

MOEX Spectra Terminal

User guide

version 4.05

Annotation

This user guide covers processes of using the terminal application for trading securities and derivatives.

The document contains information about the trader workstation, its trading possibilities, conditions of use, processes, work processes and rules.

Table of Contents

Introduction	
1. General information	9
1.1. Purpose of the application	
1.2. Derivatives market	9
1.2.1. Trading participants	9
1.2.2. Instruments	10
1.2.3. Trading operations	10
1.3. Function diagram of the trading terminal	1.
2. Application management	13
2.1. System requirements	
2.2. Trading terminal application setup	
2.3. Application version update for Windows	
2.4. Application automatic update	
2.5. User roles	
3. Quick start	
4. How to start and how to finish working with trading terminal	
4.1. Application start and user sign in	
4.2. Transport connect	
4.3. Transport disconnect	
4.4. Transport reconnect using another profile	
4.5. Exit the application	
4.6. Transport status	
4.7. Disconnect	
4.8. Abnormal application termination	
5. User interface	
5.1. Main window	
5.2. Main menu	
5.3. Instrument panel	
5.4. Side panel	
5.5. Status line	
5.6. Main functional windows	
5.7. Workspace configuration	
5.7.1. New workspace configuration	
5.7.2. Saving configurations	
5.7.3. Restoring configuration	
5.7.4. Restore default settings	
5.8. Basic configuration	
5.9. Windows management	
5.9.1. Tabs in the workspace	
5.9.1.1. Actions with tabs	
5.9.1.2. Window tab	42
5.9.1.3. Panel tabs	44
5.9.2. Unpinned window	4!
5.9.3. Arranging windows	4!
5.9.4. Managing active window	46
5.9.4.1. Minimize window	4 ⁻
5.9.4.2. Maximize window	4 ⁻
5.9.4.3. Move window	
5.9.4.4. Change window size	
5.9.4.5. How to force window to stay on top	
5.9.4.6. Opening new windows as tabs	
5.9.4.7. Close window	
5.9.4.8. Save and restore window configuration	
5.9.5. Switch between functional windows	
5.10. General work practices	
1	

5.10.1. Editing fields	
5.10.2. Sorting data	
5.10.3. Contextual search in tables	
5.10.4.1. Filtering	
5.10.4.1. Filtering settings via the window settings menu item	
5.10.5. Context menu. General algorithm. 5.11. Auxiliary dialog boxes	
5.11.1. Select instrument window	
5.11.1. Select instrument window 5.11.2. Favorite instruments	
5.11.2.1. Favorite instruments window	
5.12. Data export	
6. Using the application functions	
6.1. Viewing information	
6.1.1. Information – parameters of the current record	
6.1.2. Financial instruments	
6.1.2.1. Filters in the Financial instruments window	
6.1.2.2. Filter for instruments in the Financial instruments window	
6.1.2.3. Sorting in the Financial instruments window	
6.1.2.4. Contextual menu in the Financial instruments window	
6.1.3. Sessions window	
6.1.4. Money	
6.1.5. Positions	
6.1.5.1. Toolbar of the Positions/ requests window	
6.1.5.2. Transfer position from one BF position to another (within the same CF)	
6.1.5.3. Filtering in the Positions/ requests window	
6.2. Orders	
6.2.1. Your orders/ requests window	
6.2.1.1. Filters in the Your orders/ requests window	. 77
6.2.1.2. Context menu in the Your orders/ requests window	79
6.2.1.3. Sound settings on adding a new string in the table	. 80
6.2.2. Order-book	80
6.2.2.1. Setting the Order-book window appearance	. 82
6.2.2.2. Standard mode	83
6.2.2.3. Narrow mode	
6.2.2.4. Wide mode	84
6.2.2.5. Rarefied mode	
6.2.2.6. Order-book window with fixed centre	
6.2.2.7. Highlight volume	
6.2.2.8. Sorting strings in the Order-book window	
6.2.2.9. One-click trading setting	
6.2.2.10. One-click trading, key combinations settings	
6.2.2.11. Orders panel	
6.2.2.11.1. Position indicator	
6.2.2.11.2. Setting the opening position	
6.2.2.11.3. Setting the opening price	
6.2.2.12. Setting sound notification	
6.2.2.13. Context menu in the Order-book window	
6.2.3. Adding orders into the trading system	
6.2.3.1. Adding order window	
6.2.4. Postponed orders (batch entry)	
6.2.4.1. Toolbar of the Postponed orders window	
6.2.4.2. The context menu in Postponed orders window	
6.2.4.3. Adding orders into the list and editing them	
6.2.4.4. Removing postponed orders	
6.2.4.5. Sending postponed orders into the Trading system	
6.2.5. Unprocessed orders 6.2.6. Order cancellation	
6.2.7. Checking price for limits and multiplicity	
U.Z.T. CHECKING PINCE IOF IIITIIIS AND MUNICIPINCITY	TOD

	6.2.8. Messages window	105
	6.3. Trades	
	6.3.1. All trades/ requests window	106
	6.3.1.1. Filtering in the All trades/ requests window	
	6.3.1.2. Context menu in the All trades/ requests window	
	6.3.2. Your trades/ requests window	
	6.3.2.1. Filtering in the Your trades/ requests window	
	6.3.2.2. Context menu in the Your trades/ requests window	
	6.4. Negotiated operations	
	6.4.1. Negotiated orders	
	6.4.1.1. Adding negotiated orders	
	6.4.2. Negotiated trades	
	6.5. Multi-leg instruments operations	
	6.5.1. Multi-leg instruments orders	
	6.5.1.1. Adding orders for anonymous multi-leg instruments	
	6.5.1.2. Negotiated multi-leg instruments orders	
	6.5.2. Multi-leg instruments trades	
	6.5.2.1. Negotiated multi-leg instruments trades	
	6.6. Administrator and Trading System's messages	
	6.6.1. Administrator's messages	
	6.6.2. Error and notifications	
	6.6.3. Transaction error messages	
7 (Options	
<i>1</i> . C	7.1. Options board	
	7.1.1. Filters in the Options board window	
	7.1.2. Filtering by instruments in the Options board window	
	7.1.3. Sorting in the Options board window	
	7.1.4. Context menu in the Options board window	
	7.1.4. Context ment in the Options board window	
	7.2.1. Options exercise orders	
	7.2.2. Options exercising rules	
	·	
	7.2.2.1. Automatic order generation algorithm	
	7.2.2.2. Option exercise orders removing algorithm	
	7.3. Volatility curve	
	7.4. Options calculator	
	7.4.1. Toolbar of Option calculator	
	7.4.2. Virtual portfolio	135
	7.4.2.1. Import data into virtual portfolio	
	7.4.2.2. Add position into virtual portfolio	
	7.4.2.3. Add strategy into virtual portfolio	
	7.4.2.4. Remove position from virtual portfolio	
	7.4.2.5. Virtual portfolio data export	
	7.4.2.6. Generating real portfolio data based on virtual portfolio data	
	7.4.3. Charts in Options calculator	
	7.4.3.1. Charts export to text file format	
	7.4.3.2. Charts export to image file format	
8. N	Management	
	8.1. Management window	
	8.1.1. Client card	
	8.1.2. BF and client limits	
	8.1.2.1. Toolbar of the Limitation tab	
	8.1.2.2. Setting the client limits	
	8.1.2.3. Setting BF limits	
	8.1.2.4. Changing client limits	
	8.1.2.5. Funds transfer between BFs	153
	8.1.3. Spot limits on buying	
	8.1.3.1. Toolbar of the Spot limits on buying tab	156
	8.1.3.2. Setting Spot limits on buying	157

	8.1.4. Spot limits on selling	157
	8.1.4.1. Toolbar in the Spot limits on selling tab	158
	8.1.4.2. Setting Spot limit on selling	158
	8.1.5. Options exercise rules	159
	8.1.5.1. Toolbar in the Exercise rules tab	160
	8.1.5.2. Setting a new options exercise rule	
	8.1.6. Removing limits, prohibitions and rules	
8.2	2. Prohibitions on operations for clients	
	8.2.1. Toolbar of the Prohibitions window	
	8.2.2. Setting prohibitions for operations	
	8.2.3. Setting group of prohibitions	
	8.2.4. Change prohibition	
	8.2.5. Prohibitions on adding option exercising orders	
8.3	3. Pledges detailization	
	4. Market maker obligation for futures	
	8.4.1. Filters in the Market maker obligations for futures window	
	8.4.2. Setting sound notification at non-fulfillment of obligations	
	8.4.3. Setting visual warning for default of market maker obligations	
8 !	5. Market maker obligations for options	
0.0	8.5.1. Filters in the Market maker obligations for options window	
8 (6. Withdrawing funds from the trading system	
0.0	8.6.1. Sending a new withdrawal request	
	8.6.2. Recalling withdrawal request	
9 Tech	nical analysis. Charts.	
	1. Chart types	
	2. Tech. analysis window	
5.2	9.2.1. Toolbar in the Tech. analysis window	
	9.2.2. Context menu in the Tech. analysis window	
o ·	3. Charts of series	
٥.,	9.3.1. Creating a chart	
	9.3.2. Charts properties	
0	4. Indicators	
9.4	9.4.1. Creating indicator charts	
	9.4.2. Indicator selecting window	
	· · · · · · · · · · · · · · · · · · ·	
0.1	9.4.3. Indicator chart properties	
9.3	9.5.1. How to change a chart instrument	
	9.5.2. How to add more than one chart into the same window area	
	9.5.3. How to move chart into a new area of the current window	
	9.5.4. How to pin several charts to the same vertical axis	
	9.5.5. Moving charts between areas of the current window	
	9.5.6. How to find a 'lost' chart	
	9.5.7. How to hide a chart	
	9.5.8. How to change a chart name	
	9.5.9. How to remove a chart	
	9.5.10. How to change scale of a chart	
0.4	9.5.11. How to move a chart along the time axis	
9.0	6. Additional elements - graphical objects	
	9.6.1. Trend line	
	9.6.2. Resistance and support levels	
	9.6.3. Fibonacci lines	
	9.6.4. Fibonacci arcs	
	9.6.5. Fibonacci fan	
	9.6.6. Trend line properties	
	9.6.7. Moving trend lines	
	9.6.8. Moving charts including its trend lines	
	9.6.9. Removing graphical objects	
	9.6.10. Graphical objects visibility	207

	9.7. Object manager	208
	9.7.1. The Series tab	
	9.7.2. Indicators tab	
	9.7.3. Drawings tab	
	9.8. Indicator editor	
	9.8.1. Indicator code editor	
	9.8.2. Functions editor	
	9.8.3. QScript language extension	
	9.9. Chart settings	
	9.9.1. Confirmation settings for charts	
	9.9.2. Setting bar location	
	9.9.3. Loading data from ISS	
	9.9.4. Session schedule	222
	9.9.5. Series charts settings	224
	9.9.6. Indicators settings	226
	9.9.7. Chart colour settings	
	9.9.8. Offset settings	
	9.10. Managing Technical analysis data	
	9.10.1. TA data import	
	9.10.2. TA data export	
	9.10.3. Editing TA data	233
10. I	Main settings	234
	10.1. Notification settings	234
	10.2. Setting the terminal appearance	236
	10.3. Confirmations settings	
	10.4. Colour settings	241
	10.5. Database settings	243
	10.6. Management confirmations settings	
	10.7. Hot keys settings	245
	10.8. Network settings	
	10.9. Confirmations settings in the option calculator	248
	10.10. Plugins settings	
	10.11. Sounds settings	250
	10.12. TA archival data	250
	10.13. Information window settings	251
	10.14. Graphical charts settings	252
	10.15. Average position price settings	252
	10.16. Transport settings	253
	10.16.1. Connection profiles	
	10.17. Saving settings	256
	10.18. Writing log-files	256
11. l	Jsing context menus for windows configuration setting	258
	11.1. Main group window settings	259
	11.2. Highlight settings	259
	11.3. Columns settings	260
Inde	x	

Introduction

The Trading Terminal has the following key features and benefits:

• Modularity and expandability. Due to the modular architecture of the application, it is easy to expand its scope of the application in order to meet the current demands.

- High performance. The terminal application is able to accumulate and store a significant amount of market data during the trading session period, and also load some data from previous sessions.
- The 'all-in-one' feature. The trading terminal provides access to all markets of the stock exchange.
- Multilingual capability. Both Russian and English language versions are available since the very first build version.
- Ease of learning and use. The user interface of the application is simple but logically consistent, providing all possibilities for fine settings according to needs of every user. By default, the terminal application parameters are set to be the most convenient for the beginner traders.
- Security. The terminal provides authentication and authorisation procedures in accordance with the Plaza2 security standards.
- Multiplatform application. The terminal can be installed and used with several operating systems: Windows, MacOS and Linux.

This user guide is targeted to users (traders) who are familiar with the selected Operational System.

You can find some 'how-to' information as brief separate chapters named **Procedure**.

The sequence of the menu items is given as a line containing the whole menu items hierarchy starting from the very top level. The menu items are separated by slash, for example: the Файл/ Подключения/Статус транспортов main menu item.

Tab. 1. List of abbreviations

Abbreviation	Full name
TS	Trading System
СС	Clearing Center
CF	Clearing Firm
BF	Brokerage Firm
UA	Underlying Asset
СН	Clearing House
СТ	Chief Trader
TA	Technical Analysis

Chapter 1. General information

This chapter contains information about the application and the basic terms of the derivatives market.

1.1. Purpose of the application

The trading terminal is a software application which provides the current market information to users and allows users to manage their own resources.

The application is used for trading exchange instruments in real-time mode.

The application allows users to trade on the SPECTRA trading floor, on different trading boards. The following operations are provided:

- · futures and options trading;
- multi-leg instruments trading;
- · negotiated trading.

1.2. Derivatives market

The general information about **SPECTRA** derivatives market, (i. e. administrative persons, the main regulators, the market missions, durations of trading sessions, derivatives market instruments and participants, etc.) can be found at http://moex.com/en/derivatives/. [http://moex.com/ru/derivatives/]

The main terms and rules of futures and options trading can be found at http://fs.moex.com/files/4989.

Some other documents, such as **Contracts specifications**, **Clearing rules**, etc. can be also found on the **MOEX** website.

Clients can add their orders into the trading system using the trading terminals software application or via the **P2Gate** software system.

1.2.1. Trading participants

Trading participants can be subdivided into the following three groups:

- · clearing firms (CF);
- brokerage firms (BF);
- · CF and BF clients.

Clearing firms are the firms which incur liabilities for risks and cover risks of their clients and sub-brokers.

Clearing firms are authorized to:

- perform trades on behalf of themselves and by their own accounts or by their clients' accounts;
- · perform settlements on complete trades directly with the Exchange;
- · service their clients, including brokers;
- exercise control over their clients and brokers during trading sessions.

Unlike clearing firms, **Brokerage firms** do not settle up with exchange directly; instead, they use their clearing firms. Also, brokerage firms are not obliged to obtain licences and pay fees to the Insurance fund.

Brokerage firms are authorized to:

- · perform trades on behalf of themselves and their clients;
- · add orders in the Trading system via the trading terminal application;
- · exercise control over their clients during trading sessions.

Clients – any physical or corporate person can participate in the derivatives market as a client on the authority of trading service agreement signed with a brokerage firm or with clearing firm directly. VAT identification number and passport number are required, in accordance with Russian Federation legislation, as a measure to prevent cross trades (trades where the same person represents both seller and buyer).

1.2.2. Instruments

On the derivatives market, instruments are structured hierarchically.

Underlying asset is an entity related to a certain contract. Therefore, it can be a stock in a stock exchange, a lot of commodity in a commodities exchange or an index/exchange rate/indicator for settling futures. All instrument of a certain underlying asset have the same attributes. Underlying asset is not a trading instrument.

Futures contracts are the main trading instruments in the FORTS system. Each futures contract is linked to a certain underlying asset and has its own unique characteristics of the maturity (the date of delivery), lot characteristics, minimum price step and cost of the price step value.

The date of delivery is specified with 3-months interval for every future contract, i.e. mid-March, mid-June, mid-September and mid-December. There can be more than one futures contract for each underlying asset.

Options - is a derived instrument from sutures. There are two types of options: the futures-style options and the equity-style options.

Once an option is exercised, its position turns into a futures position which the option was initially linked to.

There are various exercise dates for various options. Unlike futures, there may exist 'short' option positions, aimed to be exercised in the middle of the next month. Once the option is exercised, its position turns into a 3-months futures position.

At opening, an amount of strike price values is specified for each option. These strike price values are dispersed near the price value of the futures contract, which the option was initially linked to.

Indexes - are a compound marker of price change for a particular series of securities. As a rule, the absolute values of indexes are not important. The more important thing is how the indexes change with time as it indicates the general market trend. According to values, an index may indicate trends either for a series of securities or for the whole market. Often, indexes are used as underlying assets for financial instruments with the same name.

Standard instruments - spot-market instruments.

Spot-market allows to perform operations with the specified fixed exercise dates. These dates may vary from the current trading date up to a specified maximal date. Therefore, a pull of instruments is put into system, where each instrument is dedicated to a certain date, and one of the instruments is specified as the "main" one (T+4)

All the spot-instruments are traded by negotiated trades and repo trades, except the main one, which is traded in common mode.

Multi-leg instruments - the instruments consisting of more than one components. This allows to use a trading strategy, when a client gets additional positions on two or more instruments when trade is complete. The now available instruments are the repo- and pseudo-repo instruments at RTS Standard and currency swaps and calendar spreads.

1.2.3. Trading operations

Order — a command, which is sent into the trading system by a trading participant, aimed to perform an action of bying or selling an instrument at specified price. There are two main types of orders available: negotiated and system.

System orders is the most common order type, which all clients can see and access. If there is a matching order in the trading system, the system order will match into a trade with the price of the matching order. The unmatched part of the order will remain in queue as another system order with a less amount of instruments.

There are three types of orders: quotation order, matching order and Fill-or-Kill order.

A quotation order remains in queue, no matter if it has been matched partially or was not matched at all.

A **matching order** is removed from the trading system if it has not been matched into any trade. If a matching order is matched partially, its unmatched part is also removed from the trading system.

A Fill-or-Kill orders must be either matched fully or removed from the trading system.

All orders are also subdivided into single-day orders and multi-day orders.

The **system orders** do not have any expiration date set. If unexercised, such orders remain in the trading system till the end of the current trading session.

Multi-day orders always have their date of expiration (1 day to 1 year). Unlike the system orders, multi-day orders are automatically relisted at the end of a trading session, with a new ID and a link to the very first order. When relisted, the order is verified for instrument availability, client availability and funds sufficiency. When expired, such orders are removed automatically at the end of the evening trading session (if there is any).

A **negotiated order** is addressed to a particular client (brokerage firm). Other clients cannot see and access these orders.

Negotiated orders cannot be matched partially.

Trades are performed for two orders if the orders prices match each other for the same instrument. The trade price is equal to the price of an order added first in the trading system.

There are two types of trades: system and negotiated. Trades do not change and are not removed from the trading system.

1.3. Function diagram of the trading terminal

Functionally, the application can be subdivided into three layers.

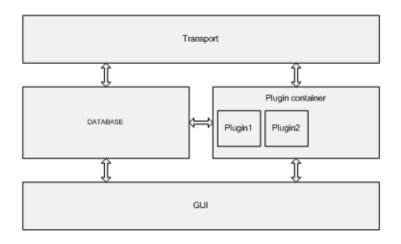


Fig. 1.1. Function diagram of the trading terminal

The **Transport** layer contains the exchange interaction subsystem which interact with the Plaza2 API, converts data from tables into the application native format and transmits messages into the MOEX trading system. Also, the **Transport** subsystem converts the MOEX data scheme into the one used within the terminal application.

The second layer contains the internal **Database** and the **Plugin** container subsystem, which manages the application extension modules aka plugins. The plugins defines the software application configuration and the application logic.

На третьем уровне находится интерфейс пользователя **GUI**, основная функция которого взаимодействие с пользователем.

The third level contains the \mathbf{GUI} — the application graphical user interface.

Chapter 2. Application management

This chapter describes the following topics:

- · system requirements
- · Installation package components and installation details,
- software version update details;
- · user roles.

2.1. System requirements

Tab. 2.1. PC configuration

	Minimum	Recommended	
СРИ	Intel 2.4 Ghz	Intel Core 2 Duo 2.8 GHz	
Memory size	1 GB	4 GB	
Hard drive	160 GB	160 GB	

2.2. Trading terminal application setup

The application contains the executable file (*.exe), plugin modules, dynamic link libraries files (*.dll) and configuration files. While running, the application is able to create additional files such as data files, configuration profile files, protocol files, etc.

The application files can be found on the Moscow Exchange FTP-server.

The trading terminal is a cross-platform application, thus, it can be launched from several operating systems including:

- · Windows;
- · MacOS;
- Linux.

Each operating system requires its own installation package version.

The application documentation files in the PDF file format can be downloaded from the Moscow Exchange FTP-server. Also, the application contains the integrated context help system.

After installation complete, you can launch the application by clicking the shortcut on the desktop.

2.3. Application version update for Windows

- 1. Download the newest installation package version from the company's server. The installation package file name is MOEXST-x86-N.NN.NNNN.msi, where x86 or x64 capacity of system (32 or 64), N.NN.NNNN indicates a version number.
- 2. Backup the current application version files by copying them to another folder. It will help you to restore the application in case of any failure during installing of the newest version.
- 3. Launch MOEXST-x86-N.NN.NNNN.msi. The Setup Wizard dialog box will appear on the screen.

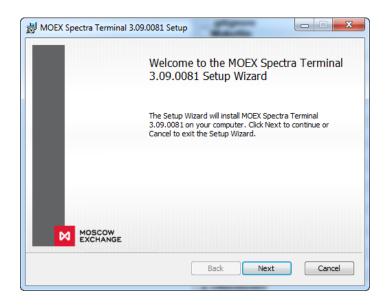


Fig. 2.1. Trading terminal Setup Wizard.

Click **Next** to continue setup.

4. Choosing Setup type.

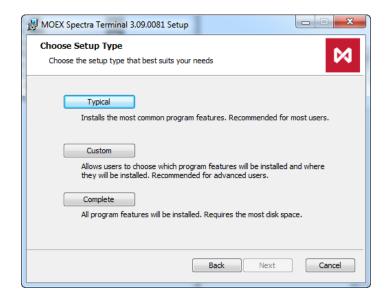


Fig. 2.2. Application Setup Wizard. Choosing Setup type.

Choose the Setup type. The recommended Setup type is **Typical**; in this case, the program shortcut will be automatically added on the desctop.

If you do not want to add the application shortcut on the desktop, you should select the **Custom** Setup type. In the dialog box, (fig. 2.3) следует open the **Desktop Shortcuts** list and select the **Entire feature will be unavailable** option.

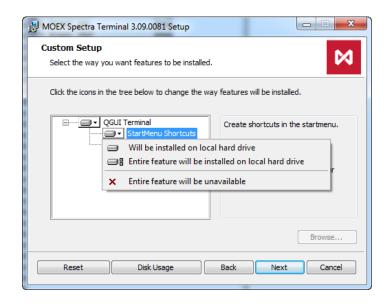


Fig. 2.3. Desktop shortcut settings.

Press Next to continue.

5. The next dialog box will invite you to install the application onto your hard drive.

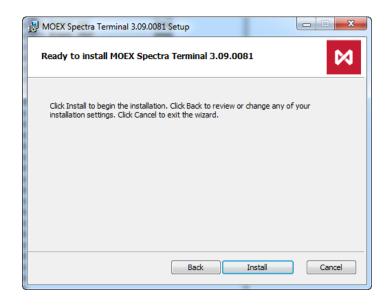


Fig. 2.4. Application Setup Wizard. Installation confirmation.

Press Install to continue.

6. The diagram in the next dialog box will show the installation progress:

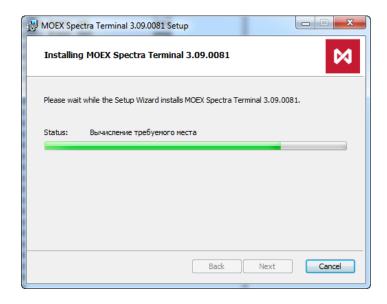


Fig. 2.5. Application Setup Wizard. Installation progress.

The default installation folder is C:\Program Files\MOEX Spectra Terminal.

7. After setup is complete, press **Finish** to exit the Setup Wizard. You can automatically launch the terminal after installation. To do this, set the option **Launch application when setup exit**.

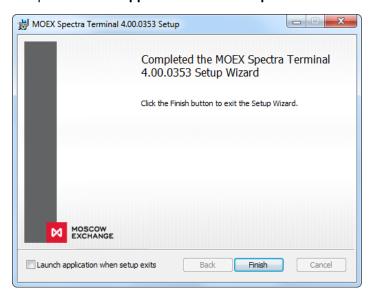


Fig. 2.6. Application Setup Wizard. Finishing setup.

If any time you need to get back, press the **Back** button in the bottom of the dialog boxes.

If you need to cancel the installation, press the **Cancel** button. Then you will be asked if you are sure to cancel the installation process or not. Press **Yes** to cancel the installation or press **No** to continue the installation.

If you cancel the installation, no changes will be made to the trading terminal files.

All the user settings made in the precious application version remain unchanged. The configuration files can be found at (c:\Users\User\name\AppData\Local\Moscow Exchange\QGUI\

2.4. Application automatic update

The application automatically detects if a new version is already available on server.

The application checks for a new version availability every midnight (according to the local system time), or, additionally, when the trading terminal application starts.

The new version availability check time cannot be changed by user.

If there is a newer version of installation file available, a notification will appear in the trading terminal application status bar:



Fig. 2.7. Automatic update. Notification on a new version.

To check the availability of a new version you should restart the application (or wait until midnight). If there is a newer version of installation file available on the FTP-server, a notification will appear in the trading terminal application status bar.

Also, a notification will appear in the notification bar above the trading terminal application icon (when running):

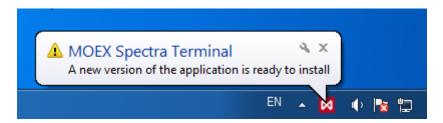


Fig. 2.8. Automatic update. Notification message in the notification bar.

To start downloading a new version, you should click the notification message with the left mouse button.

Before download starts, you should select a download folder:

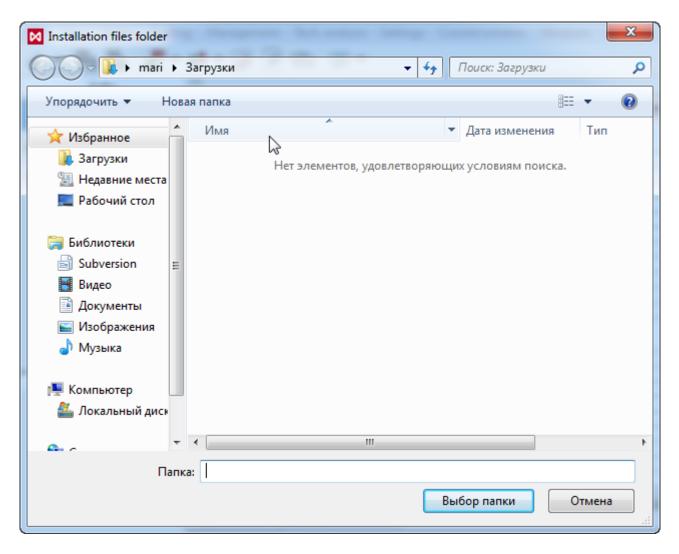


Fig. 2.9. Automatic update. Selecting download folder.

After download has started, the progress-bar will inform you about details of the download process.



Fig. 2.10. Automatic update. Download process.

When the download complete, a notification will appear in the terminal application status bar:



Fig. 2.11. Automatic update. Installing new version.

To start installation, click the notification with the left mouse button. To install the update, the application software requires restart, and the appropriate message will appear on the screen:

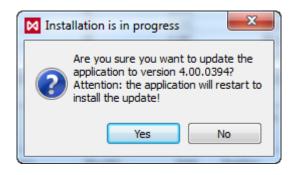


Fig. 2.12. Automatic update. Notification on restart.

If you select **Yes**, the terminal application will be stopped. After installation complete, the terminal application will restart automatically.

If you select **No**, the installation will be cancelled. The terminal application will continue running.

2.5. User roles

Users can be granted with different rights and permissions (roles or logins):

- The clearing firm login is able to view information and (if allowable) act on behalf of any broker or any client of the clearing firm. Also, it is able to set limits for its clients and subbrokers;
- The brokerage firm login is able to view information and act on behalf of all clients of one or several brokerage firms within the same clearing firm. Also, it is able to set limits for these brokerage firms clients;
- The client login is able to act on behalf of the particular client within the brokerage firm and view information concerning this client;
- The 'view only' login is able to view trading activities of other trading participants. It is not allowed to act or interfere with trading sessions.

The user logins are set and managed by the system administrator. Therefore, the user role is specified at the application startup in accordance with the user login entered.

Ouick start 18.08.2015

Chapter 3. Quick start

This chapter overviews the main steps to start working with the trading terminal.

For detailed information about the the components and operations please follow the hyper-links or look through the table of contents.

Application setup

First, you should install the application following all necessary steps.

Application start

The application can be launched by double clicking the application shortcut located on the application folder (or on your desktop). Also, you can doubleclick the *Qgui.exe* file located in the application folder.

Connecting to trading floors

After launching the terminal, the **Connections** dialog box appears on the screen, where you should select a connection profile and enter your login and password obtained from the administrator.

If necessary, you can evoke the Connections dialog box later either from the File/ Connections menu or by clicking



button located on the toolbar. This dialog box is also used for disconnecting transports.

Workspace configuration

When you launch the application the first time, it the standard configuration is used, and all the main windows are situated on the same tab, and the side panel is activated.

The main application window, i.e. Financial instruments, Options board u Tech. analysis are displayed on the same window, divided by tabs.

The tabs shortcuts can be found on the side panel in the upper-left corner of the desktop. Please note that the work-space and windows configuration are changeable. Therefore, if you need to display all data of the current session, you should specify the filter settings for the main windows because some data may be screened by default.

For your convenience, you can create several workspaces and save each of them under its own unique name; in order to load a saved workspace, use **Settings/ Manage configurations**. By default, the changes you makes to desktop settings are automatically saved upon exiting the application and restored at application start – to enable this option, check the **Save the current desktop settings before exit** checkbox in the **Settings/Terminal settingsMOEX Spectra Terminal/Preferences** of the **Main/Common** section of the main menu. Also, you can save changes anytime using the **File/ Save configuration** (**Ctrl+S**) keys combination. If you need to undo the latest changes, it is possible to restore the default workspace via the **File/ Restore configuration** command of the main menu.

Tabs

Tabs are used for organizing windows. You can manage tabs in many ways: create new tabs, close them or change tabs configuration.

Windows

The main windows can be opened using the corresponding commands of the **Tables** menu. You can move windows within the tab or even move them to another tab. Each and every window can be opened in different tabs in one time.

You can find a brief description of the main windows at section 5.6.

Some basic operations with the current window are available via the **Current window** menu commands.

Quick start 18.08.2015

Every saved workspace can be specified as the default workspace. Therefore, every new window will be automatically created in accordance with the default window settings.

The window appearance and its main settings can be specifies via **Window settings** (**Ctrl+E**), which is available from either from the **Current window** menu or from context menu available in the window area.

Interface

You can execute the most of the terminal commands in several ways:

- · using the application main menu;
- · using instrument panels
- · using context menus;
- · using hotkeys.

Favorite instruments

You can organize some of you frequently used instruments into the **Favorite instruments** list. These group of instrument can be easy accessed from side panel, dropdown boxes for the main menu commands and instrument panel when adding orders or adding charts. The favorite list settings can be managed either by using **Settings/ Favorite instruments** or by drag-and-dropping instruments from the **Financial instruments** and **Options board** windows as well as from trade window and order windows.

Trading

All added order are displayed in the Order-book window. Every Order-book contains orders for a particular instrument. You can open as many Order-book windows as you need. Also, you can turn on the One-Click trading mode - section 6.2.2.9, which allows to open the order adding dialog box just by clicking an order in the Order-Book.

There are several view modes available for the Order-Book: standard, narrow, wide and rarefied. Also, you can fixate the Order-Book centre by checking the appropriate checkbox.

The orders panel within the Order-Book window displays your own orders.

All settings can be changed via Window settings (Ctrl+E).

You can add orders in the trading system using different ways (for details, see section 6.2.3). Orders parameters can be specified in an appropriate dialog box. You can use the parameters of an existing order as a template or set some new parameters.

Orders which, by some reasons, were not added into the trading systems are displayed in the **Unprocessed orders** area within the side panel. From there, you can reset their parameters and retry to add them into the trading system by executing **Repeat order** in the corresponding context menu.

The Messages window displays the messages returned by the trading system.

You can remove you order from the system by:

- executing the Cancel order command from the Your orders/ requests window or by doubleclicking the mouse left button on an active order;
- clicking the mouse left button on an active order in the Oredr-Book window in the orders panel.

Please note that you cannot remove orders added by others.

Chapter 4. How to start and how to finish working with trading terminal

This chapter overviews the following operations:

- signing in for the trading system and entering the trading system;
- connecting, stopping μ reconnecting transport (communications protocol);
- · transport statuses;
- · finishing work with the application.

4.1. Application start and user sign in

To start working with the trading terminal place cursor over the shortcut and double click the left mouse button. The application will start.

The transport connection window appears automatically upon the application start. It is also used for user signing in.

If needed, you can activate transport connection via the **File/ Connections/ Connect SPECTRA** command of the main menu. Please note, that some settings (desktop configuration settings, windows settings, etc.) can be made only when transport connection is not activated.

Until transport is not launched, the terminal tables will be empty. The transport connection is mandatory for maintaining trading operations or for viewing trading sessions.

4.2. Transport connect

You can connect to the trading system using the following methods:

- by clicking the button in the main instrument panel;
- by executing the File/ Connections/ Connect SPECTRA command of the main menu. Then, a user sign in window appears on the screen.



Fig. 4.1. User sign in window

Enter the user name and password into the appropriate fields (you can switch between fields by mouse cursor or by using the **Tab** key on keyboard). Please note that user names and passwords are provided by the system administrator, so that users cannot change them.

Tab. 4.1. User sign in window fields

Field name	Details
profile	The name of a resource to connect to, can be selected in the drop-down list. You can edit the profile list via the Settings/ Terminal settings command of the Transport section. To change transport profiles, select the Edit profiles command in the drop-down list . For detailed information about profiles see section 10.16.1.
login	User name of the trading participant provided by the administrator.
password	Password of the trading participant. Along with user name, it is provided by the administrator and cannot be changed by user.
Save password	Check this checkbox to make system remember your password. Otherwise, you will have to enter your password manually every time you need to sign in.
View mode	If the checkbox is active, you will be connect to the trading system without permission to add orders and make other trading operations.

To confirm transport connection, press **OK**.

To cancel transport connection, press Cancel.

When you save your user parameters (login and password), you can setup the automatic transport connection at terminal start. To do this, please check the Autoconnect at startup option via the Settings/ Terminal settings/ Main main menu option in the Main section of the Common tab. After that, you will not receive the transport connection dialog at startup. Please note, that after the database cleanup procedure also deletes your login and passwords, so that you will need to enter a new pair in order to make the automatic connection option work.

4.3. Transport disconnect

You can disconnect transport by the following methods:

- by clicking the button in the main instrument panel;
- by executing the File/ Connections/ Disconnect SPECTRA command of the main menu. Then, uncheck the checkbox next to the transport name by clicking the left mouse button. Every active checkbox indicates a connected transport.

After unchecking a checkbox, a confirmation message appears on the screen:



Fig. 4.2. Transport disconnect confirmation window

You can disable the transport disconnect confirmation. To do this, use one of the following methods:

- check the Do not show next time checkbox in the confirmation window see fig. 4.2;
- Uncheck the Transports disconnect confirmation option in the Settings/ Terminal settings/ Main/ Confirmations menu.

To rollback the confirmation settings please check back the **Transports disconnect confirmation** option in the **Settings/ Terminal settings/ Main/ Confirmations** menu.

When your computer turns to the sleep mode, all connected transports get disconnected. After resuming from the sleep mode, the transport connection window automatically appears on the screen- see fig. 4.1.

4.4. Transport reconnect using another profile

If needed, you can reconnect transport using another profile. To do this:

- disconnect transport see section 4.3;
- clear the database (the Settings/ Terminal settings/ Database/ Clear button) see section 10.5;
- connect transport using another profile see section 4.2.

4.5. Exit the application

You can exit the application using one of the following methods:

- by pressing the Close button in the top-right corner of the application window;
- by executing the File/ Exit command of the main menu;
- by pressing the Ctrl+Q key combination.

After that, a confirmation window appears on the screen:



Fig. 4.3. Exit confirmation

If you are sure you want to exit, press Yes. Press No to cancel the exit and continue working with the terminal.

You can disable the exit application confirmation. To do this, use one of the following methods:

- Uncheck the Application close down confirmation option of the Settings/ Terminal settings/ Main/ Confirmations menu;
- check the Do not show this dialog next time checkbox in the Exit window see fig. 4.3

To rollback the confirmation settings please check back the **Application close down confirmation** option in the **Settings/ Terminal settings/ Main/ Confirmations** menu.

4.6. Transport status

You can view the transport connection/disconnection log via the **File/ Connections/ Transport status** command of the main menu.

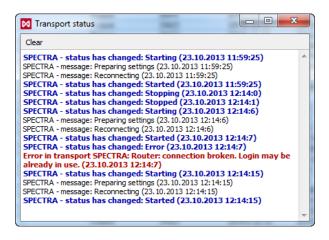


Fig. 4.4. Transport status

Each record in the **Transport status** window contains the transport name along with the transport current status information and the date and time of the record (in brackets).

Blue coloured records indicate status changes.

Black coloured records indicate system messages informing about the current events. Each record also contains the transport name and the date and time of the event.

Red coloured records indicate transport errors.

4.7. Disconnect

To provide extra stability, the system allows to setup the automatic reconnect option in case of any connection failure.

To setup the automatic reconnect option parameters, please use the **Reconnect automatically at disconnection** option via the **Settings/ Terminal settings/ Main** main menu item in the **Main** section of the **Common** tab.

If the option is enabled, the application will automatically reconnect to the server without asking for the user's login and password. By default, the option is enabled.

By default, the number of reconnect attempts is not limited. However, you can limit the number of attempts using the **Maximum connection attempts** option via the **Settings/ Terminal settings/ Main** main menu item in the **Main** section of the **Common** tab.

If the **Maximum connection attempts** option is enabled, the number of reattempts will be limited with the specified value. Also, the following window will appear on the screen:

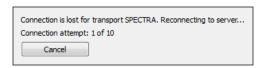


Fig. 4.5. Automatic reconnection to the server

If the **Reconnect automatically at disconnection** option is not enabled, the following window will appear on the screen:

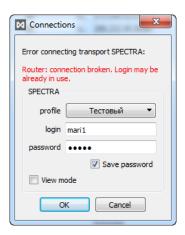


Fig. 4.6. The Connections window at disconnect

4.8. Abnormal application termination

In case of an error causing abnormal application termination (crash), the following window appears on the screen:



Fig. 4.7. Abnormal termination error message

To resolve the situation, you can do the following:

- simply close the window. The terminal will not be restarted;
- Restart the application by selecting the appropriate command in the Restart drop-down menu;
- Restart with empty database by selecting the appropriate command in the Restart drop-down menu. This command clears the terminal database before restarting it;
- **Do not restart now** by selecting the appropriate command in the **Restart** drop-down menu. The terminal will not be restarted. This point is similar to the first point;
- Report the error, by pressing the appropriate button. After this, the Error report window appears on the screen:

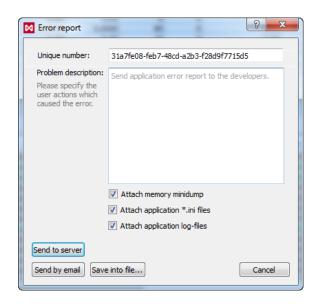


Fig. 4.8. Abnormal termination report

The crash reports are send anonymously, so that every crash report contains its own **Unique number** to help identifying the problem later.

The **Problem description** field is filled in by user and contains detailed information about the reasons which caused the problem, steps to reproduce the problem and any other information of any kind which may be useful to understand the problem better.

Also, it is recommended to attach the following:

- · memory minidump;
- · application INI files;
- · application log-files.

To attach the files please check the appropriate checkboxes. If the checkboxes are inactive, then no files will be attached to the report.

The memory minidump is send anonymously and does not contain user logins, passwords or any other confidential data. Please do not forget to attach it if possible, as it really helps to investigate the roots of the problem.

You can send the crash reports in several ways:

- Send to server after pressing this button, the report will be automatically sent to the server;
- Send by email after pressing this button, the new e-mail message window appears on the screen; its To and Subject fields are filled in automatically. The Subject field contains the OS name along with the report ID which is equal to the Unique number - see fig. 4.8;
- Save into file after pressing this button, an EML file is created, which can be sent as an e-mail message from any computer. User can change its name by default (Crash) to any other name.

Pressing the **Cancel** button closes the **Error report** window (fig. 4.8) and takes you back to the **Application error** window(fig. 4.7) without sending any crash report.

The **Error report** window can be evoked via the **Help/ Report application error** main menu item. This may be caused not only by abnormal termination, but by any other error. The difference from the case described above is that in this case no memory dump file is created, and the **Attach memory minidump** field is always disabled. Also, the error message does not contain its unique number.

Chapter 5. User interface

Thus chapter overviews the main interface elements of the trading terminal:

- · main window;
- main menu;
- · instrument panel;
- · side panel;
- · status line;
- · workspace configuration;
- · windows managing;
- · general work practices;
- · auxiliary dialog boxes.

5.1. Main window

The trading terminal is a multi-window application. After opening the main window, you can open one or more additional windows within it.

Therefore, you can create several groups of open windows at once and organize them as 'tabs' (see section 5.9.1). Only one tab can be active at a time, while the other tabs are inactive and hidden. When you open a new tab, its windows become visible and active, while the previously opened windows become hidden.

You can change tab windows and its position as you like.

The active window's header is marked in bold.

You can unpin additional windows from the main window and pin them back again, changing your workspace freely. Unpinned windows do not belong to any tab.

The main window consists of:

- · main window title;
- · main menu line;
- instrument panel (can be hidden);
- client workspace, containing groups of windows. User can vary position and content of each group and tab.
- side panel (can be hidden);
- · status line.

The main window title displays the name of the current tab, the name of the current workspace and the trading system ID.

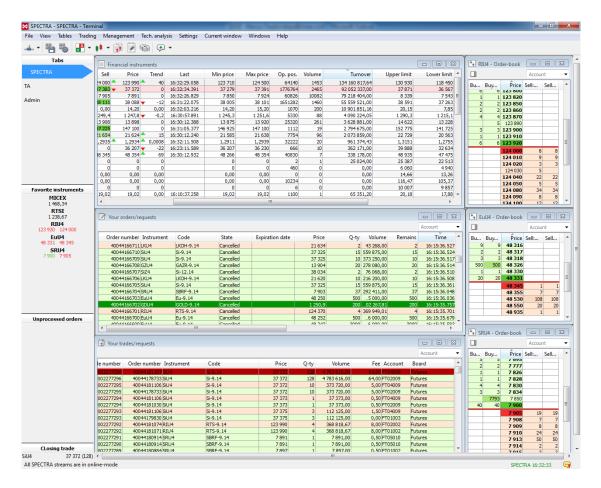


Fig. 5.1. Trading terminal main window

The status line displays information about the trading terminal current status - for details see section 5.5.

You can open more than one main windows at once by executing the **File/ New window** command or by pressing the **Ctrl+N** key combination. To switch from one main window to another:

- · click left mouse button or make any other action in the window;
- click left mouse button at the appropriate icon in the taskbar in the bottom of the screen. Every main window is represented by its own icon in the taskbar.

Once you try to close a main window (if it there are more than one opened), a dialog box will appear on the screen, informing you that all opened tabs in this window will be lost. To confirm closing the main window press **Yes**, to cancel press **No**.

Main windows can be opened in the full-screen mode by executing the **View/ Full screen** command or by pressing the **Ctrl+Shift+F** key combination. Please note, that you should set the full-screen mode separately for each main window, if necessary.

5.2. Main menu

The application main menu allows to access all application functions and features. Please note that availability of some menu commands depends on selected user role and of plugins installed.

Some menu elements are created dynamically (for example, lists of open windows).

Hotkeys and key combinations right of the menu element name indicates the possibility of performing the same operation by using keyboard.

For detailed information about the main menu commands and corresponding drop-down menu commands and their see tab. 5.1.

