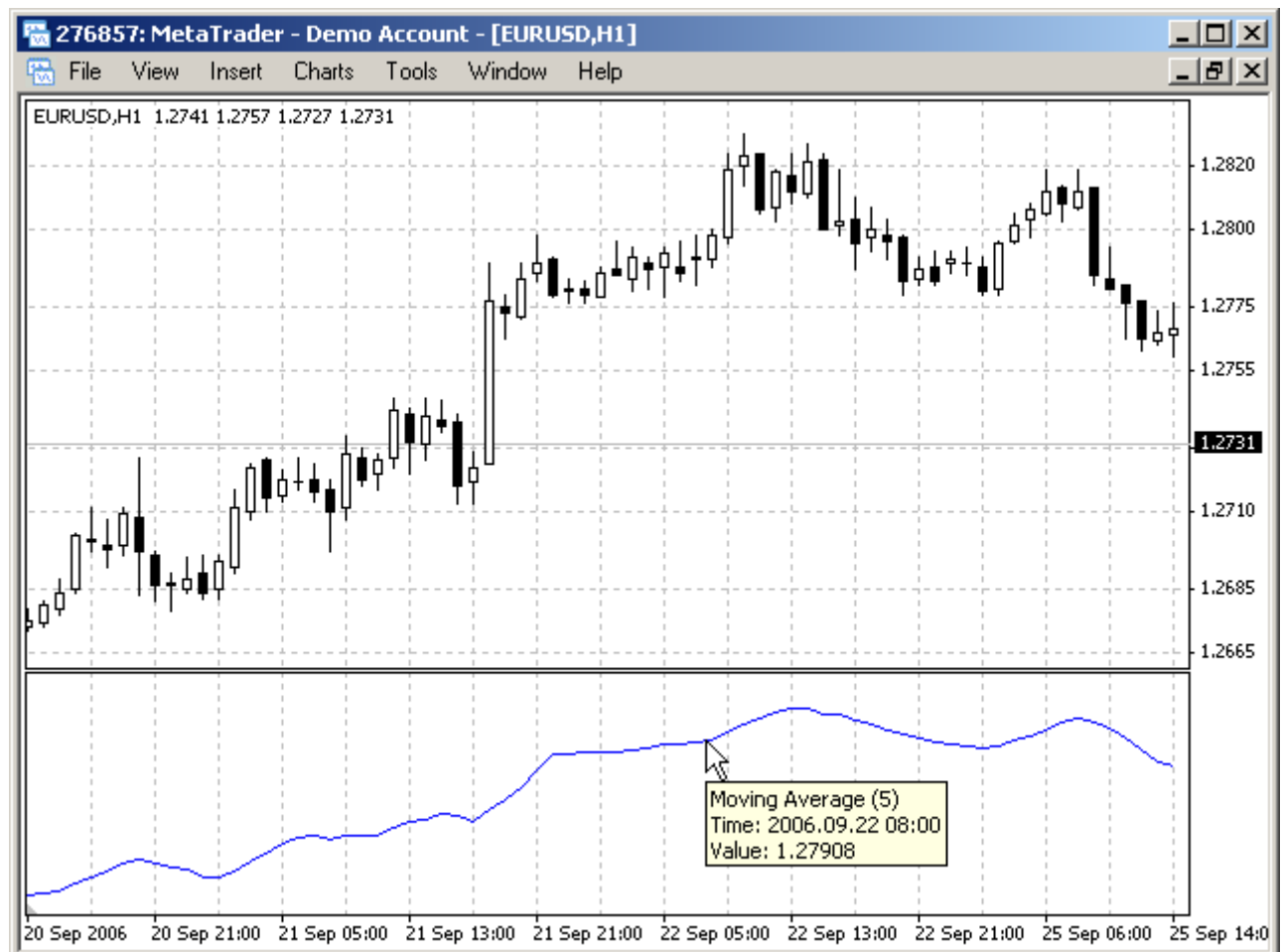


We have obtained MACD with Moving Average superimposed on it. We can stop at this, but we can also do so that only Moving Average will remain in the window. To do so, it is necessary to remove MACD. But, if we just remove it, the Moving Average, as indicator built on the MACD values, will be removed, as well. So, let us detach Moving Average from MACD first. Let us calculate on, for example, Close values.





Now, the MACD can be removed, the Moving Average will remain in the separate window.