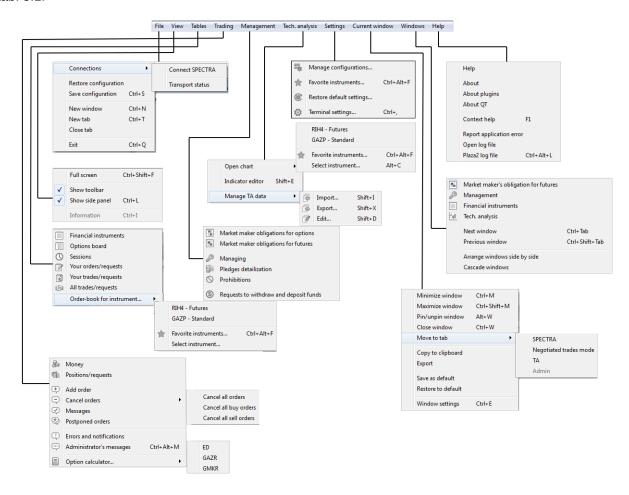


Fig. 5.2. Main menu

Tab. 5.1. Main menu commands

Main menu command	Nested menu com- mands (2nd level)	Nested menu commands (3rd level)	Instru- ment panel icon	Hotkeys/key combinations	Details
File					The menu item is used for connecting transports, creating/restoring workspace configuration and adding/removing tabs.
	Connections				The section is used for managing connections to the trading floors.
		Connect SPEC- TRA			Connects the SPECTRA trading floor.
		Disconnect SPEC- TRA			This menu item becomes available when there is a transport connection established. The menu item line

Main menu command	Nested menu com- mands (2nd level)	Nested menu commands (3rd level)	Instru- ment panel icon	Hotkeys/key combinations	Details
					contains the transport name, profile name and the user login to disconnect.
		Transport status			Opens a transport status window.
	Restore configure- tion				Restores workspace configuration.
	Save configuretion			Ctrl+S	Saves the current workspace configuration.
	New window			Ctrl+N	Opens a new main window.
	New tab			Ctrl+T	Adds a new tab to the desktop.
	Close tab				Closes the current tab at the desktop.
	Exit			Ctrl+Q	Closes the trading terminal application.
View					
	Full screen			Ctrl+Shift+F	Opens the application in full-screen mode.
	Show toolbar				Allows to show/hide toolbar under the main menu line.
	Show side panel			Ctrl+L	Allows to show/hide sidepanel.
	Information			Ctrl+I	Displays information about a selected instrument.
Tables					The main terminal windows.
	Financial instru- ments				Opens the Financial instruments window.
	Options board				Opens the Options board window.
	Sessions				Opens a list of trading sessions.
	Your orders/ re- quests		14444		Opens your orders window.
	Your trades/ requests		6		Opens your trades window.
	All trades/ requests				Opens all trades window.
	Order-book for in- strument				Opens an Order-book for the selected instrument. The favorite instruments are displayed at the top of the menu.
		Favorite instru- ments		Ctrl+Alt+F	Opens a favorite instruments window.

Main menu command	Nested menu com- mands (2nd level)	Nested menu commands (3rd level)	Instru- ment panel icon	Hotkeys/key combinations	Details
		Select instrument	1		Opens an instrument selection window.
Trading					The section contains the most frequent trading operations.
	Money				Opens a window, containing information about money positions for client accounts.
	Positions/ requests				Opens a window, containing information about instrument positions for client accounts.
	Add order		₹ •		Opens an empty form for adding orders.
	Cancel orders				Mass order cancellation.
		Cancel all orders			Mass order cancellation according to the client or BF account specified.
		Cancel all buy or- ders			Mass buy order cancellation according to the client or BF account specified.
		Cancel all sell or- ders			Mass sell order cancellation according to the client or BF account specified.
	Messages				Opens an orders status messages window.
	Postponed orders				Opens the Postponed orders window, wich allow a batch entry of orders.
	Errors and notifica- tions				Opens the Errors and no- tifications window, which contains messages from the trading system for the cur- rent connection session.
	Administrator's messages			Ctrl+Alt+M	Opens the Administrator's messages window, which contains messages from the trading system administrator for the current connection session.
	Option calculator				Allows to work with the option calculator - analyze option strategy.
Manage- ment					The section contains operations that are included in the plugin Management .

Main menu command	Nested menu com- mands (2nd level)	Nested menu commands (3rd level)	Instru- ment panel icon	Hotkeys/key combinations	Details
	Market maker's obligations for options				Opens the Market maker's obligations for options window, which allows to monitor the implementation of market-making obligations.
	Market maker's obligations for fu- tures				Opens the Market maker's obligations for futures window, which allows to monitor the implementation of market-making obligations.
	Management				Opens the Management window, which allows to set and manage limits and prohibitions.
	Pledges detailiza- tion				Opens the Pledges de- tailization window, which allows to view data on pledges.
	Prohibitions				Opens the Prohibitions , window, which allows to set and manage prohibitions.
	Order to withdraw and deposit funds				Opens the Order to deposit/withdraw funds window.
Tech. analy- sis					The section is used for working with charts.
	Open chart		# •		Opens a window containing charts for a selected instrument. The upper side of the menu contains the selected favorite instruments.
		Favorite instru- ments		Ctrl+Alt+F	Opens a favorite instruments window.
		Select instrument	**	Alt+C	Opens an instrument selection window.
	Indicator editor			Shift+E	Opens the Indicator editor window, which is used for editing indicators and functions.
	Manage TA data				Import/export the technical analysis data
		Import		Shift+I	Import of data, received from external sources.
		Exort		Shift+X	Export of data saved by the technical analysis plugin.
		Edit		Shift+D	TA saved data editor.

Main menu command	Nested menu com- mands (2nd level)	Nested menu commands (3rd level)	Instru- ment panel icon	Hotkeys/key combinations	Details
Settings					Trading terminal settings.
	Manage configura- tions		-		Opens the Workspace configurations window, which allows to manage workspace configurations.
	Favorite instru- ments			Ctrl+Alt+F	Opens a favorite instruments window.
	Restore default set- tings				Resets all user settings and restores the default settings.
	Terminal settings			Ctrl+,	Opens a terminal settings window.
Current window					The section is used for managing the current window.
	Minimize window			Ctrl+M	Toggles the current window to taskbar.
	Maximize window			Ctrl+Shift+M	Expands the previously tog- gled window.
	Pin/ unpin window			Alt+W	Pins a window in the tab or unpins it from the tub.
	Close window			Ctrl+W	Closes the current window.
	Move to tab				Moves the current window to another tab from the dropdown list.
	Copy to clipboard				Copies contents of the current window into buffer.
	Export				Exports contents of the current window into a TXT file.
	Save by default				Saves the current window settings as default settings.
	Restore to default				Restores default settings for the current window.
	Window settings			Ctrl+E	Opens a current window settings dialog box.
Windows					The section is used for working with open windows. The upper The upper side of menu contains a list of all open windows (in all tabs). You can switch between the open windows by selecting them in the list.
	Next window			Ctrl+Tab	Switching between windows – Next window.
	Previous window			Ctrl+Shift+Tab	Switching between windows – Previous window.

Main menu command	Nested menu com- mands (2nd level)	Nested menu commands (3rd level)	Instru- ment panel icon	Hotkeys/key combinations	Details
	Arrange windows side by side				Arranges windows side by, side, covering the whole desktop. This menu item is available only for the tabs with windows.
	Cascade windows				Automatically cascades windows – some windows become partly overlapped with another ones. This menuitem is available only for the tabs with windows.
Help					The section contains information about the application.
	Help				Opens the help text.
	About				Displays information about the application including its version number.
	About plugins				Opens the list of installed plugins. Information includes file names, file locations, developers' names and brief descriptions.
	About Qt				Displays information about the development language.
	Context help			F1	Opens a window with context help system.
	Report application error				Opens the Report application error window, which allows to enter a description of the error message and send it to the developer. Detailed description - see section 4.8.
	Open log file				Opens the folder, containing the terminal log-file.
	Plaza2 log file			Ctrl+Alt+L	Opens the Plaza2 log-file.

5.3. Instrument panel



Fig. 5.3. Instrument panel

The instrument panel is situated right below the main menu line. It contains icons of some of the frequently used commands, which can also be executed via the application main menu.

You can switch the instrument panel on and off via the context menu by using the **Show toolbar** checkbox (check it to display the instrument panel and uncheck to hide the instrument panel).

You can open the context menu by clicking right mouse button over the instrument panel.

If the instrument panel is hidden, you can access the context menu by clicking right mouse over the main menu line.

Tab. 5.2. Instrument panel items

Instrument panel icon	Main menu command	Hotkeys/key combinations	Details
-1- ▼	File/ Connections/ Connect or Disconnect SPECTRA		Connects/ Disconnects transport.
	File/ Save configuration	Ctrl+S	Saves the current workspace configuration.
-	Settings/ Manage configura- tions		Opens the Manage configurations window.
3 •	Tab/ Order-book for instrument		Opens the Order-book window.
**	Tech. analysis/ Open chart		Opens the Open chart window containing chart for the selected instrument.
	Tab/ (Your trades/ requests)		Opens/makes active the Your trades/ requests window.
10000	Tab/ (Your orders/ requests)		Opens/makes active the Your orders/ requests window.
	Trading/ (Positions/ requests)		Opens/makes active the Positions/ requests window.
(3)	Trading/ Postponed orders		Opens the Postponed orders window.
₹ +	Trading/ Add order		Opens the Add order window.

5.4. Side panel

You can open a side panel in the left side of the application workspace.

You can show or hide the side panel by the **View/ Show side panel** command of the main menu or by pressing the **Ctrl+L** key combination.

You can select the side panel contents via the **Settings/Terminal settings** main menu item (in the **Side panel** section), where the option name corresponds to the section name in the side panel. Therefore, you should turn on the option to add it to the side panel and turn it off to remove from the side panel.



Fig. 5.4. Side panel

The side panel consists of the several sections:

• **Tabs** – displays shortcuts for all tabs open in the current main window. Here you can switch between tabs by clicking left mouse button on them. You can change the tabs order in the section; to do this, drag and drop a selected tab into a new position. The currently active tab is marked with blue arrow.

By clicking the right mouse button at a tab, a context menu appears with the following commands:

- o Rename changes tab name;
- **Clone** allows to clone the tab including its name and all its windows (you can change the tab name before clicking **OK**). You can add up to 9 tabs in the same main window; after that, the **Clone** command becomes inactive.
- Close tab closes the active tab;
- New tab opens a new tab. You can add up to 9 tabs in the same main window; after that, the New tab command becomes inactive:
- Favorite instruments displays list of the favorite instruments. The list includes only the instruments traded in the current session. There are the best sell price and the best buy price indicators below each instrument where green colour indicates price increase and red colour indicates price decrease. You can add more instruments to the list by dragging-and-dropping them from the Financial instruments, Options board, All trades/ requests, Your trades/ requests and Order-book windows. Negotiated instruments can not be in the list of Favorite instruments. Also, you can change the instruments order in the list again by dragging-and-dropping them from one position to another. The Favorite instruments list allows to select more than one record using the Shift и Ctrl key combination. Some actions may be applied to groups of instruments. By clicking the right mouse button at an instrument, a context menu appears with the following commands:
 - Add order adds order for the selected instrument into the trading system. Also, you can add orders for the selecting instrument by double clicking the left mouse button on it in the list. In the context menu, this command is market by bold font as the default command. The menu item becomes available only when a single instrument selected.

- **Open Order-book** opens an Order-book window for the selected instrument. The menu item becomes available only when a single instrument selected.
- Open chart creates a graphical chart for the selected instrument. If you selected more than one instrument in the Favorite instruments list, than chart for each instrument will be opened in a separate TA window.
- Open all trades opens the All trades/ requests window with the filter applied according to the selected instruments;
- Information opens the Information window for the selected instruments (section 6.1.1). The window contains
 information for all selected instruments. When there are some different ones selected such as indices, futures and
 options), the window will contain the same parameters for all the instrument in accordance with the parameters
 set for the first selected instrument.
- Remove removes the selected instruments from the list of the favorite instruments;
- Add to favorites adds a new instrument into the list of the favorite instruments.
- Unprocessed orders the section contains unprocessed orders, i.e. the orders which have not been added into the
 trading system for some reasons (for example, if an order price is out of price limits, this order will not be processed).
 By clicking the right mouse button at an instrument, a context menu appears with the following commands:
 - Repeat order opens a window containing properties of the selected order. Here you can edit the order parameters and try to repeat adding this order;
 - Cancel order the order will be cancelled and removed the order from the list of unprocessed orders. This menu
 item is available for the orders, for which replies were received;
 - Remove from list the order will be removed from the list of unprocessed orders. This menu item is available for the orders, for which replies were not received. Please note, that the order will not be cancelled;
 - Cancel all orders clears the list of unprocessed orders.
- Closing trade this section contains parameters of the last matched order: instrument code, trade price and quantity of instrument in the trade (in brackets).

5.5. Status line

The status line is situated at the bottom of the application workspace.



Fig. 5.5. Status line

The status line contains the following information:

- all available transports: green colour indicates connected transport and black colour indicates disconnected one;
- · server's time;
- connection error messages for the current connection session. Once a connection error occurs, the □ icon appears
 in the status line. By clicking on the icon, the Errors message appears on the screen see section 6.6.2.
- if the trading system administrator sends a message to the system, then the $\stackrel{\square}{\hookrightarrow}$ icon appears in the status lineBy clicking on the icon, the **Administrator's messages** window appears on the screen see section 6.6.1.

5.6. Main functional windows

Functional windows are the main elements of the trading terminal user interface. Functional windows are used for viewing information and/or to interact with it.

Tab. 5.3. Trading terminal functional windows

Window name	Main menu item	Details
Financial instruments	Tables/ Financial instruments	The window contains the complete list of instruments traded in the current trading session, along with the instruments parameters.
Options board	Tables/ Options board	The window contains the complete list of options traded in the current trading session.
Sessions	Tables/ Sessions	The window contains general information about the current and the previous trading sessions.
Your orders/ requests	Tables/ (Your orders/ requests)	The window contains the complete list of orders added by you during the current trading session.
Your trades/ requests	Tables/ (Your trades/ requests)	The window contains the complete list of user trades for the current session.
All trades/ requests	Tables/ (All trades/ requests)	The window contains the list of all trades for the current session.
Order-book	Tables/ Order-book for instrument	The window displays all orders for the current session as Order-book. This window is used for adding orders into the trading system.
Money	Trading/ Money	The window displays information about user money positions for every account.
Positions/ requests	Trading/ (Positions/ requests)	The window contains user instrument positions for every account. This window is also used for adding exercise orders for options.
Messages	Trading/ Messages	The windows displays the trading system messages returned in reply to user actions. Error messages are returned in case of any failure in adding orders.
Management	Management/ Management	The window displays clients limits. You can change the limits from the context menu in if you have sufficient rights.
Tech. analysis	Tech. analysis/ Open chart	The window is used for creating graphical charts.

5.7. Workspace configuration

The workspace configuration is the whole of the application main window settings, quantity of the application main windows including their contexts, tabs, unpinned windows, as well as every window preferences and settings. Users can create several workspace configurations and activate each of them when necessary.

The workspace configuration loaded at the first application start is the basic workspace configuration. If, for any reason, you do not like it, you can create your own workspace configurations and save them for later usage.

The **Configuration management** window contains the list of default and user created workspace configurations.

The active workspace configuration is always marked in bold in the list (fig. 5.6).

You can manage workspace configurations using the **Settings/Configuration management** main menu item.

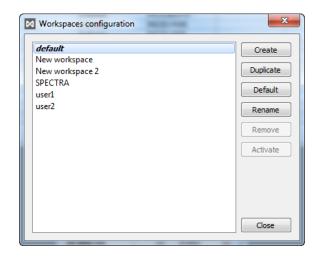


Fig. 5.6. Workspace configurations management

Tab. 5.4. The workspace configurations management buttons

Button	Details
Create	The button allows to create a new workspace configuration by opening an appropriate window - fig. 5.7. For details see section 5.7.1.
Duplicate	The button allows to clone an existing workspace configuration. The (fig. 5.7) window appears on the screen, where you should enter the name of a new configuration. By default, the system offers the name of the parent configuration with the clone number added.
Default	The button allows to create a workspace with a default configuration. The (fig. 5.7) window appears on the screen, with the default configuration name 'SPEC-TRA'. The configuration name can be changed by user.
Rename	The button allows to rename configurations in the list. The (fig. 5.7) window appears on the screen, where you can enter a new configuration name and press OK .
Remove	The button allows to remove a selected configuration from the list. Before removing, a warning message appears on the screen: 'Are you sure you want to remove the configuration "name"?' To confirm press Yes , to cancel press No .
Activate	The button allows to make the selected configuration active.
Close	The button closes the configurations management window.

By default, all the changes you make to the workspace configuration during you work with the terminal are saved automatically. If needed, you can turn on the automatic workspace configuration saving option by selecting the **Save the current workspace configuration at exit** command, which can be found at **Settings/ Terminal settings** in the **Main** section in the **Main** tab. If the automatic saving option is not set, the default workspace will be loaded at the next terminal startup.

5.7.1. New workspace configuration

You can create a new workspace configuration via the **Settings/ Manage configurations** main menu item, by pressing the **Create** button. A window appears on the screen:

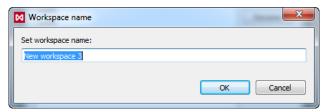


Fig. 5.7. Creating new workspace configuration

In the window, you should set the new configuration name.

If the configuration name already exists, a warning message appears on the screen: 'A workspace with this name already exists'; in this case, you should enter another name. You cannot overwrite the existing configurations.

Press **OK** to add the new configuration into the workspace configurations list.

Press Cancel to close the window without saving any changes.

5.7.2. Saving configurations

You can save the active configuration by the following methods:

- via the File/ Save configuration main menu item;
- · by pressing the Ctrl+S key combination.

The active configuration will be saved under its current name. The current name of the active configuration is displayed in the main window title.

5.7.3. Restoring configuration

You can restore the previous configuration via the **Filel Restore configuration** main menu item, without any changes you made during your work with the terminal. Please note, that after you saved any of your changes, you will not be able to restore the previous configuration.

5.7.4. Restore default settings

The Settings/ Reset to default main menu item allows to reset all user settings and restore the default settings. All user created workspace configurations will be deleted. The workspace configuration list (Settings/ Manage configurations) will contain only the default workspace configuration.

You will have to restart the terminal application to reset user settings. Before restarting, the warning message dialog will appear on the screen. Press **Yes** to confirm reset, or **No** to cancel.

5.8. Basic configuration

The workspace configuration loaded at the first application start is the basic workspace configuration set by default (with the active side panel). You can change the configuration later according to your needs.

Attention, please!

Please note, that, according to some filters applied, not all information is displayed in the basic workspace configuration. To view and change filters settings please use the **Window settings** context menu item - see section 5.10.4.1.

You can also setup the column contents in tables via the **Window settings/ Columns** menu item - see section 11.3.

The Order-book windows opened in different tabs may have configurations different from the default configuration. Therefore, every time you open a new Order-book window, it may look differ from an already opened default Order-book window. By default, every new Order-book window opens in the default mode with fixed center. The One-Click mode is not active by default.

5.9. Windows management

The section overviews methods of managing the application workspace:

- tabs;
- · unpinned windows;
- · windows arrangement;

- · switching between windows;
- · windows management.

5.9.1. Tabs in the workspace

The tabs allows to group windows in the workspace to help switching between one windows group to another. Every open window belongs to a tab except unpinned windows - see section 5.9.2.

After you switched to a tab, all its windows become visible, while all other windows (belonging to other tabs) hide.

You can open up to nine tabs in the same main window at one time.

There are two types of tabs:

- window tabs see section 5.9.1.2;
- panel tabs see section 5.9.1.3.

The tabs type is specified for all tabs in the application, but you can change it later, if needed. After applying the changes, all opened tabs will be changed to the newly set type. The panel tabs is the tab type set by default; To change it, use the **Settings/ Terminal settings/ Main/ View** main menu item, the **Use tabs with** option.

5.9.1.1. Actions with tabs

You can switch between the opened tab by:

- · clicking shortcuts in the side panel;
- pressing the **Ctrl+1**, **Ctrl+2**, etc. key combinations. You can find the necessary key combination in the pop-up tooltips by moving mouse cursor on tabs see fig. 5.4.

You can do all the possible actions with tabs from the context menu by clicking tab shortcut in the side panel:

- Rename opens a window. Enter a new tab name and press OK;
- **Clone** allows to clone the tab including its name and all its windows (you can change the tab name before clicking **OK**). You can add up to 9 tabs in the same main window; after that, the **Clone** command becomes inactive;
- Close tab closes the selected tab. Before closing, a warning message appears on the screen: 'Are you sure you want to close the tab? All windows in the tab will also be closed". Press Yes to close the tab including all its windows, or No to continue working with the tab and its windows;
- New tab allows to create a new tab by entering its name and pressing OK. You can open up to 9 tabs in the same
 main window; after that, the Clone command becomes inactive;

The new tab can be open by

- executing the File/ New tab command of the main menu;
- by pressing Ctrl+T,
- by executing the **New tab** command of the context menu in the side panel (the **Tabs** area).

You can close the tab:

- · by executing the File/ Close tab command;
- by executing the Close tab command of the context menu in the side panel (the Tabs area).

5.9.1.2. WIndow tab

In this type of tabs, additional window can be situated randomly, even overlapping each other.

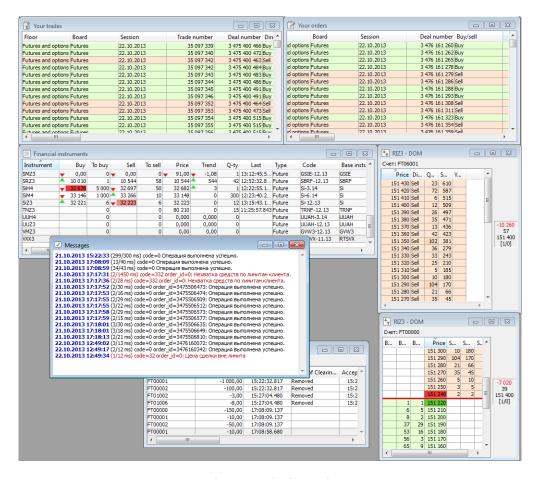


Fig. 5.8. Window tab

When opening, a window is placed to a random area of the tab; it can be later moved to another area.

To move a window, drag and drop its title using the right mouse button..

You can also change a window's size. To do this, place mouse cursor at the window border (the cursor will change its shape to double-arrow), then press the left mouse button and drag to maximize or maximize the window. You can change size of any open window independently from other windows' sizes.

The other way to manage additional windows is to use the context menu; to open it, click right mouse button at the additional window title:

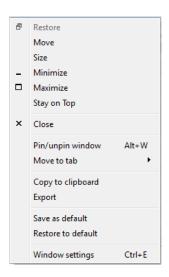


Fig. 5.9. Context menu for additional window

By checking the **Stay on Top** menu item, you will force the current window to always stay on top. To do this, click the left mouse button on the menu item.

There are two additional settings in the **Windows** main menu item, which are used for the window tabs only. They allow to quickly arrange windows in tab (see section 5.9.3):

- Arrange windows side by side arranges windows side by side;
- Cascade windows arranges windows by putting them in a single stack, leaving their titles visible.

5.9.1.3. Panel tabs

In the panel tabs, the additional windows always take all possible place.

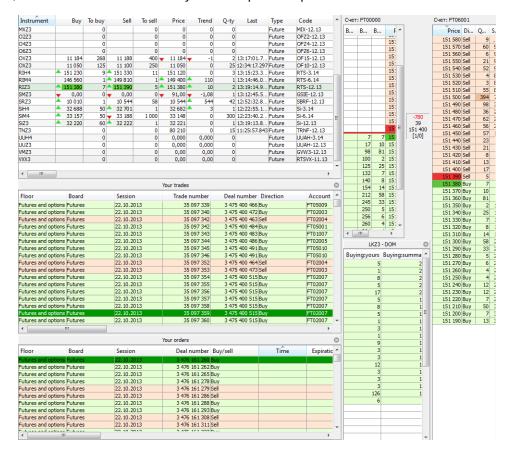


Fig. 5.10. Panel tabs

To move a window within the tab, click its title with the left mouse button and drag to an area you need; its borders will be adjusted automatically to fit the window. Then the window will take all possible area between opened windows and borders of the workspace.

To change the window size place the mouse cursor at the border between two windows (the cursor will change its shape to double arrow). Press the left mouse button and drag to maximize or maximize the window. Changing size of one window will automatically affect to the neighbor windows sizes.

You can dock windows horizontally and vertically, one to another, within the same tab.

In the panel tabs, additional windows can form groups of windows overlapping each other; to activate a window you should click its shortcut in the bottom of the group. To form a group, drag one window over another, until a frame appears around the recipient window, then release the left mouse button. The upper window will be represented as tab in the lower window. To separate window from the group click the window title and drag it to an area you need.

You can open a new window as a tab belonging to an already opened window. It means, that there is no need to manually move it. For more details see section 5.9.4.6

5.9.2. Unpinned window

Unpinned windows do not belong to any tab, so you can move them to any area within the workspace independently of other windows. Also, you can change their sizes freely, according to your needs.

Unpinned window is displayed in the taskbar as a standalone application.

You can unpin window using the following methods:

- via the **Current window/ Pin/unpin window** main menu item;
- · via context menu item Pin/unpin window opened on title line of window;
- · by pressing the Alt+W key combination.

You can unpin window to a tab using the following methods:

- via the Current window/ Pin/unpin window main menu item;
- via context menu item Pin/unpin window opened on title line of window;
- by pressing the **Alt+W** key combination.

Attention!

In Linux operating systems, you can pin/unpin windows by using the **Pin/unpin window** commands of menu or by pressing the **Alt+W** key combination.

Every unpinned window properties are equal to that of the standard window in the operating system you work in, so that any action applicable to the standard window can be applied to unpinned windows as well.

An unpinned window may become hidden under other windows. You can find a window you need via the **Windows** main menu item, by selecting the window you need in the list of the opened windows. Click it to make it active and visible.

For your convenience, every unpinned window has the menu line which is totally equal to that of the main window – see fig. 5.11. Displaying the menu bar in the free window is configured with the option **Show menus in unpinned windows** (the **View** tab of the **Main** section of main menu item **Settings/ Terminal settings**).



Fig. 5.11. Menu line in unpinned window

5.9.3. Arranging windows

You can arrange windows manually, by moving every window separately, dragging it with mouse to the area you need.

For window tabs, some new menu items appear in the **Windows** main menu item. They allow to automatically arrange windows in tabs, making the process quick and easy:

- Arrange windows side by side arranges windows side by side;
- Cascade windows arranges windows by putting them in a single stack, leaving their titles visible.

The automatic arrangement will be applied only for the tab it was launched from, and does not affect windows.

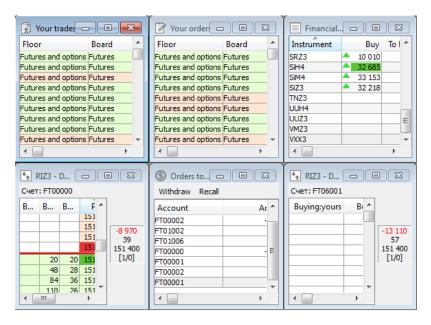


Fig. 5.12. Windows arranged side by side

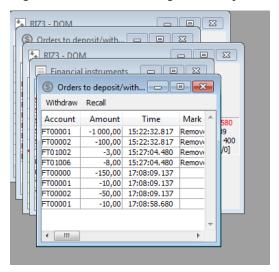


Fig. 5.13. Cascaded windows

5.9.4. Managing active window

Active window is the window which is now visible and situated on the top.

You can manage the active window by the following methods:

• by clicking commands in the Current window main menu item:

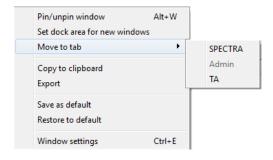


Fig. 5.14. Menu - Active window

- by clicking the icons in the window title line: , , , , , , ,
- by clicking the context menu commands (opened on the window title line) or with menu opened by button (icon of window) in the upper left corner of the window:

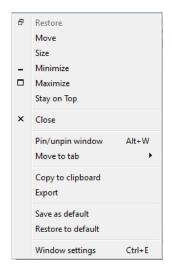


Fig. 5.15. Context menu, window title line

The following commands in the bottom of the context menu (fig. 5.14) are common o the context menus for all windows-see Chapter 11:

- · Copy to clipboard;
- Export;
- · Window settings.

5.9.4.1. Minimize window

You can minimize a window by the following methods:

- by clicking the the **Minimize window** menu item of the menu opened by button in the upper left corner of the window. This menu item is available only for the window tabs. You cannot minimize windows in the panel tabs;
- by clicking the icon;
- by clicking the Minimize menu item of the context menu (window title line);

After that, the window will be minimized to a shortcut in the taskbar. This minimized window is visible only in the tab it has been pinned to. The shortcut displays the window name and the buttons, which allow either to maximize the window or close it ...



Fig. 5.16. Minimized windows

5.9.4.2. Maximize window

You can maximize window by the following methods:

- by clicking the appropriate window icons:

 for the full screen mode or

 for the windowed mode;
- by clicking the **Maximize** menu item of the context menu (window title line). The window then will be maximized in the full screen mode;

- by clicking the **Restore** menu item of the context menu (minimized window title line). The window then will be restored in the previous mode, either full screen or windowed;
- by clicking the **Current window/ Maximize window** menu item of the main menu. This menu item is available only for the window tabs. You cannot maximize windows in the panel tabs.

5.9.4.3. Move window

You can move a window from one tab to another by the following methods:

- 1. By clicking the **Current window/ Move to tab** menu item; in the sub-menu, select a tab to move the window in. Please note, that you can move only the active window.
- 2. By setting window as 'unpinned':
 - unpin window see section 5.9.2;
 - open the tab you want to move the window in;
 - pin the window to the open tab see section 5.9.2.

You can move windows within the active tab by the following methods:

- · by clicking window title line with the left mouse button and dragging it to the area you need;
- by clicking the Move menu item of the context menu (window title line). After clicking, move the window to the area
 you need using your mouse (without pressing any mouse button), then click the left mouse button to fix the window
 in the new area.

5.9.4.4. Change window size

You can change window size by the following method:

- move your mouse cursor to a window border; the mouse cursor then will change its shape to double-arrow;
- press left mouse button and drag the window border, then release the left mouse button;
- the window then will be fixed in the size you need.

Changing size of a window also affects the neighbour windows sizes.

5.9.4.5. How to force window to stay on top

It is possible to force a window to always stay on top, even if it is not active. To do this, click the **Stay on Top** menu item of the context menu (window title line); the menu item will become checked. Uncheck the menu item to switch the window back to the previous mode .

5.9.4.6. Opening new windows as tabs

If you use the desktop configuration with panels, every new functional window opens as a tab of an already opened window. You can set a window as the dock area for new windows:

- via the icon in the window's header;
- via the Set dock area for new windows context menu item opened from the current window's header;
- via the Current window/ Set dock area for new windows main menu item.

The dock area is marked with the icon . Please note that this window is not necessary the current window! If the current window is marked with , it means that new windows will be opened in another window which had been set as the dock area.

5.9.4.7. Close window

You can close a window by the following methods:

- by clicking the appropriate icon in the window title line [™];
- by clicking the Close menu item of the context menu;

5.9.4.8. Save and restore window configuration

You can save the current window configuration as default by clicking the **Current window/ Save as default** menu item of the main menu. When saving the window configuration, its size, location, appearance, filter and sorting settings are saved as default. After that, all windows of that type will obtain the same settings as the default window.

Click the Current window/ Restore to default menu item to restore the default window configuration.

5.9.5. Switch between functional windows

You can switch between open functional windows by the following methods:

- by finding the needed window visually on the screen; to make it active, click the left mouse button on it;
- by finding the needed window name in the **Windows** menu element of the main menu; to make it active, click the left mouse button on it.
- by pressing the Ctrl+Tab or Ctrl+Shift+Tab key combination. .After pressing one of these key combination, a window will appear on the screen, displaying list of all open windows in every tab. Hold the Ctrl key pressed and press Tab to switch between the open windows one by one according to the list order. The next selected window in the list will become active automatically.
- by clicking the **Windows/ Next window** or **Previous window** main menu items. These commands are used to switch windows one by one, without preselecting them in any list.;
- by clicking the left mouse button on a window shortcut (if the window belongs to a window group). Please note, that you can create such window groups only when working with panel tags.

5.10. General work practices

This chapter overviews the general work practices with the trading terminal:

- · editing fields;
- · sorting data;
- · context-based searching;
- · filtering.

5.10.1. Editing fields

The way of editing fields depends on the field type.

If there is a button in the right side of the field, than the field value can be selected in the drop-down list.

If the field contains a text string or a value:

- switch the field to the edit-mode by clicking on it;
- enter a text or a value you need using keyboard.

You can change the field value by using the box in the right side of the field. The value right to the buttons indicates the incremental step.

5.10.2. Sorting data

In most of the application windows, you can sort records in some columns by clicking their titles with the left mouse button. The active column then will be marked with a small blue arrow, indicating the direction of sorting:

- the up arrow is for the ascending/A to Z order;
- the down arrow is for the descending/Z to A order.

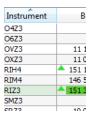


Fig. 5.17. Sorting by column

Every window has its own parameters to sort data by:

- the All trades/ requests, Your trades/ requests and Your orders/ requests windows by time (the Time column);
- the **Order-book** window by order price (the **Price** column);
- the Options board window by strike (theStrike column);
- the Positions/ requests and Money windows by account (the Account column) and any more parameter;
- the Financial instruments window by any column. The sorting is made in its own specific way see section 6.1.2.3.

5.10.3. Contextual search in tables

You can do contextual search in the **All trades/ requests**, **Your trades/ requests**, **Your orders/ requests**, **Financial instruments** and **Options board** tables.

You can activate the contextual search line by pressing the **Ctrl+F** key combination. After that, the line will appear between the window title line and the column titles, where you can enter any consequence of symbols to search for. To start search, press **Enter** - the cursor will be placed in the line where the target sequence of symbols is situated. The search is applicable to every field in the window.

To go to the next search object press the **F3** key of keyboard or use the arrow buttons:

- **1** go to the previous search object containing the target sequence of symbols;
- **L** go to the next search object containing the target sequence of symbols.

Once you have found what you searched for, press **Done**. The mouse cursor will remain on the last found search object.

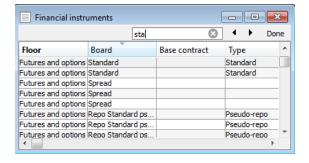


Fig. 5.18. Contextual search

5.10.4. Filtering

You can set filtering preferences via the following options:

via the Add filter Only '...' context menu items. The menu item is available only for the columns to which filtering
is applicable. The filter is set in accordance with the parameter value in the cell where cursor is placed. The list of
possible filtering parameters can be found via the Window settings/ Filters menu item;

- via the **Filters** context menu item, for the column, to which multiparameter filtering option is applicable. In the list of filtering parameters, select the one you need with the left mouse button. You can select only one filtering parameter at one time; to select more than one parameter, you will have to open the list of filtering parameters as many times as it is necessary. Please note, that if you cannot find a needed parameter in the context menu, it can be useful to try to use the **Filters** section of the **Window settings** context menu item instead, as there are some parameters, for which usage of several filters at once is not provided;
- · via the Filters section of the Window settings context menu item.

To apply the instrument filter you can use:

- the **Select instrument** context menu item, which is available only for the **Instrument** column. The **Select instrument** window opens on the screen (see section 5.11.1), where you can select a needed instrument. After selection is done, the filter will be applied according to the selected instrument;
- the **Add filter** context menu item, which is available in the **Instrument** column after selecting a cell containing the instrument code needed:
- the Window settings context menu item of the Filters section.

After the filter has been applied according to the selected column, this column title will be market in bold.

You can set all the available filters preferences via the Window settings/ Filters context menu item.

You can cancel filtering by using:

- the Clear filter context menu item (open from the column title). This option allows to clear the previously applied filter (please note, that absence of this menu item indicates that the filter has not been applied);
- the **Remove all filters** context menu item (open from the column title), which clears all filters by all parameters. Please note, that absence of this menu item indicates that the filter has not been applied);
- the **Filters** context menu item, for the columns, to which multiparameter filtering option is applicable. In the parameters list, check all possible parameters by clicking them with the left mouse button;
- the Window settings/ Filters context menu item. To clear filters, check the parameters you need to be displayed.

Once you close the window and then open it again, the window will be open in its default configuration, causing all your filter settings to be lost. To save your settings, you should save the current configuration as default via the **Current window/ Save by default** main menu item. This configuration becomes active even after restarting the application.

To automatically save the current configuration when you exit the terminal should install option **Save the current desktop settings befor exit (Settings/ Terminal settings/ Main/ Common)**.

5.10.4.1. Filtering settings via the window settings menu item

You can set options for all possible filters for all parameters for the current window by using the **Window settings** context menu item of the **Filters** section.

There are several ways for settings filters preferences:

● Floor: Futures and options - select one of several values by clicking it with the left mouse button (usually, there is a selection between 'all values' and a particular one). You can select a particular value from the drop-down list;

✓ Select all

✓ Currency swap

✓ Futures

- the Select all option allows to select/deselect all parameter values. The available parameter values are listed below, so you can also check/uncheck each value manually with the left mouse button. If there are some parameters left unselected, the Select all window will be marked in light-blue colour.

5.10.5. Context menu. General algorithm.

You can use context menu commands in every window of the trading terminal. The context menus may contain different commands depending on the window they belong to. Some commands which are common for all context menus are described below see Chapter 11.

There are some common principles of how the context menu commands work like.

- the commands:
 - Add order;
 - Open all trades;
 - Open Order-book;
 - Add chart;
 - Add volatility curve;
 - Information;

stay invisible in context menus until you have selected at least one element of the current table or window;

- the context menu item Information is always active;
- when you select an element, only the context menu items allowed for this instrument become active;
- when you select more than one element, the following context menu items stay inactive:
 - o Add order;
 - Open Order-book;
 - Add volatility curve;
 - but the context menu items Add chart and Open all trades may become active in case they are allowed for all the selected instruments:
- the context menu items will display the instrument name if you select a single instrument. But the instrument names are never displayed if you select more than one instrument.
- if you select more than one instrument, the active context menu items will display information for all selected elements:
 - the window Information will contain information on all selected instruments of any type (indices, options, futures, etc.);
 - the window **Tech. analysis** will contain charts (candlesticks, volume) for the selected instruments; the chart for each instrument will be added into a separate window;

o the selected instruments filter will be applied to the **All trades** window.

5.11. Auxiliary dialog boxes

The chapter overviews the following auxiliary windows:

- Select instrument;
- · Favorite instruments.

5.11.1. Select instrument window

The **Select instrument** window is used every time you need to select an instrument for working with it, i. e. creating a graphical chart or opening an Order-Book window.

The window title line usually contains detailed information about the aim of the instrument selection.

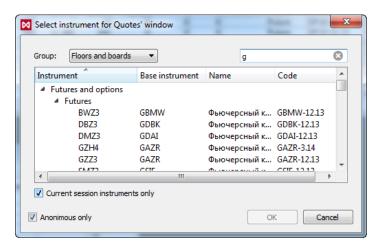


Fig. 5.19. Select instrument window

The window contains all instruments of all floors and all boards; you can group the instruments by selecting an appropriate value from the **Group** drop-down list:

- Floors and boards group instruments by floors, then by boards;
- Floors group instruments by floors, then from A to Z;
- Boards group instruments by boards, then from A to Z;
- **Types** the instruments are grouped by instrument type;
- Underlying asset group instruments by floors, then by underlying assets;
- Floors and types group instruments by floors, then by boards;
- Boards and types group instruments by boards, then by instrument types;
- Floors, types, boards group instruments by floors, then by types, then by boards;
- total group instruments from A to Z.

The contextual search option is available in the instrument selection window. To specify a search pattern, enter the sequence of symbols in a field right from the **Group** field - search then will start automatically. While searching, the system looks up for the target consequence of symbols in every field of the record. The window will display all records containing the sequence of symbols; the best matched results will be displayed on top. After the searching complete,

you can additionally apply any of the grouping options described above to the results. To cancel the search and return to the whole list of instruments, simply clear the search field.

The **Anonymous only** option allows to filter the main list of instrument. When it is active (by default), only anonymous instruments will be displayed in the main list of instruments.

The **Current session instruments only** option allows to filter the main list of instruments. When it is active (by default), only the instrument traded in the current trading session will be displayed in the main list of instruments.

To select an instrument, double-click it with the left mouse button or select it with cursor and press OK.

To cancel selection, press Cancel.

5.11.2. Favorite instruments

It may be convenient having the most usable instruments grouped in a separate list of 'favorite' instruments with fast access to it. Negotiated instruments can not be in the list of **Favorite instruments**.

There are several ways to create and manage the list of favorite instruments:

- via the **Favorite instruments** window see section 5.11.2.1;
- via the Favorite instruments area in the in the side panel (see section 5.4.), by dragging-and-dropping there one
 of the following windows: Financial instruments, Options board, All trades/ requests, Your trades/ requests
 and Your orders/ requests;
- via the Add to favorites and Remove context menu items, when context menu is open at the line containing a
 favorite instrument.

You can access the favorite instruments list from:

- the Settings/ Favorite instruments menu item of the Favorite instruments window. The Favorite instruments
 windows contains all favorite instruments, no matter whether they are traded in the current session or not. The
 following operations are available there: open Order-Book window, create graphical chart, add order into the trading
 system;
- the **Favorite instruments** area of the side panel. This list contains only those instruments which are traded in the current trading session, with the price direction information marked in red and green in case of rise and fall, respectively. You can see the same information in a pop-up window, after placing cursor at a favorite instrument:



Fig. 5.20. Side panel - Favorite instruments

The side panel allows to make the following actions with the favorite instruments:

- o open Order-Book window;
- create graphical chart;
- add order into the trading system;

- o open the All trades/ requests window, containing trades with selected instruments only;
- o open the **Information** window;
- o add an instrument into the list of favorite instruments:
- o remove an instrument from the list of favorite instruments;
- from the **Tables/ Order-book for instrument** main menu item. From there, you can open the **Favorite instruments** window or select an instrument from the list of the favorite instruments:

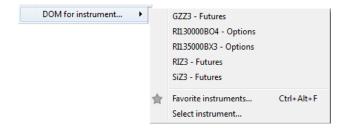


Fig. 5.21. Favorite instruments - menu

This menu item is used only for opening the Order-Book window for the selected instrument.

- from the **Tech. analysis/ Open chart** main menu item, which looks similar to the menu item described above. Using this menu item, you can create a graphical chart for the selected instrument;
- from the main instrument panel, using the following drop-down lists: (opens Order-Book window) and (creates graphical chart).

5.11.2.1. Favorite instruments window

The **Favorite instruments** window provides quick access to the most used ('favorite') instruments. These favorite instruments are available from the special window described above, as well as from the side panel - see section 5.4.

You can open the favorite instruments window by the following methods:

- from the **Settings/ Favorite instruments** main menu item; generally, it is used for setting up the favorite instruments list preferences;
- from the **Tech. analysis/ Open chart/ Favorite instruments** main menu item, when creating a new graphical chart;
- from the Tables/ Order-book for instrument/ Favorite instruments main menu item, when opening the Order-Book window;
- by pressing the Ctrl+Alt+F key combination.

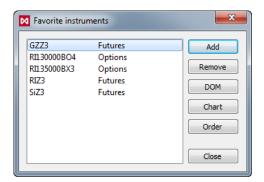


Fig. 5.22. Favorite instruments window

The instruments which are not traded in the current trading session are not removed from the list but marked in grey instead.

When you create a new graphical chart or open the Order-Book window, there is also the full list of favorite instrument displayed in menu along with the **Favorite instruments** menu item. You can select a favorite instrument in the list simply by clicking it with the left mouse button.

The following buttons are used for setting the Favorite instruments list:

- Add opens the Select instruments window (see section 5.11.1) and adds a selected instrument into the list of favorite instruments;
- Remove removed an instrument from the list of favorite instruments (please note, that there is no removal confirmation appears!). You can also remove an instrument from the list via the Remove context menu item.

The **Favorite instruments** list allows to select more than one record using the Shift and Ctrl key combination. Some actions may be applied to groups of instruments.

The following actions can be applied to the instruments in the list using the corresponding keys(fig. 5.22):

- Order-book opens the Order-Book window (see section 6.2.2) according to the selected instrument;
- Chart adds a graphical chart for the selected instrument in the Tech. analysis window (see section 9.2). If more
 than one instrument selected in the Favorite instruments window, the chart for each instrument will be added into
 a separate window;
- Order opens a window for adding orders into the trading systems according to the selected instrument (see section 6.2.3.1).

Most of the action listed above can be done via the corresponding context menu items opened from the **Favorite instruments** list. The context menu contains the following items:

- Add order opens a window to add order for the selected instrument. This menu item is available after selecting
 a single instrument only;
- Open all trades opens the window All trades/requests for the selected instruments (one or more than one);
- Open Order-book opens the order-book window for the selected instrument (the one under your cursor). This menu item is available after selecting a single instrument only;
- Add chart adds a graphical chart for the selected instrument in a separate Tech. analysis window. If more than
 one instrument selected in the Favorite instruments window, the chart for each instrument will be added into a
 separate window;
- Add volatility curve adds volatility curve into a separate window. This menu item is available for option contracts only after selecting a single instrument;
- **Information** opens the **Information** window for the selected instruments (one or more than one). The window will contain information on all the selected instruments including indices, options and futures; the window will contain the same parameters for all the instrument in accordance with the parameters set for the first selected one.
- Remove removes a selected instrument from the list of the favorite instruments.

Press Close to close the Favorite instruments window.

5.12. Data export

You can export data using the following methods:

• using the **Export** context menu item from any functional window;

· using the Current window/ Export main menu item for the current window.

You can select the export file format and path in a standard dialog box:

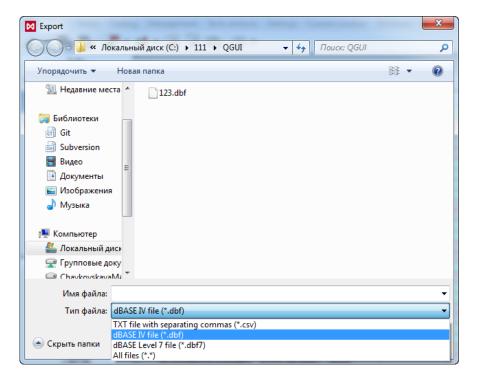


Fig. 5.23. Select the export data's format

There are two export formats are available:

- text CSV format file. When you export into this format, the fields' names are generated from internal identifiers(you can view them in the Identifier column of the Columns tab in the window setup dialog box);
- dBASE DBF and DBF7 file formats. As the dBASE Level 7 file format supports up to 31-symbol name length (contrary to the standard dBASE IV, which supports only 10-symbol name length), it allows to keep the initial names of the fields. Before exporting, each field name is checked to be the unique; otherwise, there are additional postfix (a digit or the underscore symbol) added in the name of the file.

To cancel exporting, press the **Cancel** button in the progress-bar window:

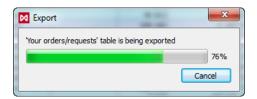


Fig. 5.24. Data export window

You can specify some global settings for the exporting data via the **Settings/ Terminal settings/** section **Main/** tab **Common/** group **Data export** main menu item (for more details see section 10.1). The following settings are available:

- Upload all columns while exporting allows to download all table's columns irrespectively to the user settings;
- Code to DBF format while exporting allows to select the DBF format data charset.

Chapter 6. Using the application functions

This chapter overviews the main application functions:

- · viewing information about trading,
- · orders managing,
- trades managing,
- · OTC trades managing,
- multi-leg instrument operations managing,

For every table, you can select the columns you want to be displayed. Also, you can vary the order of columns in the table.

For the All trades/ requests, Your trades/ requests, Your orders/ requests, Financial instruments and Options board tables there is an option of contextual search available (Ctrl+F).

For every table, you can copy its content to clipboard or export into file.

Some large tables, such as **All trades/ requests, Your trades/ requests** and **Your orders/ requests**, use cached data in order to reduce loading time, so every time you connect to the trading system, these tables will load starting from the last viewed point.

Some small tables, such as **Financial instruments**, **Sessions**, **Order-book** and **Positions**/ **requests**, are fully reloaded every time you establish a new connection to the trading system.

Futures and options are displayed in the same tables. If you want to view them separately, you can apply the trading board filter.

6.1. Viewing information

The **Tables** main menu item contains the main functions for viewing information about trading.

This section overviews the following functional windows:

- · Financial instruments;
- · Information;
- · Sessions;
- · Money;
- Positions/ requests;

For information about orders and trades windows please see the appropriate sections of this manual.

6.1.1. Information – parameters of the current record

The **Information** mode is used for viewing all parameters of the current record (the record where cursor is placed) in the functional window.

You can switch to the information mode via the following methods:

- via the View/ Information main menu item;
- by pressing the Ctrl+I key combination;
- · via the Information context menu item.

You can open the **Information** window from the following windows, containing information about trades and instruments, such as: **Financial instruments**, **Options board**, **Your orders/ requests**, **Your trades/ requests**, **All trades/ requests**, **Order-book**, as well as the **Favorite instruments** area of the side panel. Absence of the **Information** menu item in the context and main menus indicates that the **Information** window cannot be opened for the current active window.

After opening the **Information** window, this window becomes active. You can open more than one information windows at once, each for its own instrument.

If some instruments are traded in the same board, you can view them in the same window; to set this view mode, use the **Add instrument** context menu item or drag and drop instruments from other windows holding the **Ctrl** key pressed. To add instruments from the **Options board** window you should drag and drop the selected instrument to the **Information** window holding the **Shift** key pressed; two instruments (both PUT and CALL options) will be added into the window. For example, you cannot add an option by dragging it (with the **Ctrl** key pressed) into the **Information** window containing information of futures. In addition, the special marks will help to know whether adding of an instrument is

You can change an instrument right in the **Information** window by dragging it from another feature windows or via the **Change instrument(s)** context menu item. Note, that no new window will appear on the screen in this case, but information in the existing window will be refreshed.

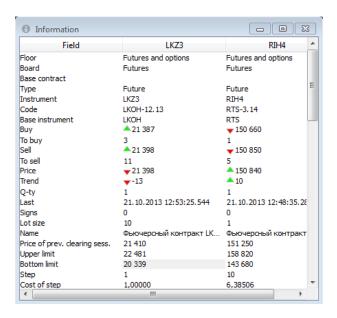


Fig. 6.1. Information window

The **Information** window contains information of the both **Put** and **Call** options in two columns with the same instrument code, but with different values in the **Type of option** field.

The **Field** column contains parameter name and the instrument code column contains the parameter value for the instrument. If the parameter list is too long, then scrollbar will appear in the right side of the window.

You can select parameters to be displayed in the Information window. You can do it in two ways:

 via the Settings/ Terminal settings/ Information main menu item. This setting is the default for every Information window. via the Window settings context menu item. This settings are used for a particular instrument trading board, when
the board is chosen in accordance with the instrument data in the Information window. After the settings are applied,
every information window for every instrument of the same board will obtain exactly the same parameters as the
initial window has, overriding parameters set via the main menu item. For all other boards, the Information window
will be opened with the settings set via the Settings/ Terminal settings/ Information menu item.

Data in the Information window refreshes automatically, following the trading data updating.

Once opened, the **Information** window will be saved in the workspace configuration and reopened automatically at the next launch.

You can copy data from the **Information** window and paste it into another documents. To copy data, select it by using mouse, **Shift + Ctrl** key combination or by using the appropriate command in the context menu (to select all data in the window) and press the **Ctrl+C** key combination or click the **Copy** context menu item.

You can close the **Information** window in the following ways:

- · by pressing Esc;
- · by pressing the Alt+F4 key combination, if the window is unpinned;
- by clicking in the window header.

The **Information** window context menu contains the following menu items:

- Open Order-book opens the Order-book window for the selected instrument;
- Open chart opens the Tech. Analysis window containing graphical data for the selected instrument;
- Copy (Ctrl+C) copies selected data from the Information window;
- Select all (Ctrl+A) allows to select all data in the Informationwindow;
- Delete instrument deletes the selected instrument from the list in the Information window;
- Add instrument adds a new instrument from the **Select instrument** window into the **Information** window. All instruments in the list are of the same board as the ones in the **Information** window.
- Change instrument(s) opens the Select instrument window, containing instruments of all boards. All open instruments will be deleted from the Information window:
- Fit width for all columns allows to automatically fit width for all columns in according with their content;
- Fit width 'column's name'— allows to automatically set the column width in accordance with its content. This action can also be performed by placing mouse cursor on the line between two columns (the cursor should get arrow-shaped) and double-click the left mouse button;
- Window settings opens the window settings dialog box. Allows to specify parameters for all instruments of the
 current board (futures, options, securities, etc.). The board is determined according to the instruments in the Information window.

6.1.2. Financial instruments

The **Financial instruments** window contains information of all instruments and indexes traded in the current trading session. The data update at every reconnection.

You can open the window using the Tables/ Financial instruments main menu item.

You can sort data in the table by any parameter you like – i. e. by every column (see section 5.10.2).

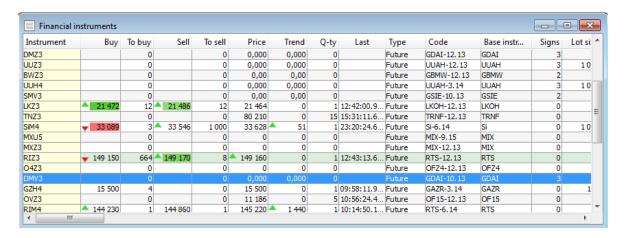


Fig. 6.2. Window Financial instruments

Tab. 6.1. Parameters in window Financial instruments

Parameter	Details
Instrument	Instrument short code.
Code	Instrument code.
Board	Instrument board.
Buy	Best buy order price.
For buy	Quantity in the best buy order.
Sell	Best sell order price.
For sell	Quantity in the best sell order.
Price	Price of closing trade.
Sings	Digits after decimal point in price.
Lot size	Quantity of underlying asset units in instrument.
Trend	Price fluctuation trend (difference between prices of two last trades).
Last	Date and time of last trade.
Min price	Minimum price.
Max price	Maximum price.
Op. pos.	Current amount of open positions.
Volume	Total number of lots in trades.
Turnover	Total trades volume.
Upper limit	Price upper limit.
Lower limit	Price lower limit.
Step	Minimum price step.
Cost of step	Cost of step price.
Floor	Floor short name.
Underlying contract	Option underlying contract.
Q-ty	Amount in the last trade.
Туре	Type of instrument.
Name	Instrument name.
Ending	Instrument expiration date.
Avg.	Average price.

Parameter	Details
Exercising	Instrument exercise date/ Option expiration date.
Rate	Percent rate of variating margin calculation for percent futures.
Collateral	Collateral
Quote	Current quotation.
Market quot.	Market quotation.
State	Trading status for instrument.
Direction	Instrument price direction - direction of the order which initiated the trade.
Base instrument	Base instrument code.
Main spot	Main spot code.
Type of option	Type of option: put or call.
Type of calculations	Type of calculation for option.
Session	Session name.
Trades	Amount of trades.
Prev. price	Setting price of previous session.
Changed	Date and time of record modification.
Amount to sell	Amount of sell orders.
Amount for selling	Amount in sell orders (in contracts).
Amount to buy	Amount of buy orders.
Amount for buying	Amount in buy orders (in contracts).
Opening price	Opening price.
Closing price	Closing price.
Strike step	Options strike step.
Volatility	Option volatility.
Th. price	Option theoretical price.
Currency rate	Rouble to US dollar exchange rate.
Prise of prev. clearing sess.	Prise of previous clearing session.
Collateral for covered positions	Underlying collateral per one covered subscriber's position. Collateral for synthetic position.
Collateral for naked pos.	Underlying collateral per one naked subscriber's position (RUB). Underlying collateral.
Collateral for buy	Underlying collateral for future-style option buying. Collateral for buying.
ACI	Accrued coupon interest.
Placing	Placing - for bonds.
Maturity date	Maturity date.
Coupon rate	Coupon rate.
Coupon period	Coupon period.
Coupon maturity date	Coupon maturity date.
Issued volume	Issued volume.
Price2	Repo near leg price.
Yield basis	Basic price to calculate yield.
Yield period	Date to calculate yield.

Parameter	Details
Delta	Option Delta.
Gamma	Option Gamma.
Vega	Option Vega.
Teta	Option Theta.
Change against prev.	Change against previous value (in points).
% change against prev.	Change against previous value (in percent).
UA name	Underlying assets name.
Exchange fee	Exchange fee.
Yield	Yield on futures on interest rates.

The fixed column is highlighted in yellow colour. This indicates, that the fixed column is always the first visible column in table, and it never hides even if you scroll the table. You can set any column in the table as 'fixed' by adding its name into the **Fix column** field in the **Window settings** context menu item of the **Columns** section. Fixed columns allow you to sort data in them simply by clicking the left mouse button on the column header.

Some fields in the **Financial instruments** window, such as 'best buy price', 'best sell price' and 'last trade direction' are highlighted in colours. You can specify this settings via the **Window settings**/ **View** – see section 11.2.

You can switch off the colour indication options via the **Window settings**: **Highlight buy-sell** and **Highlight last trade direction** context menu items of the **View** section.

Apart from the user specified colour indication, there is also colour indication for sell and buy prices sells, when little green and red arrows indicate price direction. This option cannot be switched off.

The **Financial instruments** window allows to apply the instrument filter. You can specify its settings via the **Window settings/ Instruments** context menu item – see section 6.1.2.2

If the instruments in the **Instruments** filter window have been selected manually, the ones in the **Financial instruments** window will not be updated automatically (for example, at trading session change). If the instruments have been filtered by groups, then new instruments will be added into the **Financial instruments** window automatically at trading session change.

The **Financial instruments** window provides possibility of contextual search (see section 5.10.3). You can activate the search window by pressing the **Ctrl+F** key combination.

To open the Order-book window for the certain instrument, double-click the instrument name in the **Financial instruments** window (see section 6.2.2). Also, you can open the Order-book window by using the **Open Order-book** context menu item.

During the intermediate trading sessions (morning and evening), the instrument list contains only the instruments which are traded on the current intermediate session, when each instrument is selected for intermediate trading by the trading administrator. All other instruments become visible at the beginning of the main trading session.

6.1.2.1. Filters in the Financial instruments window

You can specify filter settings for the **Financial instruments** window in the following ways:

- · by using the Window settings context menu item of the Filters section;
- via the Only 'parameter' context menu item. Filter will be applied according to the parameter in the cell under mouse cursor. If the parameter under mouse cursor is not applicable for filtering, then the Only menu item will be absent in the context menu. The list of applicable parameters can be found via the Window settings/ Filters context menu item

After filter has been applied according to a parameter, its column header in the **Financial instruments** window will be marked in bold. The parameter name in the **Window settings/ Filters** list will be also highlighted in bold - see fig. 8.24.

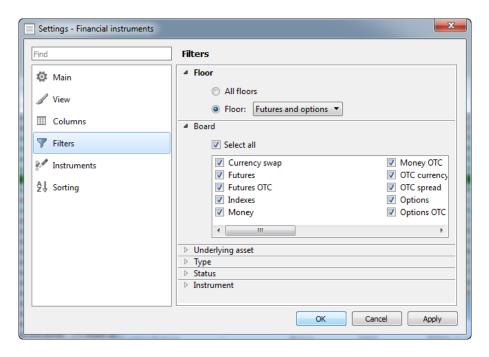


Fig. 6.3. Filter settings in the Financial instruments window

When a filter has been applied, the **Financial instruments** window will contain only the instruments allowed under the filter preferences. You can manually select the needed instruments by checking/unchecking checkboxes left of the instrument names with the left mouse button.

By default, the **Financial instruments** window contains all possible instruments.

Attention! Please note, that filters applied in the **Filters** and **Instruments** sections (see section 6.1.2.2) are used together. I.e., the window contains only the instruments which meet both filters' rules.

Tab. 6.2. Filter parameters in the Financial instruments window

Parameter	Details
Floor	Filter by trading floor:
	All floors – all instruments for all floors;
	Floor – instruments for the floor selected in the drop-down list.
Trading board	Filter by trading board. If the Select all option is active, then the window will contain all instruments for all boards. If the Select all option is inactive, the window will be empty. To select the instruments you need, you should select them manually by checking the appropriate checkboxes.
Underlying asset	Filter by underlying asset. If the Select all option is active, then the window will contain all trades for all underlying assets. If the Select all option is inactive, the window will be empty. To select the underlying assets you need, you should select them manually by checking the appropriate checkboxes.
Туре	Filter by instrument type.
Status	Filter by instrument status:
	Operations allowed – all operations are allowed for the instrument;
	Paused – trading session is paused; orders for the instrument can be removed;
	Settlement only – only trade settlements are allowed for the instrument;
	Operations prohibited – all operations are prohibited for the instrument.

Parameter	Details	
Instrument	The filter settings can be specified in the Window settings/ Instruments section - see section 6.1.2.2.	

You can deactivate the applied filter by the following ways:

- via the Clear filter '...' context menu item to remove the filter for one parameter. Please note, that this menu item is available only in the context menu of the column, by which the filter has been applied (the column header will be marked in bold);
- via the Remove all filters context menu item to remove all filters for all parameters. This menu item becomes
 available in the context menu when at least one filter has been applied to the list. Please note, that this menu item
 is available only in the context menu of the column, by which the filter has been applied (the column header will
 be marked in bold);
- via the Window settings context menu item of the Filters section. To remove filters simply activate the Select all mode.

Once you close the **Financial instruments** window and then open it again, the window will be open in its default configuration, causing all your filter settings to be lost. To save your settings, you should save the current configuration as default via the **Current window/ Save by default** main menu item. This configuration becomes active even after restarting the application.

Once you close the window and then open it again, the window will be open in its default configuration, causing all your filter settings to be lost. To save your settings, you should save the current configuration as default via the **Current window/ Save by default** main menu item. This configuration becomes active even after restarting the application.

To automatically save the current configuration when you exit the terminal should install option **Save the current desktop settings befor exit (Settings/ Terminal settings/ Main/ Common)**.

6.1.2.2. Filter for instruments in the Financial instruments window

The filter settings for the **Financial instruments** window can be applied in accordance with underlying asset of each instrument. You can do it via the **Window settings/ Instruments** context menu item:

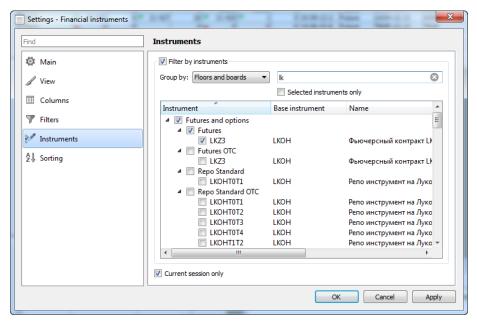


Fig. 6.4. Filter for instruments in the Financial instruments window

To activate the filter you should check the **Filter by instruments** checkbox. After that, you will be allowed to select instruments and their underlying assets in the list below.

You can group instruments in the list in the following ways:

- Floors and boards by floors, then by boards;
- Floors by floors only (boards are omitted);
- Boards by boards only (floors are omitted);
- Types by instrument types (indexes, options, etc.);
- **Underlying asset** by underlying assets (floors and boards are omitted);
- Floors and types by floors, then by instrument types;
- Boards and types by boards, then by instrument types;
- Floors, types, boards by floors, then by instrument types, then by boards;
- <total> in alphabetical order (according to instrument codes).

You can search for an instrument in the list by typing its name into the contextual search field; the case-insensitive search starts immediately after entering the first symbol. The search results will display all records containing the entered symbols. To clear search results simply delete symbols from the search field.

If the **Selected instrument only** option is active, the filter list will contain only the active instruments names.

You can change the filter settings by checking/unchecking checkboxes left of each instrument name (please note, that the **Financial instruments** window contains only active instruments!). After selection is done, press **Apply** or **OK**.

To cancel filtering, simply set all instruments in the filter list as active.

The **Current session only** option allows to manage the instruments list in the filter window. If the option is active, the list will contain only the instruments traded in the current trading session. Otherwise, some expired instruments from the previous trading sessions may also be added into the list.

When a new trading instrument is added into the trading system, its visibility in the **Financial instruments** window will depend on the filter type applied for this window. If an applied filter includes a group of instruments, then the new instrument may (or may not, if it does not belong to the group) automatically become visible and active in the **Financial instruments** window. If the filter includes only some particular instruments, the new instrument will not be included in the list automatically, so that it will not appear in the **Financial instruments** window until you manually change the filtering preferences.

Once you close the **Financial instruments** window and then open it again, the window will be open in its default configuration, causing all your filter settings to be lost. To save your settings, you should save the current configuration as default via the **Current window/ Save by default** main menu item. This configuration becomes active even after restarting the application.

6.1.2.3. Sorting in the Financial instruments window

You can sort data in the **Financial instruments** window by clicking the left mouse button on every column's header. Each click changes the sorting mode repeatedly, i.e.:

- · sorting in ascending order;
- cancel sorting;
- sorting in descending order;
- · cancel sorting;
- · sorting in ascending order;
- · etc.

As the strings constantly shuffle following the changes in their values, this way of sorting allows you to stop sorting at any moment and fix the strings in the order they are for convenient viewing.

You can change the records order manually by selecting the **Manual sorting** context menu item. In this mode, you can select any string in the window by clicking it with the mouse left button (the string will be highlighted in blue colour), then drag and drop it to the position you need.

Please note, that once the manual sorting mode is on, you cannot sort data in the window by the column headers. To sort data by a column's header, first turn off the manual sorting mode in the context menu.

Also, you can specify sorting in the **Financial instruments** window via the **Window settings/ Sorting** context menu item.

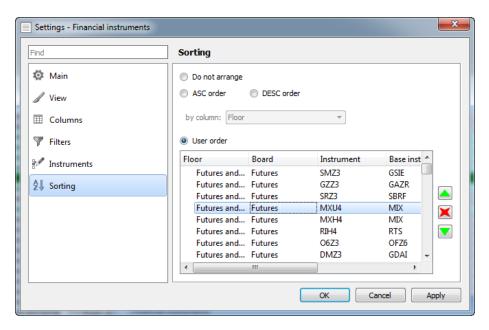


Fig. 6.5. Sorting in the Financial instruments window

You can turn on and off sorting by the table's every column. To do this, select one of the following ways of sorting:

- · Do not arrange sorting is off;
- DESC order values in a selected column are sorted in descending order (or in backward alphabetical order);
- ASC order values in a selected column are sorted in ascending order (or in alphabetical order).

The column name can be selected in the by column drop-down list.

If the filtering by instrument (**Window settings/ Instruments** - seesection 6.1.2.2) is active, you can enable a user defined sorting order. To do this, use the **User order** option for selecting the strings you need. To move strings from one position to another, or hide it in the table (fig. 6.5), you should place cursor onto a string and press one of the following buttons:

- — move one position up;
- v move one position down;
- X hide string in the table.

You can select more than one string at once using the **Shift** or **Ctrl** keyboard keys.

If the filtering by instruments is inactive, then you cannot arrange instruments in user defined order via the **Window settings/ Sorting** menu. Instead, you can do it in the **Financial instruments** window via the **Manual sorting** context menu item.

The list of instruments in the **Sorting** window strictly depends on an instrument filter applied, i.e. only the instruments set in the filter become available for sorting.

If you activate the filtering first, and then deactivate it, or turn off the filtering option in window, then all settings on the **Sorting** window will remain unchanged – until the filtering by instrument option remains unchanged, too.

Upon completion, you should confirm the changes you have maid to the sorting order by pressing Apply or OK.

6.1.2.4. Contextual menu in the Financial instruments window

The standard context menu items are described in Chapter 11. Below you will find description for the particular **Financial instruments** window context menu items. There are:

- Open options board—opens the Options board window, with the filtering applied by the selected underlying asset. I. e., the Options board window displays only the options for the same underlying asset as the one in the string where cursor was placed upon opening the context menu. This context menu item is available only if you open the context menu from a string with option;
- Open all trades opens the All trades/ requests window, with a filter applied according to the instrument selected in the Financial instruments window;
- **Open Order-book** opens the **Order-book** window for the selected instrument. The window can be also opened by double-clicking an instrument with the left mouse button;
- Open chart opens the Tech. analysis window, containing graphical chart for the selected instrument;
- Add volatility curve adds the volatility curve chart into a separate window. This menu item is available only for options;
- Information opens the Information window, containing data on the selected instrument;
- Add order opens the order adding window (see section 6.2.3.1);
- Add filter or Only 'parameter name' enables filtering according to the parameter where cursor was placed. The parameter name is available in a menu item. Please note, that the menu item is displayed only when the filtering option is available for the parameter selected. The list of the parameters can be found via the **Window settings/Filters** context menu item; also, there you can specify the filtering parameters (see section 6.1.2.1);
- Remove all filters removes all filters by all parameters. This context menu item is available only when the context menu has been opened from a co;lumn header and only when at least one filter has been applied;
- Manual sorting allows to manually sort records by dragging and dropping lines with cursor. To activate/deactivate
 this option you should check/uncheck the checkbox left of this context menu item. Also, it can be specified via the
 Window settings/ Sorting context menu item.

Please note, that actions associated with any the context menu items will be applied to a financial instrument under the mouse cursor. Please position it carefully!

6.1.3. Sessions window

The trading session is divided into the following parts (which have very few connection with time of day):

- the evening trading session which lasts from 7:00 PM till 11:60 PM (Moscow time zone);
- the main trading session which lasts from 10:00 AM till 6:45 PM (Moscow time zone).

During a single trading session, the same instruments are traded, and the same parameters are used to calculate collaterals.

Between the evening and the main trading sessions, the trading system is busy with many important things, such as clearing session, generating and sending reports, etc.

Before a new trading session starts, all expired instruments are removed from the system, and new instruments are added into. Please note, that the newly added instruments are not allowed for trading in the evening session (7:00 PM till 11:50 PM), while they are still visible in the trading system.

The **Sessions** window contains data on the current and next trading sessions.

The Session window can be opened via the Tables/ Sessions main menu item.



Fig. 6.6. The Sessions window

Tab. 6.3. Parameters in the Sessions window

Parameter	Details
Floor	Floor short name.
Session day	Session date.
Name	Session name.
State	Current state of session.
Starting	Session starting time.
Ending	Session ending.
Clearing start	Int. clearing starting time.
Clearing fin.	Int. clearing ending time.
Evening start	Add. evening session starting time.
Evening end.	Add. evening session ending time.
Morning start	Add. morning session starting time.
Morning end.	Add. morning session ending time.

The context menu contains only the standard commands, which are available for all windows – see Chapter 11.

6.1.4. Money

The **Money** information window displays the user's current money position for all available accounts. It can be opened via the **Trading/ Money** main menu item.

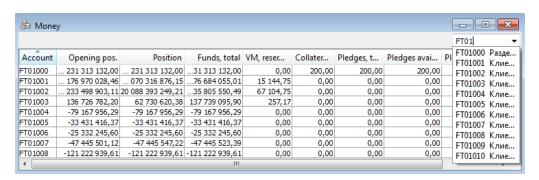


Fig. 6.7. Money window

Tab. 6.4. Parameters in the Money window

Parameter	Details
Account	Client code.
Opening pos.	Funds at session start.

Parameter	Details
Position	Funds idle.
Funds, total	The total amount of money in the account.
Reserved	Funds reserved for negative VM on covered positions.
Collateral, init.	Collaterals at session start.
Pledges, total	The total amount of pledges at the current time.
Pledges, available	The amount of free pledges at the current time.
Pledges, blocked	The amount of blocked pledges at the current time.
Fee	Collected fee.
Balance	Funds transfer balance per current trading session.
Funts blocked	Blocked funts.
VM	Variating margin collected or accrued in the intermediate clearing session.
Name	Account name.

In the **Money** window, you can set filtering by account number. You can enter the account number into the field above the table manually or select it from the drop-down list. The number is case sensitive! Please note, that you should enter the whole number! The table than will display all the records belonging to the account number.

Account strings in the table are always sorted in lexicographic order, where b follows a, and 2 follows 1. You cannot sort data in the table in any other way.

The context menu contains only the standard commands, which are available for all windows, see Chapter 11.

6.1.5. Positions

The **Positions/** requests information window displays the user's current position in instruments (securities) for all available accounts. The window can be opened via the **Trading/** (**Positions/** requests) main menu item.

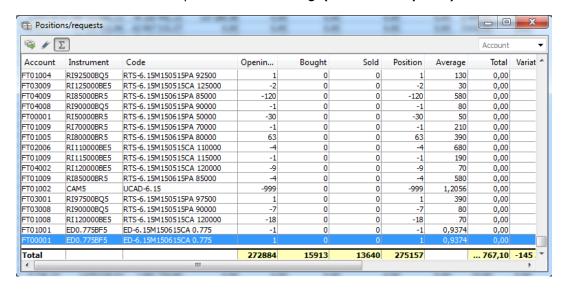


Fig. 6.8. Positions/ requests window

Tab. 6.5. Parameters in the Positions/ requests window

Parameter	Details
Floor	Floor short name.
Account	Client code.
Instrument	Instrument short code.

Parameter	Details
Code	Instrument code.
Opening pos.	Amount of positions at session start.
Bought	Amount of contracts bought in session.
Sold	Amount of contracts sold in session.
Position	Current position.
Average	Average weighted position price.
Total	Net amount of funds spent on trades (in roubles).
Var. margin	Variational margin on futures accumulated by trades according to the current quote. Variational margin to be collected from account according to the instrument price limits.
Туре	Type of instrument.
Order	Option expiration order id.
Execute	Number of positions for option expiration upon main clearing session and intraday clearing session. A negative value indicates that automatic exercise of in-the-money option contracts is disabled.
Date	Date and time of issuing option expiration order.
Int. clearing	Number of positions for option expiration upon intermediate clearing session.
VM (market)	Variational margin on futures accumulated by trades according to the current quote. Variational margin indicating the market fluctuations (without limits).
Exercising	Instrument settlement date.

You can arrange records in the table by several columns: **Account**, **Instrument**, **Code** u **Date** in both directions. To switch between directions, click the left mouse button on a column header.

Records in the **Positions/ requests** window can be sorted by the client account number, etc. For more details see section 6.1.5.3.

The position table in the window can contain the total value string. You can turn it on and off using the button Σ of the local instrument panel. Another way to do this is to use the option **Show the total value string** (context menu item **Window settings**/ section**View**). The total value string contains the following parameters:

- variation margin value (including variation margin value with no restrictions for instrument prices limits);
- number of open positions (including the ones at the session start);
- (number of contracts bought and sold);
- (net value: the total amount for all trades).

The context menu contains only the standard commands, which are available for all windows (see Chapter 11), as well as

- Add order opens the order adding form with the Instrument and Account fields filled in with values depending on the record. The Floor field is non-editable
- Exercise option command see section 7.2.1. The command is available for options only!;
- **Transfer position** transfer position from one BF position to another (within the same CF). For more information see section 6.1.5.2:
- Add filter/ Clear filter command in the Floor, Instrument columns see section 6.1.5.3;
- Only command in the Type column see section 6.1.5.3;
- Filters menu item, in the Type column header see section 6.1.5.3;

- · Remove all filters command to remove all filters;
- Copy the total value string into clipboard this menu item becomes visible only if the total value string is on. The output format is TXT.
- Export the total value string his menu item becomes visible only if the total value string is on. The output format is CSV.

There are some commands moved to the local instrument panel. See section 6.1.5.1.

6.1.5.1. Toolbar of the Positions/ requests window

Tab. 6.6. Toolbar of the Positions/ requests window

Icon	Command	Details
	Transfer position	The button allows to transfer position from one BF position to another (within the same CF). For more information see section 6.1.5.2.
*	Exercise option	Command allows to add option exercise order. This command is available only for records with options. For more information see section 7.2.1.
Σ	Show the total value string	Turns the total value string on/off in the position table.

6.1.5.2. Transfer position from one BF position to another (within the same CF).

The **Positions/** requests window allows to transfer positions from one client account to another within the same brokerage firm.

It is unable to transfer positions if:

- the donor account and recipient account belong to different BFs;
- · VAT number/ID number are different for donor account and recipient account;
- unable to transfer positions to the BF account (type XXYY000).

You can transfer positions from the Positions/ requests window: by the following methods

- by pressing the would button;
- via the **Transfer position** context menu item opened from the **Positions/** requests area. By placing the mouse cursor on the line with the donor account, the position transfer field will be filled in with this account data.

The position transfer data are added into the **Transfer position** window:

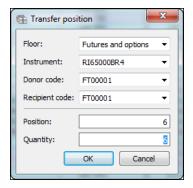


Fig. 6.9. Transfer position window

Tab. 6.7. Parameters in the Transfer position window

Parameter	Details
Floor	Trading floor short name
Instrument	Instrument short name to transfer position for.
Donor code	Donor account code.
Recipient code	Recipient account code. The recipient and donor accounts must belong to the same BF.
Position	Position amount on the donor account. This field is filled in automatically, and is not editable.
Quantity	Quantity to transfer. This value cannot exceed the one in the Position field.

All parameters are specified in accordance with the line, from which the **Transfer positions** has been opened. These data can later changed by user by selecting values in the appropriate drop-down lists in every field.

The **Position** field is non-editable. Its value is calculated in accordance with the open position on the specified donor account.

To confirm changes and send the order into the trading system, press **OK**. Press **Cancel** to cancel the position transfer order.

After pressing **OK**, you will receive the confirmation dialog: "Are you sure you want to transfer position...for instrument...from account...to account...?" Answer **Yes** to confirm, or **No** to cancel.

In case of any error with sending transfer order, you will receive a special message containing the error details. In this case, you should check the settings and retry adding the position transfer order.

6.1.5.3. Filtering in the Positions/ requests window

In the **Positions/ requests** window, you can set filtering by account number. You can enter the account number into the field above the table manually or select it from the drop-down list. The number is case sensitive! Please note, that you should enter the whole number! The table than will display all the records belonging to the account number.

In the table you can activate filtering by account number by entering it into the field in the right upper corner of the table (fig. 6.8). Please note, that search is always performed starting from the very first symbol in the account number, and the system does not recognize any other consequence of symbols. If a filter applied to the table, the table will display all records containing the specified consequence of symbols in the beginning of the account number.

The **Positions/** requests window allows you to filter data by trading floor (**Floor**), by instrument code (**Instrument**) and by instrument type (**Type**). You can specify the filtering in following ways:

- via the Add filter context menu item for the Floor, Instrument columns and via the Only 'Type' context menu item
 for the Type column. The filtering will be applied according to the parameter under cursor. Please note, that these
 menu items available in the context menu only if you open it from the Floor or Type cells. The complete list of
 parameters available for filtering can be found via the Window settings/ Filterscontext menu item;
- via the **Filters** context menu item, which should be opened from the **Type** column header; the list of available instruments will appear on the screen, where you can select one or more instruments for filtering. To select instruments in the list, check the checkbox next to instruments names;
- via the **Filters** section of the **Window settings** context menu item.

If a filter has been applied to a column (parameter) in the **Positions/ requests** window, the column header will be marked in bold.

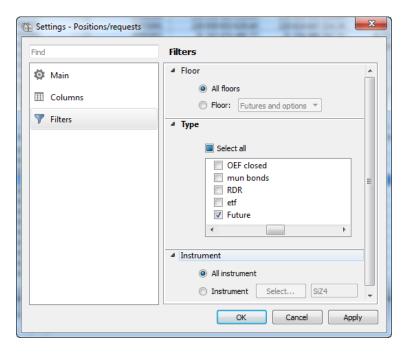


Fig. 6.10. Filtering settings in the Positions/ requests window

Filtering by floors:

- All floors allows to display accounts for all trading floors;
- Floor allows to display accounts for a particular trading board only. You can select a trading floor in the dropdown list.

You can select one or more instruments for filtering. To select instruments in the list, check the checkbox next to instruments names.

Filtering by instrument:

- All Instruments all orders for all instruments;
- Instrument all orders for the selected instrument. Instruments can be selected in the Select instrument window (see section 5.11.1), which can be opened by pressing the Select button.

To apply/remove a filter simply click left mouse button to a field. By default, all accounts for all trading boards are visible in the window.

You can deactivate filtering using one of the following methods:

- via the Clear filter context menu item, which should be opened from the Floor, Instrument columns header. If a
 filter has been applied to a column (parameter) in the Floor window, then the column header will be marked in bold;
- via selecting all parameters in the **Filters** context menu item, which should be opened from the **Type** column header;
- via the Remove all filters context menu item;
- via selecting all parameters in the Filters section of the Window settings context menu item.

6.2. Orders

This section overviews the following aspects in working with orders:

- Your orders/ requests window [???];
- Order-book window for instruments;

- · adding orders;
- · Unprocessed orders;
- · removing orders;
- · Messages window.

6.2.1. Your orders/ requests window

The **Your orders/ requests** window contains only the orders added by your brokerage firm or the OTC orders addressed to your firm.

The window can be opened by the following methods:

- · via the Tables/ Your orders/ requests menu item,
- from the instrument panel, by pressing the button.

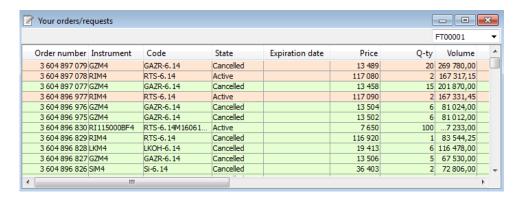


Fig. 6.11. Your orders/ requests window

Tab. 6.8. Parameters in Your orders/ requests window

Parameter	Details		
Floor	Floor short name.		
Order number	Order sequential number.		
Instrument	Instrument short code.		
Code	Instrument code.		
State	Order status (active, executed, removed).		
Expiration date	Order expiration date.		
Price	Order price.		
Q-ty	Amount in operation.		
Volume	Order price (money).		
Remains	Remaining amount in order.		
Time	Time of placing order.		
Account	Client code.		
Code of firm	Code of firm which owns the order.		
Session	Session name.		
Board	Instrument board.		
Buy/ sell	Order type.		

Parameter	Details		
Login	User login.		
External id.	External number of transaction.		
Comment	Order additional details.		
Counterparty account	Code of client who receives the order.		
Counterparty	Code of firm which receives the order.		
Rate	Order rate in percent.		
Swap price	Order rate in point.		
Price1	Opening trade price.		
Price2	Closing trade price.		
Cancel time	Order cancel time.		
Yield	Yield on futures on interest rates.		

Some different modes of loading data into the Your orders/ requests window are available:

- when the Load your orders history option is active, it allows to load all available orders (Settings/ Terminal settings/ Transport in the Streams section);
- when Load your orders history is inactive, it allows to load the Your orders/ requests window faster, as only the
 active orders will be loaded.

You can specify different modes of storing inactive orders (settled or canceled):

- do not store inactive orders mode. To activate this mode you should switch off the **Store inactive order** option (**Settings/ Terminal settings/ Database**);
- store all inactive orders mode. To activate this mode you should switch on the Store inactive order option (Settings/ Terminal settings/ Database);
- store limited number of inactive orders. To activate this mode you should switch on the Store inactive order option (Settings/ Terminal settings/ Database) together with the Amount of orders option and specify number of inactive orders to be stored.

The orders in the window can be sorted according to the time the orders have been added into the trading system. For information about the sorting settings see section 5.10.2.

The **Your orders/ requests** window provides possibility for contextual search (see section 5.10.3). The search can be activated by pressing the **Ctrl+F** key combination.

The list of orders in the **Your orders/ requests** window can be arranged by account and other parameters. For more information see section 6.2.1.1.

If the list of orders has been arranged in accordance with a parameter, the appropriate column's header will be marked in bold.

By double-clicking an order in the **Your orders/ requests** window with the left mouse button, you can do the following (depending on the order status):

- non-active order add a new order into the system using a special window. By default, the new order's parameters will be taken from the non-active one;
- · active order cancel the order.

You can also cancel an order by using the **Cancel order** context menu item or by pressing the **Delete** button on your keyboard. Before cancelling, you should place the mouse cursor over the active order you are going to cancel.

The **Your orders/** requests window allows to specify different colour schemes for the buy and sell strings (green and red, by default) via the **Window settings** context menu item of the **View** section, the **Highlight strings** command.

You can choose some other colour schemes in the **Window settings/View/ Colours settings...** context menu item (see section 11.2).

Also, the **Your orders/ requests** window allows to specify a sound scheme which plays every time a new string is added into the window. You can do this via the **Window settings** context menu item in the **Sounds** section, the **Play sound when adding a string** command. For more information see section 6.2.1.3.

6.2.1.1. Filters in the Your orders/ requests window

In the **Your orders/ requests** window, you can set filtering by account number. You can enter the account number into the field above the table manually or select it from the drop-down list. The number is case sensitive! Please note, that you should enter the whole number! The table than will display all the records belonging to the account number. Please note, that the filtering is applicable only to the records displayed in the window right now. I.e., it does not affect the filtering settings made via the **Window settings** menu item.

Filtering schemes in the Your orders/ requests window can be specified in the following ways:

- via the Add filter context menu item. Filtering will be applied according to parameter under the cursor. If a parameter
 under the cursor is not applicable for filtering, then this menu item will be absent in the context menu. The list of
 parameters applicable for filtering can be found via the Window settings/ Filters context menu item;
- via the Filters context menu item, available from the following columns' headers: Remains, Status, Buy/sell. To
 activate filtering, you should select the needed parameters in the drop-down list by checking the checkboxes next
 to each parameter name;
- via the Window settings context menu item in the Filters section.

You can apply filtering by a particular instrument in the following ways:

- via the Select instrument context menu item, which is available only from the Instrument column's header. The
 Select instrument window appears on the screen (see section 5.11.1), where you can select a needed instrument.
 After selection is done, the Your orders/ requests window will contain only the orders for the selected instrument;
- via the **Add filter** context menu item, when the context menu is opened from a cell in the **Instrument** column (the filter will be applied by the instrument code in the cell);
- via the **Window settings** context menu item of the **Filters** section.

If a filter has been applied to a column in the **Your orders/ requests** window, then the column's header will be marked in bold.

You can apply all the possible filtering options at once via the Window settings/ Filters context menu item:

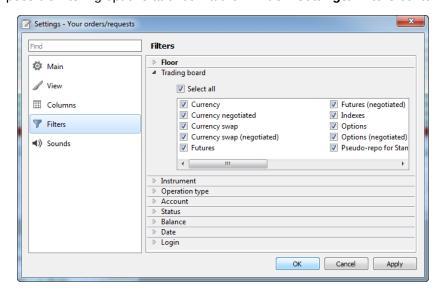


Fig. 6.12. Filtering settings in the Your orders/ requests window

Tab. 6.9. Filtering parameters in the Your orders/ requests window

Parameter	Details		
Floor	Filtering by trading floor:		
	All floors – all orders for all floors;		
	• Floor – all orders for a selected floor. The floor can be selected in a drop-down list.		
Board	Filtering by trading board. If the Select all option active, the window will contain all orders for all trading boards.		
	To select some particular trading boards, you should check the checkbox next to the board name.		
Instrument	Filtering by instrument:		
	All Instruments – all orders for all instruments;		
	 Instrument – all orders for the selected instrument. Instruments can be selected in the Select instrument window (see section 5.11.1), which can be opened by pressing the Select button. 		
Operation type	Filtering by operation type:		
	Buy – only user's buy orders are displayed;		
	Sell – only user's sell orders are displayed.		
	You can select one of the operation types or both at once.		
Account	Filtering by client's account. If the Select all is active, the window will contain all orders for all client's accounts.		
	To select some particular user's accounts, you should check the checkbox next to the user's account name.		
Status	Filtering by order status:		
	Active – only user's active orders;		
	 Removed by trading system – only orders removed by trading systems for any reason; 		
	Expired – only expired orders;		
	 Declined by counterparty – only orders declined by counterparty (negotiated orders); 		
	Success – only executed orders;		
	Waiting – only yet non-active orders;		
	Cancelled – only user cancelled orders.		
	You can select any combination of the options above.		
Balance	Filtering by order execution status:		
	Fully executed – only fully executed orders;		
	Partially executed – only part executed orders;		
	Not executed – only non-executed orders.		

Parameter	Details	
Date	Filtering by date:	
	All dates – user's orders for the current and previous active sessions;	
	Today – only orders for today's sessions;	
	Today and tomorrow – orders for today's and yesterday's sessions;	
	Between - orders for a particular period of time. You can specify period in the following ways:	
	o the From and till options are not set – all available dates;	
	o only the From option is set – the dates starting from the date specified till today;	
	 only the till option is set – the dates starting from the oldest available date till the date specified; 	
	 the both From and till options are set – all dates starting from the date specified in the From field till the one specified in the till field. 	
Login	Filtering by login:	
	All logins – all orders added by all logins;	
	Login – only the orders added by a particular login. The login can be selected in the drop-down list	

You can remove filter by the following ways:

- via the Clear filter context menu item allows to remove the filter applied by the current column parameter (the
 column header will be marked in bold). The item is available in the context menu only when the filtering has been
 applied;
- via the Filters context menu item, when the context menu is opened from the Remains, Status and Buy/sell columns. To remove a filter, you should uncheck the checkbox next to the filter name;
- via the Window settings/ Filters context menu item. To remove filter, set all parameters as visible;
- via the Remove all filters context menu item but all filters will be removed.

Please note, that if you closed the **Your orders/ requests** window and then opened again, the filter settings you had applied will be lost. To prevent it, you should save the workspace configuration before closing the window as the default configuration using the **Current window/ Save by default** main menu item..