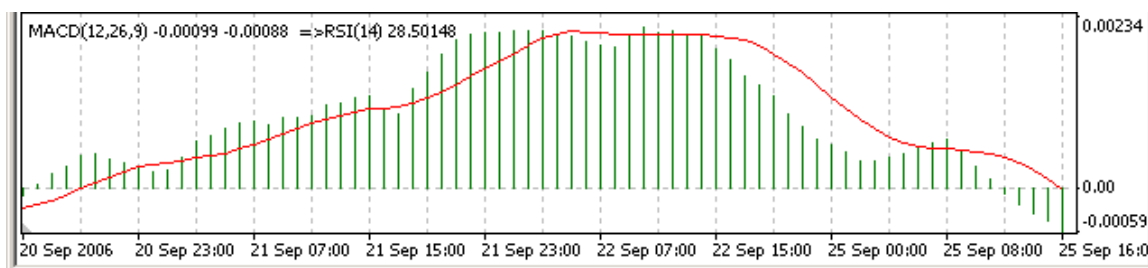
Thus, combining properties of different indicators, one can build a rather complicated system.



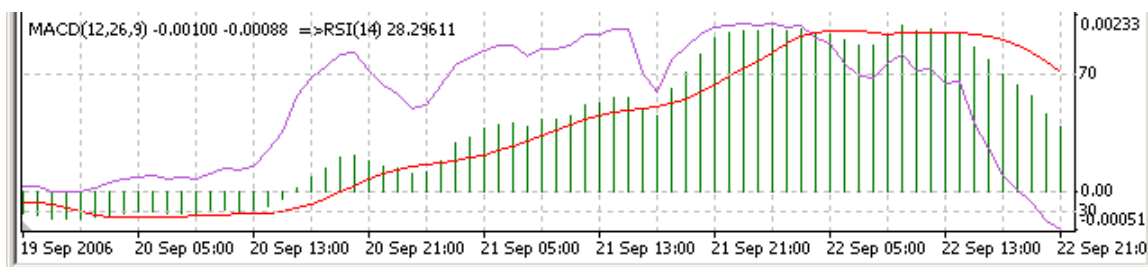
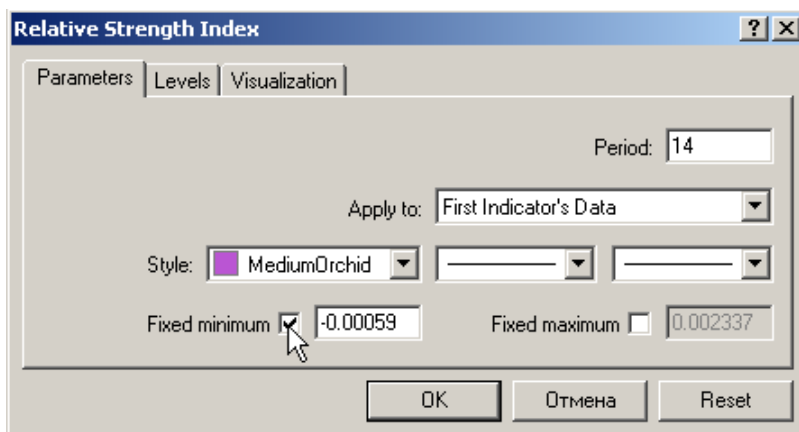


26. Common properties of indicators attaching

- If the indicator to be attached is calculated on values of the indicator that has several lines (more than one), it will be calculated on values of zero line or the main line. In the code, this line is detected using values of the first parameter of the `SetIndexStyle` function. So, for example, if the indicator to be attached is calculated on the MACD, the histogram values will be taken as the values for calculations since it is determined in the MACD code: `SetIndexStyle(0, DRAW_HISTOGRAM)`.
- Many indicators have, by default, fixed maximum and minimum, for example, RSI has. In this case, after it has been attached to another indicator, for example, MACD, their borders can misalign, i.e., RSI just will not match the MACD window.

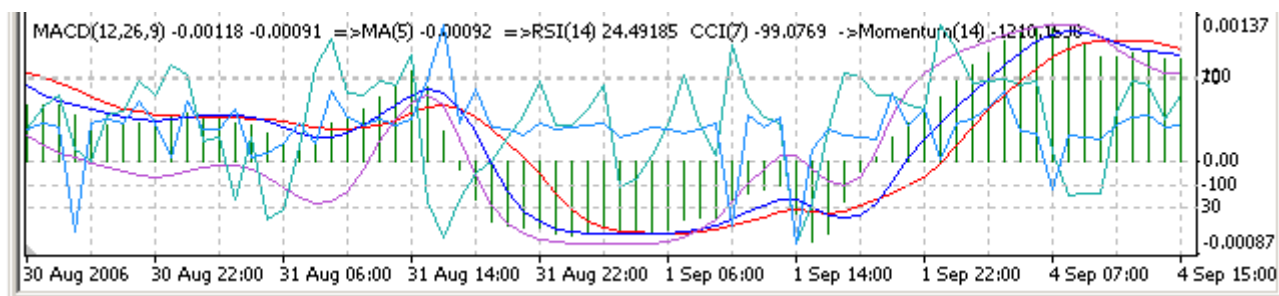


To correct this, it is necessary to uncheck the fields of maximum and minimum, and the indicators' scales will be independent on each other.