6.2.1.2. Context menu in the Your orders/ requests window

The standard context menu items are described in Chapter 11. Below you will find description of the particular **Your orders/ requests** window context menu items. There are:

- Add order opens the standard form for adding orders into the trading system;
- Cancel order allows to cancel the active order under the cursor. For orders in a non-active status or orders for past sessions of this menu item missing;
- Open Order-book opens the Order-book window for the current instrument;
- Open chart creates a graphical chart for the current instrument in the Tech. analysis window;
- Add volatility curve adds the volatility curve chart into a separate window (see section 7.3). This menu item is available only for options;

- Information opens the Information window for the selected instrument;
- Add filter enables filtering according to the parameter where cursor was placed. The parameter name is available in a menu item. Please note, that the menu item is displayed only when the filtering option is available for the parameter selected. The list of the parameters can be found via the **Window settings/ Filters** context menu item; also, there you can specify the filtering parameters (see section 6.2.1.1);
- Only 'parameter name' the menu item, available from the Remains, Status and Buy/sell column cells. Allows to add a filter according to the parameter name under the cursor (the parameter name is displayed in the context menu);
- **Show all** removes all filters. Please note, that this menu item is available only in the context menu opened from the column header applicable for multi-filtering option (when more than one filter parameters can be applied);
- Select instrument opens the Select instrument window. After selecting an instrument, the filtering will be enabled according to the selected one instead of any other instrument selected before, if it was. This menu item is available only in context menu opened from the Instrument column;
- Clear filter allows to remove the filter applied by the current column parameter (the column header will be marked in bold). The menu item is available in the context menu only when the filtering has been applied;
- Remove all filters removes all filters by all parameters. The menu item is available in the context menu only when the filtering has been applied;
- Filters the menu item, available from the Remains, Status and Buy/sell column cells. In the drop-down list you should select the filtering parameters by checking the checkbox next to each parameter name. Please note, that via this menu item, you can add or remove only a single parameter at once. For more options please use the Window settings/ Filters context menu item see section 6.2.1.1.

6.2.1.3. Sound settings on adding a new string in the table

The **Your orders/ requests** and **Your trades/ requests** windows allow to specify a warning sound signal on adding new strings. This can be done via the **Window settings** context menu item in the **Sounds** section.



Fig. 6.13. Sound settings on adding a new string in the table

When the **Play sound when adding a string** option is set, then a sound will play every time a new string is being added into the **Your orders/ requests** (or **Your trades/ requests**) table.

The sound pattern can be selected in the **Sound** field from a drop-down list (with a preview option available for every sound pattern: to preview a sound, press the appropriate button next to the **Sound** field).

Please note, that the sound warning will be enabled only for the current window, and according to the current filter settings. I. e., if a newly added string does not contain an instrument within the filter range, no sound warning will play. By default, the sound warning is off, so you will have to enable it for every newly opened window.

6.2.2. Order-book

The order queue for a particular instrument can be viewed in the **Order-book** window. You can open it in the following ways:

• via the Tables/ Order-book for instrument main menu item. You can select an instrument in the following ways:

from the favorite instruments list:

from the **Favorite instruments** window (see section 5.11.2);

from the **Select instrument** window (see section 5.11.1);

- by pressing an appropriate instrument button in the instrument panel;
- from the **Financial instruments, Options board, Your trades/ requests** and **All trades/ requests** windows by double-clicking the instrument name in a string;
- via the Open Order-book context menu item;
- from the Your orders/ requests functional window via the Open Order-book context menu item.

Order-book window can be opened only for anonymous instruments. For instruments traded in the negotiated mode, the window does not open.

The Order-book window contains the current session orders only.

There can be more than one **Order-book** windows open for the same instrument at once.

Every Order-book window can be renamed using the **Window settings** context menu item of the **Main** section; to change the window name, enter its new name into the **Name** field. If you rename a window, and then select another instrument, then the window name will change again according to the new instrument name. If a desktop configuration contains a window for an instrument which is not traded in the current session, this window will be blank.

There are three view modes for the Order-book window:

- standard see section 6.2.2.2;
- narrow see section 6.2.2.3;
- wide see section 6.2.2.4.

You can select a display mode via the **Window settings** context menu item in the **View** section – see section 6.2.2.1.

Both the standard and the narrow modes have their own special submodes:

- Rarefied all possible price values are displayed according to the specified price step see section 6.2.2.5;
- Save centre the best buy and sell prices are docked to the table centre see section 6.2.2.6.

If none of the submodes has been selected, then the best buy and sell prices may move against the table centre and hide beyond the window borders; in this case, use the vertical scroll-bar to scroll table up and down.

The Shift+R key combination allows to dock the Order-book centre in case you haven't done it yet.

The buy and sell prices strings can be highlighted in different colours (green and red, by default). You can specify a colour scheme via the **Window settings** context menu item in the **View** section by pressing the **Colour settings** button.

If a price meets an order, then the price value will be marked in bold (the **Price** column).

The Order-book window appearance can be specified via the Window settings context menu item - see Chapter 11.

By double-clicking an order with the left mouse button, the order adding window will open (if the one-click trading mode is off). By default, the form contains parameters of the selected order; you can manually edit the order parameters before adding it into the trading system.

For your convenience, in the Order-book window you can highlight a range of orders according to their prices or volumes - see section 6.2.2.7.

For every **Order-book** window, there is the **one-click trading** mode is available (see section 6.2.2.9 µ section 6.2.2.10). Using this mode, you can add orders into the trading system in a very fast way, without using the instrument panel and menus.

If a one-click trading account has been specified, the Order-book window will display only the orders added from this account.

The client account code number is displayed between the order-book table and the window header. You can select client account codes from the drop-down list without entering the windows settings section.

The July button left of the client account code field is used to quickly hide/display the orders panel (see section 6.2.2.11).

6.2.2.1. Setting the Order-book window appearance

You can specify the Order-book window appearance via the Window settings / View context menu item:

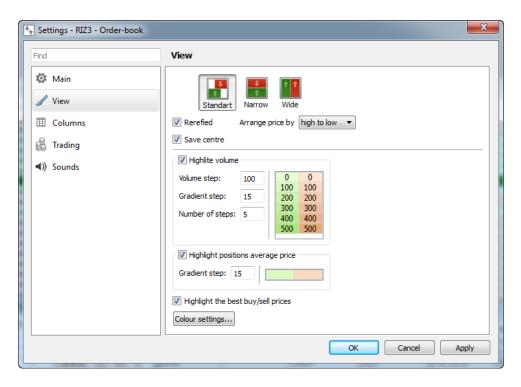


Fig. 6.14. Setting the Order-book window appearance

There are three view modes for the Order-book window:

- standard see section 6.2.2.2;
- narrow see section 6.2.2.3;
- wide see section 6.2.2.4.

To select a view mode, place the mouse cursor over it and press the left mouse button. To confirm the selection, press **Apply** or **OK**.

Both the standard and the narrow modes have their own special submodes:

- Rarefied see section 6.2.2.5;
- Save center see section 6.2.2.6;
- Arrange price by descending or by ascending.

The **Highlight volume** option allows to highlight a range of orders according to their volumes - see section 6.2.2.7.

The Highlight the best buy/sell prices option allows to highlight the cell containing the best buy and sell price values.

The **Highlight positions average price** option allows to highlight the cells containing the average price values for the current instrument. The option is available in the **Rarefied** mode only. The position price is always rounded up to the worst value for trader, i. e. if the current user's price is positive, than the price will be rounded up upwards, and if the current user's price is negative, than the price will be rounded up downwards. The highlight colour depends only on the value sign (green if positive, red if negative). The **Gradient step** option allows to adjust intensity of highlighting (the higher the gradient value is, the deeper the highlight colour will be).

The **Colour settings** button allows to open the **Colours** window which is used for specifying the general settings for the adding orders window - for more details seesection 10.4.

6.2.2.2. Standard mode

The standard window configuration can be recognized with the way of displaying orders: the buy and sell orders are divided into two queues. The orders in the window can be adjusted by price, either in the descending or in the ascending way. To adjust orders by price, click the left mouse button on the column's header - see section 5.10.2) or use the **Window settings/ View/ Arrange price by** context menu item.

The best prices are always displayed in the center of the Order-book window, regardless of sorting order.

There are two view modes are available for the **Standard** configuration: the rarefied (see section 6.2.2.5) or the one with fixed centre (see section 6.2.2.6).

The buy and sell order queues in the window are shifted against each other.



Fig. 6.15. Order-book window. Standard mode

Tab. 6.10. Parameters in the Order-book window - Standard mode

Parameter	Details	
Buy:yours	Buy: Instruments quantity in your order at the current price.	
Buy: summary	Buy: Accumulated sell order.	
Buy: q-ty	Buy: Total number of lots in orders at the given price.	
Price	Price for instrument unit. The strings containing your orders are highlighted in bold.	
Sell: q-ty	Sell: Total number of lots in orders at the given price.	
Sell: summary Sell: Accumulated sell order.		

Parameter	Details	
Sell:yours	Sell: Instruments quantity in your order at the current price.	
Yield	Yield on futures on interest rates.	

6.2.2.3. Narrow mode

In the **Narrow** mode, the buy and sell order queues are visually separated from each other, having different background colours. The orders are not shifted against each other.

The orders in the window can be adjusted by price, either in the descending or in the ascending way. To adjust orders by price, click the left mouse button on the column's header - see section 5.10.2) or use the **Window settings/ View/ Arrange price by** context menu item.

The best prices are always displayed in the center of the Order-book window, regardless of sorting order.

There are two view modes are available for the **Narrow** configuration: the rarefied (see section 6.2.2.5) or the one with fixed centre (see section 6.2.2.6)..

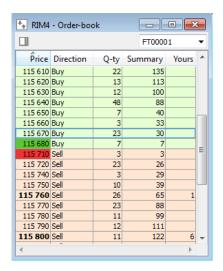


Fig. 6.16. The Order-book window. Narrow mode

Tab. 6.11. Parameters in the Order-book window – narrow mode

Parameter	neter Details		
Price	Price for instrument unit. The strings containing your orders are highlighted in bold.		
Yield	Yield on futures on interest rates.		
Direction	Direction of orders at this price level.		
Q-ty	Total number of lots in orders at the given price.		
Summary	Accumulated sell/buy orders quantity. Accumulated number sell/buy orders up to this price level, starting from the best price and according to the orders within the current price range. The value presents the whole market volume.		
Yours	Instruments quantity in your order at the current price.		

6.2.2.4. Wide mode

In the **Wide** mode, the first string in the Order-book window contains the best buy and sell prices, the second one contains a bit worse values, and so on. There is no other options for to arrange orders.

The Rarefied and the 'fix-center' modes are not available in the Wide mode..

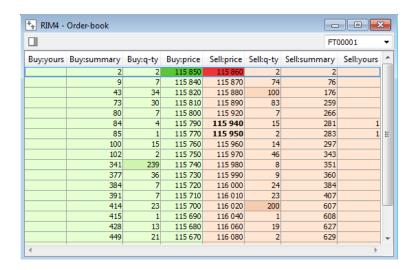


Fig. 6.17. Order-book window. Wide mode

Tab. 6.12. Parameters in the Order-book window - wide mode

Parameter	Details		
Buy: yours	Buy: Instruments quantity in your order at the current price.		
Buy: summary	Accumulated buy orders quantity.		
	Accumulated number buy orders up to this price level, starting from the best price and according to the orders within the current price range. The value presents the whole market volume.		
Buy: q-ty	Buy: Total number of lots in orders at the given price.		
Buy: yield	Yield on futures on interest rates.		
Buy:price	Buy: Price level (rate for repo, swap price for multi-leg instruments). The levels at which there are your orders are allocated in bold.		
Sell:price	Sell: Price level (rate for repo, swap price for multi-leg instruments).		
	The levels at which there are your orders are allocated in bold.		
Sell: yield	Yield on futures on interest rates.		
Sell: q-ty	Sell: Total number of lots in orders at the given price.		
Sell: summary	Accumulated sell orders quantity.		
	Accumulated number sell orders up to this price level, starting from the best price and according to the orders within the current price range. The value presents the whole market volume.		
Sell: yours	Sell: Instruments quantity in your order at the current price.		

6.2.2.5. Rarefied mode

The **Rarefied** view mode is available for the **Standard** and **Narrow** Order-book modes, where all possible price values are displayed, according to the minimal price step for this instrument. This view mode may be convenient when you need string fixed in the Order-book window, with each string presenting a particular price.



Fig. 6.18. Order-book window. Rarefied mode

6.2.2.6. Order-book window with fixed centre

For the Order-book window, you can fix its centre (the boundary between the buy and sell orders strings). To do this, use the **Save center** option in the **Window settings**/ **View** context menu (fig. 6.14).

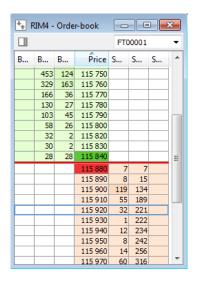


Fig. 6.19. Order-book window. Standard mode with fixed center



Fig. 6.20. Order-book window. Narrow rarefied mode with fixed center

When the **Save centre** option is on, the best buy and sell prices strings are docked to the Order-book window centre. The centre position can be initially selected by using the vertical scroll-bar; after that, the window centre will be fixed against the top and bottom lines of the window and will not move away as soon as a new order will be added into the Order-book.

In the **Rarefied** mode, the Order-book window centre is indicated with two thin red lines, with the best buy price string over the top line and with the best sell price string below the bottom line. There may be some prices in between as well, not covered with any order. In this view mode, the window center can move up and down.

You can enable the Save center option also by pressing the **Shift+R** key combination.

6.2.2.7. Highlight volume

You can highlight a particular order volume by using the **Highlight volume** option in the **Window settings/ View** context menu.

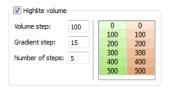


Fig. 6.21. Order volume highlight settings

The following parameters should be specified:

- **Volume step** the lowest level of volume and volume step (in lots); every next volume level is one step greater than the previous. Each next volume level will be highlighted. For example, volume stem is set to 100, then the levels of 100, 200, 300, etc. lots will be highlighted;
- Gradient step value of highlight intensity. The greater volume of lots is, the more intensive it will be highlighted;
- **Number of steps** number of volume levels to be highlighted. For example, if you have selected 3 steps, then only 3 levels with the previously selected volume step will be highlighted: 100, 200 and 300; if the number of steps is 5, then 100, 200, 300, 400 and 500. All volume levels greater than the maximum one will be highlighted with the maximum intensity.

The window right from the option settings group allows to preview the Order-book window before applying the settings - see fig. 6.21.

6.2.2.8. Sorting strings in the Order-book window

When the Order-book window is set in the **Standard** or in the **Narrow** view mode, you can adjust strings by price in the low to high or high to low order – see section 5.10.2. To switch between sorter orders, click the column header with the left mouse button.

Also, you can specify the sorting settings via the **Window settings/ View** context menu, by activating the **Arrange price by** option. You can change the sorting order by clicking the **Price** column header in the Order-book window.

In the Wide view mode, sorting can be done in the following ways

- strings in the columns for buy operations are sorted in one order;
- strings in the columns for sell operations are sorted in the opposite order.

Therefore, when the Order-book window is in the **Wide** view mode, the first (upper) string contains the best buy and sell prices values, then comes the second level of buy and sell prices and so on.

No other sorting order is available for the **Wide** view mode.

6.2.2.9. One-click trading setting

For your convenience, and for speeding up the process of adding orders into the trading system, there is a special **One-click trading** option available. This option can be set via the **Window settings/ Trading** context menu item.

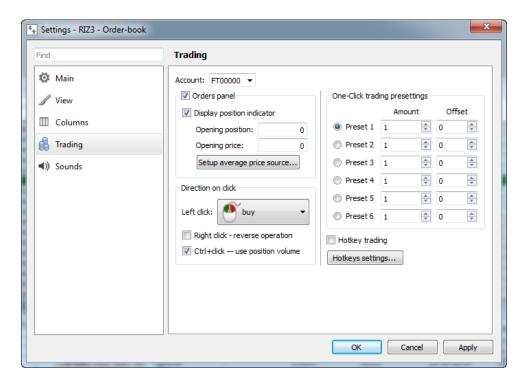


Fig. 6.22. One-click trading setting

The **One-click trading** option is specified separately for each instrument. Along with this faster way of adding order, you can continue to add order in the standard way – see section 6.2.3.

To activate the **One-click trading** option, you should select a way of adding orders into the trading system; in the **Direction on click** section, you should select the mouse button (left or right) and the Order-book window area to click to (for possible user scenarios see tab. 6.13.). Please note, that depending on the Order-book window view mode (**Standard**, **Narrow** and **Wide**), some **One-click trading** parameters may not be available for setting. The unavailable parameters in the **Left click** drop-down list (fig. 6.22) will be inactive.

The **Right click** – **reverse operation** option allows to assign the one-click trading function to the right mouse button for the Order-book window area opposite to the area selected for the left mouse button one-click operation; with the order direction also opposite to that assigned to the left mouse button.

After an operation has been assigned to the right mouse button, you will be able to open the context menu by clicking a column header in the Order-book window with the right mouse button.

The **Ctrl+click** – **use position volume** option allows to automatically set the instrument volume in order equal to that in position by holding the **Ctrl** key pressed and clicking an order in the Order-book window with the left mouse button. If the option is not enabled, then the instrument volume in order will be set equal to that specified in the One-click trading preferences settings.

Using the One-click trading mode, you should specify the account code to add orders from (the **Account** field). Please note, that the One-click trading can be performed only if the 7-digit client account code has been specified! If no client account code has been specified, the order will not be added.

Tab. 6.13. Setting the One-click trading options

Parameter	Details		
Direction on click			
none	The One-click trading mode is disabled.		
b uy	The One-click trading mode is enabled; the left mouse button is set for adding the buy orders according to the price in the string we are clicking.		
	If the Right click – reverse operation option is enabled, the right mouse button will be set for adding the sell orders.		
es sell	The One-click trading mode is enabled; the left mouse button is set for adding the sell orders according to the price in the string we are clicking.		
	If the Right click – reverse operation option is enabled, the right mouse button will be set for adding the buy orders.		
as in cell	The icon indicates that the One-click trading mode is enabled. The buy order will be added into the system by clicking the left mouse button onto the buy order area (green by default), and the sell order will be added upon clicking the left mouse button onto the sell order area (red by default). By clicking the left mouse button onto the blanc areas, the adding order direction (buy or sell) will depend on the one under the mouse cursor.		
	If the Right click – reverse operation option is enabled, clicking the appropriate areas with the right mouse button will cause adding of the opposite orders.		
by string	The icon indicates that the One-click trading mode is enabled. The icon indicates that the One-click trading mode is enabled. The buy order will be added into the system by clicking the left mouse button onto the buy order area (green by default) along with the non-coloured area at the right, and the sell order will be added upon clicking the left mouse button onto the sell order area (red by default) along with the non-coloured area at the left.		
	This option cannot be enabled for the Wide view mode. In the Rarefied mode, you will not be able to add an orders by clicking the area between the best buy and best sell prices (spread).		
	If the Right click – reverse operation option is enabled, clicking the appropriate areas with the right mouse button will cause adding of the opposite orders.		
by column	The icon indicates that the One-click trading mode is enabled. The buy order will be added into the system by clicking the left mouse button onto the buy order area (the whole column, green by default) along with the non-coloured area above or below, and the sell order will be added upon clicking the left mouse button onto the sell order area (the whole column, red by default) along with the non-coloured area above or below.		

Parameter	Details		
	In the Standard view mode, you will not be able to add orders by clicking a cell in the Price column.		
	This mode is very convenient for trading in the Wide view mode. Please note, that it cannot be enabled in the Narrow view mode.		
	If the Right click – reverse operation option is enabled, clicking the appropriate areas with the right mouse button will cause adding of the opposite orders.		
from table	The icon indicates that the One-click trading mode is enabled. The buy order will be added into the system by clicking the left mouse button onto the buy order area (the whole column, green by default) along with the non-coloured area above or below, and the sell order will be added upon clicking the left mouse button onto the sell order area (the whole column, red by default) along with the non-coloured area above or below.		
	Contrary to the previous mode, this mode allows to add orders by clicking the Price column cells (the order direction will coincide that of the one in the cell).		
	If the Right click – reverse operation option is enabled, clicking the appropriate areas with the right mouse button will cause adding of the opposite orders.		
	One-click trading presettings		
Amount	The minimum lot volume to add by the left mouse click.		
Offset	The value, the newly added order will differ against the existing order in the Order-book window (in price points). The new offset value is always 'better' than the previous one. If the Offset value is '0', then the newly added order will be equal to the existed one.		

In the **One-click trading presettings** area, you can specify up to six preset combinations for the **One-click trading** mode.

You can switch between preset combination by selecting the one you need in the **One-click trading presettings** area, or by using key combinations. To specify key combination, use the **Settings/ Terminal settings** main menu item in the **Keyboard** section- see section 10.7. The list of possible key combinations can be found in tab. 6.14.

You can work in the One-click trading mode also by using key combinations - see section 6.2.2.10.

6.2.2.10. One-click trading, key combinations settings

To enable the **One-click trading** with hotkeys, you should enable the **Hotkey trading** option of the **Trading** section in **Window settings** - see fig. 6.22.

There are the hotkeys specified by default, but you can select your own hotkeys if needed. You can do it in the following ways:

- by pressing the Hotkey settings button (seefig. 6.22 the Window settingscontext menu item/ the Tradingsection);
- via the Settings/ Terminal settings main menu item of the Keyboard section see section 10.7.

For the **One-click trading** mode, you can specify hotkeys not only for adding orders, but also for removing them from the trading, as well as for switching between One-click trading preset combinations.

The One-click trading mode preset combinations (number of lots in order and price offset) can be specified via the **Window settings** context menu item of the **Trading** section - see section 6.2.2.9. Please note, that the preset combinations are not used for all **One-click trading** mode operations; some of them demand some other scenarios. The complete list of trading operations which can be performed by using hotkeys can be found in tab. 6.14. The table describes the order parameters values obtained from the preset combination.

Using the One-click trading mode with hotkeys, you should specify the account code to add orders from (the **Account** field). If no account code has been specified, the orders will not be added.

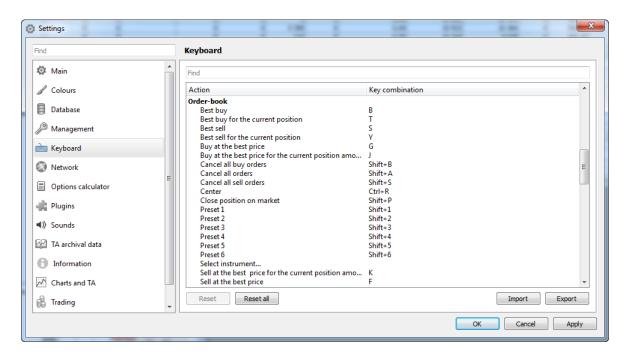


Fig. 6.23. Setting hotkeys for One-click trading mode

Tab. 6.14. List of hotkeys for the One-click trading mode

Command	Hot keys	Details
Close position on market	Shift+P	If you currently have a position for an instrument, the sell order will be added with the maximum instrument amount available on user's account. The order price is equal to that of the best buy order.
		If you currently have a position for an instrument, the buy order will be added with the maximum instrument amount available on user's account. The order price is equal to that of the best sell order.
		Please note, that preset combinations are not available for this operation.
Buy at the best price	G	Adds a buy order at the best sell price, with the instrument volume specified in the active preset combination.
		Please note, that only the Amount parameter of the selected preset combination will be used!
Buy at the best price for the cur- rent position amount	J	Adds a buy order at the best sell price, with the instrument volume specified in the active preset combination.
		Please note, that only the Amount parameter of the selected preset combination will be used!
Best buy	В	Adds a buy order at the best buy price, according to the price offset value specified in the active preset combination.

Command	Hot keys	Details
		Please note, that the both Amount and Off-set parameters of the selected preset combination will be used!
Best buy for the current position	Т	Adds a buy order at the best buy price, with the price offset value specified in the active preset combination, for the whole instrument volume available on the account.
		Please note, that only the Offset parameter of the selected preset combination will be used!
Best sell	S	Adds a sell order at the best sell price, according to the price offset value specified in the active preset combination.
		Please note, that the both Amount and Off-set parameters of the selected preset combination will be used!
Best sell for the current position	Y	Adds a sell order at the best sell price, with the price offset value specified in the active preset combination, for the whole instrument volume available on the account.
		Please note, that only the Offset parameter of the selected preset combination will be used!
Preset 1	Shift+1	Enables the preset combination #1 from the presets list.
Preset 2	Shift+2	Enables the preset combination #2 from the presets list.
Preset 3	Shift+3	Enables the preset combination #3 from the presets list.
Preset 4	Shift+4	Enables the preset combination #4 from the presets list.
Preset 5	Shift+5	Enables the preset combination #5 from the presets list.
Preset 6	Shift+6	Enables the preset combination #6 from the presets list.
Sell at the best price	F	Adds a sell order at the best buy price, with the instrument volume specified in the active preset combination.
		Please note, that only the Amount parameter of the selected preset combination will be used!
Sell at the best price for the current position amount	K	Adds a sell order at the best buy price, with the instrument volume specified in the active preset combination.
		Please note, that only the Amount parameter of the selected preset combination will be used!

Command	Hot keys	Details
Cancel all orders	Shift+A	Cancel all user's active orders. For more information about order cancellation (considering user's status and account code) see section 6.2.6.
Cancel all buy orders	Shift+B	Cancel all user's active buy orders. For more information about order cancellation (considering user's status and account code) see section 6.2.6.
Cancel all sell orders	Shift+S	Cancel all user's active sell orders. For more information about order cancellation (considering user's status and account code) see section 6.2.6.

You can specify up to six preset combinations for the **One-click trading** mode in the **One-click trading presettings** section (see fig. 6.22). To elect a preset combination, click the button next to the preset combination name.

You can select a preset combination either from the **One-click trading presettings** section, or by using hotkeys. To specify hotkeys combination, use the **Settings/ Terminal settings** main menu item, the **Keyboard** section - see section 10.7. The complete list of possible hotkeys combinations can be found in tab. 6.14.

6.2.2.11. Orders panel

In the Order-book window, you can set up a special panel to view your active orders for the current instrument.

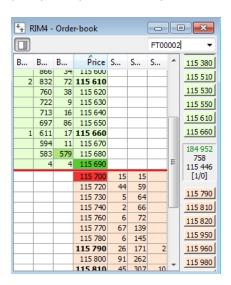


Fig. 6.24. Orders panel

The I button on the local instrument panel of the Order-book window allows to hide/show the Order-book panel.

The settings can be made via the **Window settings/ Trading** context menu item, the **Orders panel** option - see fig. 6.22. In the image below, you will see the orders panel settings section of the **Trading** window fig. 6.25:



Fig. 6.25. Orders panel settings

The Orders panel is situated in the right side of the screen; it displays the user's active orders, where buy orders are highlighted in green and sell orders are highlighted in red. The orders are grouped by price, i. e., if there were several orders added with the same price, they all will be placed in the same record. Every record in the Orders panel contains the order price value.

Please note, that the Orders panel should be set separately for each instrument.

In the Wide view mode, the Orders panel consists of two columns, where orders are sorted from up to down (the best price is in the upper string).

If you represent a brokerage firm and, due to this, have have several accounts, your orders in the **Order panel** can be sorted by particular account. To do this, use the **Account** field in the **Window settings/ Trading** context menu - see fig. 6.25. After an account has been selected, the Orders panel will contain only the orders added from that account. To display all orders from all accounts, you should clear the **Account** field. This option allows to open more than one Order-book windows for the same instrument at once, but with orders added from different client accounts.

When the **Orders panel** is active, you can activate the position indicator via the **Display position indicator** option - see section 6.2.2.11.1.

The **Order** panel is also allows to remove orders from trading by the following methods:

- by clicking the left mouse button on a string in the Order panel. All orders with the selected price will be removed;
- via the Cancel orders context menu item, opened from any part of the window. This option allows to select orders for removing:
 - Cancel all orders Shift+A removes all user's orders for the selected instrument;
 - o Cancel all buy orders Shift+B removes all user's buy orders for the selected instrument;
 - o Cancel all sell orders Shift+S removes all user's sell orders for the selected instrument;

6.2.2.11.1. Position indicator

In the Order-book window, in the **Order** panel, you can enable the position indicator via the **Window settings/ Trading** context menu item with the **Display position indicator** option. Please note, that the position indicator option is available only after specifying a user's account in the **Account** field (see fig. 6.25). The position indicator will be displayed in the centre of the **Order** panel:



Fig. 6.26. Position indicator

The position indicator displays the following information:

- unrealized gain or loss the gain/loss you will obtain after closing the current position for instrument (including the opening position) for the current market position. A positive value indicates gain, while a negative one indicates loss. The value units are equal to that in the Order-book window (for example, points). The loss value is highlighted in red;
- the current position for the account (including the opening position);
- position average price;
- amount of instrument in order (for the **One-click trading** mode) the value before slash. The value is obtained from the the active preset combination (section 6.2.2.9). The default value is '1';
- price offset for the **One-click trading** mode the value after slash. The value is omitted from the the active preset combination (section 6.2.2.9). The default value is '0';

If you have selected a BF or CF account code, then the position indicator values for the whole BF or CF will be displayed. If you have not selected any account code, then the position indicator will not be displayed at all, even when installed option **Display position indicator**.

There are some additional parameters for the position indicator to set:

- opening position see section 6.2.2.11.2;
- opening price see section 6.2.2.11.3.

6.2.2.11.2. Setting the opening position

For the Order-book window, you can specify the opening position via the **Window settings/ Trading** context menu item, the **Opening position** field (see fig. 6.25). The default opening position value is '0'.

The opening position means the frozen amount of instrument, which is not included into the current position and, therefore, cannot be used. The opening position is not included into the unrealized gains or losses value.

For example, if there is a volume of 100 units of instrument on the account, with the opening position set to '20', then the current position volume will be '80'.

For using the opening position option, you should specify an account code first. If you have specified a CF or BF account code, then the opening position settings will be applied to every CF or BF account.

6.2.2.11.3. Setting the opening price

For the Order-book window, you can specify the average opening price for accumulated positions via the **Window settings/ Trading** context menu item, the **Opening price** field (see fig. 6.25).

To enable the option, you should press the **Average price source** button. For more information see section 10.15.

If either **Import from 'Positions' table** or **Equal to the previous session settlement price** option is enabled in the global settings section (section 10.15), then the value set in the **Opening price** field will be ignored; the position indicator value will be obtained from the **Positions/ requests** table or set equal to the settlement price of the previous trading session.

In order to use the value specified in the **Opening price** field, the **Set manually in the 'Order-book' window** option should be enabled in the global settings section.

6.2.2.12. Setting sound notification

In the **Order-book** window, you can specify a sound warning at adding new order and matching trade for the instrument from the Order-book window.

To do this, use the **Window settings** context menu item of the **Sounds** section.

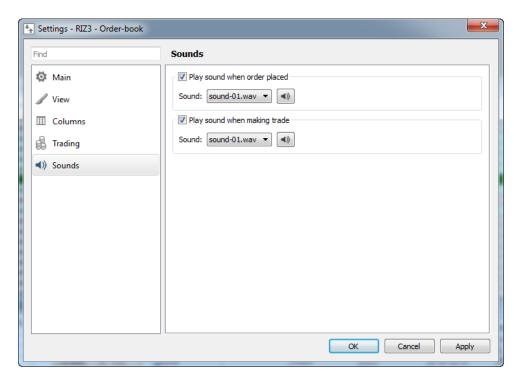


Fig. 6.27. Setting a sound warning at adding orders and matching trades

If the **Play sound when order placed** option is enabled, then every time a new order is added into the system, a selected sound will play. The option remains enabled, until you close the Order-book window.

If the **Play sound when matching trade** is enabled, every time a new trade is matched, a selected sound will play.

You can select a sound signal from the **Sound** field among the ones in the drop-down list. Every signal can be previewed; to preview a sound signal, select it in the drop-down list of the **Sound** field and press the appropriate button right to the **Sound** drop-down list.

By default, the sound warning option is disabled; therefore, you should set it separately for each opened window.

6.2.2.13. Context menu in the Order-book window

For information about the standard commands of the context menu - see Chapter 11. Below are the special **Order-book** window commands:

- Add order by price opens the order adding window (see section 6.2.3.1). The price value in the appropriate field is obtained from the one under the mouse cursor;
- Open chart creates a graphical chart in the new Tech. analysis window;
- Information opens the Information window for the current instrument;
- Change instrument(s) allows to select a new instrument in the Order-book window. The Select instrument window appears on the screen (see section 5.11.1), where you should select the instrument you need and press OK;
- Center returns the Order-book geometrical center in the center of the Order-book window;
- Cancel orders allows to remove more than one order at once:
 - o Cancel all orders removes all your orders for the current instrument;
 - o Cancel all buy orders removes all your buy orders for the current instrument;
 - o Cancel all sell orders removes all your sell orders for the current instrument.

The order cancellation result strictly depends on the user status (client, CF, BF), for more information see section 6.2.6.

6.2.3. Adding orders into the trading system

You can add order into the trading system by one of the following ways:

- via the **Trading/ Add order** main menu item, by filling the appropriate fields in the adding order window see section 6.2.3.1;
- from the **Order-book** window, via the **Add order at price** context menu. The order adding field window will appear on the screen (see section 6.2.3.1), with some fields filled in with parameters of the order under the cursor;
- from the **Financial instruments** window, via the **Add order at** context menu item the instrument code is equal to that of the order under the cursor. The order adding window will appear on the screen (see section 6.2.3.1), with the following fields filled in: **Floor**, **Board** and **Instrument**. The **Account**, **Price** and **Quantity** fields are empty, and should be filled in by you;
- from the Your orders/ requests window, via the Add order context menu item the standard order adding window
 will appear on the screen (see section 6.2.3.1), with the fields filed in with parameters of the order under the mouse
 cursor;
- by double-clicking a string in the Your orders/ requests or Order-book windows;
- by clicking an order in the **Order-book** window either with the left or right mouse button, if the **One-click trading** mode has been enabled for the instrument (see section 6.2.2.9);
- by pressing a key combination the complete list of the available key combinations can be found in the Settings/ Terminal settings menu item, in the Keyboard section - see section 6.2.2.10;
- via the Repeat order context menu item of the side panel, in the Unprocessed orders section. The standard order
 adding window will appear on the screen, with the fields filled in with parameters of the selected order. You can
 either edit the parameters before adding the order or left them unchanged;
- via the Add order context menu item of the side panel, from the Favorite instruments section;
- · via the Add order context menu item of the Options board window;
- via the Trading/ Postponed orders main menu item, where you can add a batch of orders see. section 6.2.4.

6.2.3.1. Adding order window

The standard adding order window can be opened via the **Trading/ Add order** main menu item or via the **Add order** context menu item, opened from the following windows:

- · Financial instruments;
- · Order-book;
- Your orders/ requests;
- · Options board.

When you open the order adding window from the main menu, its fields will be empty. Please note, that after you filled in the **Board** field, some extra fields will appear in the window according to the trading board selected.

When you open the order adding window from the context menu, its fields will be filled in with parameters of the order under the mouse cursor. Before adding the order into the trading system, you can either edit the parameters in the fields or remain them unchanged.

Below you can see the order adding window:

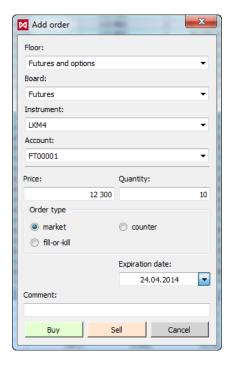


Fig. 6.28. Adding order. Order adding mode

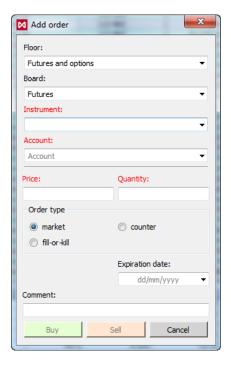


Fig. 6.29. Adding order. Editing mode

The buy and sell orders are added from the same window buy using either Buy or Sell button.

Press Cancel to close the window without adding order.

When the order adding window opens, all its fields are blank, and the field names remain red until you fill it in properly (after that, all field names colour changes to black). Until you fill in all the necessary fields, the **Buy** and **Sell** buttons will be unavailable.

When filling in the window fields, a context help lines appear, containing the most suitable values for this field. To use a proper variant, press it with the left mouse button.

Tab. 6.15. Parameters in the Add order window

Parameter	Details
Floor	Floor short name. You can select a proper value from the drop-down list or enter manually using keyboard.
Board	Instrument board. You can select a proper value from the drop-down list or enter manually using keyboard. The drop-down list contains only the boards for the selected floor.
	The field combination strictly depends on the selected board, i. e. there may some additional fields appear after selecting a particular board.
Instrument	Instrument short code. You can select a proper value from the drop-down list or enter manually using keyboard. The drop-down list contains only the instruments for the selected board. If no board has been specified, the list will be empty.
	If you are adding an anonymous or negotiated order, the drop-down list will then contain only the instruments with the anonymous or negotiated trade flags.
Account	Client account code. Can be selected from the drop-down list.
Price	Instrument unit price. The price value will be automatically divided into three-digit groups.
	For the order for option, the contract premium value must be entered in this field instead of instrument unit price.
Quantity	Number of the instrument in the order.
	Quantity of instruments should be a multiple of the minimum lot of the instrument.
Order type	Order type:
	• market – adds the standard order;
	• counter – before adding the order, the system checks if there is a counter order already in the trading system. If yes, the order will be added into the system and matches immediately. If no, the order will not be added. Unlike the quoted order which remains in the system after being partly matched, the rest of the counter order will be removed;
	• fill-or-kill – order must be executed immediately and completely or not at all.
Yield	Yield on futures on interest rates.
	This field becomes available only for certain instruments (for example, MOEXREPO).
	The Price field value will be recalculated in accordance with the value of the Yield field, and vice versa.
Expiration date	Order expiration date (dd/mm/yyyy). The available data range: no later than today, not earlier than 1 year after the current date.
	If this field is not filled, the adding order will be standard (day order).
	If you entered an expiration date, the order will be automatically relisted for a new trading session with a new number and new expiration time (multi-day order). Orders with expired dates will be automatically removed at the end of the evening session. The date can be set via the calendar in the right side of the field.
	When orders are being relisted, the system automatically verifies the amount of instrument, client details and funds to meet the order requirements.
Comment	Order additional details.

Parameter	Details	
	This field is used for adding a brief (up to 20 symbols) comments with some additional information regarding the order. The comment will be added into the system along with the order and then transferred into the trade after successful matching.	
	Buttons	
Buy	Adds the buy order.	
Sell	Adds the sell order.	
Cancel	Closes the order adding window without adding any order into the system.	

After pressing the **Buy** or **Sell** button, a confirmation message "Are you sure you want to place order for buying with price...of ...contracts from account...?" appears on the screen. Press **Yes** to add the order into the trading systems, or no **No** to cancel – the order adding window then remains open.

You can check the **Do not show next time** checkbox to disable the confirmation message.

You can specify the order adding confirmation message settings via the **Order adding confirmation** option in the **Settings/ Terminal settings** window, the **Main** section, **Confirmations** tab.

If your order has been rejected by the trading system, you will receive a error message, and your order will be removed into the **Unprocessed orders** section of the side panel. The **Messages** window contains all messages sent by the trading system in reply to adding orders.

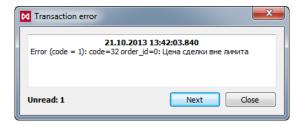


Fig. 6.30. Order adding error message

6.2.4. Postponed orders (batch entry)

The trading terminal application allows you to add batch of orders. Before adding, these orders should be selected into a special list of so called postponed orders. After selection has been made, the batch of the postponed orders can be sent into the trading system.

You can work with postponed orders via a particular window, which can be opened via the main menu item **Trading/Postponed orders**:

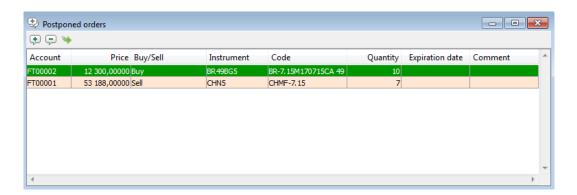


Fig. 6.31. Postponed orders

Tab. 6.16. Parameters of the Postponed orders window

Parameter	Details	
Account	Client code	
Price	Order price	
Buy/ Sell	Order type	
Instrument	Instrument short code	
Code	Instrument code	
Quantity	Quantity of the instrument in the order	
Expiration date	Order expiration date	
Comment	Additional info	

As the window is not bound to any particular instrument or client account, it is possible to add orders for any instruments or client accounts into the postponed orders list.

The following actions can be performed to the postponed orders:

- add an order into the postponed orders list see section 6.2.4.3;
- edit an order in the postponed orders list see section 6.2.4.3;
- remove one or several orders from the postponed orders list see section 6.2.4.4;
- send the batch of orders into the Trading system see section 6.2.4.5.

You can perform actions to postponed orders either via the local instrument panel buttons (see section 6.2.4.1) or context menu commands (see section 6.2.4.2).

Before deleting orders, you can select a batch of orders in the list to delete. The window accepts all the standard key combinations with using **Ctrl** and **Shift** for selecting more than one record.

When you double-click the left mouse button on an order in the list, a standard order edit form will appear on the screen, containing data of the selected order.

The postponed order list remains visible in the window until the window is closed (or you can save the list as a part of the workspace configuration to make it visible every time you open the window - see see section 5.7.2).

You can open more than one window with postponed orders at once.

6.2.4.1. Toolbar of the Postponed orders window

Tab. 6.17. Toolbar of the Postponed orders window

Icon	Context menu command	Details
•	Add order	Adds order into the list of postponed orders.
		Opens the order adding form - for details see section 6.2.4.3.
Ģ	Remove order	Removes order from the postponed orders list - see section 6.2.4.4.
*		Sends all postponed orders into the Trading system - see section 6.2.4.5.

6.2.4.2. The context menu in Postponed orders window

Apart from the standard commands, the context menu of the window **Postponed orders** has the following commands:

- Add order opens the standard order adding form. Here you can edit the order's parameters, if needed, before
 adding the order into the postponed orders list. If you have not selected any order in the list, than the standard order
 adding form will be empty.
- Edit order opens the standard order adding form, filled in with parameters of the selected order (order under the mouse cursor). This command is set as the default command and can be executed by double-clicking the order in the list with the left mouse button. After editing an order, it will replace the initial order in the postponed orders list.
- Remove order removes selected orders from the list of postponed orders.

6.2.4.3. Adding orders into the list and editing them

You can add a new order into the list by two methods:

- by pressing the appropriate button in the local instrument panel ::
- · via the context menu item Add order.

Adding orders into the list will be processed via the standard order adding form - see section 6.2.3.1.

If there is no any order in the list, or if you have not selected any order with the mouse cursor, than the standard order adding form will be empty.

If there is an order selected in the list, than the order adding form will be filled in with the details of the selected order (the one under the mouse cursor); you can edit the details in the form before adding the order into the list of postponed orders by pressing either **Buy** or **Sell** button.

Please note, that when you add an order into the list of postponed orders, this order IS NOT added into the Trading system.

When you add an order into the list of postponed orders, there can be a possibility when the list already contains an order with the same direction, account and price values (see fig. 6.32). In this case, a window will appear on the screen, containing the possible order adding scenarios:

- Cancel the new order will not be added:
- **Merge** the new order and the already existing orders will be merged into one, and their amounts of instruments will be merged as well;
- Replace the amount of instruments in the new order will replace that of the already existing order.



Fig. 6.32. Order adding scenarios window

You can enable the order editing mode by two methods:

- by double-clicking an order in the list of postponed orders;
- · via the context menu item Edit order.

After that, the order adding form appears on the screen in the editing mode. After editing, you should add the order into the list of postponed orders by pressing either **Buy** or **Sell** button. The newly added order will replace the already existing order.

6.2.4.4. Removing postponed orders

You can remove one or several orders from the list of the postponed orders by the following methods:

- by pressing the appropriate button in the local instrument panel ;
- · via the context menu item Remove order.

Before removing orders, you can select a batch of orders in the list to remove. The window accepts all the standard key combinations with using **Ctrl** and **Shift** for selecting more than one item.

The option **Postponed orders cancellation confirmation** allows to set confirmation on removing orders from the postponed orders list. If the option is enabled, you will receive a warning message *Are you sure you want to cancel ... orders?* every time you try to remove orders from the list. To confirm removing press **Yes**, to cancel press **No**. If the option is disabled, the selected orders will be immediately removed from the list. You can disable the confirmation option right in the warning confirmation window by setting **Do not show next time**.

6.2.4.5. Sending postponed orders into the Trading system

All orders in the postponed orders list can be sent into the Trading system simultaneously, by pressing the appropriate button in the local instrument panel - Send orders.

Please note that all orders in the window will be sent into the Trading system, no matter if some of them were selected with the mouse cursor or not.

The option **Postponed orders sending confirmation** in the tab **Confirmations** (**Settings/ Terminal settings/ Main**) allows to set confirmation on sending orders into the Trading system. If the option is enabled, you will receive a warning message *Are you sure you want to send ... orders?* every time you try to send orders. To confirm sending press **Yes**, to cancel press **No**. If the option is disabled, the selected orders will be immediately sent into the Trading system. You can disable the confirmation option right in the warning confirmation window by setting **Do not show next time**.

6.2.5. Unprocessed orders

The **Unprocessed orders** section of the side panel contains the orders rejected by trading system for some reason. To open the side panel use the **View/ Show side panel** main menu item or the **Ctrl+L** key combination.

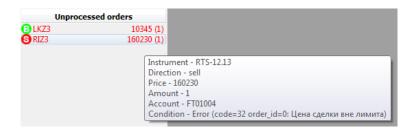


Fig. 6.33. Unprocessed orders

For example, if you try to add an order with the price beyond limits, then this order will not be added into the trading system and will be moved into the unprocessed orders list instead.

If you place the mouse cursor over an order in the unprocessed order list, a small window will appear with the order parameters and the rejection reason - see fig. 6.33.

From the context menu, opened by clicking an unprocessed order in the list with the right mouse button, the following options are available:

- Repeat order opens the order adding window filled in with the unprocessed order parameters; the parameters can be edited before adding the order;
- Cancel order the order will be cancelled and removed from the list of unprocessed orders. This menu item is available only for the orders that were responded;
- Remove from list the order will be removed from the list of unprocessed orders. 3This menu item is available only for the orders that were not responded. Please note, that the orders will be merely removed from the list, but not cancelled!
- Cancel all orders clears the unprocessed orders list.

6.2.6. Order cancellation

You can remove only the orders added by you. You can remove orders in the one of the following ways:

- via the Your orders/ requests window, by double-clicking the left mouse button on the active order;
- via the Cancel order context menu item (opened from the Your orders/ requests window by clicking the right mouse button on the active order);
- by clicking the left mouse button on an order in the **Orders panel** of the **Order-book** window (if the **Orders** panel is enabled).

You can perform the order mass cancellation according to their parameters:

- via the Cancel orders context menu item opened from the Order-book. In this case, all orders for the selected
 instrument (for which the order-book window has been open) will be cancelled according to the client or BF account.
 All the commands below are available only when a client account has been selected in the Account field on the
 Trading tab in Window settings:
 - o Cancel all orders Shift+A removes all user's orders for the current instrument;
 - o Cancel all buy orders Shift+B removes all user's buy orders for the current instrument;
 - o Cancel all sell orders Shift+S removes all user's sell orders for the current instrument:
- by pressing the one of the key combinations above, if the Order-book window is open and active;
- via the Trading/ Cancel orders main menu item. In this case, all orders for the selected instrument will be cancelled
 for the selected client or BF account. You can additionally select the orders to cancel: Cancel all orders, Cancel all
 buy orders, Cancel all sell orders. After that, you will have to enter a client or BF account code to cancel orders for.

The result of the order mass cancellation strictly depends on the user role in the trading system (CF, BF or client).

In case of the client user role, all the orders added from the current account will be removed (all orders, buy orders or sell orders, depending on the command executed). It is not obligatory to specify the client account code in the Order-book window settings.

In case of the BF user role (when no client account code specified in the Order-book window settings), all BF orders will be removed (including all BF accounts and clients). If a client account code has been specified in the Order-book window settings, then only orders added from this account will be removed.

In case of the CF user role, a client account code is mandatory to be set (not less than 4 symbols). If a BF account code has been specified (4 symbols), then the orders added from the BF accounts will be removed. If a client account code has been specified (7 symbols), then only the orders added from the client accounts will be removed.

You can set a special confirmation at order cancellation in the **Confirmations** (**Settings/ Terminal settings/ Main**) tab, vias the **Order cancellation confirmation** and the **All orders cancellation confirmation**. If the options is enabled, you will receive a confirmation dialog before cancellation is done. To disable the confirmation dialog, activate the **Do not show next time** option in the confirmation dialog window by checking the appropriate checkbox.

6.2.7. Checking price for limits and multiplicity

If you are adding an order when some price limits are specified for the instruments, then the **Check for limits** window will appear on the screen:

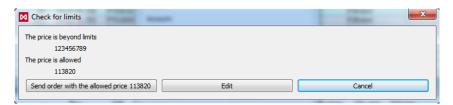


Fig. 6.34. Check for limits window

If you are trying to specify a price value in the order adding window, which is not multiple to the specified price step, then the **Check for multiplicity** window will appear on the screen:

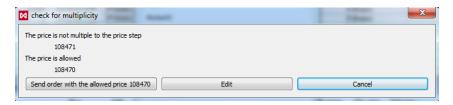


Fig. 6.35. Check for multiplicity window

You can resolve these problems in the following ways:

- by pressing the **Send order with the allowed price** ... the allowable price (indicated on the button)will be set automatically; after that, the order will be added into the trading system;
- by pressing the Edit button the order adding window will appear on the screen, with the Price field containing the
 recommended value. You can either accept the recommended value, edit it, add order into the system or cancel
 adding;
- by pressing the Cancel button the order adding will be cancelled. Both the dialog and the order adding window will be closed.

6.2.8. Messages window

The **Messages** window contains the messages the system sends in reply to user's actions.

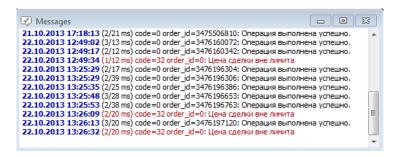


Fig. 6.36. Messageswindow

All messages in the window are displayed in the list. The newest message are displayed in the bottom of the list.

Every message contains the exact date and time of message generation.

Please note, that only the current session messages are displayed in the window. If you shut down the application and launch it again, the window will become empty.

6.3. Trades

The trades windows contain all trades for all trading boards: futures, options, negotiated trades, multi-leg trades and repo trades.

The repo instrument trades and the multi-leg trades divide into two trades each, which therefore are put into separate trading boards: repo/futures and pseudo-repo and futures.

There are two windows in the system to display trades:

- Your trades/ requests;
- · All trades/ requests.

6.3.1. All trades/ requests window

In order to view all trades for the current trading session, you should use the **All trades/ requests** window. You can open it via the **Tables/ All trades/ requests** main menu item.



Fig. 6.37. All trades/ requests window

It is possible to arrange the trades in the window by time by pressing the **Time** column header. For more information see section 5.10.2.

If you click the last trade line with the left mouse button, the cursor will be docked there and will not move up or down in the window. The very last trade is always displayed either in the top or in the bottom of the window, depending on the **Time** sorting option.

The trades list can be filtered by different parameters. For more information see section 6.3.1.1. After the filtering has been enabled, the column header will be marked in bold.

The **All trades/ requests** window provides possibility of the contextual search (see section 5.10.3). To enable the contextual search, press the **Ctrl+F** key combination.

The **All trades/ requests** window allows to specify different colour schemes for the buy and sell trades (green and red, by default, according to the trade closing order) via the **Window settings** context menu item of the **View** section, the **Highlight strings** command. You can choose some other colour schemes in the **Window settings/View/ Colours settings...** context menu item (see Chapter 11).

By double-clicking the left mouse button on a trade in the list, you will open a graphical chart window for the instrument from the trade.

Tab. 6.18. All trades/ requests window parameters

Parameter	Details
Floor	Floor short name.
Board	Instrument board.

Parameter	Details
Trade number	Trade sequential number.
Session	Trade date
Instrument	Instrument short code.
Code	Instrument code.
Price	Trade price.
Q-ty	Quantity of lots/ pieces in trade.
Volume	Trade price (money).
Open interest	Amount of positions on instrument after trade.
Time	Time of trade.
Originator	Direction of order of the trade originator.
Rate	Trade price in percent. Negative value is available.
	This value is used for calculating the repo trade parameters.
Swap price	Trade price in points. Difference between the first and the second legs price in multi-leg trades.
	This value is used for calculating the swap trade parameters.
Price1	Opening trade price for multi-leg instruments.
Price2	Closing trade price for multi-leg instruments.
Base instrument	Underlying instrument code.
Yield	Yield on futures on interest rates.

When you establish connection to the trading system, the **Your trades/ requests** window will display not more than the last 20 trades for each instrument.

6.3.1.1. Filtering in the All trades/ requests window

Filtering schemes in the All trades/ requests window can be specified in the following ways:

- via the Add filter context menu item. Filtering will be applied according to parameter under the cursor. If a parameter
 under the cursor is not applicable for filtering, then this menu item will be absent in the context menu. The list of
 parameters applicable for filtering can be found via the Window settings/ Filters context menu item;
- via the **Filters** context menu item, available from the following columns' headers: **Remains**, **Status**, **Buy/sell**. To activate filtering, you should select the needed parameters in the drop-down list by checking the checkboxes next to each parameter name;
- via the **Window settings** context menu item in the **Filters** section.

You can apply filtering by a particular instrument in the following ways:

- via the **Select instrument** context menu item, which is available only from the **Instrument** column's header. The **Select instrument** window appears on the screen (see section 5.11.1), where you can select a needed instrument. After selection is done, the **Your orders/ requests** window will contain only the orders for the selected instrument;
- via the **Add filter** context menu item, when the context menu is opened from a cell in the **Instrument** column (the filter will be applied by the instrument code in the cell);
- via the **Window settings** context menu item of the **Filters** section.

If a filter has been applied to a column in the **Your orders/ requests** window, then the column's header will be marked in bold.

To apply all possible filters at once you should use the Window settings/ Filters context menu item:

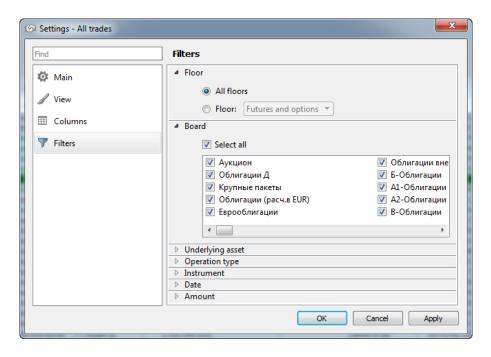


Fig. 6.38. Filtering settings in the All trades/ requests window

Tab. 6.19. Filtering parameters in the All trades/ requests window

Parameter	Details
Floor	 Filtering by trading floor: All floors – all orders for all floors; Floor – all orders for a selected floor. The floor can be selected in a drop-down list.
Board	Filtering by trading board. If the Select all option active, the window will contain all orders for all trading boards. To select some particular trading boards, you should check the checkbox next to the board name.
Underlying asset	Filter by underlying asset. If the Select all option is active, then the window will contain all trades for all underlying assets. If the Select all option is inactive, the window will be empty. To select the underlying assets you need, you should select them manually by checking the appropriate checkboxes.
Operation type	 Filtering by operation type: Buy – only user's buy trades are displayed; Sell – only user's trades orders are displayed. You can select one of the operation types or both at once.
Instrument	 Filtering by instrument: All Instruments – all orders for all instruments; Instrument – all orders for the selected instrument. Instruments can be selected in the Select instrument window (see section 5.11.1), which can be opened by pressing the Select button.
Date	Filtering by date:

Parameter	Details			
	All dates – all trades for the current and previous active sessions;			
	Today – only trades for today's sessions;			
	Today and tomorrow – trades for today's and yesterday's sessions;			
	Between - trades for a particular period of time. You can specify period in the following ways:			
	∘ the From and till options are not set – all available dates;			
	o only the From option is set – the dates starting from the date specified till today;			
	 only the till option is set – the dates starting from the oldest available date till the date specified; 			
	 the both From and till options are set – all dates starting from the date specified in the From field till the one specified in the till field. 			
Quantity	Filtering by the instrument quantity (in lots or in units).			
	To activate the filter you should enable the Not less than option by checking the appropriate checkbox and enter the value you need ('2' or more). After activating the filter, the All trades/ requests window will display only the orders according to the filter settings.			

You can deactivate filtering using one of the following methods:

- via the **Clear filter** context menu item, which should be opened from the **Floor** column header. If a filter has been applied to a column (parameter) in the **Floor** window, then the column header will be marked in bold;
- via selecting all parameters in the **Filters** context menu item, which should be opened from the **Type** column header;
- · via the Remove all filters context menu item;
- via selecting all parameters in the Filters section of the Window settings context menu item.

6.3.1.2. Context menu in the All trades/ requests window

For information about the standard commands for all windows see Chapter 11. Below is the list of the **All trades/requests** window menu items:

- **Open Order-book** opens the Order-book window for the current instrument (right on the active tab). The instrument ticker is displayed in the context menu item;
- Open chart (the default action) opens the Tech. Analysis window with the graphical chart for the current instrument;
- Add volatility curve adds the volatility curve chart into a separate window (see section 7.3). This menu item is available only for options;
- Information opens the Information window for the selected instrument;
- Add filter enables filtering according to the parameter where cursor was placed. The parameter name is available in a menu item. Please note, that the menu item is displayed only when the filtering option is available for the parameter selected. The list of the parameters can be found via the **Window settings/ Filters** context menu item; also, there you can specify the filtering parameters (see section 6.3.1.1);
- Clear filter allows to remove the filter applied by the current column parameter (the column header will be marked in bold). The menu item is available in the context menu only when the filtering has been applied;
- Remove all filters removes all filters by all parameters. The menu item is available in the context menu only when the filtering has been applied;

- Select instrument opens the Select instrument window. After selecting an instrument, the filtering will be enabled
 according to the selected one instead of any other instrument selected before, if it was. This menu item is available
 only in context menu opened from the Instrument column.
- Filters— the menu item, available only when the context menu opens from the columns, which data can be filtered by a particular parameter (the **Originator** column, for example). In the drop-down list, you should select the filtering parameters by checking the checkbox next to each parameter name. Please note, that via this menu item, you can add or remove only a single parameter at once. For more options, please use the **Window settings/ Filters** context menu item see section 6.3.1.1..

6.3.2. Your trades/ requests window

The **Your trades/ requests** window displays all trades performed by you during the current trading session. You can open the window by one of the following ways:

- · via the Tables/ Your trades/ requests main menu item;
- by pressing the button in the instrument panel;

The **Your trades/ requests** window contains all trades performed by using your accounts. The client trades (i.e., the trades performed between your accounts) are displayed as separate trades for each of your accounts.

The multi-leg trades are divided into two trades for separate trading boards: repo and futures/multi-leg and futures.

When you establish connection to the trading system, the **Your trades/ requests** window will display not more than the last 20 trades for each instrument.

After disabling the **Load your trades history** option via the **Settings/ Terminal settings/ Transport** main menu item, the **Your trades/ requests** window will display only the trades performed since the moment of your connection.



Fig. 6.39. Your trades/ requests window

It is possible to arrange the trades in the window by time by pressing the **Time** column header. For more information see section 5.10.2.

If you click the last trade line with the left mouse button, the cursor will be docked there and will not move up or down in the window. The very last trade is always displayed either in the top or in the bottom of the window, depending on the arranging option.

The trades list in the **Your trades/ requests** window can be filtered by account and other parameters. For more information see section 6.3.2.1. If a filter has been applied to a column (parameter), the column header will be marked in bold.

The **Your trades/ requests** window provides possibility of the contextual search (see section 5.10.3). To enable the contextual search, press the **Ctrl+F** key combination..

The **All trades/ requests** window allows to specify different colour schemes for the buy and sell trades (green and red, by default, according to the trade closing order) via the **Window settings** context menu item of the **View** section,

the **Highlight strings** command. You can choose some other colour schemes in the **Window settings/View/ Colours settings...** context menu item (see section 11.2).

When the **Play sound when adding a string** option is set, then a sound will play every time a new string is being added into the **Your orders/ requests** (or **Your trades/ requests**) table.

The sound pattern can be selected in the **Sound** field from a drop-down list (with a preview option available for every sound pattern: to preview a sound, press the appropriate button next to the **Sound** field). For more information see section 6.2.1.3.

To open the Order-book window for a trade, double-click it with the left mouse button.

Tab. 6.20. Parameters in the Your trades/ requests window

Parameter	Details	
Trade number	Trade sequential number.	
Order number	Order sequential number.	
Instrument	Instrument short code.	
Code	Instrument code.	
Price	Trade price.	
Q-ty	Quantity of lots/ pieces in trade.	
Volume	Trade price (money).	
Fee	Fee on trade.	
Account	Client code.	
Floor	Floor short name.	
Board	Instrument board.	
Session	Session name.	
Direction	Own order direction.	
Login	Client login.	
Counterparty	Counterparty exchange code.	
Time	Time of trade.	
External id.	External number of transaction.	
Comment	Trade additional details.	
	If the client order contained a comment, the comment text will be added into this field.	
Repo	Number of repo other leg.	
Multi-leg	Multi-leg trade number.	
Rate	Trade price in percent for multi-leg instruments. Perhaps the negative.	
	For repo instruments, the rate value is needed to calculate the other parameters of the repo trade.	
Swap price	Trade price in points for multi-leg instruments. Price difference between the near and far legs.	
	For swap instruments, the rate value is needed to calculate the other parameters of the swap trade.	
Price1	Opening trade price for multi-leg instruments.	
Price2	Closing trade price for multi-leg instruments.	
Trade type	Expiration/ exercise trades types.	

Parameter	Details
Yield	Yield on futures on interest rates.

6.3.2.1. Filtering in the Your trades/ requests window

In the **Your trades/** requests window, you can set filtering by account number. You can enter the account number into the field above the table manually or select it from the drop-down list. The number is case sensitive! Please note, that you should enter the whole number! The table than will display all the records belonging to the account number.

The filtering settings of the **Your trades/ requests** window are fully alike to that of the **All trades/ requests** window – see section 6.3.1.1. The difference is that the Your trade window provides two additional options for filtering (see below):

- Account applies filter by the client account number. The Select all option allows to display trades for all the clients
 accounts. To select some particular client accounts you should select them by checking the checkboxes next to
 the account number.
- **Login** applies filtering by login. The **All logins** option allows to display trades for all logins. You can view the trades for a particular login only; to do this, select the appropriate login in the drop-down list.
- Technical trades applies filtering by technical trades. There are free options of filter:
 - o All trades displays all client trades (default);
 - o Technical trades only displays the technical trades only;
 - o Common trades only displays the common trades only.

6.3.2.2. Context menu in the Your trades/ requests window

The context menu commands are almost alike to that of the **All trades/** requests window – see section 6.3.1.2. The only difference is the **Open Order-book** command – set as the default command to be executed by double-clicking a record with the left mouse button.

6.4. Negotiated operations

The trading terminal provides availability for adding negotiated orders and perform negotiated trades.

Negotiated and anonymous orders are displayed in the same tables; the only thing to tell one from another is the trading board they belong to (some trading boards contain the word 'negotiated' in their names). In order to view negotiated orders and trades only, you can apply the appropriate filter.

The **Your trades/ requests** window contains only your negotiated trades. The **Counterparty** in these trades field contains the counterparty ticker code.

The **All trades/ requests** window contains both your and others negotiated trades; the counterparty ticker code is not displayed though.

Users can remove negotiated orders added by them.

6.4.1. Negotiated orders

Negotiated orders are the orders addressed to a particular counterparty, therefore their details are not disclosed to other trading participants, except the two counterparties.

Two active negotiated orders are offsetting if:

- The one clearing firm code in one order coincides with that of another clearing firm, and vice versa;
- · both orders are for derivatives with the same code;

- · the orders have opposite directions: buy and sell, or vice versa;
- the buy order price/premium is equal or greater than the sell order price/premium.

If there is no active offsetting order found for the active negotiated order, this order enters on queue for waiting.

Negotiated and anonymous orders are displayed in the same tables in the **Your orders/ requests** window (see fig. 6.39); the only thing to tell one from another is the trading board they belong to (some trading boards contain the word 'negotiated' in their names). In order to view negotiated orders and trades only, you can apply the appropriate filter (see section 6.2.1.1).

The **Your trades/ requests** window contains only your negotiated trades. The **Counterparty** in these trades field contains the counterparty ticker code.

If you select a negotiated order (addressed to you) in the window and click **Add order**, the order adding window will appear on the screen, filled in with the parameters of the selected order. To perform a trade, you will have to fill in the client account code and the order direction (opposite to that of the selected order) and add the order to the trading system.

For adding negotiate orders, the standard order adding window with selected negotiated orders board is used (see fig. 6.40). For possible order adding window opening scenarios see section 6.2.3.

6.4.1.1. Adding negotiated orders

The main negotiated orders parameters are alike to that of the anonymous orders - see tab. 6.15.

For negotiated orders, the order adding window contains some additional fields:

- **Counterparty** field (see fig. 6.40) is mandatory, and it must be filled in with the counterparty data (either added manually or selected from the drop-down list);
- Matching reference field this parameter's value is used for matching negotiated orders. If two values (including
 the empty string) match, then the orders will be matched into a trade. And vice versa, if the values do not match,
 the two orders will not be matched into a trade.

For possible order adding window opening scenarios see section 6.2.3.

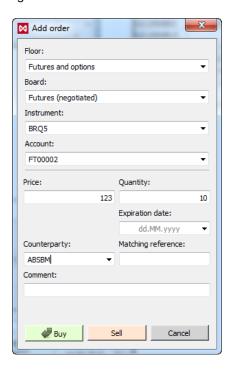


Fig. 6.40. Adding a negotiated order

6.4.2. Negotiated trades

An active negotiated order matches with opposite order to make trade. Negotiated orders cannot be matched partly.

The negotiated orders are displayed in the **All trades/ requests** (see section 6.3.1) or in the **Your trades/ requests** (see section 6.3.2) window; the filtering by **negotiated** parameter must be set.

The Your trades/ requests window displays your negotiated trades including detailed information regarding the trades.

The **All trades/ requests** window displays all users' negotiated trades. Information about counterparties are not included, therefore, you cannot see the details about matched trades.

6.5. Multi-leg instruments operations

Multi-leg instruments – compound instruments, which consist of several parts related to each other (spot assets, futures, options). Once the multi-leg trade has been matched, it divides into two or more instrument positions.

A multi-leg trade consists of two trades for different trading boards, with different settlement time.

Below are some particular cases of multi-leg operations:

- Repo repo multi-leg instruments on RTS Standard, consist of two parts: near leg spot-instrument with close settlement data — far leg spot-instrument with a farer settlement data (opposite direction). Both instruments have an equal shares;
- Repo pseudo a particular case of repo; for information see the line above;
- Currency swap on RTS Money (currency buy/sell operation with forthcoming buy/sell operation with the delayed date of the second leg);
- **Spread** the instrument allows to trade two future orders for the same underlying asset at once, with different settlement date and opposite directions (short or long).

The multi-leg trades can be either negotiated or anonymous.

6.5.1. Multi-leg instruments orders

Multi-leg orders are displayed in the **Your orders/ requests** window (see fig. 6.39), along with anonymous orders.

You can filter order by the **Board** field. The multi-leg instruments belong to the following boards:

- · Repo Standard;
- · Repo Standard (negotiated);
- · Repo Standard pseudo;
- · Currency swap;
- · Currency swap (negotiated);
- Spread;
- · Spread (negotiated).

Multi-leg orders in the window can also be filtered by instruments or the instrument types – see section 6.2.1.1.

There are two types of multi-leg orders: negotiated and anonymous. Negotiated orders always have the counterparty code.

For adding multi-leg orders, the standard order adding window with selected negotiated orders board is used (see fig. 6.41). For possible order adding window opening scenarios see section 6.2.3.

6.5.1.1. Adding orders for anonymous multi-leg instruments

Unlike the standard order adding window (see tab. 6.15), the order adding window for multi-leg orders contains some additional fields:

- Rate percentage rate for repo and repo pseudo instruments trade. The other trade parameters are based on this value. The value can be negative;
- **Swap-price** price difference between the near and the far legs of the trade. The parameter is specified for the swap-instruments and spreads orders. The other trade parameters are based on this value.
- Price price of the near leg of the trade. For the anonymous repo-instrument, the price of the near leg of the trade is
 equal to that of the settlement price of the last evening clearing session. This value cannot be edited, therefore, the
 appropriate field is absent. In case of adding a negotiated order, a value in the the Price field can be edited by users.

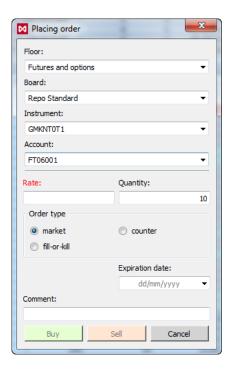


Fig. 6.41. Adding order for the repo and repo pseudo anonymous instruments

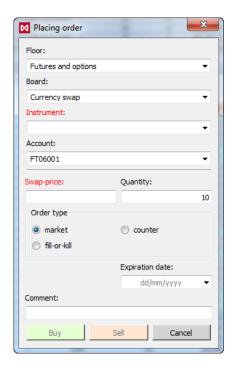


Fig. 6.42. Adding order for the swap and spread anonymous instruments

6.5.1.2. Negotiated multi-leg instruments orders

For adding negotiated orders, the firm must be granted with special rights by the trading administrator. Negotiated orders are displayed in the **Your orders/ requests** window along with anonymous orders. Below is what you can see in the **Your orders/ requests** window:

- · negotiated multi-leg instruments orders added by your brokerage firm;
- negotiated instruments orders added for your brokerage firm.

You cannot see orders addressed to another firms.

When adding a negotiated order:

- · you should specify a counterparty (firm code), the order will be addressed to;
- the trading system matches the added negotiated order to an opposite order added by the specified counterpart.
 If no counter-order has been added into the system yet, the order remains in the system, waiting for the counter-order to be added.

The adding negotiated order parameters should meet the following requirements:

- · the near leg price should not exceed the first instrument limits;
- the far leg price (the near leg price + swap-price) should not exceed the second instrument limits;
- · trades between instruments with different lots are prohibited.

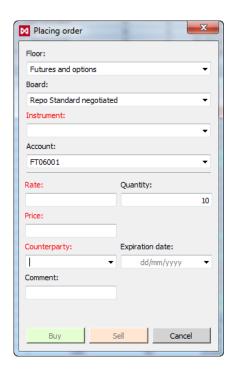


Fig. 6.43. Adding order for negotiated repo and repo pseudo instruments

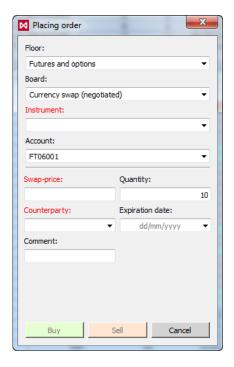


Fig. 6.44. Placing order for negotiated swap and spread instruments

Unlike the standard order adding window (see tab. 6.15), the order adding window for multi-leg orders contains some additional fields:

- Rate percentage rate for repo and repo pseudo instruments trade. The other trade parameters are based on this value. The value can be negative;
- **Swap-price** price difference between the near and the far legs of the trade. The parameter is specified for the swap-instruments and spreads orders. The other trade parameters are based on this value.

- Price price of the near leg of the trade. For the anonymous repo-instrument, the price of the near leg of the trade is
 equal to that of the settlement price of the last evening clearing session. This value cannot be edited, therefore, the
 appropriate field is absent. In case of adding a negotiated order, a value in the the Price field can be edited by users.
- **Counterparty** the counterparty firm code for the negotiated order.

6.5.2. Multi-leg instruments trades

There are two types of multi-leg trades: anonymous and negotiated. The trades are displayed in the **All trades/ requests** (see section 6.3.1) and **Your trades/ requests** (see section 6.3.2) windows.

The repo instrument trades and the multi-leg trades divide into two trades each, which therefore are put into separate trading boards: repo/futures and pseudo-repo and futures.

6.5.2.1. Negotiated multi-leg instruments trades

To commit a negotiated trade, the **Counterparty** (the entity, the order has been addressed to) should add a negotiated order with the opposite direction, addressed to the originator of the initial order. The following parameters of both orders must be equal:

- trading board repo, swap, repo pseudo or spread;
- · instrument code and settlement date;
- · order volume;
- · order near leg price;
- · swap-price.

A single negotiated order can be matched to no more than one trade.

The negotiated trades are displayed in the **All trades/ requests** (see section 6.3.1) and **Your trades/ requests** (see section 6.3.2) windows. For your convenience, you can filter the list by particular trading board.

The Your trades/ requests window displays your negotiated trades including detailed information regarding the trades.

The **All trades/ requests** window displays all users' negotiated trades. Information about counterparties are not included, therefore, you cannot see the details about matched trades.

6.6. Administrator and Trading System's messages

During the trading session, the system sends various information messages (about closing a trading session, etc.), error messages and trading administrator's messages.

The messages from the trading system are displayed in the status bar (see section 5.5).

Also, for some messages the 3-minutes tray bar pop-up warnings (see section 10.1) option can be enabled. To enable the semi-transparent warnings option you should use the Growl tool.

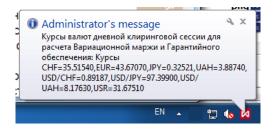


Fig. 6.45. New trading system/Administrator's message

Messages of different types are indicated in different ways and displayed in different screen areas:

- Administrator's messages see section 6.6.1;
- error messages see section 6.6.2;
- transaction error messages see section 6.6.3.

6.6.1. Administrator's messages

The messages sent by the Administrator during the current connection session are stored in the **Administrator's messages** window. The window can be opened by the following ways:

- via the Trading/ Administrator's messages main menu item;
- · by pressing the Ctrl+Alt+M key combination;
- via the 🔛 icon in the status bar.

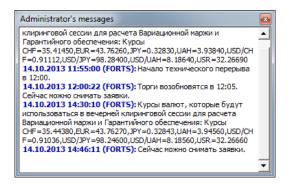


Fig. 6.46. Administrator's messages

For the Administrator's messages, the 3-minutes tray bar pop-up warnings (see section 10.1) option can be enabled. To enable the semi-transparent warnings option you should use the Growl tool.

When a new message from Administrator has been received, the icon appears in the status bar until you open the **Administrator's messages** window by pressing this icon with the left mouse button. After that, the exclamation mark from the icon will disappear.

The message window which has been opened by clicking the $\ensuremath{\mbox{\mbox{$ ere}$}}$ icon cannot be pinned to the workspace window and to other windows. Also, this window will not be displayed in the list of open windows in the **Windows** main menu item.

If, instead, the **Administrator's messages** window has been opened via the **Trading/ Administrator's messages** main menu item, it will have the features of the standard window, i. e. it can be pinned to workspace window and other windows, also, it can stay open and be visible in the list of the open windows in the **Windows** main menu item.

6.6.2. Error and notifications

The error messages received during the current connection session are stored in the **Errors and notifications** window – fig. 6.47. When a error occurs (for example, a connection error), the \bigcirc icon appears in the status bar. The \bigcirc icon remains in the status bar if at least one error message has been received during the current connection session.

The window can be opened by the following ways:

- · via the Trading/ Errors and notifications main menu item;
- via the icon in the status bar.

The **Errors and notifications** window contains the complete list of errors occurred during the current connection session including the date and time of each error along with the error description. To clear the errors list press **Clear**.

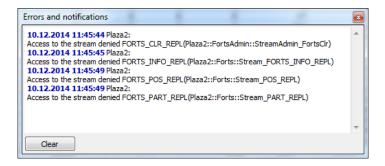


Fig. 6.47. Errors and notifications window

Also, for the error messages, the 3-minutes tray bar pop-up warnings (see section 10.1) option can be enabled. To enable the semi-transparent warnings option you should use the Growl tool.

6.6.3. Transaction error messages

If a transaction error (for example, when an order is adding into the trading system), occurs, the appropriate message will be displayed in the **Messages** window - see section 6.2.8.

Also, for the transaction error messages, the 3-minutes tray bar pop-up warnings (see section 10.1) option can be enabled. To enable the semi-transparent warnings option you should use the Growl tool.

Chapter 7. Options

This chapter overviews details of the following boards and operations:

- · options board;
- · exercise options;
- · options calculator.

7.1. Options board

The **Options board** window contains information for all options in the current trading session. The information in the **Options board** window is mostly the same as it in the **Financial instruments** window (see section 6.1.2); the only difference is the view mode, which is more convenient for working with options.

You can open the window by the following methods:

- · via the Tables/ Options board main menu item;
- via the **Open options board** context menu item, opened from the **Financial instruments** window. Please note that this context menu item is available only if the context menu has opened from a line containing an option record.

On the options board, the instruments are arranged according to their underlying assets.

The **Options board** window(fig. 7.1) displays the sell and buy orders for the same underlying assets dividing into different option contracts. Such arranging allows you to make compositions of strikes and options of different types .

Every record in the **Options board** table belongs to a particular option contract. The records contain information on the best put and call contracts for the same underlying asset; the records are arranged according to their strikes. The table columns contain the option contracts parameters—see tab. 7.1.

The instrument list in the **Options board** window can be filtered according to your needs. You can specify the filtering settings via the **Window settigs/ Filters** menu item – see section 7.1.1.

Also, you can add/remove instruments in the instrument list via the **Window settigs/ Instruments** context menu item – see section 7.1.2.

You can use the contextual search option to find a particular account in the list; to do this, enter a sequence of characters in the appropriate field above and press (see section 5.10.3). Contextual search is activate by pressing **Ctrl+F**.

Double-clicking the left mouse button on a selected instrument opens the Order-book window for this instrument(see section 6.2.2). Also, you can open the Order-book window via the **Open Order-book** context menu item.

You can specify different nesting depth for the left and right parts of the window:

- minimize group of records. All records of all levels will be minimized automatically;
- D maximize group of records. The nested levels will not be maximized automatically: you should manually maximize every nested level.

Clicking the stored or button (in the first column header) allows to maximize or minimize all groups at once for all underlying assets. Button changes its appearance automatically.

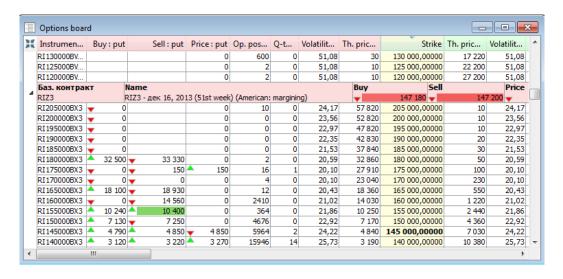


Fig. 7.1. Options board

Tab. 7.1. Parameters in the Options board tab

Parameter	Details	
Instrument: put	put: Instrument short code.	
Code: put	put: Instrument code.	
Buy: put	put: Best buy order price.	
Sell: put	put: Best sell order price.	
Price: put	put: Price of closing trade.	
Op. pos.: put	put: Current number of open positions.	
For sell: put	put: Quantity in the best sell order.	
For buy: put	put: Quantity in the best buy order.	
Trend: put	put: Price fluctuation trend (difference between prices of two last trades).	
Q-ty: put	put: Amount in the last trade	
Last: put	put: Date and time of last trade.	
Min price: put	put: Minimum price.	
Max price: put	put: Maximum price.	
Avg.: put	put: Average price.	
Prev. price: put	put: Settling price of previous session.	
Trades: put	put: Amount of trades.	
Volume: put	put: Total number of lots in trades.	
Turnover: put	put: Total trades volume.	
Changed: put	put: Date and time of record modification.	
Amount to sell: put	put: Amount of sell orders.	
Amount for selling: put	put: Amount in sell orders (in contracts).	
Amount to buy: put	put: Amount of buy orders.	
Amount for buying: put	put: Amount in buy orders (in contracts).	
Opening price: put	put: Opening price.	
Closing price: put	put: Closing price.	
Th. price: put	put: Option theoretical price.	

Delta: put put: Rate of option premium change relative to underlying asset price. Gamma: put put: Rate of option delta change if underlying asset price has changed by 1. Vega: put put: Rate of option delta change if volatility has changed by 1. Theta: put put: Rate of option delta change if volatility has changed by 1. Theta: put put: Rate of option delta change relative to time (till expiration): amount of money the option loses per single day. Strike Exercise price - a fixed price value, at which the option assets are to be bought (option calf) or sold (option put) if the option owner exercises the option contract. The central strike price is marked in bold. Delta: call call: Rate of option premium change relative to underlying asset price change. Gamma: call call: Rate of option delta change if underlying asset price has changed by 1. Call: Rate of option delta change if volatility has changed by 1. Theta: call call: Rate of option delta change relative to time (till expiration): amount of money the option loses per single day. Volatility: call call: Option volatility. Call: Option volatility. Call: Option volatility. Call: Option volatility. Call: Closing price: call call: Closing price. Call: Closing price. Call: Closing price. Call: Amount for buying: call call: Amount in buy orders (in contracts). Amount for buying: call call: Amount of buy orders. Changed: call call: Closing price. Changed: call call: Closing volume. Volume: call call: Closing price of previous session. Amount to sell: call call: Total trades volume. Volume: call call: Amount of trades. Trades: call call: Amount of trades. Prev. price: call call: Amount of trades. Call:	Parameter	Details		
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For buy: call call: Quantity in the best buy order. call: Quantity in the best sell order. call: Quantity in the best sell order. call: Current number of open positions. Price: call call: Price of closing trade. Sell: call call: Best sell order price. Buy: call call: Best buy order price.	Q-ty: call	call: Amount in the last trade		
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Op. pos.: call call: Current number of open positions. Price: call call: Price of closing trade. Sell: call call: Best sell order price. Buy: call call: Best buy order price.	For buy: call	call: Quantity in the best buy order.		
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Sell: call call: Best sell order price. Buy: call call: Best buy order price.	Op. pos.: call	call: Current number of open positions.		
Buy: call call: Best buy order price.	Price: call	call: Price of closing trade.		
	Sell: call	call: Best sell order price.		
Code: call call: Instrument code call.	Buy: call	call: Best buy order price.		
	Code: call	call: Instrument code call.		
Instrument: call call: Instrument short code call.	Instrument: call	call: Instrument short code call.		

Parameter Details			
Group of options			
Floor	Floor short name.		
Und. contract board	Underlying contract board.		
Und. contract	Underlying contract instrument.		
Name	Options group name.		
Buy	Price of the best buy order for underlying contract for set of options.		
Sell	Price of the best sell order for underlying contract for set of options.		
Price	Best price of underlying contract for set of options.		
Board	Options board.		
Open pos.	Current amount of open positions.		
CS volatility	Volatility of central strike for series of options.		
UA name	Instrument underlying asset name.		
Underlying asset	Instrument underlying asset code.		

You can specify set and order of parameters according to your needs (Window settigs/ Columns/ Columns - option instrument parameters, Window settigs/ Columns/ Options - underlying asset parameters) - see section 11.3.

You can change width of the line with underlying asset parameters using the **Window settigs/ Columns/ Options** menu item. To change width, click the field border with the left mouse button, drag it to a new area and then release the mouse button. The bottom of the page contains the line layout preview.

The **Options board** window allows to highlight different fields with different colour schemes according to the current market conditions (best buy, best sell, the last trade price change trend). You can do it via the **Window settigs/ View** context menu item – see section 11.2.

To switch off the colour highlighting you should switch off every option in the **Window settings**: **Highlight buy-sell** and **Highlight last trade direction** context menu item of the **View** section.

However, the colour indication for price cells (green for price growth/red for price fall) cannot be switched off.

7.1.1. Filters in the Options board window

You can specify the **Options board** window filter settings via the **Window settings** context menu item of the **Filters** section.

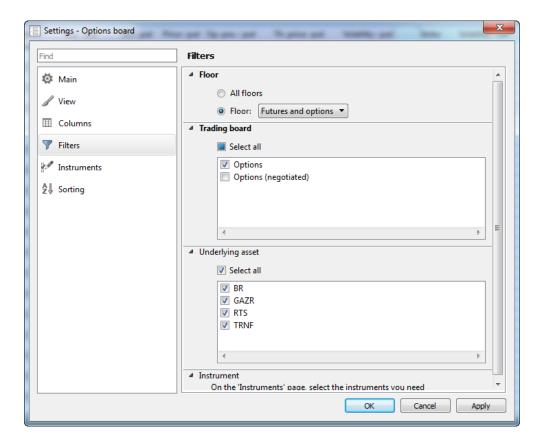


Fig. 7.2. Setting filters in the Options board window

The **Options board** window displays only the instruments subjected to the current filter settings. To select the instruments to be displayed, you should check the checkboxes next to their names in the window. To remove an instrument from the window, uncheck its checkbox

By default, the window displays all available instruments.

Attention! Please note, that filters applied in the **Filters** and **Instruments** sections (see section 7.1.2) are used together. I.e., the window contains only the instruments which meet both filters' rules.

Tab. 7.2. Filtering parameters in the Options board window

Parameters	Details		
Floor	Filtering by trading floor:		
	All floors – instruments from all trading floors are displayed;		
	• Floor – only the instruments from the selected floor are displayed (to select a floor, use the drop-down list).		
Trading board	Filtering by the trading board. The Select all option allows to select/deselect all option instruments from all trading boards.		
	To select/deselect a particular instrument, you should check/uncheck the checkbox next to the instrument name.		
Underlying asset	Filtering by the underlying asset code. The Select all option allows to select/deselect all option instruments for all underlying assets.		
	To select/deselect a particular instrument, you should check/uncheck the checkbox next to the instrument name.		
Instrument	Filtering by instruments. Can be specified in the Window settigs/ Instruments section - see section 7.1.2.		

The **Select all** option allows to select/deselect all parameters at once.

To cancel filtration you can use the **Window settings** context menu item of the **Filters** section.

Filtering by instruments can be specified in the Window settigs/ Instruments section - see section 7.1.2.

Once you close the window and then open it again, the window will be open in its default configuration, causing all your filter settings to be lost. To save your settings, you should save the current configuration as default via the **Current window/ Save by default** main menu item. This configuration becomes active even after restarting the application.

To automatically save the current configuration when you exit the terminal should install option **Save the current desktop settings befor exit** (**Settings/ Terminal settings/ Main/ Common**).

7.1.2. Filtering by instruments in the Options board window

In the **Options board** window, you can set filtering by the instrument structure via the **Window settigs/ Instruments** context menu item.

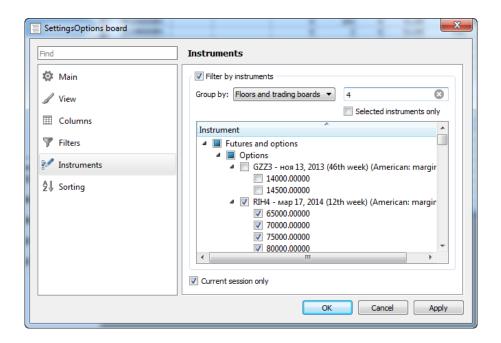


Fig. 7.3. Filtering by instruments in the Options board window

To activate the filter you should check the **Filter by instruments** checkbox. After that, you will be allowed to select instruments and their underlying assets in the list below.

You can group instruments in the list in the following ways:

- Floors and boards by floors, then by boards;
- Floors by floors only (boards are omitted);
- · Boards by boards only (floors are omitted);
- **Types** by instrument types (indexes, options, etc.);
- · Underlying asset by underlying assets (floors and boards are omitted);
- Floors and types by floors, then by instrument types;

- Boards and types by boards, then by instrument types;
- Floors, types, boards by floors, then by instrument types, then by boards;
- <total> in alphabetical order (according to instrument codes).

You can search for an instrument in the list by typing its name into the contextual search field; the case-insensitive search starts immediately after entering the first symbol. The search results will display all records containing the entered symbols. To clear search results simply delete symbols from the search field.

If the **Selected instrument only** option is active, the filter list will contain only the active instruments names.

You can change the filter settings by checking/unchecking checkboxes left of each instrument name (please note, that the **Financial instruments** window contains only active instruments!). After selection is done, press **Apply** or **OK**.

To cancel filtering, simply set all instruments in the filter list as active.

The **Current session only** option allows to manage the instruments list in the filter window. If the option is active, the list will contain only the instruments traded in the current trading session. Otherwise, some expired instruments from the previous trading sessions may also be added into the list.

When a new trading instrument is added into the trading system, its visibility in the **Options board** window will depend on the filter type applied for this window. If an applied filter includes a group of instruments, then the new instrument may (or may not, if it does not belong to the group) automatically become visible and active in the **Options board** window. If the filter includes only some particular instruments, the new instrument will not be included in the list automatically, so that it will not appear in the **Options board** window until you manually change the filtering preferences.

Once you close the **Options board** window and then open it again, the window will be open in its default configuration, causing all your filter settings to be lost. To save your settings, you should save the current configuration as default via the **Current window/ Save by default** main menu item. This configuration becomes active even after restarting the application.

7.1.3. Sorting in the Options board window

Sorting by column headers is not available in this window as it may lead to breaking the order of instrument which have been sorted out by underlying assets .

The only available sorting option by columns is to arrange instrument by the **Strike** column (see section 5.10.2), in order to arrange the records in the table according to strike value inside each of options group. After the sorting by the **Strike** column has enabled, all option groups will be automatically maximized even if they had been minimized before.