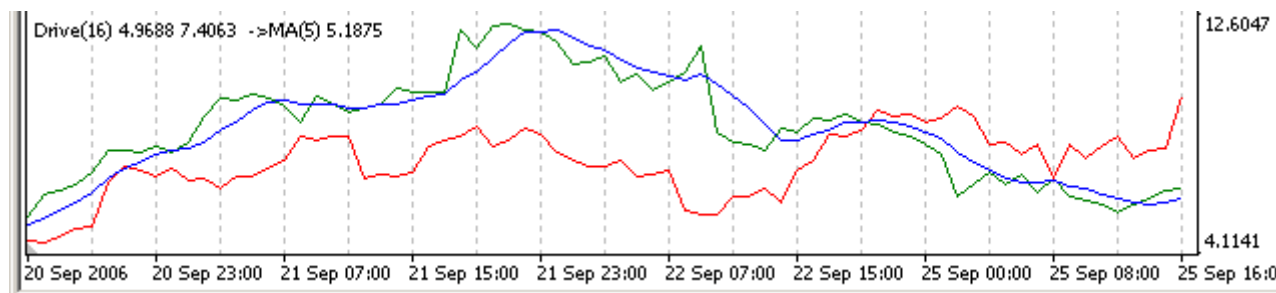
- When a number of indicators are attached to one sub window, it is always possible to detect, which of them on which is built. Selection of Previous Indicator's Data is displayed as "->", that of First Indicator's Data - as "=>".



In the above example, the indicators are built in the following way:

1. attached MACD;
2. calculated MA on the First Indicator's Data, i.e., on values of the MACD;
3. calculated RSI on the First Indicator's Data, i.e., again on values of the MACD;
4. combined CCI with MACD;
5. calculated Momentum on the Previous Indicator's Data, i.e., on values of the CCI.

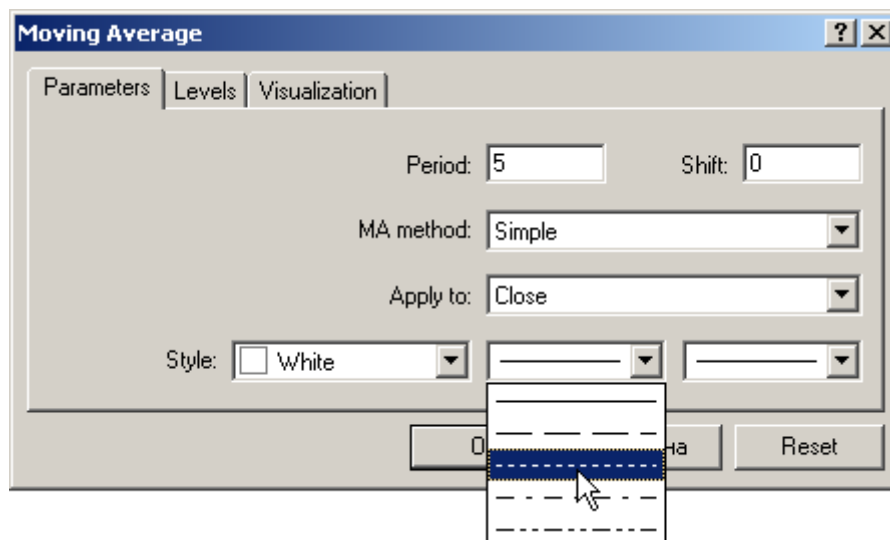
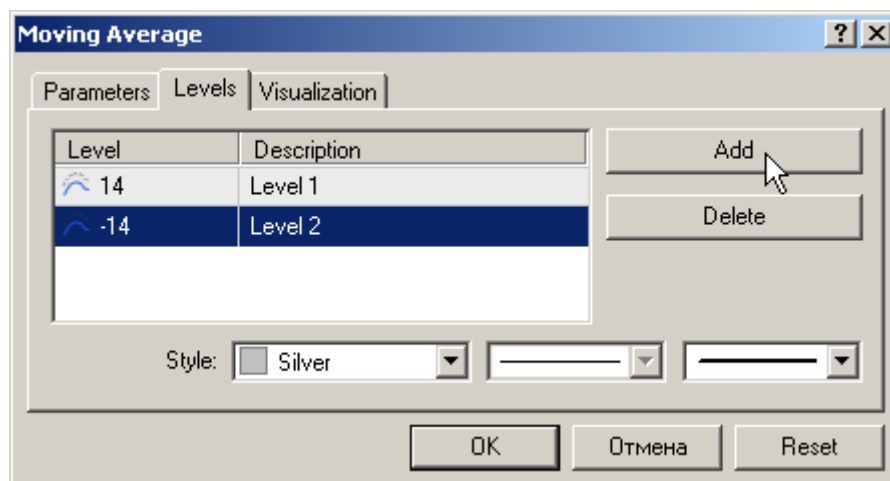
- Embedded indicators can be superposed onto not only other embedded indicators, but also onto custom indicators. The attaching principles are the same. For example:





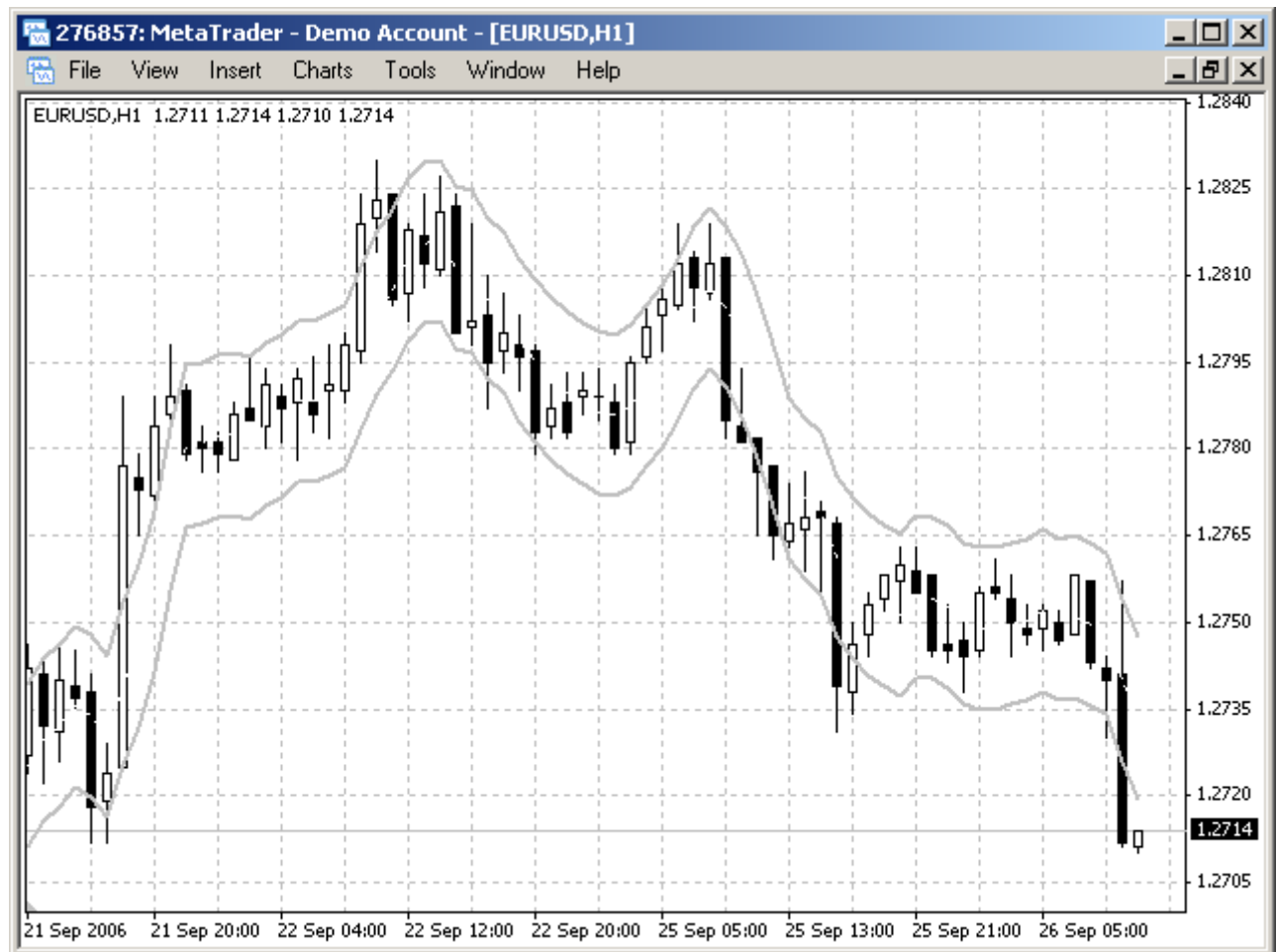
27. How to build levels?