The other types of sorting can be specified via the **Window settings** context menu item on the **Sorting** page - fig. 7.4. Please note, that to enable the sorting option you should enable the filtering by instruments first (see section 7.1.2). The list of option depends on the instruments covered by filters, i.e. the list will contain only the instruments according to the filtering settings. Once you change the filtering settings for instruments, the options list will change, too.

If you disabled the filtering in the window having the sorting option enabled, the **Sorting** page remains unchanged until you changes the filtering by instruments settings.

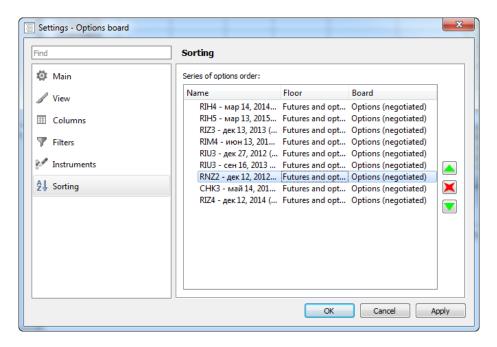


Fig. 7.4. Sorting in the Options board window

The window displays all options group selected for the **Options board** window, in the order equal to that in the sorting settings window (see fig. 7.4). Sorting in the **Options board** window is applied to the whole options group, and does not not cover the nested options.

To move an options group from one position to another in the sorting settings window (fig. 7.4), you should place the mouse cursor on a line containing an option ticker and press one of the following buttons:

- move one position up;
- move one position down;
- X hide from the table.

If you need to move more than one line at once, you should select the lines you need using the Shift or Ctrl key.

To confirm the changes, press **Apply** or **OK** button.

7.1.4. Context menu in the Options board window

The standard context menu items are described in Chapter 11. Below you will find description for the particular **Options board** window context menu items. There are:

- Add order opens the order adding window (see section 6.2.3.1);
- Open Order-book (the default action) opens the Order-book window for the selected instrument. The window
 can be also opened by double-clicking an instrument with the left mouse button (see section 6.2.2);
- Open chart opens the Tech. analysis window, containing graphical chart for the selected instrument;
- Information opens the Information window, containing information on the selected instrument;
- Add volatility curve adds the volatility curve chart into a separate window (see section 7.3);

Before performing any action, you should select an instrument by placing the mouse cursor on the appropriate line. The action will be applied to the selected instrument.

7.2. Options exercising

When exercising an option, both parties (seller and buyer) fulfil their obligations for the option contract; due to that, the new positions will open on the futures market, by the price equal to the exercising option strike. The exercising is performed during a clearing session.

Options are exercised in accordance with the orders added before. The exercise orders can be added via the trading terminal, during a trading session and also 10 minutes before it ends.

Options can be exercised in two modes:

- *anticipated* according to the exercise order, which can be added by the client at any time during a trading session. The orders are accepted during the trading sessions and exercised during the clearing sessions (twice a day);
- automatic on the day of the option expiration. Every in the money option margined by a value equal or greater
 than the minimum tick size will be exercised automatically on the day of its expiration. This exercise rule prevails
 the clients rules.

7.2.1. Options exercise orders

Options are exercised in accordance with the orders added before. The exercise orders can be added via the trading terminal, during a trading session and also 10 minutes before it ends.

You can add an option exercise order in the Positions/ requests window (the Trading/ (Positions/ requests main

menu item) - see section 6.1.5) via the **Exercise option context menu item** or by pressing the button on the local instrument panel in the **Positions/ requests** window. The context menu item is available only if the context menu opens from an option record.

Before adding the exercise order, you should fill in the special form in the **Exercise option** window:

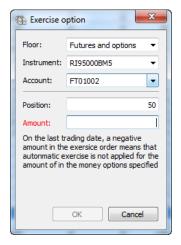


Fig. 7.5. Exercise option

The form fields are filled in with parameters of the option under the cursor:

- Floor trading floor for the selected instrument;
- Instrument instrument code;
- · Account client account number;
- Position the current instrument position for the client account (this field is non-editable);
- Amount number of position to exercise. The number cannot be greater than the real number of positions on the
 account. In order to cancel the automatic exercise you should add the option exercise request with the Amount

field containing a negative number on the option expiration day. Therefore, the specified number of in-the-money option contracts will not exercise automatically.

In order to edit the values in the fields, you can enter new values manually, or select them in the drop-down lists. Once you have changed a value in the **Instrument** or **Account** field, the value in the **Position field** will also change in accordance with the newly added ones.

Press **OK** to add the order into the trading system. After you pressed **OK**, the system will ask you: "*Are you sure you want to exercise the option?*". Press **Yes** to confirm, or **No** to cancel the exercising and return to the order adding window.

All the option exercise orders are displayed in the **Positions/ requests** window. If there is an exercise order added for any instrument, the **Order**, **Exercise**, **Date** μ **Int. clearing** fields will display the order details.

7.2.2. Options exercising rules

Every option requires a corresponding exercising rule, otherwise it will not be exercised automatically. You can create a single automatic exercising rule for all options.

There are two types of exercising rules available:

- 'Automatically generate option exercise orders for the in the money option contracts by a value equal or greater than the minimum tick size"; this option is set up by the trading administrator solely. You cannot set it changing the trading terminal settings.
- 'Reject exercise orders for the out of the money options'. This rule can be set by:
 - o the chief trader of CF the rule then will be applied to every account of the CF;
 - o the trader of BF the rule then will be applied to every account of the BF.

Both of these rules can be added at any time (for example, 1 or 2 days prior), but:

- the automatic order generation rule will be active during the evening clearing session only, on the option expiration day only;
- the orders rejection rule will be active at every clearing session, until the rule will be removed.

The rules are applied via the **automatic generation** (see section 7.2.2.1) or via the **option exercise orders** removing (see section 7.2.2.2) actions, during the clearing sessions.

Any rule can be attached to a particular Underlying contract, or to all Underlying contract at once. Once set, the rule will be active until being canceled.

The rules can be set in the **Management** window (**Management Management** main menu item) in the **Exercise** rules tab - for details see section 8.1.5.

7.2.2.1. Automatic order generation algorithm

The rule 'Automatically generate option exercise orders for the in the money option contracts by a value equal or greater than the minimum tick size.

On the option expiration day, in the clearing session, the following exercise orders will be generated:

• for the **PUT** options, when *Strike* > *Q*+*min_step*, where

Strike - option exercise price;

O - underlying futures contact settlement price

min_step - minimum tick size

• for the **CALL** options, where Strike < Q+min step.

7.2.2.2. Option exercise orders removing algorithm

When the rule 'Reject exercise orders for the out of the money options' is set, then the following orders will be rejected during the clearing sessions:

- for the PUT options, when Strike ≤ Q;
- for the **CALL** options, when $Strike \ge \mathbb{Q}$.

7.3. Volatility curve

The volatility curve is added for the put and call options with the same underlying futures and the same expiration date.

You can add the volatility curve using the **Add volatility curve** context menu item in the following windows:

- Financial instruments if an option instrument is selected;
- · Options board;
- · Your orders/requets if an option instrument is selected;
- Your trades/requets и All trades/requets if an option instrument is selected;
- · Market maker obligations for options.



Fig. 7.6. Volatility curve

Strike values are plotted along the vertical axis, while volatility percentage is plotted along the vertical axis.

When you points the curve with the mouse cursor, a red crosshair appears there along with the strike and its volatility values. The values are discrete, so that they may not match the axes coordinated.

Every time the volatility value changes, the volatility curve will be redrawn.

7.4. Options calculator

The Options calculator allows to analyze the option strategy.

The **Options calculator** window can be opened via the **Trading/ Options calculator** main menu item.

The option calculator window can be opened for a particular underlying asset from the drop-down list, which evokes once you put the mouse cursor over the **Options calculator** main menu item. There is a separate window for each underlying asset. You can open more than one **Options calculator** window at the same time.

The section **Real portfolio** displays data in a single client account. The client account can be selected from a drop-down list in the upper-right corner of the window. If you need to view data in your another account, you should change the account number in the current window or simply open one more Options calculator window.

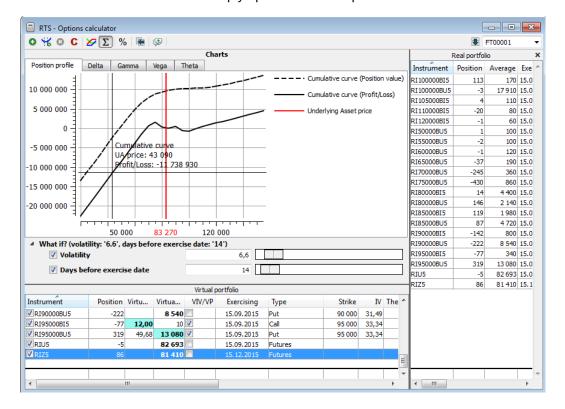


Fig. 7.7. Options calculator

The **Options calculator** window contains the following data:

- real portfolio the current positions for options and futures on the current account. If there is no client account selected, the real portfolio area will not be displayed;
- virtual portfolio forecast for instrument portfolio change (see section 7.4.2);;
- charts graphical charts for gains and losses, position worth and option greeks (see section 7.4.3);

The last lines in the **Real portfolio** and **Virtual portfolio** contain the total values for the columns; these lines are highlighted in yellow. The output string in the portfolio table displays greeks values only for active instruments.

You can hide the **Real portfolio** area by pressing a little cross button in the upper-right corner of the area; the field containing the client account number will then become empty. To open the **Real portfolio** area again, select a client account in the field of the upper-right corner of the **Options calculator** window.

The **Real portfolio** and **Virtual portfolio** tables contain the same set of parameters. You can specify set and order of parameters according to your needs via the **Window settings** context menu item of the **Columns** tab (see section 11.3).

Tab. 7.3. Parameters in the Options calculator window

Parameter	Details
Instrument	Instrument short code.
	The option specifies if the instrument's data will be added onto graphical chart or not.
	If the option is enabled, the instrument's data will be added onto the graphical chart.

Parameter	Details		
	If the option is disabled, the instrument's data will not be added onto the graphical chart.		
	This option is available in virtual portfolio only.		
Position	Current position.		
Virtual implied volatility	Virtual implied volatility (VIV).		
	By default, the field contains the implied volatility value (field IV).		
	This field is editable, so that you can add any implied volatility value.		
	If a value in the field VIV has been changed, the option VIV/VP becomes enabled automatically (if it was not enabled before). The field is highlighted with cyan colour, and its value freezes and gets unchangeable. According to this value, the values in the field VP , as well as the greeks, get recalculated, and the graphical charts get redrawn.		
	You can change the highlighting colour via the setting Active virtual value cell background colour (Settings/ Terminal settings , section Colours) - see section 10.4.		
	This option is available in virtual portfolio only.		
Virtual price	Virtual price - average-weighted (VP).		
	This parameter's value should be set multiple to the price tick value, and should meet the option price interval calculated at the maximum (1000) and minimum (1) volatility values. If you set an incorrect virtual price value, the value will be automatically equated to the closest valid value.		
	The default value is taken from the theoretical price value (field Theor. price) for options, and from the market quotation value (field Market quot.) for futures.		
	If a value in the field VP has been changed, the option VIV/VP becomes enabled automatically (if it was not enabled before). The field is highlighted with cyan colour, and its value freezes and gets unchangeable. According to this value, the values in the field VIV , as well as greeks, get recalculated, and the graphical charts get redrawn. You can change the highlighting colour via the setting Active virtual value cell background colour (Settings/ Terminal settings , section Colours) - see section 10.4.		
	When importing the real portfolio data into the virtual portfolio, the field will be filled in with the average-weighted position price value for open position. This option is available in virtual portfolio only.		
VIV/VP	Use virtual values for calculation.		
	When the option VIV/VP is enabled, it turns on the calculation mode for values in fields with greeks using the input values of the fields VIV and VP . The field used for calculation will be highlighted in cyan colour.		
	Enabling this option will lead to the following:		
	 if values in the fields VIV and VP were not specified before, than the field VIV adopts the current value from the field IV (implied volatility), 		
	 otherwise, a value from either field VIV or VP will be used. 		
	Strotyrise, a value from clinici ficia viv of vi will be asca.		

Parameter	Details		
	If the option VIV/VP is disabled, then values in the fields with greeks are calculated in accordance with incoming values in the fields IV and Theor. price		
	Once the option is disabled, the value freezes either in the field VIV or VP (the last edited one), and value is removed from the other field (VIV or VP , respectively). The fields VIV or VP are no more highlighted. This option is available in virtual portfolio only.		
Average	Average-weighted position price. This option is available in virtual portfolio only.		
Exercising	Instrument settlement date.		
Туре	Instrument type:		
	• futures;		
	option Call;		
	option Put.		
Strike	Option exercise price.		
Volatility	Option volatility. It displayed only in the real portfolio.		
IV Implied volatility.			
	This option is available in virtual portfolio only.		
Theor. price	Option theoretical price.		
Delta	Rate of option premium change relative to underlying asset price.		
Gamma	Rate of option delta change if underlying asset price has changed by 1.		
Vega	Rate of option delta change if volatility has changed by 1.		
Theta	Rate of option delta change relative to time (till expiration): amount of money the option loses per single day.		
Days to exercise date	Days before option exercise closing date.		
	Days before instrument exercise date (for futures).		
Buy	Best buy order price. This option is available in virtual portfolio only.		
Sell	Best sell order price. This option is available in virtual portfolio only.		
Price	Price of closing trade. This option is available in virtual portfolio only.		
Market quot.	Market quotation. This option is available in virtual portfolio only.		

The main operations are performed through the context menu commands or toolbar - see section 7.4.1.

7.4.1. Toolbar of Option calculator

Tab. 7.4. Toolbar in the Option calculator

Icon	Command	Hot keys	Details
	Add position into virtual portfolio (context menu		Open a window for adding new position into virtual portfolio - see section 7.4.2.

lcon	Command	Hot keys	Details
	should be opened in the virtual portfolio area)		
#		Ctrl+Alt+A	Add strategy to virtual portfolio.
O	Remove position from virtual portfolio (context menu should be opened in the virtual portfolio area)	Ctrl+Alt+R	Remove selected positions of virtual portfolio - see section 7.4.2.
C		Ctrl+Alt+C	Delete virtual portfolio data.
8		Ctrl+Alt+O	Add diagrams for selected positions of virtual portfolio - see section 7.4.3.
Σ		Ctrl+Alt+S	Add cumulative diagram for all positions of virtual portfolio - see section 7.4.3.
%		Ctrl+Alt+X	Switch H-scale values display mode for all charts
E		Ctrl+Alt+I	Load data from text csv-file into virtual portfolio - see section 7.4.2.1, deleting all data stored in your virtual portfolio.
©		Ctrl+Alt+T	Add orders on differences between real portfolio positions and virtual portfolio positions - see section 7.4.2.6.
■		Ctrl+Alt+D	Load real portfolio data into virtual portfolio, deleting all data stored in your virtual portfolio.

7.4.2. Virtual portfolio

The Virtual portfolio section allows to get forecast data for a possible portfolio change (see fig. 7.7).

You can edit records in the **Virtual portfolio** section. Only several parameters are editable: **Position**, **VIV** and **VP**. To edit a record, double-click it with the left mouse button, enter a new value and press **Enter**.

You can manage records in virtual portfolio using buttons in the instrument panel (see section 7.4.1) or context menu items (the context menu should be opened from the virtual portfolio area). Apart from executing the standard command **Window settings** (see Chapter 11), the context menu items allow to make the following:

- Add position into virtual portfolio see section 7.4.2.2;
- Remove position from virtual portfolio see section 7.4.2.4;
- Export You can export the virtual portfolio data into CSV file (see section 7.4.3).

The **Real portfolio** and **Virtual portfolio** tables contain the same set of parameters (see tab. 7.3). You can specify set and order of parameters according to your needs via the **Window settings** context menu item of the **Columns** tab (see section 11.3).

7.4.2.1. Import data into virtual portfolio

You can import data into virtual portfolio:

• from real portfolio by pressing the 🗷 button to load all data from real portfolio to virtual portfolio. The data from both portfolios are merged.

• from text csv-file by pressing the button on the local panel or by pressing the Ctrl+Alt+I key combination. This operation loads all data from csv-file to virtual portfolio, deleting all data stored in your virtual portfolio, A message appears on the screen: "Are you sure you want to import data into virtual portfolio? All previous data in virtual portfolio will be lost." To continue, press Yes, to cancel press No. To turn the confirmation message on or off, use the Confirmation when loading data from real portfolio to virtual portfolio from file (Settings/ Terminal settings option in the Option calculator section).

When you import data from text csv-file the fist screen is the window of selecting a file to import:

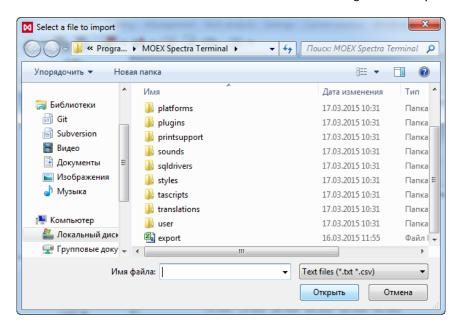


Fig. 7.8. Select a file to import

Select the import file and press the button Open.

Importing data via the Option calculator data importing Wizard:

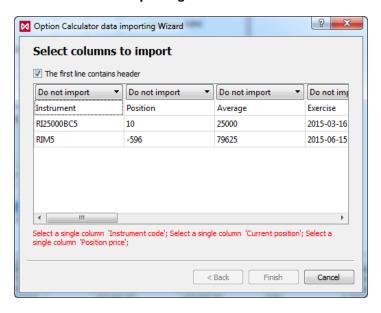


Fig. 7.9. Option calculator data importing Wizard. The first screen.

You should select columns to import data from.

Every column header contains a drop-down list, where you should select a value. Otherwise, select **Do not import**, if you do not need to import these data. Every value can be selected only once.

The fields below are mandatory:

- · Instrument code;
- · Current position;
- · Position price.

The mandatory fields are highlighted with red. After all the mandatory fields are filled in, the list below the table will disappear. To finish, press **Finish**:

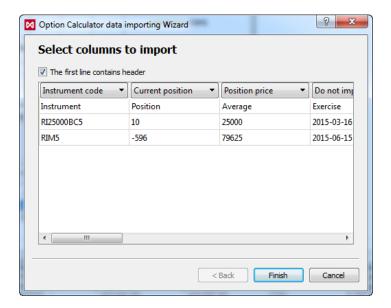


Fig. 7.10. Option calculator data importing Wizard. All the mandatory fields selected.

In case of any error (incorrect file, import parameters error, etc.), the import will be canceled. You will receive the error message like below:

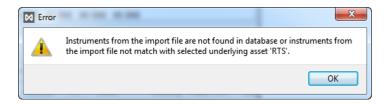


Fig. 7.11. Import error message

In this case, you should return to the initial step and try to refill all the fields correctly.

When import ended successfully, you will receive the following message:

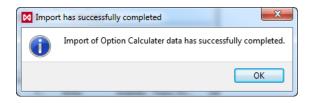


Fig. 7.12. Import completed successfully message

After that the downloaded data are immediately displayed in the **Virtual portfolio**, graphics rebuilt automatically. If the Virtual portfolio contained some data, they will be lost and replaced by imported.

7.4.2.2. Add position into virtual portfolio

You can add a new record into the virtual portfolio section by the following methods:

- by pressing the button on the local instrument panel;
- via the Add position into virtual portfolio context menu item (the context menu should be opened from the virtual portfolio section);
- by pressing the Ctrl+Alt+P key combination;
- drag record from Real portfolio to Virtual portfolio. If you need to drag more than one file, select the records you need to drag with mouse, holding the Ctrl & Shift keys pressed. It is possible to drag records of different client accounts from Real portfolios into the same Virtual portfolio. You can do this by selecting client account numbers from a drop-down menu in the Real portfolio area.

Before adding the position, you should fill in the following form:

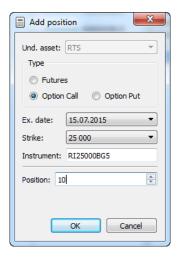


Fig. 7.13. Options calculator. Adding a position into virtual portfolio.

Tab. 7.5. Parameters in the Add position into virtual portfolio window

Parameter	Details
Und. asset	Selected underlying asset code.
Туре	Instrument type:
	• futures;
	• option Call;
	option Put.
Ex. date	Exercise date for futures and options.
Strike	Option exercise price. Not available for futures.
Instrument	Instrument code. Filled in automatically according to the exercise date and strike price.
Position	Position for the selected instrument to virtual portfolio.
	Positive value - buy position.

Parameter	Details
	Negative value - sell position.

7.4.2.3. Add strategy into virtual portfolio

You can add new positions into virtual portfolio in accordance with an appropriate option strategy by pressing the ****** button on the local panel or by pressing the **Ctrl+Alt+A** key combination.

A special window is used for selecting strategies:

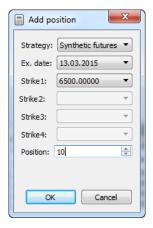


Fig. 7.14. Options calculator. Add strategy to virtual portfolio.

Tab. 7.6. Parameters of option strategy

Parameter	Details	-
Strategy	Option strategy to add positions into virtual portfolio.	
	Below is the list of standard option strategies:	
	one strike:	
	Synthetic futures	
	∘ Straddle	
	○ Strap/Strip	
	two strikes:	
	∘ Bull spread	
	∘ Bear spread	
	∘ Strangle	
	∘ Ratio spread	
	Ratio backspread	
	∘ Backspread	
	three strikes:	
	○ Butterfly	
	four strikes:	

Parameter	Details
	o Condor
Ex. date	Exercise date for futures and options.
	You can select more than one dates in the drop-down list (if available).
Strike 1	Option exercise price.
Strike 2	Option exercise price.
Strike 3	Option exercise price.
Strike 4	Option exercise price.
Position	Position for the selected strategy to virtual portfolio.
	Positive value - buy position.
	Negative value - sell position.

The number of fields **Strike** available for editing depends on the number of strikes in the selected strategy (strikes can be selected in the drop-down list).

Please note, that the rule *Strike 1* < *Strike 3* < *Strike 4* is applied to strikes. If this rule is violated, you will not be able to finalize adding positions as the **OK** button becomes inactive.

The selected strategy will be applied to the selected underlying asset with the opened window **Options calculator**.

New positions for the appropriate instruments will be added into **Virtual portfolio** according to the strategy selected. For every strategy, there are several records added into **Virtual portfolio**. For all options in the strategy the current market prices are used.

7.4.2.4. Remove position from virtual portfolio

You can delete records in the Virtual portfolio section by the following ways:

- by selecting the records and pressing the obutton on the local instrument panel;
- via the **Remove position from virtual portfolio** context menu item the mouse cursor should be placed over the record for deletion (or a group of records should be selected);
- · by selecting the records and pressing the Ctrl+Alt+R key combination;
- by selecting the records and pressing the **Delete** key;
- by pressing the **C** (Remove virtual portfolio data) button on the local instrument panel or by pressing the **Ctrl** +**Alt+C**. key combination. This action removes all records from the virtual portfolio section. A message appears on the screen: "Are you sure you want to delete all data of virtual portfolio?" To continue, press **Yes**, to cancel press **No**. To turn the confirmation message on or off, use the **Confirmation when deleting data from virtual portfolio** (**Settings/ Terminal settings** option in the **Option calculator** section).

If you need to delete more than one record, select them using the **Ctrl** and **Shift** key combination, then perform one of the operations listed above.

7.4.2.5. Virtual portfolio data export

You can export the virtual portfolio data into CSV file via the **Export** context menu item opened in the virtual portfolio area. Please note, that data from hidden columns will not be exported. Data from hidden parameters will not be exported as well.

The status of checkboxes (Enabled/Disabled) of the fields Instrument и VIV/VP will be inherited.

A detailed description of the procedure to export data - see section 5.12.

7.4.2.6. Generating real portfolio data based on virtual portfolio data

The Options calculator allows to compare the real portfolio data with the virtual portfolio data in order to check if there is any difference between orders that each portfolio contains. As a result, there will be generated a pool of orders which are absent in the real portfolio.

You can generate the pool of orders absent in the real postfolio by the following methods:

- by pressing the button in the local instrument panel !:
- · by pressing the key combination Ctrl+Alt+T.

The list of absent orders is displayed in a separate window **Postponed orders**:

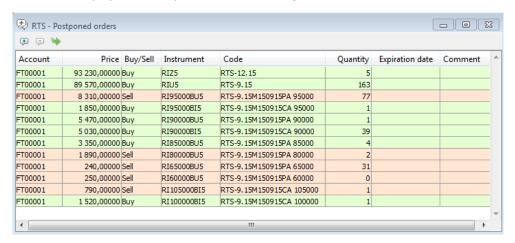


Fig. 7.15. Postponed orders

For more details about the window Postponed orders and ways of managing it see section 6.2.4.

Opened from the **Options calculator**, the window **Postponed orders** will contain orders for the underlying asset equal to that the Options calculator has been opened for. The underlying asset code is displayed in the header of the window **Postponed orders**.

Then, the pool of orders can be edited and added into the real portfolio (the orders are added into the Trading system) by pressing the button of the local instrument panel Send orders.

7.4.3. Charts in Options calculator

The **Charts** area consists of several tabs containing different chart types fig. 7.7:

- Position profile profits and losses (solid line) and virtual portfolio position worth (dashed line);
- · Delta, Gamma, Vega and Theta option greeks.

The red vertical line indicates the current price of the underlying asset (the nearest futures) in all charts.

To add a chart you should use buttons on the local instrument panel:

- - add a chart for particular positions of the virtual portfolio. Each position will have its own chart with its own color. The table left from the charts shows correlation between positions and colors. When you click a legend text with the left mouse button, it will highlight in yellow, and the appropriate chart will be marked bold. Using this method, you can select more than one chart at once;
- Σ add cumulative chart for positions of the virtual portfolio. If the \bowtie button is pressed, the cumulative chart will be added onto existing charts for particular positions. The cumulative chart is always displayed in black.

Charts adding options affect the whole **Charts** area.

Only virtual portfolio data are used for adding charts.

The H-axis in all tabs contains strike value, while the V-axis contains value of the parameter selected for adding chart. To switch display mode for the H-axis use either the button or the **Ctrl+Alt+X** key combination. There are two display modes available:

- strikes absolute values;
- absolute values with bias from the central strike value, in percent, where 0% correspond the central strike value.

When you place mouse cursor over a chart area, a crosshair appears on the screen displaying values for the particular point of the chart area: underlying asset price and profit, position worth or option greeks values. The displayed values may not correspond the precise axis coordinates; the prompting message will display the nearest value. The crosshair and message text color corresponds that of the chart.

You can zoom the chart in and out using mouse wheel.

You can move around the chart by clicking and holding the left mouse button.

There is an area **What if?** right above the virtual portfolio area, which allows to redraw the existing charts in accordance with the parameters **Volatility** or **Days before exercise date** values. To specify the parameter values, you should enable these parameters (one or two) first by ticking the appropriate checkbox. Then, you will be able to specify the values by typing them using keyboard or via a range-slider situated on the right side. Using keyboard, you can specify range of volatility values from -1000 to +1000, and exercise period range from -365 till +365. Using the slider, you can specify range of volatility values from 0 to +100, and exercise period range from 0 till +365. You can specify either a single parameter, or both parameters. These fields contain not absolute values but relative displacement.

If there is at least one parameter specified, its value will be displayed in brackets right to the label **What if?**. Note that the values remain visible even if you minimize the section **WHAT if?** by pressing the small triangle at the left side. To maximize the section back press the same small triangle again.

After parameters is enabled and specified, the charts for all instruments in the virtual portfolio will be redrawn in accordance rather to the selected volatility value or the selected exercise date.

The parameters checkboxes become available only if there is at least one option instrument added into the virtual portfolio.

Changing parameters of VIV and VP will also cause graphical charts to redraw (for details see tab. 7.3).

The charts can be exported into CSV file (see section 7.4.3.1) or JPG/PNG file (see section 7.4.3.2).

7.4.3.1. Charts export to text file format

The charts can be exported into CSV file. You can use the **Export** context menu item, opened in a chart area. The command affects all charts, i.e. all data of all charts will be exported.

```
UA price; Instrument; Profit/Loss; Position worth; Delta; Gamma; Vega; Theta
24 000; GZZ4; 9079215.00000; 21240885.00000; 0.00000; 0.00000; 0.00000; 0.00000
23 500; GZZ4; 8636715.00000; 20798385.00000; 0.00000; 0.00000; 0.00000; 0.00000
24 000; GZZ4; 8194215.00000; 20355885.00000; 0.00000; 0.00000; 0.00000; 0.00000
25 500; GZZ4; 7751715.00000; 19913385.00000; 0.00000; 0.00000; 0.00000; 0.00000
20 000; GZZ4; 7309215.00000; 19470885.00000; 0.00000; 0.00000; 0.00000; 0.00000
21 500; GZZ4; 6866715.00000; 19028385.00000; 0.00000; 0.00000; 0.00000; 0.00000
22 000; GZZ4; 6424215.00000; 18585885.00000; 0.00000; 0.00000; 0.00000; 0.00000
23 000; GZZ4; 53981715.00000; 18143385.00000; 0.00000; 0.00000; 0.00000; 0.00000
24 000; GZZ4; 5539215.00000; 17700885.00000; 0.00000; 0.00000; 0.00000; 0.00000
25 000; GZZ4; 5096715.00000; 17258385.00000; 0.00000; 0.00000; 0.00000; 0.00000; 0.00000
```

Fig. 7.16. Export CSV file for charts

7.4.3.2. Charts export to image file format

The charts can be exported into JPG or PNG file. You can use the **Save as** context menu item, opened in a chart area. The command affects only the charts in current tab.

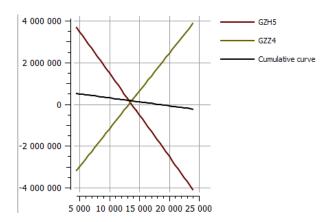


Fig. 7.17. Export JPG file for charts

Chapter 8. Management

The following functional windows are described in this chapter:

- Management see section 8.1;
- Pledges details see section 8.3;
- Prohibitions see section 8.2;
- Market maker obligation for futures see section 8.4;
- Market maker obligation for options see section 8.5;
- Requests to deposit/ withdraw funds see section 8.6.

8.1. Management window

The **Management** window provides access to administrative functions. To open the window, use the **Management/ Management** main menu item.

The window contains the following tabs:

- Card summary of client's limits see section 8.1.1;
- Limits client's limits see section 8.1.2;
- Spot limits on buying limits for buying the spot-instruments see section 8.1.3;
- Spot limits on selling underlying assets limits for sale see section 8.1.4;
- **Prohibitions on operations** prohibitions on operations see section 8.2;
- Exercise rules options exercise rules see section 8.1.5.

The left side of the account **Account** window contains the accounts list, which is the same for all the tabs. Depending on login used, the list may contain different client accounts:

• CF - information on all clients' accounts of all brokerage firms for this CF - see fig. 8.1 (CF - FT);

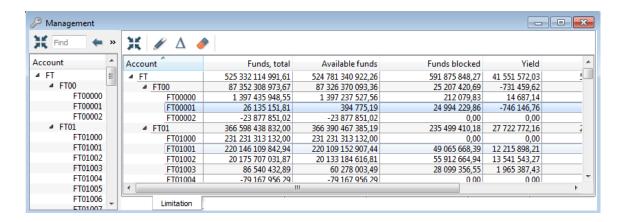


Fig. 8.1. Management window for CF

BF - information on all clients' accounts for this BF - see fig. 8.2(БΦ - FT06);

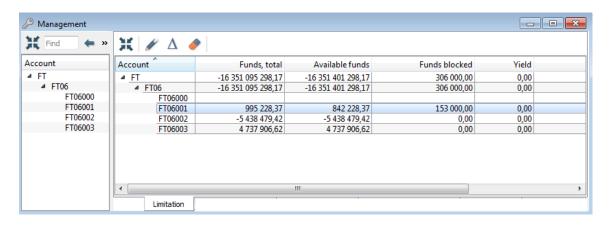


Fig. 8.2. Management window for BF

client - information on the client's account only - see fig. 8.3.

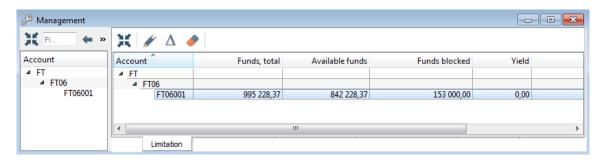


Fig. 8.3. Management window for client

You can use the contextual search option to find a particular account in the list; to do this, enter a sequence of characters in the appropriate field above and press or (forward or backward search direction, respectively). To jump to the next result press the forward or backward search button again.

You can specify different nesting depth for the left and right parts of the window:

- minimize group of records. All records of all levels will be minimized automatically;
- In a maximize group of records. The nested levels will not be maximized automatically: you should manually maximize every nested level;
- 🐹 or 🔀- minimize or maximize of all records of all levels. Button changes its appearance automatically.

The data in the right part of the window depends on the account selected in the left part of the window.

The upper line of the window contains the instrument panel. The structure of buttons depends on the active tab.

8.1.1. Client card

The Card tab of the Management window contains summary of the client, brokerage firm or clearing firm's limits.

This tab is merely an information window, which means that you cannot enter a new data into it or edit any existing data. To copy existing data use the **Copy** context menu item or the **Ctrl+C** key combination.

By using the Select All (Ctrl+A) context menu item, you can select all data in the current field.

The information in the tab depends on the current user login: CF, BF or client

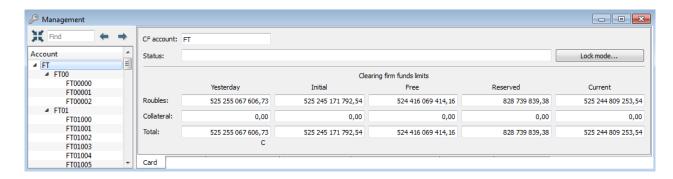


Fig. 8.4. Card tab for CF

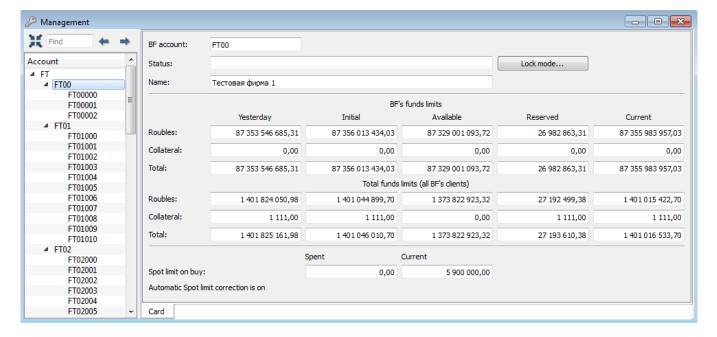


Fig. 8.5. Card tab for BF

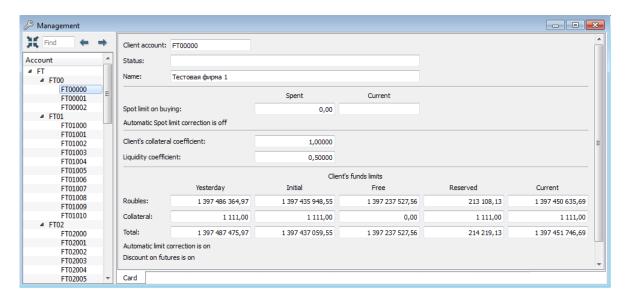


Fig. 8.6. Card tab for client

Tab. 8.1. Parameters in the Card tab

Parameter	Details	
General information on the client account		
Client account	Code of client account, code brokerage firm of clearing firm account depending on the client status.	
Status	Flag of accounting management for separate account.	
	Flag of accounting management, separate account, Lock mode by the Chief Trader or TS.	
	More than one flags can be set, separated with comma.	
Name	Client or brokerage firm's name.	
	Client's funds limits	
Yesterday	Yesterday's funds leftover on account.	
Initial	Initial amount of funds (at session start).	
Free	Amount of free funds.	
Reserved	Amount of reserved funds.	
Current	Amount of current funds.	
Roubles	Funds total.	
Collateral	Pledges.	
Total	Total (funds + pledges).	
	Client Parameters	
Spot limit on buy	Client limit on buying for spot-instruments: used and current (for the current session).	
Automatic Spot limit correction	Flag of automatic limits correction (for selling and buying) after the clearing session. The flag assigns order of changing spot-limits for the client:	
	off – the client limit will be set by firm basing on clearing reports;	
	• on – the client limit will be set automatically after the clearing session.	
	If the flag is on, the Automatic Spot limit correction is on line will be displayed.	
	If the flag is off, the Automatic Spot limit correction is off line will be displayed.	
Client collateral coefficient	Client's collateral coefficient - for managing collateral amount reserved for orders and positions of a particular client.	
	Once the coefficient value set, the collateral amount for the client's orders and positions will be calculated as product of the client's exchange collateral amount value and the coefficient set.	
Liquidity coefficient	The liquidity coefficient defines the proportion for withdrawal of reserved funds (Roubles/Collateral).	
Automatic limit correction	Flag of automatic limit correction after the clearing session:	
	off – the client limit will be set by firm basing on clearing reports;	
	• on – the client limit will be set automatically after the clearing session.	
	If the flag is on, the Automatic limit correction is on line will be displayed.	

Parameter	Details	
	If the flag is off, the Automatic limit correction is off line will be displayed.	
Discount on futures	The flag allows to use discount on futures when calculating collateral amount.	
	When the flag is set, the discount is used.	
	If the flag is on, the Discount on futures is on line will be displayed.	
	If the flag is off, the Discount on futures is off line will be displayed.	

The **Lock Mode** button is used by clearing and brokerage firms. When the **Lock mode** is on, all traders, except the Chief Trader (CT), are not allowed to act with orders. After pressing the **Lock mode** button, a dialog box appears on the screen, containing question "*Switch on the Lock mode?*". Answer **Yes** to switch the **Lock mode** on, or **No** to cancel. When the **Lock mode** is on, the participant's **Card** window contains the special mark **Lock mode (CT)** in the **Status** field.

To switch the **Lock mode** off, press the same button again.

Apart from the **Lock mode (CT)**, there is a possibility to prevent the Chief Trader to act with orders as well. This mode is called **Lock mode (TS)**, and can be set by the Trading Administrator when positions are closed compulsorily. When **Lock mode (TS)** is on, the **Status** field of the participant's **Card** window contains the appropriate mark. Please note, that the **Lock mode (TS)** cannot be switched on or off via the trading terminal!

8.1.2. BF and client limits

CF and BF trading limits are the funds deposited by the CF or the BF on their accounts in the exchange clearing center. By the BF funds we mean the whole amount of funds deposited on the BF clients accounts. By the CF funds we mean the whole amount of funds deposited on the CF clients accounts (brokerage firms), including the CF funds themselves.

Funds can be transferred by CF between its BF accounts (and the CF account, as well) during the trading session time. The total CF funds amount remain unchanged.

The trading limits are used for reserving negative variation margin, collecting fees, collecting/paying premiums and reserving collaterals.

The client limits can be set by the CF traders (the CF client limits) and BF traders (BF client limits). The BF limits can be set by the CF Chief Traders only if they are also allowed to withdraw funds from the trading system.

When limits are set, the CF funds remain unchanged.

If there is a funds or pledges limit set for a particular BF, some prior verifications will be performed. When an order is added into the trading system, the system will verify sufficiency of free funds on the BF account, then sufficiency of free funds on the CF account (the sum of free funds of all the CF's BF + free funds of the CF itself). Please note, that if the free funds amount on the BF account is insufficient, only orders adding for closing positions is allowed.

The trading limit for client is specified by BF or CF. When an order is added into the trading system, the system will verify sufficiency of funds for the client. If no client limits have been specified, the system performs verification for the BF and its CF. Generally, the order will be added only if all three participants (client, BF and CF) have enough funds.

If the limits set to 0, only closing of positions is allowed.

If limits are not set, it means that there are no any limitations for trading.

The client's and BF's limits are displayed in the **Management (Management/ Management)** window in the **Limitation** tab:

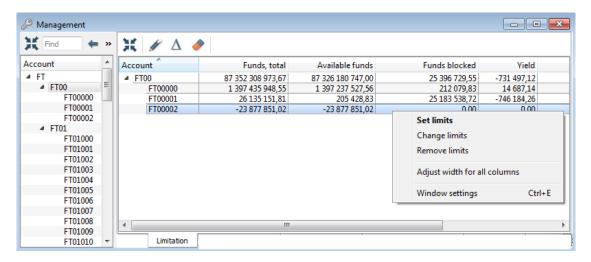


Fig. 8.7. Limitation

Tab. 8.2. Parameters in the Limitation tab

Parameter	Details	
Account	Customer account.	
Funds, init.	Funds at session start.	
Funds, total	Funds limit for the particular client.	
Available funds	Amount of free funds on the client account.	
Funds blocked	Amount of blocked funds on the client account.	
Collaterals, init.	Partial collateral pledges at session start.	
Collaterals, total	Partial collateral pledges, total.	
Available collaterals	Partial collateral pledges, idle.	
Coll. blocked	Partial collateral pledges, blocked.	
Spot, total	Limit on buying Spots.	
Spot limit spent	Limit for buying Spots (spent).	
VM reserved	Funds reserved for negative variating margin of closed positions.	
VM	Variating margin collected or accrued in the intermediate clearing session.	
Fee	Collected fee.	
Reserved fee	Amount of order fee reserve blocked.	
Collateral rate	Client collateral rate - for managing collateral amount reserved for orders and positions of a particular client. Once the coefficient value set, the collateral amount for the client's orders and positions will be calculated as product of the client's exchange collateral amount value and the coefficient set.	
Liquidity rate	The liquidity rate defines the proportion for withdrawal of reserved funds (Roubles/Collateral).	
Correction	 Flag of automatic limit correction after the clearing session: off – the client limit will be set by firm basing on clearing reports; on – the client limit will be set automatically after the clearing session. 	
Spot correction	 Flag of automatic spot limit correction after the clearing session: off – the client limit will be set by firm basing on clearing reports; on – the client limit will be set automatically after the clearing session. 	

Parameter	Details	
Limits	Funds and pledges limits set: set or none.	
Premium	Premium.	
Premium reserved	Premium reserved for orders.	
Balance	Balance of monetary transactions per current session.	
Reserved negative VM	Funds reserved for negative variating margin of orders.	
Initial	Funds and pledges (initially).	
Total	Funds and pledges (total).	
Free	Funds and pledges (idle).	
Blocked	Funds and pledges (blocked).	
Yield	Funds idle + Funds blocked + Reserved - Funds total + Reserved blocked	
Reserve	Funds and pledges blocked + Reserved blocked	
Discount	The flag allows to use discount on futures when calculating collateral amount.	
	When the flag is set, the discount is used.	
Full collateral pledges	Estimated value of full collateral pledges, total.	
Clearing sessions to exercise scenario	Number of clearing sessions to activate exercise scenarios to calculate risks for the non-quarterly series of options with the closest expiration date for this account.	
Exercise scenario	Exercise scenarios to calculate risks for the non-quarterly series of options with the closest expiration date is on.	
Main currency initial	Main currency initial amount.	
Main currency total	Main currency total amount.	

The **Limitation** tab allows you to do the following:

- set, change and remove the limits for clients and BFs (separately for funds and pledges);
- Strengthen or ease limiting conditions for the client collateral by specifying a special coefficient; the collateral sufficiency will be verified using this coefficient value;
- · automatically set the clients limits basing on results of the previous trading session;
- · funds transfer between BFs.

All the actions listed above are performed via the special entry and edit forms, which can be opened by using the appropriate context menu items or pressing the appropriate buttons on the **Limitation** panel.

Along with the standard commands, the context menu (see g11) contains the following commands:

- Set limits (the default command, can be performed by double-clicking the left mouse button on a record) see section 8.1.2.2 and section 8.1.2.3;
- Change limits see section 8.1.2.4. This menu item is available for client accounts only;
- Remove limits see section 8.1.6. This menu item is available for client accounts only;
- Transfer funds see section 8.1.2.5. This menu item is available for BF only.

By double-clicking a client record in the **Limitation** table, the edit form will appear on the screen.

Records in the **Limitation** table can be sorted only by their account numbers. To switch between sorting directions, click the **Account** column header with the left mouse button.

8.1.2.1. Toolbar of the Limitation tab

Tab. 8.3. Toolbar in the Limitation tab

Icon	Command	Details
ж	Minimize clients	Minimizes or maximizes all records of all levels.
#	Set limits	Opens the window for setting client limits - see section 8.1.2.2.
Δ	Change limits	Opens the window for changing the existing client limits - see section 8.1.2.4;
•	Remove limits	Generates a request for removing client limits - see section 8.1.6.