Some indicators allow building of levels. For MA, one can build a channel using levels. To do so, it is necessary to go to the "Levels" tab and set some values using the "Add" button.





Now, if we make the MA line colored the same as the background, we will obtain channel built on the moving average.

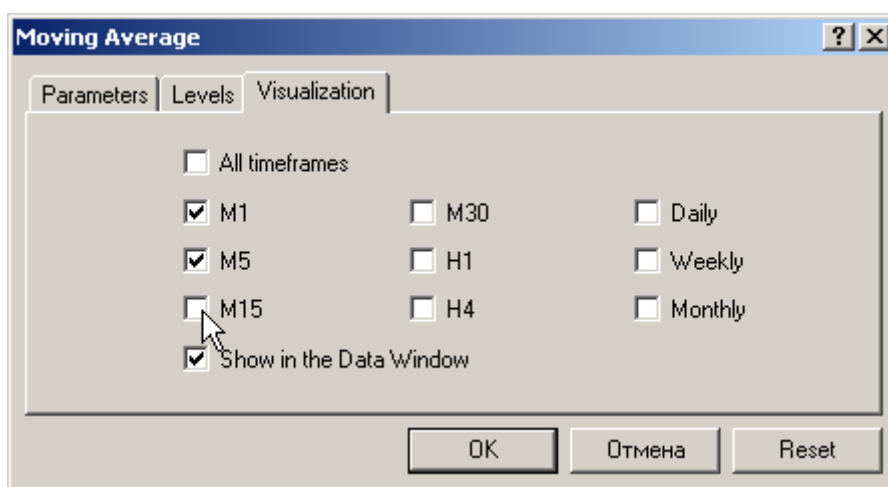




28. What is "visualization" tab?

In the end, let us consider one more property of indicators in the MetaTrader 4 Client Terminal. All indicators, both embedded and custom ones, have this property. Moreover, it can apply to objects, as well, i.e., to graphical and technical analytical tools.

There is no secret that data analyzed on different timeframes of the same symbol can differ. Different technical tools can be used, including different indicators with different settings. The following can be done in order not to re-adjust indicators again and again when switching between timeframes: Specify in the indicator properties window that timeframe, to which the selected indicator will be anchored.

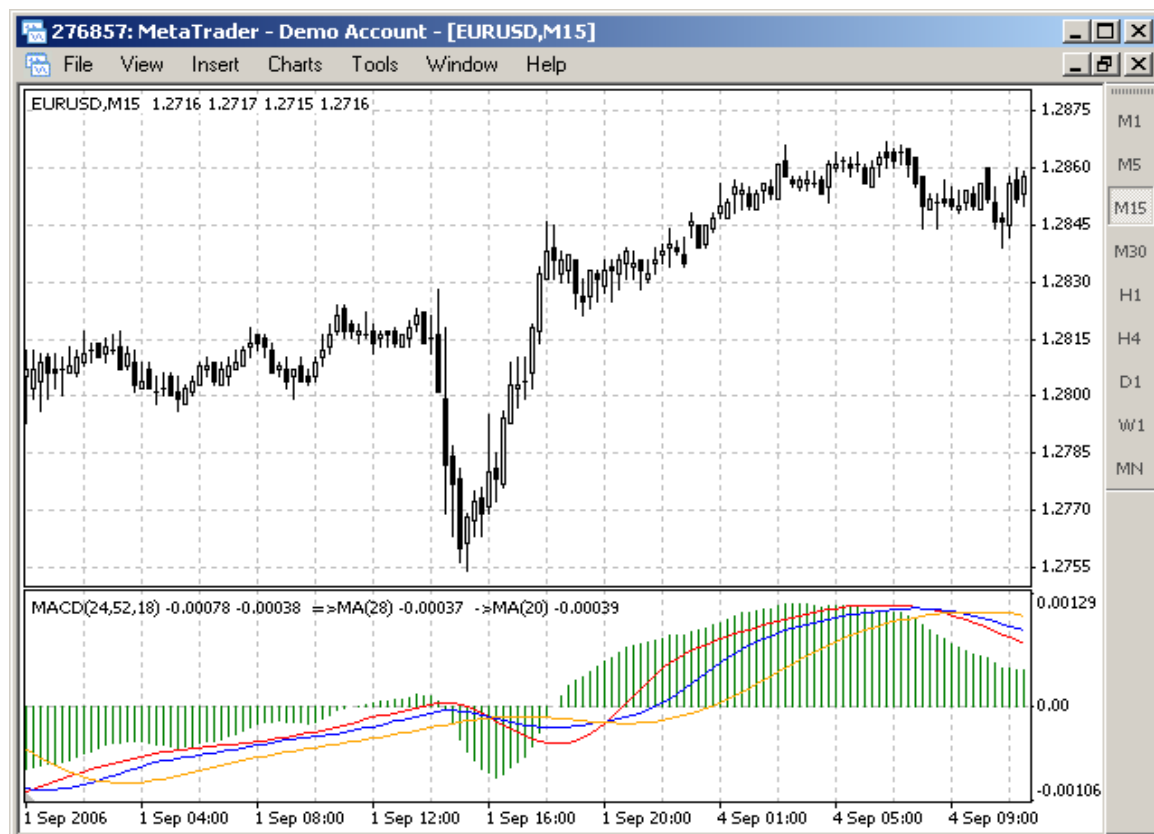
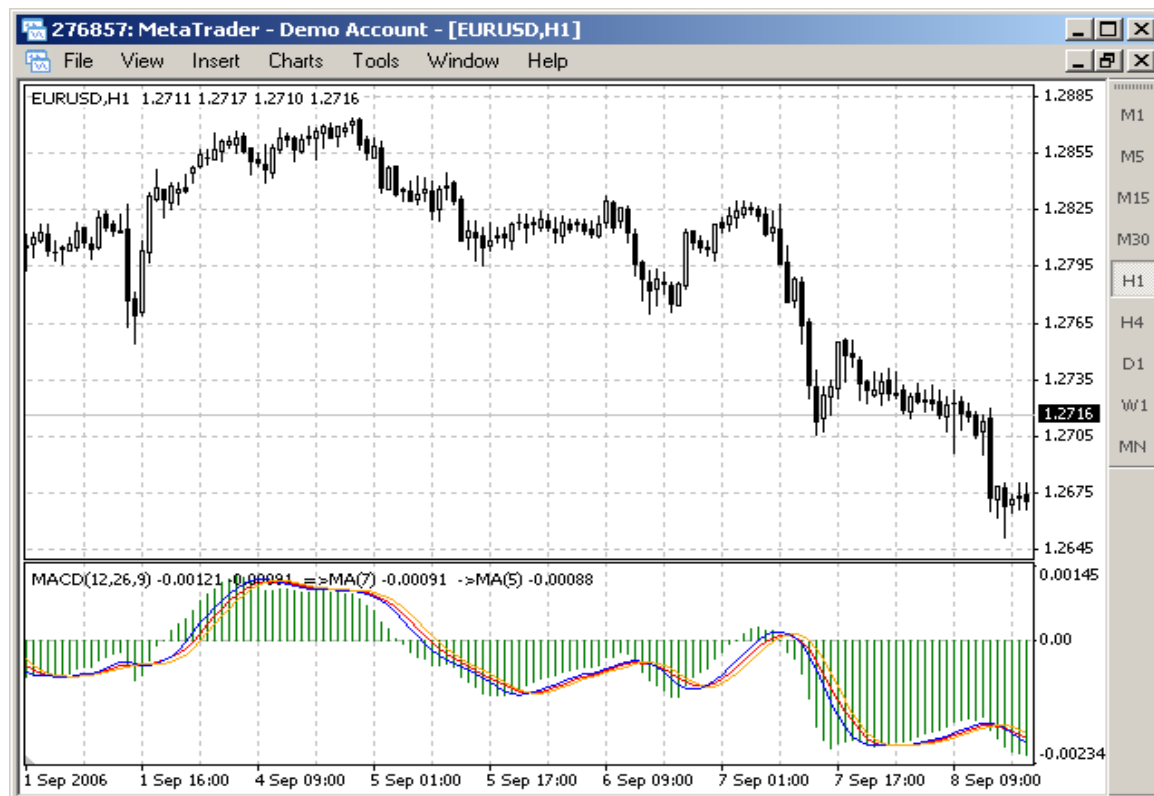


And so on for all indicators and on all timeframes. In future, when switching between them, we will be able to see different indicators on different timeframes. It remains just to save the template to be used in future for other symbols.

Example: On timeframes of H1 and M15, the same indicators, MACD and MA, are attached, but with different periods.

- On H1: MACD with values of 12, 26, 9; MA with the period of 7 is calculated on the MACD; MA with the period of 5 is calculated on the MA(7).
- On M15: MACD with values of 24, 52, 18; MA with the period of 28 is calculated on the MACD; MA with the period of 20 is calculated on the MA(28).