8.1.2.2. Setting the client limits

You can open the client limits adding form by one of the following methods:

- via the Set limits context menu item, which has been opened from a client account record in the Limitation table.
 The entry form (fig. 8.8) will appear on the screen containing a value in the Account field. This value cannot be changed;
- via the **b**utton in the **Limitation** tab (fig. 8.7).

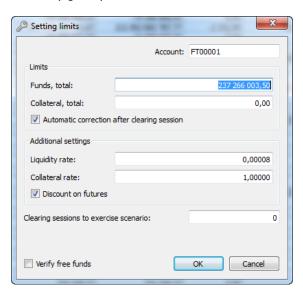


Fig. 8.8. Setting the client limits

If no limits have been specified for the account, fields in the **Setting limits** form will be blank. The mandatory fields will be highlighted with red colour.

If some limits have been already specified, then the **Setting limits** form will appear on the screen, containing the limits data. You can edit values in the fields, if necessary.

In order to manage collateral collateral amount reserved for orders you can specify a coefficient. Once the coefficient value set in the **Collateral rate** field, the collateral amount for the client's orders and positions will be calculated as product of the client's exchange collateral amount value and the coefficient set.

Tab. 8.4. Parameters in the Setting limits window for clients

Parameter	Details	
Account	Client account.	

Parameter	Details	
Limits		
Funds, total	Funds limit. The field is mandatory.	
Collaterals, total	Collateral limit. The field is mandatory.	
Automatic correction after clearing session	Flag of automatic limit correction after the clearing session:	
	 none – the client limit will be set by firm basing on clearing reports; 	
	auto – the client limit will be set automatically after the clearing session.	
	Additional settings	
Liquidity rate	The liquidity coefficient defines the proportion for withdrawal of reserved funds (Roubles/Collateral).	
Collateral rate	Client's collateral coefficient - for managing collateral amount reserved for orders and positions of a particular client.	
	Once the coefficient value set, the collateral amount for the client's orders and positions will be calculated as product of the client's exchange collateral amount value and the coefficient set.	
Discount on futures	The flag allows to use discount on futures when calculating collateral amount.	
	When the flag is set, the discount is used.	
Cliaring sessions to exercise scenario	Number of clearing sessions to activate exercise scenarios to calculate risks for the non-quarterly series of options with the closest expiration date for this account.	
Verify free funds	When the option is on, the limit value cannot exceed the reserved funds volume for the particular client account.	
	When the option is off, the limit value can exceed the reserved funds volume for the particular client account.	

Press **OK** to confirm changes ans set the limit for the client account, or **Cancel** to undo the changes.

8.1.2.3. Setting BF limits

You can open the BF limits adding form by one of the following methods:

- via the **Set limits** context menu item, which has been opened from a BF account record in the **Limitation** table. The entry form (fig. 8.9) will appear on the screen containing a value in the **Account** field. This value cannot be changed;
- via the button in the **Limitation** tab (fig. 8.7).

Please note, that to specify the spot limits for a BF firm, you must be granted with the administrator's rights.

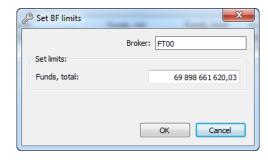


Fig. 8.9. Setting BF limits

Tab. 8.5. Parameters in the Setting BF limits window

Parameter Details		
Broker	BF account number	
Set limits		
Funds, total	Funds limit. The field is mandatory.	

Press **OK** to confirm changes ans set the limit for the BF account, or **Cancel** to undo the changes.

8.1.2.4. Changing client limits

You can change client limits by one of the following methods:

- via the **Set limit** context menu item, which has been opened from a client account record in the **Limitation** table. The entry form (fig. 8.8) will appear on the screen containing a value in the **Account** field. The limit value can be edited before clicking **OK**. This command is set as the default and can be opened by double-clicking an account record in the table (fig. 8.7) with the left mouse button;
- via the **Change limit to** context menu item, which has been opened from a client account record in the **Limitation** table. The entry form (fig. 8.10) will appear on the screen containing a value in the **Account** field (the value cannot be changed). In this form, you should enter a value to increase/decrease the current limit by.
- by pressing the \triangle button on the local instrument panel in the **Limitation** tab (fig. 8.7).

To open the limit changing form you should use the context menu item or the instrument panel only:

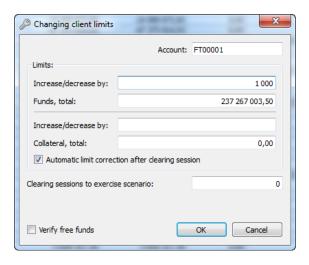


Fig. 8.10. Changing client limits

The limits changing form (fig. 8.10) is generally equal to the limits setting form (fig. 8.8). The field description can be found at tab. 8.4.

The only difference between the forms is the **Increase/decrease by** field in the limit changing form. After you entered a value into the **Increase/decrease by** field, the limit value in **Funds**, **total** or **Collaterals**, **total** fields will be recalculated automatically.

Also, here you can set or remove the Automatic correction after clearing session and Verify free funds flags.

8.1.2.5. Funds transfer between BFs

There are two methods to transfer funds from one BF account to another (please note, that cursor must be placed over the line containing BF account number!):

- via the **Transfer funds** context menu item, opened on the line containing BF account number to withdraw funds from, on the **Limitation** tab of the **Management** window;
- via the \triangle button of the local instrument panel on the **Limitation** tab (fig. 8.7). Please note, that if cursor is placed over the line containing account number of a common client or CF, the \triangle button will execute the **Change limits** command!

To transfer funds between two BFs, you must fill in the following form:

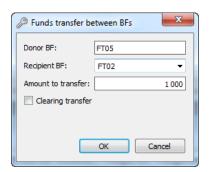


Fig. 8.11. Funds transfer between BF

Tab. 8.6. Parameters in Funds transfer between BF window

Parameter	Details	
Donor BF	Donor BF account number	
Recipient BF	Recipient BF account number	
Amount to transfer	Amount of funds to transfer	
Clearing transfer	If the Clearing transfer flag is set, the funds will be transferred both during the trading session and clearing session. If the Clearing transfer flag is not set, the funds will be transferred during the clearing session only (the client will be credited). Transferred funds can be transferred onto another account during the trading session by CF order. Once funds have been transferred, they can be withdrawn to the client account exclusively. The option allows to protect the transferred funds from being eliminated within the evening clearing session.	

To transfer funds, press **OK**. The confirmation dialog will appear on the screen: "*Are you sure you want to transfer ... from BF... to BF ...?*". To confirm press **Yes**, to cancel press **Cancel**.

To switch off the confirmation dialog, please enable the **Do not show next time** option. To switch the confirmation dialog on again, enable the **Confirmation on working with limits** option via the **Settings/ Terminal settings**main menu item of the **Management** section.

Funds can be transferred from any account (common, AM or separate one) onto any account.

In case of separate account, funds can be transferred via the clearing transfer or be credited during the trading session (the credit amount will be then refunded). Please note, that the amount to transfer from the separate account should not exceed the amount credited by Clearing firm! After starting a trading session, the funds transfer balance will be set to 0.

8.1.3. Spot limits on buying

The spot limits can be set only along with the main limits. Having no main limits set, it is unable to set the spot limits.

The spot limits values are displayed in the **Management (Management/ Management)** window, in the **Spot limits on buying** tab:

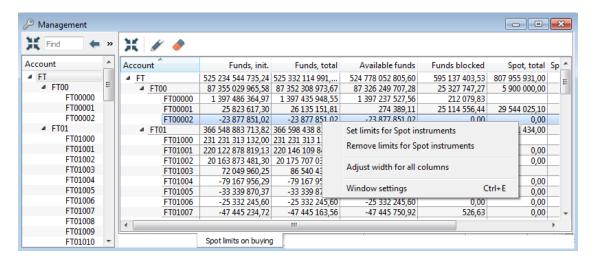


Fig. 8.12. Spot limits on buying

Tab. 8.7. Parameters in the Spot limits on buying tab

Parameter	Details	
Account	Client account.	
Funds, init.	Funds at session start.	
Funds, total	Funds, total.	
Available funds	Available funds.	
Funds blocked	Funds blocked.	
Collaterals, init.	Partial collateral pledges at session start.	
Collaterals, total	Partial collateral pledges, total.	
Available collateral	Partial collateral pledges, idle.	
Coll. blocked	Partial collateral pledges, blocked.	
Spot, total	Limit on buying Spots.	
Spot limit spent	Limit for buying Spots (spent).	
VM reserved	Funds reserved for negative variating margin of closed positions.	
VM	Variating margin collected or accrued in the intermediate clearing session.	
Fee	Collected fee.	
Reserved fee	Amount of order fee reserve blocked.	
Collateral rate	Client collateral coefficient - for managing collateral amount reserved for orders and positions of a particular client.	
	Once the coefficient value set, the collateral amount for the client orders and positions will be calculated as product of the client's exchange collateral amount value and the coefficient set.	
Liquidity rate	The liquidity coefficient defines the proportion for withdrawal of reserved funds (Roubles/Collateral).	
Correction	Flag of automatic limit correction after the clearing session:	
	• none— the client limit will be set by firm basing on clearing reports;	
	• auto – the client limit will be set automatically after the clearing session.	
Spot correction	Flag of automatic spot limit correction after the clearing session:	
	none— the client limit will be set by firm basing on clearing reports;	

Parameter	Details	
	auto – the client limit will be set automatically after the clearing session.	
Discount	The flag allows to use discount on futures when calculating collateral amount.	
	When the flag is set, the discount is used.	
Limits	Funds and collateral limits: set or none .	
Premium	Premium value	
Premium reserved	Premium reserved for orders.	
Balance	Balance of monetary transactions per current session.	
Reserved negative VM	Funds reserved for negative variating margin of orders.	
Initial	Funds and pledges (initially).	
Total	Funds and pledges (total).	
Free	Funds and pledges (idle).	
Blocked	Funds and pledges (blocked).	
Yield	Funds idle + Funds blocked + Reserved - Funds total + Reserved blocked	
Reserve	Funds and pledges blocked + Reserved blocked	
Full collateral pledges	Estimated value of full collateral pledges, total.	
Main currency initial	Main currency initial amount.	
Main currency total	Main currency total amount.	

Using the Spot limits on buying tab, you can do the following:

- · set limits for the spot-instruments;
- · remove limits for the spot-instruments.

To set/remove the spot limits you should use the appropriate context menu items or the appropriate buttons on the local instrument panel, in the **Spot limits on buying** tab.

Along with the standard commands (see Chapter 11), the context menu contains the following ones:

- Set limits for Spot instruments see section 8.1.3.2;
- Remove limits for Spot instruments see section 8.1.6. This command is available only if the context menu opens from a account record, to which some limits had been already set.

By double-clicking a client record in the **Spot limits on buying** table, the edit form will appear on the screen.

Records in the **Spot limits on buying** table can be sorted only by their account numbers. To switch between sorting directions, click the **Account** column header with the left mouse button.

8.1.3.1. Toolbar of the Spot limits on buying tab

Tab. 8.8. Toolbar in tab Spot limits on buying

lcon	Command	Details
ж	Minimize clients	Minimizes or maximizes all records of all levels.
W	Set limits for Spot instruments	Opens the spot-limits adding window - see section 8.1.3.2.
	Remove limits for Spot instruments	Removes the spot-limits - see section 8.1.6.

8.1.3.2. Setting Spot limits on buying

To set the spot-limits, a user should be granted with sufficient rights.

You can open the client limits adding form by one of the following methods:

- via the Set limits context menu item, which has been opened from a client account record in the Spot limits on buying table;
- via the button in the **Spot limits on buying** tab (fig. 8.12).

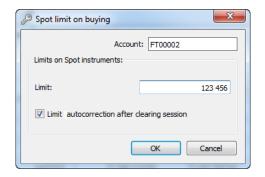


Fig. 8.13. Setting Spot limit on buying

Tab. 8.9. Parameters in window Spot limit on buying

Parameter	Details	
Account	Client account.	
Limits on Spot instruments		
Limit	Client Spot limit on buying.	
Limit auto correction after clearing session	Flag of automatic limit correction by the income value after the clearing session:	
	 none – the client limit will be set by firm basing on clearing reports; 	
	• auto – the client limit will be set automatically after the clearing session.	

Press OK to confirm changes ans set the limit for the BF account, or Cancel to undo the changes.

8.1.4. Spot limits on selling

Among the general trading limits for clients and BF, there are some special limits for performing spot-operations. The BF is allowed to set limits to its client (or the CF to BF) for selling shares (underlying asset) in lot volume to be sold during a single trading session. When the limit is reached, the user will receive a error message, and the order will not be added. To set the limits on underlying assets, the administrator must be granted with special rights.

The limit can be set for a particular client on a particular underlying asset. The client and UA codes can be selected in the drop-down lists in the top of the form.

THe UA limits are displayed in the **Management (Management/ Management)** window, in the **Spot limits on selling** tab:

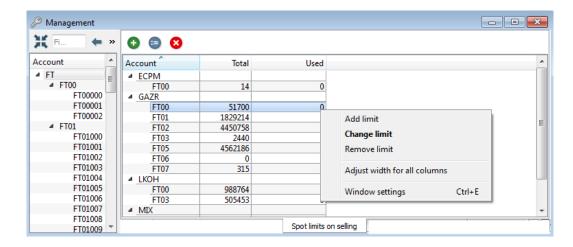


Fig. 8.14. Spot limits on selling

Tab. 8.10. Parameters in the Spot limits on selling tab

Parameter	Details	
Account	Client account.	
	The client accounts are grouped by their underlying assets, i.e., the client accounts are listed below the UA code they are limited.	
UA	Underlying asset code.	
Total	Limit on opening sell positions on RTS Standard for the current share (underlying asset).	
Used	Used limit on opening sell positions on RTS Standard for the current share.	

Along with the standard commands (see Chapter 11), the context menu contains the following ones:

- Add limit see section 8.1.4.2;
- Change limit (the default action) by double-clicking a record with the left mouse button (fig. 8.15). The fields will contain values for the selected record;
- Remove limit see section 8.1.6.

Records in the **Spot limits on selling** tab are sorted by the underlying asset code. You can change the sorting order by clicking the **Account** column header with the left mouse button.

8.1.4.1. Toolbar in the Spot limits on selling tab

Tab. 8.11. Toolbar in the Spot limits on selling tab

lcon	Context menu command	Details
0	Add limit	Opens the UA limits adding window - see section 8.1.4.2.
•	Change limit	Opens the limits editing window.
8	Remove limit	Removes the existing limit - see section 8.1.6.

8.1.4.2. Setting Spot limit on selling

For setting and editing the spot limits on selling for underlying asset, you should use the special form:



Fig. 8.15. Setting Spot limit on selling

Tab. 8.12. Parameters in the Spot limit on selling window

Parameter	Details	
Account	Client account.	
Underlying asset	Underlying asset code.	
Amount	Limit on the selected underlying asset – in lots.	

When adding a limit, the adding form has only the **Account** field filled according to the account number in the selected record. You can change the account number by selecting a new value in the drop-down list.

In the editing mode((the **Change** command), all the fields of the forma are filled. The only field you can change is **Amount**.

Press **OK** to confirm changes ans set the limit for the BF account, or **Cancel** to undo the changes...

8.1.5. Options exercise rules

The option exercise rules (see section 7.2.2) are displayed in the **Management (Management/ Management)** window, in the **Exercise rules** tab:

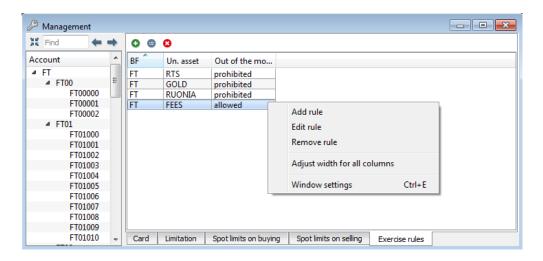


Fig. 8.16. Options exercise rules

Each rule either allows or prohibits exercising out-of-the-money option contracts for a particular underlying asset for a particular Brokerage Firm.

Tab. 8.13. Parameters in the Exercise rules tab

Parameter	Description
BF	Brokerage firm code.

Parameter	Description	
Un. asset	Underlying asset.	
	If there is no particular underlying asset code specified, than all underlying assets are subject to the rule.	
Out of the money	Allowance of out of the money exercise:	
	• allowed;	
	• prohibited.	

By using the **Exercise rules** tab, you can dot the following operations via the context menu items or the instrument panel buttons:

- Add rule • see section 8.1.5.2;
- Edit rule - the same exercising rule adding form (see section 8.1.5.2) will appear on the screen. Please note, that you cannot change the **Underlying asset** field value;
- Remove rule 8 see section 8.1.6.

You can sort records in the **Exercise rules** tab by any column in any direction. To change the sorting direction, click a column header with the left mouse button. The column header then will be marked in light-blue colour, and a small arrow will appear, which shows the sorting direction.

8.1.5.1. Toolbar in the Exercise rules tab

Tab. 8.14. Toolbar in the Exercise rules tab

lcon	Context menu command	Details
•	Add rule	Opens the rule adding window - see section 8.1.5.2.
(=)	Edit rule	Opens the adding rule window. The Underlying asset field value cannot be changed - see section 8.1.5.2.
8	Remove rule	Opens the rule removing window - see section 8.1.6;

8.1.5.2. Setting a new options exercise rule

You can set new option exercise rules by the following methods:

- · via the Add rule context menu item opened in the right side of the window;
- by pressing the button on the local instrument panel.



Fig. 8.17. Setting a new options exercise rule

Tab. 8.15. Parameters in the New rule window

Parameter	Details	
Underlying asset	The underlying asset code to set the exercise rule for. Can be selected in the drop-down list.	
	If there is no particular underlying asset code specified, than all underlying assets are subject to the rule.	
Prohibit out of the money options expiration	When on, it is prohibited to exercise the out of the money options.	
tions expiration	When off, the exercise the out of the money options is available.	

Upon adding a new rule, you will receive a confirmation message like the following: "Are you sure you want to set the automatic option exercise rule?". To confirm press **Yes**, to cancel press **No**. The confirmation dialog settings can be specified via the **Confirmation on working with fulfilment rules** (**Settings/ Terminal settings/ Management**) option.

When you add a new rule for the BF account - underlying asset pair, the previously added rule will be replaced by the new one.

The already existing rules can be edited via the **Edit rule** context menu item or by pressing the button on the local instrument panel. Please note, that you will not be able to edit the **Underlying asset** field value.

8.1.6. Removing limits, prohibitions and rules

After removing a limit, the account will not be verified before adding orders.

You can remove limits by the following methods:

- via the context menu item, when the context menu was opened from the account records you want to remove limit
 for: Remove limits (in the Limitation tab), Remove limits for Spot instruments (in the Spot limits on buying
 tab), Remove limit (in the Spot limits on selling tab), Remove prohibition (in the Prohibitions on operations
 tab), Remove rule (in the Exercise rules tab), Remove price (in the Exercise prices tab);
- by pressing the buttons on the local instrument panel: (general limits and spot-limits on buying), (spot-limits on buying, prohibitions, rules and exercise prices).

Upon adding a new rule, you will receive a confirmation message like the following: "Are you sure you want to remove all client limits for account ...?" or "Are you sure you want to remove the rule...?"... To confirm press **Yes**, to cancel press **No**.

You can disable the confirmation message by activating the **Do not show next time** option in the removing window. To put the confirmation message back you should use the **Confirmation on working with fulfilment rules/ limits/ prohibitions** option via the **Settings/ Terminal settingsMOEX Spectra Terminal/ Preferences/** main menu item, the **Management** section.

8.2. Prohibitions on operations for clients

When working with the trading terminal, you are allowed to add some additional limits on performing the trading operations called prohibitions.

Prohibitions on futures are set separately from that on options.

You can set more than one prohibition for a same client code at once.

In case you have a general prohibition and a particular prohibition set for the same client, the particular prohibition is always prioritized. For example, if you have set a general prohibition on opening positions for all clients, you are can to specify some client codes allowed to open positions.

Upon adding a new order, the system verifies if there are prohibitions had been set. In case of prohibition on adding the order, the trading system returns an appropriate message.

By default, all traders are allowed to set prohibitions to their clients. If you need to restrict the trader's rights for setting prohibition, you should apply to the trading system administrator.

Prohibitions are displayed in the **Prohibitions** (main menu item **Management**) window:

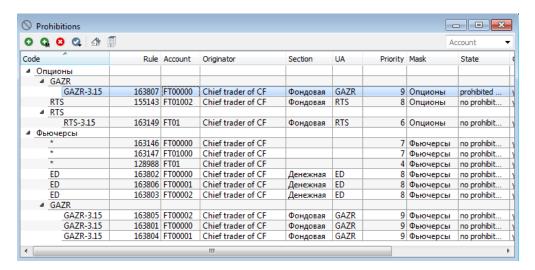


Fig. 8.18. Window Prohibitions

Tab. 8.16. Parameters in the Prohibitions window

Parameter	Details	
Code	Instrument code.	
	Instruments are grouped separately by futures and options. Among each group, the instruments are grouped by UA, then by particular instruments	
	The * flag means that the prohibition is extended to all instruments in the group (futures or options).	
Instrument	Instrument code.	
Rule	Rule number - set automatically.	
Account	Client account under the prohibition.	
Originator	Originator of prohibition (indicates whether it is allowable to cancel the prohibition): BF, CF chief trader, administrator.	
Section	Stock market section under the prohibition:	
	money;stock;	
	• commodities.	
UA	Underlying asset code.	
Priority	Prohibition priority. The bigger the number, the higher the priority.	
Mask	Instrument type bitmask.	
Status	Prohibition type:	
	no prohibitions;	
	all trading operations are prohibited;	

Parameter	Details	
	prohibited to open positions;	
	prohibited to open sale positions.	
Compatibility	Flag of previous prohibition mode.	
Exercise	Prohibited to add orders for option exercise:	
	allowed - exercise is allowed;	
	prohibited - exercise is prohibited.	
BF	Adding options exercise requests is prohibited by Brokerage Firm.	
	The prohibition is equal to that for adding all other orders. The Chief trader's rights are not covered by this prohibition.	
СТ	Adding options exercise requests is prohibited by Brokerage Firm. by Chief Trader.	
	The Chief trader's prohibition to exercise options. The Chief Trader's rights are not covered by this prohibition.	

By using the **Prohibitions** window, you can do the following operations via the context menu items or the instrument panel buttons :

- Add prohibition • see section 8.2.2;
- Add group of prohibitions • see section 8.2.3;
- Remove prohibition See section 8.1.6;
- Status - change prohibition see section 8.2.4;
- Options exercise prohibition by BF - prohibition on adding option exercising orders, set by BF see section 8.2.5;
- Options exercise prohibition by CT III prohibition on adding option exercising orders, set by CF see section 8.2.5.

You can sort the records in the **Prohibitions** window by every parameters, separately for options and futures group. You can change the sorting direction by clicking the column header with the left mouse button.

8.2.1. Toolbar of the Prohibitions window

Tab. 8.17. Toolbar of the Prohibitions window

Icon	Context menu item	Details
•	Add prohibition	Opens the prohibition adding window - see section 8.2.2.
Q	Add group of prohibitions	Opens the group of prohibition adding window - see section 8.2.3.
8	Remove prohibition	Request to remove prohibitions - see section 8.1.6.
0.	Status	Opens the list of prohibitions, where you can add a new prohibition in a fast way see section 8.2.4.

Icon	Context menu item	Details
a	Options exercise prohibition by BF	Adds BF prohibition on option exercising - see section 8.2.5.
M	Options exercise prohibition by CT	Adds CF prohibition on option exercising - see section 8.2.5.

8.2.2. Setting prohibitions for operations

You can set prohibitions by the following methods:

- via the Add prohibition context menu item, opened on the Prohibitions window;
- by pressing the appropriate button on the instrument panel •.

Before adding a prohibition, you should select an account to apply the prohibition to. The account code will be displayed in the **Account** field of the prohibition adding form; you can edit the existing code or select a new one in the dropdown list, if needed.

To set prohibitions on operations, you should use the special form:

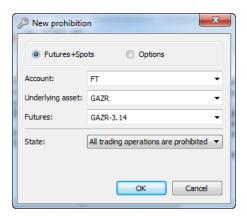


Fig. 8.19. Setting prohibitions on operations

Tab. 8.18. Parameters in the New prohibition window

Parameter	Details
Futures+Spots	Specifies the instrument type to set the prohibition on:
or	futures and spots (by default);
Options	• options.
Account	Client account code, can be selected in the drop-down list.
Underlying asset	Underlying asset code, can be selected in the drop-down list.
Futures	The futures code, used to set the prohibition for the selected account. You can select a futures code in the drop-down list according to the EA. The Underlying asset field will be filled in automatically after selecting a futures.
State	Prohibition type:
	no prohibitions;
	all trading operations are prohibited;
	prohibited to open positions;

Parameter	Details
	prohibited to open sale positions.

Press **OK** to confirm, or **Cancel** to undo all changes.

8.2.3. Setting group of prohibitions

A group of prohibitions means the same prohibition applied to more than one client accounts for more than one instruments at once.

You can set prohibitions by the following methods:

- · via the Add group of prohibitions context menu item, opened on the Prohibitions window;
- ullet by pressing the appropriate button on the instrument panel ullet.

To set prohibitions on operations, you should use the special form:

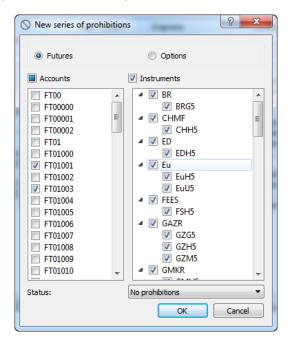


Fig. 8.20. Setting group of prohibitions

Tab. 8.19. Parameters in the New group of prohibitions window

Parameter	Details
Futures	Specifies the instrument type to set the prohibition on:
or	futures (by default);
Options	• options.
Accounts	Clients accounts codes.
	The ticked accounts are subject to the selected set of prohibitions.
Instruments	Underlying assets codes or instruments codes, can be selected in the drop-down list.
	The ticked instruments are subject to the selected set of prohibitions.
	To tick all instruments of the same underlying asset, simply tick the underlying asset itself.

Parameter	Details
Status	Prohibition type:
	• no prohibitions;
	all trading operations are prohibited;
	 prohibited to open positions;
	prohibited to open sale positions.

In the entry form, you can turn on and off highlight option for all client accounts and all instruments at once. To do this, you should add or remove the appropriate flags in the fields above the accounts and instruments lists.

Press **OK** to confirm, or **Cancel** to undo all changes.

8.2.4. Change prohibition

You can change existing prohibitions by selecting an appropriate record in the **Prohibitions** window. There are several ways to do this:

- · via the Status context menu item opened in the right side of the window;
- by pressing the appropriate button in the local instrument panel .

After that, the list of available prohibitions will appear on the screen. You should select a new prohibition in the list and click it with the left mouse button.

Upon changing the prohibition, the warning message will appear on the screen: "Are you sure you want to change the prohibition ...?". Press **Yes** to confirm, or **No** to cancel.

8.2.5. Prohibitions on adding option exercising orders

You can set prohibition on adding option exercising orders for client accounts. The prohibition can be set by BF and CF (Chief Trader). These both prohibitions can be set simultaneously for the same client.

The CF prohibition has the higher priority rate than that of BF. Therefore, BF prohibition does not cover CF, and can be removed by CF, while the CF prohibition does not cover the CF itself and cannot be removed by BF.

Before setting a prohibition, you should select either an account number or a prohibition in the appropriate list.

You can set a prohibition on adding option exercise orders by the following ways:

- via the Options exercise prohibition by BF and Options exercise prohibition by CT context menu item;
- by pressing the
 and
 buttons of the local instrument panel, respectively.

Upon setting the prohibition, you will receive the following messages: "Are you sure you want to set (or cancel) options exercise prohibition by Brokerage Firm?" or "Are you sure you want to set (or cancel) options exercise prohibition by CF Chief Trader?". Press **Yes** to set or remove the prohibition, or **No** to undo changes. The **Confirmation on working with prohibitions** (**Settings/ Terminal settings/ Management**) option allows to specify the confirmation dialog settings.

8.3. Pledges detailization

There are two types of funds exist in the trading system — money and pledges. Pledges are securities or currency accepted by the clearing center as collateral. Share of pledges accepted cannot exceed that of money.

The **Pledges detailization** contains information about pledges. You can open the window via the **Management/ Market maker obligation for futures** main menu item. The window is informational and can not perform any actions with pledges, all information in this window is available only for viewing.

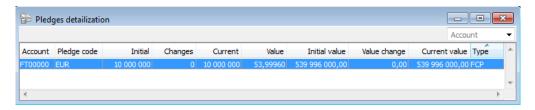


Fig. 8.21. Window Pledges detailization

Tab. 8.20. Parameters in the Pledges detailization window

Parameter	Description
Account	Client code.
Pledge code	Foreign currency/ security code.
Initial	Foreign currencies/ securities amount at session opening.
Changes	Amount of foreign currencies/ securities deposited or withdrawn, in units.
Current	Current amount of foreign currencies/ securities.
Value	Foreign currencies/ securities unit assessed value, in base currency.
Initial value	Foreign currencies/ securities value at session start, in base currency.
Value change	Amount of foreign currencies/ securities deposited or withdrawn, in units, in base currency.
Current value	Current amount of foreign currencies/ securities, in base currency.
Туре	Collateral type:
	• FCP - full collateral;
	BCP - discounted collateral.

You can arrange records in the table by any column in both directions. To switch between directions, click the left mouse button on a column header.

In the **Pledges detailization** window, you can set filtering by account number. You can enter the account number into the field above the table manually or select it from the drop-down list. The number is case sensitive! Please note, that you should enter the whole number!

8.4. Market maker obligation for futures

The **Market maker obligation for futures** window displays a list of instruments under market maker obligations. The list contains not only the futures instruments, but the repo instruments and calendar spreads as well.

You can open the window via the Management/ Market maker obligation for futures main menu item.

The market makers obligations for options are displayed in a separate window, see section 8.5.

Information in the **Management/ Market maker obligation for futures** window can be displayed in two modes: table and tree.

Switching between these types of display is performed using the buttons of the local toolbar:

- III table:
- 🗏 tree.

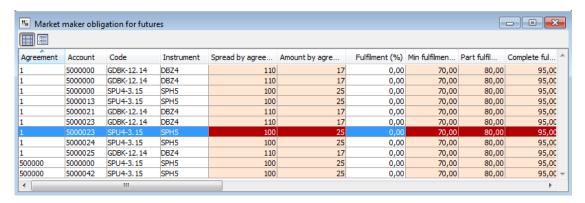


Fig. 8.22. The Market maker obligations for futures window in table mode

You can arrange records in the table (in table mode) by any column in both directions. To switch between directions, click the left mouse button on a column header.

Yes in the field **Batch of MM** indicates an aggregated record for group of obligations. The number of records depend of that of group of obligations.

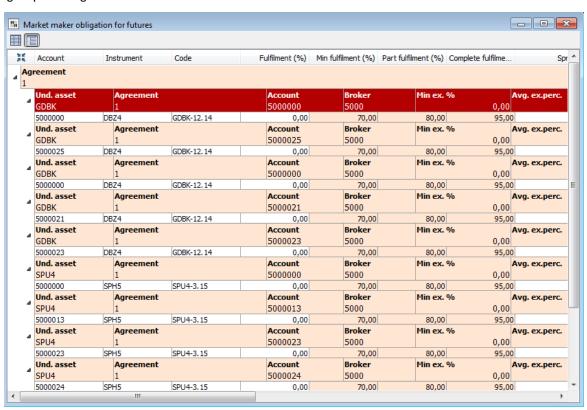


Fig. 8.23. The Market maker obligations for futures window in tree mode

In the tree view mode, obligations are grouped according to agreements. Within every agreement, obligations are grouped by underlying assets and client accounts. The information is displayed in the following order:

- · agreement displays first;
- inside every agreement, there is group of records grouped by underlying asset. The first record in every group contains aggregated obligation values for group of the client accounts, which have obligations within this group. The Batch of MM field contains No for the rest records. There may be more than one aggregated records for every agreement, according to the number of group of obligations for the agreement. Moreover, if there is only one client account in the group, the first item to display is always the aggregated record, and then obligation for the client account. Aggregated record may contain a random value in the field Account. Although, the value in this field usually indicates an account code of client, which is a part of batch.;

• after that, there are obligations for particular client accounts for the group are displayed. The **Account** field contains a 7-symbol code of client.

To maximize details, you should click the small black triangle in the first column.

In the tree view mode, you can maximize and minimize data structure view using the special button $\frac{1}{2}$. The button can be found in the line containing the table columns headers.

Tab. 8.21. Parameters in the Market maker obligations for futures window

Parameter	Description
Instrument	Instrument short code.
Spread	Current spread in points.
Sell price	The highest sell price within the spread.
Amount to sell	Number of sell contracts withing the spread.
Buy price	The lowest buy order price within the spread.
Amount to buy	Amount of contracts in bids withing the spread.
Spread by agreement	Spread by agreement .
Amount by agreement	Amount by agreement.
Fulfilment (%)	Obligations fulfilment (%).
Start	MM rules start of effectivity.
End	MM rules end of effectivity.
Account	Client code.
Min fulfilment (%)	Min obligation fulfilment per trading session (%).
Part fulfilment (%)	Part obligation fulfilment per trading session (%).
Complete fulfilment (%)	Complete obligation fulfilment per trading session (%).
Code	Instrument code.
Board	Instrument code.
Underlying asset	Underlying asset code.
Settlement	Instrument settlement date.
Туре	Instrument type.
Name	Instrument name.
Agreement	Agreement number.
Broker	Broker code.
	Obligations
Und. asset	Underlying asset code.
Agreement	Agreement number.
Account	Client code.
Broker	Broker code.
Min. ex. %	Minimal percent of obligation fulfilment.
Avg. ex. perc.	Average percent of obligation fulfilment.
Batch of MM	Flag of batcn:
	Yes - the record contains aggregated obligation values for group of the client accounts, which have obligations within this group.;
	No - obligations for particular client accounts.

You can specify set and order of parameters according to your needs (via **Window settings/ Columns/ Columns -** obligations fulfillment, **Window settings/ Columns/ Obligations**- obligations)

You can manually specify the field width via the **Window settings**/ **Columns**/ **Obligations** window settings form, by dragging the field border by mouse. The bottom of the page contains the line layout preview.

There can be more than one lines in the table for each instrument, because there is a dedicate line for every trading session and every client account.

If the market maker obligations are not fulfilled, the following fields will are highlighted in red: **Spread by agreement**, **Amount by agreement**, **Min fulfilment (%)**, **Part fulfilment (%)** and **Complete fulfilment (%)**. If the obligations are fulfilled, these fields are highlighted in green. You can specify your own colour schemes via the **Settings/ Terminal settings** main menu item,in the **Colours** section in the **Market maker obligations** tab.

The context menu contains only the standard set of commands – see Chapter 11.

For your convenience, you can also enable sound (see section 8.4.2) and visual notifications (see section 8.4.3).

Instruments from the **Market maker obligations for futures** window can be dragged into the favorite instruments window on the side panel.

8.4.1. Filters in the Market maker obligations for futures window

You can specify filter settings for the Market maker obligations for futures window in the following ways:

- · by using the Window settings context menu item of the Filters section;
- via the Add filter 'parameter' context menu item. Filter will be applied according to the parameter in the cell under mouse cursor. If the parameter under mouse cursor is not applicable for filtering, then the Add filter menu item will be absent in the context menu. The list of applicable parameters can be found via the Window settings/ Filters context menu item.

After filter has been applied according to a parameter, its column header in the **Market maker obligations for futures** window will be marked in bold. The parameter name in the **Window settings/ Filters** list will be also highlighted in bold.

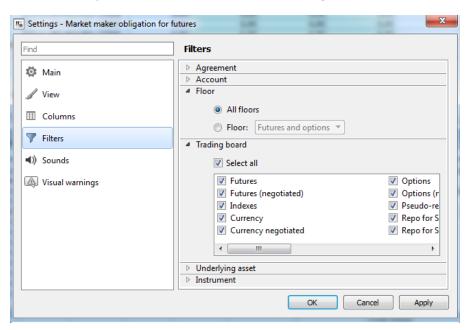


Fig. 8.24. Setting filters in the Market maker obligations for futures window

When a filter has been applied, the **Market maker obligations for futures** window will contain only the strings allowed under the filter preferences. You can manually select the needed parameters by checking/unchecking checkboxes left of the parametr names with the left mouse button.

By default, the Market maker obligations for futures window contains all possible strings.

Tab. 8.22. Filter parameters in the Market maker obligations for futures window

Parameter	Details
Agreement	Filter by agreement number. If the Select all option is active, then the window will contain all agreements. If the Select all option is inactive, the window will be empty. To select the agreements you need, you should select them manually by checking the appropriate checkboxes.
Account	Filter by account code of clien. If the Select all option is active, then the window will contain records for all accounts. If the Select all option is inactive, the window will be empty. To select the accounts you need, you should select them manually by checking the appropriate checkboxes.
Floor	Filter by trading floor:
	All floors – all instruments for all floors;
	Floor – instruments for the floor selected in the drop-down list.
Trading board	Filter by trading board. If the Select all option is active, then the window will contain all instruments for all boards. If the Select all option is inactive, the window will be empty. To select the instruments you need, you should select them manually by checking the appropriate checkboxes.
Underlying asset	Filter by underlying asset. If the Select all option is active, then the window will contain all trades for all underlying assets. If the Select all option is inactive, the window will be empty. To select the underlying assets you need, you should select them manually by checking the appropriate checkboxes.
Instrument	Filter by instrument code:
	All instruments – MM obligations for all instruments;
	• Instrument – MM obligations only for selected instrumens. You can select an instrument in the Select instrument window (see. section 5.11.1) by pressing the Select button. Note that you can select more than one instruments at once.

You can deactivate the applied filter by the following ways:

- via the **Clear filter '...'** context menu item to remove the filter for one parameter. Please note, that this menu item is available only in the context menu of the column, by which the filter has been applied (the column header will be marked in bold);
- via the Remove all filters context menu item to remove all filters for all parameters. This menu item becomes
 available in the context menu when at least one filter has been applied to the list. Please note, that this menu item
 is available only in the context menu of the column, by which the filter has been applied (the column header will
 be marked in bold);
- via the Window settings context menu item of the Filters section. To remove filters simply activate the Select all mode.

Once you close the **Market maker obligations for futures** window and then open it again, the window will be open in its default configuration, causing all your filter settings to be lost. To save your settings, you should save the current configuration as default via the **Current window/ Save by default** main menu item. This configuration becomes active even after restarting the application.

Once you close the window and then open it again, the window will be open in its default configuration, causing all your filter settings to be lost. To save your settings, you should save the current configuration as default via the **Current window/ Save by default** main menu item. This configuration becomes active even after restarting the application.

To automatically save the current configuration when you exit the terminal should install option **Save the current desktop settings befor exit (Settings/ Terminal settings/ Main/ Common)**.

8.4.2. Setting sound notification at non-fulfillment of obligations

You can enable sound notifications to be played at non-fulfillment of market maker obligations via the **Window settings** context menu item, in the **Sounds** section.

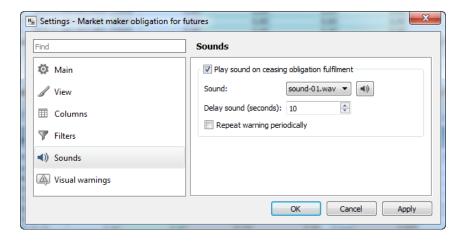


Fig. 8.25. Setting sound notifications

When the **Play sound on ceasing obligation fulfilment** option is enabled, then, if the market maker obligation is not fulfilled within the time frame specified in the **Delay sound (seconds)** field, the system will play a single sound notification.

You can set the sound notification to play periodically during the whole period of non-fulfillment of a market maker obligation. To do this, you should enable the **Repeat warning periodically** option; after this, the system will play a sound notification periodically according to a value specified in the **Delay sound (seconds)** field.

You can select a sound to be played in a drop-down list in the **Sound** field. To preview the selected sound, press a button with speaker.

The sound notification settings are not saved automatically at closing the **Market maker obligations** window; to save it manually, you should save the current window configuration as the default configuration via the **Current window**/ **Save as default** main menu item.

By default, the sound notifications are disabled.

8.4.3. Setting visual warning for default of market maker obligations

You can enable visual notifications to be played at non-fulfillment of market maker obligations via the **Window settings** context menu item, in the **Visual warnings** section.

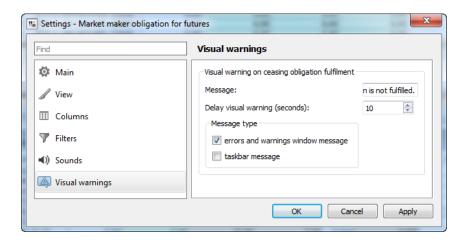


Fig. 8.26. Setting visual warning

When the option is enabled, then, if the market maker obligation is not fulfilled within the time frame specified in the **Delay visual warning (seconds)** field, the system will display a visual notification. There are three types of notifications are available:

- errors and notifications window message the visual warning appears as a pop-up message in the tray above the terminal icon. Also, it displays in the Errors and notifications window, which can be opened by clicking in the status bar;
- task bar message the visual warning appears as a flashing terminal icon in the task bar. Please note, that the icon flashes only if the application window is inactive!

You can select both types of notifications at once.

In the **Message** window, you can enter a text message to appear as a message at obligation non-fulfillment. Also, the message will contain the date and time of the obligations non-fulfillment as well as the appropriate client account code and the instrument code.

The visual notification settings are not saved automatically at closing the **Market maker obligations** window; to save it manually, you should save the current window configuration as the default configuration via the **Current windowl Save as default** main menu item.

By default, the visual notifications are disabled.

8.5. Market maker obligations for options

The **Market maker obligations for options** window displays list of option instruments the market maker has obligations for. The window can be opened via the **Management/ Market maker obligations for options** main menu item.

The list of futures instruments the obligation the market maker has obligations for is displayed in a separate window. For details see section 8.4.

To maximize details, you should click the small black triangle in the first column.

Clicking the ** or ** button (in the first column header) allows to maximize or minimize all groups at once. Button changes its appearance automatically.

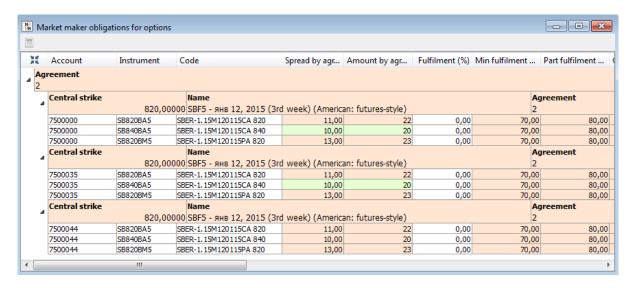


Fig. 8.27. Window Market maker obligations for options

In the tree view mode, obligations are grouped according to agreements. Within every agreement, obligations are grouped by underlying assets and client accounts. The information is displayed in the following order:

- · agreement displays first;
- inside every agreement, there is group of records grouped by underlying asset. The first record in every group contains aggregated obligation values for group of the client accounts, which have obligations within this group. The Batch of MM field contains Yes. The Batch of MM field contains No for the rest records. There may be more than one aggregated records for every agreement, according to the number of group of obligations for the agreement. Moreover, if there is only one client account in the group, the first item to display is always the aggregated record, and then obligation for the client account. Aggregated record may contain a random value in the field Account. Although, the value in this field usually indicates an account code of client, which is a part of batch.;
- after that, there are obligations for particular client accounts for the group are displayed. The **Account** field contains a 7-symbol code of client.

Tab. 8.23. Parameters in the Market maker obligations for options window

Parameter	Details
Instrument	Instrument short code.
Fulfilment (%)	Obligations fulfilment (%).
Spread	Current spread in points.
Spread by agreement	Spread by agreement .
Sell price	The highest sell price within the spread.
Amount to sell	Amount of contracts in offers withing the spread.
Buy price	The lowest buy price within the spread.
Amount to buy	Amount of contracts in buy orders withing the spread.
Amount by agreement	Amount by agreement.
Option type	Option type (put/call).
Strike price	Strike price.
Settlement	Instrument settlement date.
Start	Start of validity period MM rules.
End	End of validity period MM rules.
Code	Instrument code.

Parameter	Details		
Min fulfilment (%)	Min obligation fulfilment per trading session (%).		
Part fulfilment (%)	Part obligation fulfilment per trading session (%).		
Complete fulfilment (%)	Complete obligation fulfilment per trading session (%).		
Agreement	Agreement number.		
Account	Client code.		
Und. contract	Underlying contract short code.		
Broker	Broker code.		
	Obligations		
Central strike	Central strike for option group.		
Name	Option group name.		
Agreement	Agreement number.		
Account	Client code.		
Broker	Broker code.		
Min. ex. %	Minimal percent of obligation fulfilment for series of option.		
Avg. ex. proc.	Average exercise fulfilment percentage for series of option.		
Batch of MM	 Flag of batcn: Yes - the record contains aggregated obligation values for group of the client accounts, which have obligations within this group.; No - obligations for particular client accounts. 		