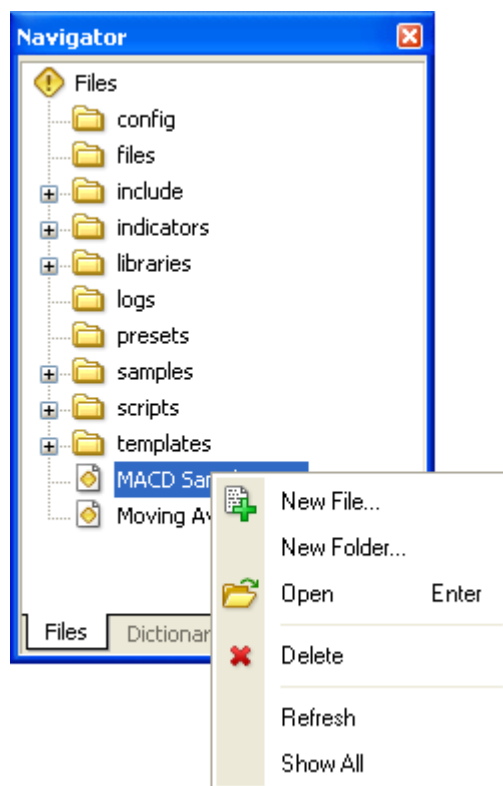
29. File library in MetaEditor

Files

All MQL4 programs are available through the "File → Open" menu or through the toolbar. For more convenient access to MQL4 programs, there is a "Files" tab in the "Navigator" window.

In this tab, all MQL4 programs are displayed that stored in the "\\MetaTrader 4\\experts\\" folder or in one of its subfolders.

The following actions are available from context menu of this tab:



- New File... — creation of an empty file with extension MQ4. The file will be created in the folder selected at the moment of the file creation. To create a file in the "\\MetaTrader 4\\experts\\" folder, one has to select the root word "Files".
- New Folder... — creation of a subfolder in any of the selected folders. To create a folder in "\\MetaTrader 4\\experts\\", one has to select the root word "Files".
- Open — open the code of the selected program in a separate window of MetaEditor.
- Delete — deletion of the selected file or folder.
- Refresh — refreshing of the program list, synchronization with the "\\MetaTrader 4\\experts\\" folder.
- Show All — show/hide files of all types. By default, only files having extensions of MQ4, MQH, MQT are displayed in the "Files".





Library

If you have not found a program in the file list of the "Navigator" window, you can download it from our website. You do not need to open your browser to search in the website and download. You can get a quick access to all desired programs using MetaEditor. Just open the "Online Library" in the "Toolbox" window.

Toolbox			
Refresh Experts Indicators Scripts Libraries Articles Download MQL4.com <input type="text" value="trend"/>			
Name	Description	Date	Author
PerkyAsctrend1	Indicator PerkyAsctrend1, as well as all other ASCTrend indicators is based on Larry William...	2006.10.16	Collector
Ichimoku Kinko Hyo, Ishimoku	Ichimoku Kinko Hyo Technical Indicator is predefined to characterize the market trend, supp...	2006.09.07	MetaQuotes
AltrTrend_Signal_v2_2	Indicator that signals about trend turns.	2006.08.11	Collector
Keltner Channel	The Keltner Channel indicator locates the most important trends.	2006.07.13	Collector
iTrend	iTrend Indicator determines where the trend starts and ends.	2006.07.13	Collector
Moving Average Convergence/D...	Moving Average Convergence/Divergence (MACD) is the next trend-following dynamic indic...	2006.07.12	MetaQuotes
Parabolic SAR, Parabolic	Parabolic SAR Indicator was developed for analyzing the trending markets.	2006.07.12	MetaQuotes
Average Directional Movement I...	Average Directional Movement Index Indicator (ADX) helps to determine if there is a price t...	2006.07.12	MetaQuotes
Detrended Price Oscillator	Detrended Price Oscillator	2006.07.12	Collector
Aroon Oscillator	The oscillator quickly finds out the trend stop and the start of sideways trend in horizontal i...	2006.07.11	Collector
3LineBreak	Indicator that colors bull trend bars blue, and bear trend bars red.	2006.07.11	Collector
3D Oscillator	Oscillator that signals about trend turn. When the blue line meets the red one top-down, S...	2006.07.11	Collector
Bears Power, Bears	Bears power oscillator (Bears Power, Bears) - trend following indicator.	2006.05.31	MetaQuotes
Bulls Power, Bulls	Bulls power oscillator (Bulls Power, Bulls) - trend following indicator.	2006.05.31	MetaQuotes
Strategy Tester: Modes of Mode...	Many programs of technical analysis allow to test trading strategies on history data. In the ...	2005.09.13	MetaQuotes
Errors Find in Files Online Library Help			

If one of the following pages - "[Experts](#) | [Indicators](#) | [Scripts](#) | [Libraries](#) | [Articles](#)" - is chosen, descriptions of all new files and articles from the [MQL4.com](#) website are swapped automatically. Depending on the current interface language, these files will be in certain language. It is important to remember that program databases are different for different languages of the website. So, for example, you can find something in the Russian version that you cannot find in the English version. And vice versa.





On each page, you can sort the contents by column. There is the search engine to get a quick access to the desired program. All pages are searched in simultaneously. It should be noted that the search is case-sensitive. This means that "MACD" and "macd" are different words for the search engine.

Refresh

Experts

Indicators

Scripts

Libraries

Articles

Download

[MQL4.com](#)

Name	Description	D..	Author
CloseOnChart	Quickly close open orders by dragging and dropping this expert ...	2006...	irusoh1
simple_csv2fxt	Simple csv-to-fxt Converter	2006...	stringo
Revers	Revers Script.	2006...	Collector
StringArraySuiteSam...	Demo of functions in StringArraySuite.mqh	2006...	sx_ted
Summary Report In ...	This script evaluates i	2006...	stringo
Rotating text	Easy example working	2006...	MetaQuotes
StringsQuickSort	Example of file read a	2006...	MetaQuotes
Trade	Trade - script sending	2006...	MetaQuotes
Close	Close - script closing	2006...	MetaQuotes
Delete pending orde...	Delete pending order	2006...	MetaQuotes
Modify	Modify - script choosin	2006...	MetaQuotes
Modify pending orde...	Modify pending order - script choosing first in list pending order,...	2006...	MetaQuotes
Send pending order,...	Send pending order - script sending SELL STOP pending order ...	2006...	MetaQuotes
Period Converter	Use this script to make own nonstandard timeframes.	2006...	MetaQuotes
Trade Orders Histor...	This script takes orders from trade history and places arrows on ...	2006...	T-1000

Errors

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Help

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Auto Arrange

Grid

Enter

D

A

G

The logo for 'FOREX MATRIX NN' features the word 'FOREX' in small white letters, 'MATRIX' in large white letters, and 'NN' in large green letters with a registered trademark symbol. Below this, 'EXPERT ADVISOR' is written in small white letters, and 'NEURAL NETWORK' is written in yellow letters. The background is dark with a green, glowing, matrix-like pattern.



Having selected the necessary program, you can open the website page where it is described or download the code of this program. To view the program description, select the "Open" command in the context menu. The program description will open in the "Help" tab of the "Toolbox" window. Double click on the author's name will open page containing the author's personal details.

The screenshot shows the 'Toolbox' window from MQL4.com. The title bar is blue and says 'Toolbox'. Below it is a navigation bar with buttons: Back, Forward, Home, Previous, Sync, Next, and the MQL4.com logo. The main content area is titled 'Code Base → Scripts'. On the left, there is a sidebar with a list of categories: Last added, Expert Advisors, Indicators, Scripts (highlighted), and Libraries. Below this is a section for 'Ready for publishing' and 'Draft'. There is also a 'Find it useful? Comment for a friend!' section with an email input field containing 'friend@e-mail.com'. At the bottom left, there is a 'Download MT4 - 3.4 Mb' button. The main right pane shows details for a script named 'Summary Report In Points' by 'stringo'. It indicates it has been downloaded 553 times and provides a download link for 'SummaryReportInPoints.mq4 (13.6 Kb)'. A description follows: 'In the article How to Evaluate the Expert Testing Results was written points then. Exposed script calculates profit and all secondary data in points. Scr csv-file with account history list, that can be analyzed in some spread'. It also shows '0 comments'. At the bottom of the window is a footer with links: Errors, Find in Files, Online Library, and Help.

To load the desired indicator into the terminal, one has to download it previously. To do it, you can use the "Download" button or select the corresponding command in the context menu. An MQ4 file will be saved automatically in the corresponding folder of the Client Terminal ("MetaTrader 4\experts\" or in one of its subfolders). The code of the downloaded program will open in a separate window of MetaEditor.

Setup

Windows of "Toolbox" and "Navigator" can be arranged in various order at your will. You have just to point the cursor onto the blue title bar of the window, press the left mouse button and drag the window to the place you want. Windows can be moved not only within the main window of MetaEditor, but also drag "outside". This can be helpful when working with several monitors simultaneously.