You can specify set and order of parameters according to your needs (via **Window settings/ Columns/ Columns -** obligations fulfillment, **Window settings/ Columns/ Obligations**- obligations)

You can manually specify the field width via the **Window settings**/ **Columns**/ **Obligations** window settings form, by dragging the field border by mouse. The bottom of the page contains the line layout preview.

There can be more than one lines in the table for every instrument, each line for each trading session.

If the market maker obligations are not fulfilled, the following fields will be highlighted in red: **Spread by agreement**, **Amount by agreement**, **Min fulfilment (%)**, **Part fulfilment (%)** and **Complete fulfilment (%)**. If there is an instrument within the a series of option, for which the market maker obligation is not fulfilled, its underlying asset like will be also highlighted in red. If the market maker obligations are fulfilled, these objects will be highlighted in green. You can specify the highlight colour parameters via the **Settings/ Terminal settings** main menu item in the **Colours** section of the **Market maker obligations** tab.

You can sort records in the window by the following parameters: **Option type** and **Strike price**, in both directions. To switch the sorting direction, click the appropriate column header with the left mouse button.

For your convenience, you can set the sound (see section 8.4.2) and visual (see section 8.4.3) warnings.

Instruments from the **Market maker obligations for options** window can be dragged into the favorite instruments area in the side panel.

By pressing the button on the local instrument panel or via the **Recalculate central strike** context menu item, you can recalculate the central strike value for a series of options.

Before recalculation starts, you may receive a confirmation message. You can specify the confirmation message settings via the **Settings/ Terminal settings** main menu item of the **Management** section, by using the **Confirmation on recalculation of central strike for market maker obligations** option.

Apart from the **Recalculate central strike** command, the context menu contains the standard commands (see. Chapter 11).

The standard context menu items are described in Chapter 11. Below you will find description for the particular **Options board** window context menu items. There are:

- Recalculate central strike recalculate central strike for options group;
- Open Order-book opens the Order-book window for the selected instrument. The window can be also opened by double-clicking an instrument with the left mouse button;
- Open chart opens the Tech. analysis window, containing graphical chart for the selected instrument;
- Add volatility curve -adds the volatility curve chart into a separate window. This menu item is available only for options;
- Information opens the Information window, containing data on the selected instrument.

8.5.1. Filters in the Market maker obligations for options window

You can specify the **Market maker obligations for options** window filter settings via the **Window settings** context menu item of the **Filters** section.

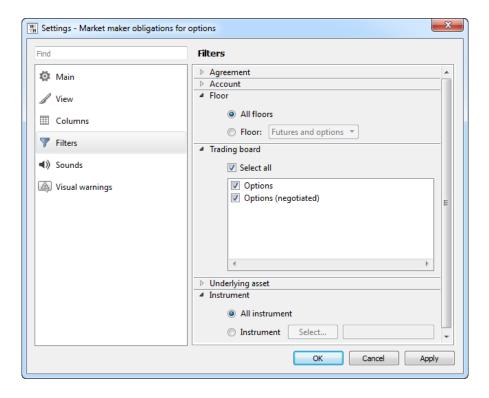


Fig. 8.28. Setting filters in the Market maker obligations for options window

When a filter has been applied, the **Market maker obligations for options** window will contain only the instruments allowed under the filter preferences. You can manually select the needed instruments by checking/unchecking checkboxes left of the instrument names with the left mouse button.

By default, the **Market maker obligations for options** window contains all possible obligations.

Tab. 8.24. Filter parameters in the Market maker obligations for options window

Parameter	Details
•	Filter by agreement number. If the Select all option is active, then the window will contain all agreements. If the Select all option is inactive, the window will be empty. To select the agreements you need, you should select them manually by checking the appropriate checkboxes.

Parameter	Details
Account	Filter by account code of clien. If the Select all option is active, then the window will contain records for all accountS. If the Select all option is inactive, the window will be empty. To select the accounts you need, you should select them manually by checking the appropriate checkboxes.
Floor	 Filter by trading floor: All floors – all instruments for all floors; Floor – instruments for the floor selected in the drop-down list.
Trading board	Filter by trading board. If the Select all option is active, then the window will contain all instruments for all boards. If the Select all option is inactive, the window will be empty. To select the instruments you need, you should select them manually by checking the appropriate checkboxes.
Underlying asset	Filter by underlying asset. If the Select all option is active, then the window will contain all trades for all underlying assets. If the Select all option is inactive, the window will be empty. To select the underlying assets you need, you should select them manually by checking the appropriate checkboxes.
Instrument	 Filter by instrument code: All instruments – MM obligations for all instruments; Instrument – MM obligations only for selected instrumens. You can select an instrument in the Select instrument window (see. section 5.11.1) by pressing the Select button. Note that you can select more than one instruments at once.

The **Select all** option allows to select/deselect all parameters at once.

To cancel filtration you can use the Window settings context menu item of the Filters section.

Once you close the window and then open it again, the window will be open in its default configuration, causing all your filter settings to be lost. To save your settings, you should save the current configuration as default via the **Current window/ Save by default** main menu item. This configuration becomes active even after restarting the application.

To automatically save the current configuration when you exit the terminal should install option **Save the current desktop settings befor exit** (**Settings/ Terminal settings/ Main/ Common**).

8.6. Withdrawing funds from the trading system

You can withdraw funds from the trading system by sending a special electronic request. The original request in a paper format must be provided no later than tomorrow.

To send the funds withdrawal electronic request, please use the **Management/ Orders to withdraw and deposit funds** main menu item.



Fig. 8.29. Requests to withdraw and deposit funds

The **Orders to deposit/ withdraw funds** window displays the requests already sent into the system. The list includes both processed and unprocessed requests types.

The requests list displays not only withdrawn funds (negative value), but also deposited amounts (positive value). The funds deposit requests are automatically generated by the trading system; you can view them in the **Orders to deposit/ withdraw funds** window.

Tab. 8.25. Parameters in the Requests to deposit/ withdraw funds window

Parameter	Details
Account	Client account.
Amount	Amount of funds:
	negative value — withdrawn funds;
	positive value — deposited funds.
Time	Withdrawal request time.
Mark of Clearing Center	Request status:
	 none - the request has been sent by user but was not processed by the Clearing Center;
	Received - the funds deposit order has been received;
	Built - the request has been transferred to the Clearing House;
	Accepted - the request has been accepted by the CH;
	Not accepted - the request was rejected by the CH;
	Executed - the request has been executed;
	Recalled by CH - the request has been recalled by the CH;
	 Cancellation attempt - the trading system attempts to cancel the request according to the user's choice;
	Removed - the request was removed. The CH will not process this request.
Acceptance time	The date and time of the last status (accepted/removed/etc.)
Recipient	Recipient of the withdrawing funds
Settl. Acc.	Settlement account to withdraw funds on.
Bank	The receiving bank name.
Corr. Acc.	Correspondent account.
BIC	The receiving bank BIC
Recipient's VATIN	The receiving bank VATIN.
Session	Session name.
Туре	Operation type:
	deposit - depositing funds;
	• withdrawal - withdrawing funds.

8.6.1. Sending a new withdrawal request

The funds withdrawal request wizard window is available only when a trading session is active (not paused).

To send a new withdrawal request, you should use the **Withdraw** context menu item opened from the **Orders to deposit/ withdraw funds** window or by pressing the **Withdraw** button on the local instrument panel.

The Withdrawal order wizard window is used for filling in the request details:

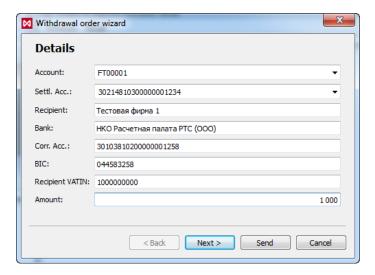


Fig. 8.30. Withdrawal request wizard - Details

On the **Details** page (fig. 8.30), the following fields should be filled in:

- Account client account code to withdraw funds from;
- Settl. Acc. settlement account number to deposit funds on. The Recipient, Bank, Corr. Acc., BIC and Recipient VATIN fields will be filled in automatically according to the settlement account number. You cannot edit them manually.
- · Amount amount to withdraw.

To proceed with the request press the **Send** button - see fig. 8.30. The request will be sent to the trading system and then displayed in the **Orders to deposit/ withdraw funds** window.

To withdraw funds from more than one client account press the **Next** button - see fig. 8.30. Then, the **Orders** window will appear on the screen:

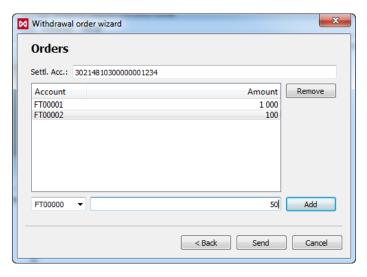


Fig. 8.31. Withdrawal request wizard - Requests

The **Settl. Acc.** field on the **Orders** page displays the account number to deposit funds on. You cannot manually edit this field on this page.

Below is the list of client accounts to withdraw funds from. You can add accounts into the list by specifying the client account number (can be selected from the drop-down list) and amount to withdraw. To confirm adding the account number press the **Add** button (fig. 8.31) right from these fields.

You can remove requests from the list by pressing the **Remove** button (fig. 8.31) right from the list of requests.

By pressing the **Send** button (fig. 8.31), the withdrawal requests will be sent to the trading system. After that, the message appears on the screen: "The total amount is...Are you sure you want to send this order?", containing the total amount to be withdrawn from all specified accounts. Press **Yes** to confirm and send the request; the **Orders to deposit/ withdraw funds** window will renew and display the newly added requests separate for each account. Press **No** to cancel sending the request - you will be taken back to the **Requests** page of the wizard.

By pressing the **Back** button (fig. 8.31) you will be taken back to the **Details** page (fig. 8.30). All the newly entered accounts details will be lost except the account details specified in the **Details** page of the wizard.

8.6.2. Recalling withdrawal request

You can cancel your withdrawal request before it is accepted and processed by the Clearing Center. The unprocessed request has the **Mark of Clearing** and **Acceptance time** fields empty - see fig. 8.29. After the request has been accepted (**Built** status) - you cannot recall it.

You can recall your withdrawal request via the **Orders to deposit/ withdraw funds** window (the **Management** main menu item) by the following ways:

- · via the **Recall** context menu item;
- by pressing the **Recall** button of the local instrument panel.

Please note, that you cannot recall a separate request. If you have several unprocessed requests in the list, they all will be recalled.

When you try to recall a request, a message appears on the screen: "Are you sure you want to recall all unprocessed orders?". Answer **Yes** to recall the requests, or **No** to cancel the recall.

The recalled requests are marked with the **Removed** status.

If you try to recall the orders which have been already processed by the Clearing Center, the message will appear on the screen: "No withdrawal requests to recall".

Chapter 9. Technical analysis. Charts.

Technical analysis is a statistical method for analysing market data and using them to forecast the price values. The trade prices are used as raw data: the highest and the lowest price values, opening and closing prices values and the operation volume.

The trading terminal application provides possibilities to receive immediate technical analysis results as graphical charts, which display price trend at every moment of time.

The **Charts and Technical analysis** subsystem is a software plugin, which can be connected via the **Settings/ Terminal settings** menu item of the **Plugins** section by activating the **Tech. analysis** plugin.

All charts are displayed in the separate **Tech. analysis** window – see. section 9.2.

The window may contain more than one graphical chart at once: the main chart and some additional charts (indicators, volume histograms, etc.). A single window may contain charts for different instrument series.

This chapter covers the following information:

- · chart types;
- · Tech. analysis window;
- · charts of series;
- · indicators:
- · action with charts;
- · additional graphic elements;
- · object manager;
- · indicator editor;
- · settings:
- · manage TA data .

9.1. Chart types

The time graphical charts has the following characteristics:

- two time parameters **Range**, to which the displayed data belongs and **TimeFrame** a time frame value, according to which the graphical data is divided;
- data source graphical charts display trade prices; the meanings of their values are explained below;
- chart appearance linear (Line), bar (Bar) or Japanese Candlestick (Candle).

On the time graphical chart, the time axis is divided into some equal time intervals (for example, **TimeFrame**=1 day). Therefore, all market events displayed in the time graphical chart are processed within the **TimeFrame** value. As there are more than one event may happen during the time frame, the graphical chart can contain the following values:

- · closing price (Close),
- · opening price (Open),
- · highest price (High),
- lowest price (Low).

The graphical chart can have one of the following appearances:

- linear (**Line**) for every time frame, there is a closing price point (**Close**) is displayed. The points are connected with line seefig. 9.1;
- bar (Bar), consists of the elements shown at fig. 9.2.
- Japanese Candlestick (Candle) consists of the elements shown at fig. 9.3).



Fig. 9.1. Chart type - Linear

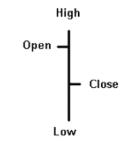


Fig. 9.2. Bar

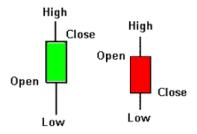


Fig. 9.3. Candles



Fig. 9.4. Chart type - Japanese Candlestick

Depending on correlation between the **Open** and **Close** values, the chart elements (candles) are coloured in different colours: green colour indicates bullish candles, if **Open < Close**; red colour indicates the bearish candles, if **Open>Close**. The neighbouring elements in the bar and candlestick charts are not connected with any line.



Fig. 9.5. Chart type - Bars

9.2. Tech. analysis window

The graphical charts are displayed in the separate **Tech. analysis** window.

You can open the **Tech. analysis** window by the following methods:

- from the Tech. analysis/ Open chart main menu;
- · by pressing the Alt+C key combination;
- from the All trades/ requests, Your trades/ requests, Your orders/ requests, Financial instruments, Options board, Order-book windows via the Open chart context menu item;
- from the All trades/ requests window by double-clicking the left mouse button on the selected instrument;
- from the Favorite instruments section of the side panel, via the Open chart context menu item.

By default, the **Tech. analysis** window contains the **Volume** indicator, which displays the number of lots/units in each candle .

The window may contain more than one graphical chart at once, i.e. the main chart (series chart) along with some additional charts (indicators) which are superpose the main chart. A single window may contain charts for different instruments which; the charts can be either superposed or opened in the same window, each in its separate area. A single window can contain as many charts and indicators as need be. The time axis in the **Tech. analysis** window is always the same for every chart and indicator.



Fig. 9.6. Selected chart in the Tech. analysis window

The X axis always represents time. The time axis is always scaled for every chart displayed in the window.

You can open the context menu by clicking the right mouse button on the time axis. The **Show date** context menu item allows to show the current date below the chart; also; clicking this context menu item again disables the option.

If a chart is too large to fit the open window, you can use the scroll bar in the time axis, which allows to scroll the chart in both directions, right or left.

the vertical axis represents price. Each chart can have its own vertical axis in its own scale. The vertical axes do not correlate to each other. The closing price for a single time frame is dynamically highlighted with a particular colour (the same as the one for the closing price in the chart). You can assign the same vertical axis for more than one chart in the area.

A single area can contain no more than 3 axis by side (3 at the left and 3 at the right). Adding more axis will cause an existing to be removed.

For the **Tech. analysis** window, you can enable the instrument panel by using the appropriate context menu items (see section 9.2.1).

You can select a chart in the window. To do this, click a chart in the window (the mouse cursor will change its shape to hand) or an instrument name in the upper left corner of the window. The selected chart will be marked with squares (see fig. 9.6). You can change some parameters of the selected graph, delete it or drag into another chart section.

Each graphical chart has its own ticker, consisted of two parts: editable and non-editable.

- editable part either the instrument code or the indicator name, which can be edited see section 9.5.8. This value is displayed in the chart parameters as **Displayed name**;
- non-editable part time-frame. This part never changes.
- automatically editable part (for indicators) series code or series chart name (general view). Once you have changed the series chart name in its editable part, this part will change automatically.

To open the **Properties** window for the selected chart, double-click it with the left mouse button.

9.2.1. Toolbar in the Tech. analysis window

In the **Tech. analysis** window, the most frequently used menu items and settings can be put in the instrument panel in the window header area. The instrument panel consists of several parts, where each part can be a separate instrument panel. You can display or hide some panels using the following menu items:

- · 'Objeck management' toolbar;
- · 'View' toolbar;
- · 'H-scale' toolbar;
- · 'V-scale' toolbar;
- · 'Window parameters' toolbar;
- 'Drowing' toolbar .

All actions with buttons in the instrument panel affect the selected graphical chart. If there is no chart has been selected, the action will affect a random chart of the series. For example, the highlighted chart type button indicates the selected chart type or a random chart of the same series found in the **Tech. analysis** window (if no chart has been selected).

Tab. 9.1. Toolbar for Tech. analysis

Icon	Hot keys	Details	
Object management			
× % ▼	Ctrl+A	Adds a new series chart. In the drop-down list, you can:	
		select a favorite instrument;	

Icon	Hot keys	Details
		Select Instrument - opens a window (see section 5.11.1) to select an instrument.
		The graphical chart will be added in the separate area of the Tech. analysis window according to the instrument selected.
		The time frame value and display time value, the maximum possible values for the current window will be taken.
HILL	Ctrl+Shift+A	Adds anew indicator. Opens the Indicator selection window - see section 9.4.2.
Mile.	Ctrl+JCmd+J	Opens the Object manager window – see section 9.7
iii 😸		Deletes all graphical charts in the current Tech. analysis window.
12		Removes all drawings in all areas of the Tech. analysis window.
∞		Deletes a selected object in the Tech. analysis window: graphical chart, indicator, drawing.
5	Ctrl+R	Allows to renew all graphical charts in the Tech. analysis window.
		This command can be useful, for example, when the time parameters of the session has changed.
		Please note, that pressing this button will not renew the indicator code in case it has changed. If you notice an indicator name in the chart marked with star, it will mean that the indicator code has been changed. So you should close the indicator and add it anew.
		View
		Switches the chart type to candles.
11		Switches the chart type to bars.
~		Switches the chart type to line.
∑ ▼		The button allows to switch between the time frame values from the drop-down list. The current value is marked with tick. The recommended (default) value is marked with bold. To set the default value, press the button.
		The time axis is always adjusted for all charts in the window displayed simultaneously. Therefore, changing time frame value for a single chart will lead to change of all other charts in the window; a chart can be stretched or shrunk horizontally.
		H-scale
41	Ctrl+=	Allows to zoom in the time scale. Charts will be stretched horizontally.
P4	Ctrl+-	Allows to zoom out the time scale. Charts will be shrunk horizontally.
O	Ctrl+0 (ноль)	Allows to set the default time scale value.

lcon	Hot keys	Details
+	Ctrl+Backspace	Pressing the button once will undo the last action you made to the time axis scale. To undo some earlier actions press the button again and again.
•		Allows to select a part of a graphical chart and zoom it in in the Tech. analysis window.
		You can do it in the following way:
		press the button in the instrument panel;
		 select a part of the chart (the cursor shape will change automatically). Drag it from the upper left corner to the lower right corner using the left mouse button;
		• release the left mouse button – the selected chart part will be zoomed in to fit the entire Tech. analysis window.
		V-scale
Ē.	Ctrl+F	Auto-scaling:
	Ctrl+D	 for screen (Ctrl+F) - the scale is automatically calculated to fit the visible chart values in the visible screen area (vertically);
		• for the entire series (Ctrl+D) - the scale is automatically calculated to fit all chart values in the visible screen area (vertically).
-		Allows to zoom in the Y axis the selected chart. The auto-scaling function will be automatically disabled.
		Allows to zoom in the Y axis the selected chart. The auto-scaling function will be automatically disabled.
1		Allows to shift the selected chart and its vertical axis up. The auto-scaling function will be automatically disabled.
•		Allows to shift the selected chart and its vertical axis down. The auto-scaling function will be automatically disabled.
		Window parameters
	Ctrl+G	Allows to show/hide grid.
+ -		Allows to show/hide crosshair and values in the axes.
		The following view modes are available:
		 Crroshair and values (by default) – crosshair and values in both axis are displayed;
		Crroshair – only crosshair is displayed;
		Values – only values in both axes are displayed;
		 Horizontal line and value – only horizontal line and values in vertical line are displayed;
		Vertical line and value – only vertical line and values in horizontal line are displayed.
		You can select a view mode in the drop-down list by pressing the right side of the button (with arrow). Also, in the drop-down list you can disable a view mode or select another view mode by clicking it with the left mouse button.

Icon	Hot keys	Details
		To turn crosshair on/off simply press the button. After that, the default view mode will be enabled.
(Ctrl+U	Turns on and off pop-up information message (hint) of the bar closest to the cursor - see fig. 9.7. :
		• date (for example: Date=29.06.2012);
		• time (for example: Time=10:31:05);
		 chart/indicator name (for example: RIU2: for series and Close (RIU2): for indicator);
		chart indicator info (for example: Close=150);
		chart information (the closest bar):
		○ O - opening price (Open),
		○ H - highest price (High),
		○ L - lowest price (Low);
		○ C - closing price (Close),
		○ Vol – volume in lots/units;
		○ Val - volume in money.
		The records in the message are not arranged and displayed randomly. If there are no data, only date and time will be displayed.
		Drawing
		Trend line drawing mode – see section 9.6.1.
-		Resistance/support lines drawing mode – see section 9.6.2.
		Fibonacci lines drawing mode – see section 9.6.3.
36		Fibonacci arcs drawing mode – see section 9.6.4.
att.		Fibonacci fan drawing mode – see section 9.6.6.
		Line colour of drawing objects.
		Please note, that you cannot change colour of the existing objects via the instrument panel. Instead, you should use the Properties option of the object.
■ -		Line width of drawing objects.
		Please note, that you cannot change line width of the existing objects via the instrument panel. Instead, you should use the Properties option of the object.



Fig. 9.7. Hint with chart parameters

9.2.2. Context menu in the Tech. analysis window

The context menu of the **Tech. analysis** window contains different menu items depending on different window objects. The standard context menu items are described in Chapter 11. The list below contains the special commands of the **Tech. analysis** window.

The context menu opened from the **Tech. analysis** window contains the following items:

- Object manager opens the Object manager window (see section 9.7);
- 'toolbar name' toolbar shows/hides a particular tulbar.

The context menu opened from the chart area of the **Tech.** analysis window contains the following items:

• **Delete** – deletes the current window area including all graphical charts in it. Before deleting, you will receive a confirmation dialog

The context menu opened from the horizontal axis of the **Tech. analysis** window contains the following items:

• Show date – shows/hides the current date info below the time axis.

The context menu opened from the vertical axis of the **Tech. analysis** window contains the following items:

- Show grid show/hides horizontal grid for the selected vertical axis. The grid will refer to the scale of the selected axis. Each vertical axis can have its own grid. Please note, that if the enabled, no vertical grid will be shown;
- Grid settings allows to set colour for the vertical axis grid. You can specify different colour for each grid;
- Left docks the vertical axis grid to the left side of the window. The vertical axis grid can be displayed at both sides
 of the window or hidden from the screen;
- **Right** docks the vertical axis grid to the right side of the window. The vertical axis grid can be displayed at both sides of the window or hidden from the screen;
- Chart ticker for example, LKZ1. 5 min. The tick indicates the axis, from which the context menu was opened. The context menu contains names of all axes displayed in the Tech. analysis window. To select an axis in the list, click it with the left mouse button; it will substitute the previously active axis. Two equal axes will be displayed as one. To switch the view mode back to display a separate axis, you should set the axis as 'visible' in the chart properties.

The context menu opened from the chart ticker (chart name) contains the following items:

- Remove removes the selected chart. This command also removes all indicators of the selected chart;
- **Properties** opens the **Instrument chart properties** window (see section 9.3.2). Also, you can open this window simply by double-clicking a chart or a chart ticker with the left mouse button;
- Hide hides a chart in the **Tech. analysis** window, disables the **Visibility** option (see tab. 9.4 and tab. 9.5);
- Bring to front brings the selected chart to the front, overlapping all other charts;
- Add indicator opens the Indicator selection window to add an indicator chart;
- Select another instrument changes the current instrument and renews all indicator charts added for the previous instrument (see section 9.5.1);
- **Show errors** opens a window containing error description. This menu item is available only for erroneous charts (these charts are indicated with the crossed chart ticker name).

The following parameters will be saved by default after saving the **Tech. analysis** window configuration (the **Current window/ Save by default** main menu item):

- · window size:
- · grid view settings;
- · current date stamp settings.

9.3. Charts of series

The chart of series is a chart added for an instrument. Please note, that you cannot add charts for the negotiated instruments (see section 9.4).

This chapter covers the following topics:

- · chart creating guide;
- · chart properties.

9.3.1. Creating a chart

You can create graphical chart for a particular instrument in the following ways:

- via the **Tech. analysis/ Open chart** main menu item see procedure 9.1;
- by pressing the button on the main window instrument panel see procedure 9.4;
- from the All trades/ requests, Your trades/ requests, Your orders/ requests, Financial instruments, Options board, Order-book windows, form the Favorite instruments section of the side panel via the Open chart context menu item (see procedure 9.2);
- from the All trades/ requests, Your trades/ requests, Your orders/ requests, Financial instruments, Options board windows, from the Favorite instruments section of the side panel by dragging (see procedure 9.3);
- by pressing the button on the **Tech. analysis** window instrument panel see procedure 9.5;
- by pressing the **Add** button in the **Series** tab in the **Object manager** window (the window instrument panel see **section 9.7.**

If the **Tech. analysis** already contains at least one graphical chart, the newly added one will have the time frame and display period of the previously added chart.

Procedure 9.1. Creating a chart in a new window via the main menu

- 1. Open the **Tech. analysis/ Open chart** main menu item.
- 2. Select the instrument you need by one of the following methods:
 - · from the favorite instruments list;
 - from the **Favorite instruments** window (see section 5.11.2);
 - from the **Select instrument** window (see section 5.11.1).
- 3. Press **OK** or double-click the instrument name with the left mouse button.
- 4. The new **Tech. analysis** window will appear on the screen, containing chart for the selected instrument.

Procedure 9.2. Creating a chart from the All trades/ requests, Financial instruments, Order-book windows via the context menu

- 1. In the **All trades/ requests, Financial instruments, Order-book** windows, select the instrument you need by placing the mouse cursor on it.
- 2. Click the right mouse button to open the context menu.
- 3. Open the Open chart menu element.
- 4. The new **Tech. analysis** window will appear on the screen, containing chart for the selected instrument.

Procedure 9.3. Dragging a chart into the already opened window

- In the All trades/ requests, Financial instruments, Order-book windows or in the Favorite instruments section
 of the side panel, select the instrument you need by placing the mouse cursor on it.
- Press the left mouse button (the icon will appear near the mouse cursor) and drag the instrument into the Tech. analysis window .
- 3. Release the mouse button:
 - in an area of the **Tech. analysis** window the chart will be added into the selected area;
 - on the horizontal axis the chart will be added into a new area of the **Tech. analysis** window.

Procedure 9.4. Creating a chart in the new Tech. analysis window

- 1. Press the button on the main window instrument panel.
- 2. Select the instrument you need by one of the following methods:
 - · from the favorite instruments list;
 - from the Favorite instruments window (see section 5.11.2);
 - from the Select instrument window (see section 5.11.1).
- 3. The new **Tech. analysis** window will appear on the screen, containing chart for the selected instrument.

Procedure 9.5. Creating chart in a new area of the opened Tech. analysis window

- 1. Press the button on the **Tech. analysis** window instrument panel.
- 2. Select the instrument you need by one of the following methods:
 - · from the favorite instruments list by pressing the small button with black arrow;
 - from the **Select instrument** window (see section 5.11.1) by pressing the button itself.
- 3. The new **Tech. analysis** window will appear on the screen, containing chart for the selected instrument.

9.3.2. Charts properties

You can open the chart properties window by one of the following methods:

- via the Properties context menu item, opened from a selected chart or a chart ticker;
- in the **Object manager** mode (**Ctrl+J**, or the button of the **Tech. analysis** window panel instrument), by pressing the **Properties** button, with the mouse cursor placed on the chart you need in the **Series** tab.

The chart properties are displayed in a separate window - fig. 9.8.

Some of the properties are fully equal to that specified in the **Settings/ Terminal settings** main menu item of the **Chart and TA** section—see section 9.9.5.



Fig. 9.8. Chart properties

The main chart properties are shown in tab. 9.10

The **Board** field displays the trading board for the chart.

The **Instrument** field displays the instrument code for the chart.

The **Displayed name** displays the chart name equal to that in the **Tech. analysis** window.

By default, the chart has the ticker equal to that of the instrument code. The ticker can be later changed by user, that is why the value in the **Displayed name** field may differ from the instrument code value.

You can specify chart display time by two methods:

- by setting number of days starting from the current day the chart will be created according to data of the last two
 days. I. e., if the value is '2', the chart will be created according to the data of the current day and the day before;
- by setting a period of time with two dates. The chart will be created according to the data of dates within the specified period, including the two specified dates.

You can switch between two methods by clicking the small white circle with the left mouse button.

The **Schedule** button displays the session schedule table – see fig. 9.8 (for detailed information see section 9.9.1). In this window, you cannot edit the schedule table.

You can specify the chart position in the **Tech. analysis** window by using the **Position (axis, subchart)** field. You can move the chart from one area to another or add it into a new separate area. The **Position (axis, subchart)** field value can be selected in the appropriate drop-down list. Thus, you can select from:

- all active areas with charts. For each area, there are several options available to pin the chart to: a separate axis
 or the axis of an already added chart;
- a new area, if the selected chart is not a single one in this area. The chart then will be moved to the separate new area.

The **Scaling range** field in the **Chart properties** window displays the maximum and the minimum values of the chart along the vertical axis in the current moment of time.

9.4. Indicators

The indicator charts are the additional charts which can be added to the series charts. The number of indicator charts displayed simultaneously is not limited.

There are two types of indicators: the standard indicators which are included into the application, and indicators created by users. Unlike the user indicators the standard indicators are updated automatically at installing a new version of the terminal application. Yoy cannot change or remove the standard indicators.

The following indicators are available in the terminal application:

- ADX average directional movement index;
- ADXR average directional movement index rating;
- Ask lowest priced sell order from Financial instruments;
- Ask_Bid best buy and sell price from Financial instruments;
- · AvgPrice average price;
- Bid highest priced buy order from Financial instruments;
- BollingerBands Bollinger Bands;
- Close closing price;
- ClosePrice last trade price in session (close);
- Const -horizontal line;
- CurKotir current quotation;

- · CurKotirReal market quotation;
- Custom1Line custom line;
- EMA exponential moving average;
- **High** highest price;
- Ichimoku Ichimoku;
- · LastClQuote last clearing quotation;
- LastPrice last trade price from tab Financial instruments;
- Low lowest price;
- MACD moving average convergence-divergence;
- OI open interest;
- · OldKotir previous quotation;
- Open open price;
- OpenPrice first trade price in session (open price);
- PriceLimits price limits from tab Financial instruments;
- PriceMinMax lowest and highest price from tab Financial instruments;
- **RSI** relative strength index;
- SMA simple moving average;
- · TheorPrice option theoretical price;
- TrueRange true range (difference between the values of two variables for the current bar);
- · Value candlestick volume (money);
- Volume candlestick volume (lots/ units);
- WMA weighted moving average;

Indicator charts can be added either into separate areas or into a single area containing the main series chart.



Fig. 9.9. Example of indicator chart created in the same area with the main series chart



Fig. 9.10. Example of indicator chart created in the separate area

To view the part of the chart located to the right of the current moment along the axis, you can specify the tight offset in the **Tech. analysis** window by using the **Window settings/ Offsets** context menu item.

Crossed indicator chart ticker indicates errors in indicator code (for the user indicators only!). You can view the error details via the **Show errors** context menu item, opened from the indicator chart or its ticker, or by double-clicking the indicator ticker in the **Tech. analysis** window area.

9.4.1. Creating indicator charts

To create an indicator chart, you should first create the series chart. Indicator charts always derive from the main one, that is why you cannot create indicator charts separately.

By default, the indicator chart can be created either in a new separate area of the **Tech. analysis** window or in the same area with the series chart. These parameters can be specified in the **Scaling** section, along with the indicator appearance settings (the **View** tab of **Indicator editor**) – see section 9.8.1.

You may move the indicator chart to any area in the window (see section 9.5.5) and pin it to any axis (see section 9.5.4).

All the operations applicable to the instrument charts are also applicable to the indicator charts. Changing a main chart parameters (for example, time frame value) will affect the indicator chart appearance as well.

You can create an indicator chart by the following methods:

- from the **Tech. analysis** window, by pressing the button on the instrument panel;
- by pressing the **Add** button in the **Indicators** tab of the **Object manager** window (the button on the instrument panel of the **Tech. analysis** window see section 9.7);
- via the Add indicator context menu item, opened by pressing the right mouse button on the selected series chart.

All the operations applicable to the instrument charts are also applicable to the indicator charts, i. e. you can select them, move, delete or pin to another axis. Please note that you cannot change the time frame and chart creation time interval values; they are inherited from the series chart.

Procedure 9.6. Creating of indicator chart using toolbar in the Tech. analysis window

- 1. Press the button on the instrument panel of the **Tech. analysis** window.
- 2. In the Indicator selection window (see section 9.4.2), select the instrument you need in the Series field.
- 3. In the indicator list, select the indicator you need by placing cursor on it.

- 4. Press OK.
- 5. The indicator chart will be added into the **Scaling** section (see section 9.4.3) in accordance with the specified parameters.

Indicator editor (see section 9.8) is used for creating indicator charts different from the ones in the standard list. Using the editor, you can edit the existing indicator codes or add new ones.

All edited indicators along with newly created ones are listed in the general indicators list, so that you can work with them as you do with any other standard indicator – see section 9.4.1. If you make a change to indicator code for an indicator chart, that has been already created and added into the **Tech. analysis** window, its ticker will be marked with '*' symbol (for example, **MACD:RIZ,1 min***), which means that the current indicator code differs from the one the chart has been created with. To create an indicator chart with the new code, close the previously added chart and create it anew.

9.4.2. Indicator selecting window

The Indicator selection window is used for selecting indicator selection mode (see section 9.4.1).

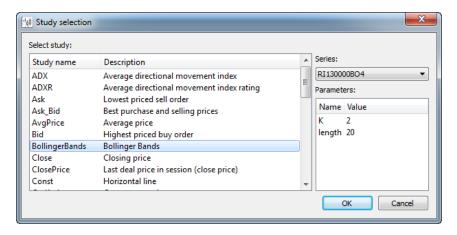


Fig. 9.11. Indicator selecting window

In the drop-down list of the **Series** field select a series to create chart. The drop-down list contains only the series for charts already added into the **Tech. analysis** window, including hidden charts. Every record in the list corresponds to the particular chart ticker. In case there are more than one chart for the same instrument in the window, the list will contain all of them, so that you will be able to select any such record for creating the indicator.

The **Parameters** section contains parameters of the selected indicator (the one under the mouse cursor). To edit a parameter value, double-click a record with the left mouse button. The record then will be switched into the edit mode and coloured in blue.

To create an indicator, click its name in the list and press **OK** (see fig. 9.11).

The **Tech. analysis/ Indicator editor** main menu item is used for editing the indicator location (in case you need to edit the default value). In order to do this, open an indicator in the edit mode (the **Open** button – see fig. 9.11) and enter a new value in the **Scaling** section of the **View** tab:

- Separate axis the indicator chart will be added into a separate area of the current Tech. analysis window;
- Series axis the indicator chart will be added into the area containing the series chart and pinned to the series axis.

After adding new indicators into the appropriate folder (simply by copying), you should reopen the **Indicator selection** window to make the new indicators visible in the list (see fig. 9.11).

9.4.3. Indicator chart properties

You can open the indicator chart properties window by the following methods:

- · via the Properties context menu item, opened from the previously selected ticker or ticker chart;
- in the **Object manager** mode (**Ctrl+J** or the button of the **Tech. analysis** window instrument panel), by pressing the **Properties** button. Note, that a chart should be previously selected in the **Indicators** tab.

The chart properties are displayed in a separate window - see fig. 9.12.

Some of the properties are totally equal to that of the indicator chart properties (**Settings/ Terminal settings/ Charts and TA** tab **Indicators** – see section 9.9.6).

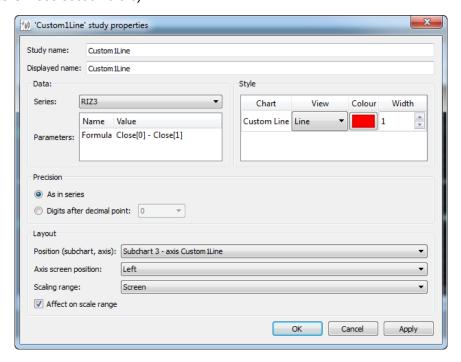


Fig. 9.12. Indicator chart properties

The main chart parameters are described in tab. 9.11.

The Indicator name field contains indicator name as it displayed in the Indicator selection window (fig. 9.11).

The **Displayed name** field contains chart name as it displayed in the **Tech. analysis** window. The indicator chart name is editable, that is why it may not correspond to the indicator name.

You can specify the number of digits after decimal point for the vertical axis value in the **Precision** section by selecting one of the following options:

- As in series the number of digits after decimal point as that of the series chart;
- **Digits after decimal point** the number of digits after decimal point can be set manually or selected from the drop-down list.

The indicator properties window allows to specify the chart location in the **Tech. analysis** window via the **Position** (subchart, axis) field. Using this option, you can move chart from one area into another or add the chart into a new separate area. The **Position** field value can be selected in the drop-down list among the following objects:

- all active areas with charts. For each area, there are two options available: a separate axis or axis of a chart in this area. Therefore, you can pin the chart in the area to a separate axis or to an axis of chart already added into the area;
- a new area, if the selected chart if the selected chart is not alone in the area. The chart then will be moved into a separate area;
- series axis. The selected chart will be pinned to the axis of the chart of its series and moved into the appropriate area. The menu item is unavailable for indicators which are created based on more than one series.

The **Scaling range** field in the **Chart properties** window displays the maximum and the minimum values of the chart along the vertical axis in the current moment of time.

The **Affect scale range** option allows to define whether the indicator chart values will affect the automatic scaling or not. The option is useful only for the indicator charts pinned to a single axis with an other chart. When the option is disabled, the current indicator values will not affect the automatic scaling, therefore, the scaling will be performed based on the other charts values of the same axis (this may lead to situation when a part of the indicator chart will be hidden from the window). By default, the option status is specified within the indicator code - see section 9.8.1.

For the indicator charts, the **Properties** window also contains the series charts tickers in the **Series** section, for which the indicators have been calculated.

The **Style** table (right) of the **Indicator properties** window (fig. 9.12) contains the chart tickers for the indicator; there can be more than one of them for a single indicator. You can specify view and colour of every indicator. To specify view, double-click a cell in the **View** column with the left mouse button, press the button with small arrow and select the option you need in the drop-down list: line, histogram or dots. To change the chart colour, press an appropriate colour cell.

List of parameters of indicators can be found in the **Data** section of thee **Parameters** table (fig. 9.12); to check a parameter value, double-click a field with parameter value with the left mouse button. This method allows to change some parameters of an already created indicator editing its code. After some changes have been made, the indicator chart will be redrawn according to the new values.

9.5. Actions with charts

This section contains information about main actions with charts and answers the following questions:

- · how to change a chart instrument;
- · how to add more than one chart into the same window area:
- how to move chart into a new area of the current window;
- · how to pin several charts to the same vertical axis;
- · how to move a chart;
- · how to hide a chart;
- · how to change a chart name;
- · how to remove a chart;
- · how to change scale of a chart.

9.5.1. How to change a chart instrument

Sometimes it may be necessary to change the instrument code of a chart, without removing indicators. To do this, use the **Select another instrument** context menu item, opened from the series chart. The instrument list will appear on the screen, where you can select an instrument you need by double-clicking it with the left mouse button or pressing the **OK** button.

The chart in the current **Tech. analysis** window will be redrawn according to the newly selected instrument. All the indicator charts will be also redrawn, accordingly.

9.5.2. How to add more than one chart into the same window area

A single window area can contain as many charts as it is needed. Below are the methods for adding more than one chart into the same area:

• To move chart from one area into another, select a chart and drag it into another area of the **Tech. analysis** window with the left mouse button (the mouse cursor will change to the chart release the left mouse button.

Please note, that using this method you can move charts between areas within the same window. You cannot move charts between windows.

- Also, you can move chart from one area into another by changing its properties in the **Properties** window via the **Object manager** context menu item (see section 9.7) by changing value in the **Position** field.
- You can add a new chart into the existing Tech. analysis window. To do this, select an instrument either in the All
 trades/ requests, Financial instruments, Order-book window or in the Favorite instruments section of the side
 panel. Select the instrument you need by clicking it with the left mouse button and drag into an area of the Tech.

9.5.3. How to move chart into a new area of the current window

You can move a chart into a new area of the current **Tech. analysis** window by the following methods:

- via the **Properties** window, opened from the context menu or via **Object manager** (see section 9.7), by changing the **Position** field value. A new value can be selected in the **New subchart** drop-down list;
- by selecting a chart and drag it to the time axis using the left mouse button.

9.5.4. How to pin several charts to the same vertical axis

A single area can contain no more than 3 vertical axis at once. Adding more vertical axis will remove some of the existing ones.

By default, every new chart is added or moved along with its own vertical axis. But it may be reasonable to put some charts with equal scales to the same vertical axis.

Also, sometimes it may be convenient to put a series chart and its indicators to the same vertical axis.



Fig. 9.13. Charts with different vertical axis



Fig. 9.14. Charts with the same vertical axis

Procedure 9.7. How to pin several charts to the same vertical axis

- 1. In the **Tech. analysis** window, open the **Properties** window by with one of the following methods:
 - · via the **Properties** context menu item, opened on the selected chart;
 - via **Object manager** (the button of the instrument panel), by pressing the **Properties** button.
- 2. Change the **Position** window value (the axis) by selecting it in the appropriate drop-down list.
- Press Apply or OK.
- The chart will be pinned to the selected vertical axis.

Procedure 9.8. How to unpin a chart from a vertical axis

- In the Tech. analysis window, open the Properties window by with one of the following methods:
 - · via the Properties context menu item, opened on the selected chart;
 - via **Object manager** (the button of the instrument panel), by pressing the **Properties** button.
- 2. Change the **Position** window value (the axis) by selecting it in the appropriate drop-down list. Please note, that you should select a separate axis in the area you want to move your chart to;
- Press Apply or OK.
- 4. The chart will be unpinned from the shared vertical axis and pinned to the selected axis in the selected area

By moving a chart pinned to a vertical axis with other charts, the chart will be unpinned from the shared axis and pinned to its own separate one in the selected area.

9.5.5. Moving charts between areas of the current window

It is unable to move charts from one **Tech. analysis** window to another. All you can do is to move charts from one area into another within the same **Tech. analysis** window.

You can move charts from one area into another by the following methods:

- select a chart and drag it using the left mouse button;
- in the **Properties** window of the chart (see section 9.3.2), changing value in the **Position** field by selecting the area name in the appropriate drop-down list. To select a new separate area select the **New subchart** value. Please mind the axis name in each area in order not to pin your chart to any other axis.

9.5.6. How to find a 'lost' chart

Sometimes you may 'loose' a chart which had has been moved out of the window borders. To 'find' the chart, you should

select the chart ticker and use the button on the instrument panel of the **Tech. analysis** window to select any of the automatic scaling options; the automatic scaling options are also available in the context menu opened on the selected chart. After the automatic scaling option is applied, the chart will be displayed in the **Tech. analysis** window.

9.5.7. How to hide a chart

You can hide a chart using **Object manager** (the button on the instrument panel of the **Tech. analysis** window), by changing value in the **Visibility** with the left mouse button.

Hidden charts are not displayed in the **Tech. analysis** window but still remain active. This means that you are still able to view all series chart indicators without viewing the chart itself.

Also, you can hide a chart using the **Hide** context menu item (the context menu must be opened from this chart or from the chart ticker).

To make the chart visible again, you should change the change value in the Visibility field.

When there are no visible objects left in the **Tech. analysis** window, the **Object manager** manager button (see fig. 9.15) appears in the main window area. Press this button to make objects visible via **Object manager**.

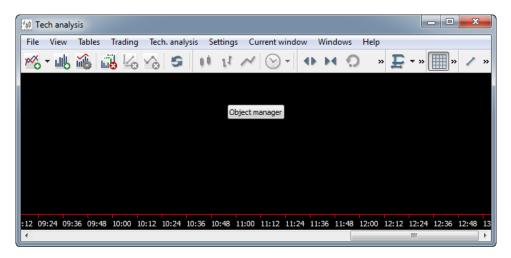


Fig. 9.15. The Tech. analysis window (all objects are hidden)

9.5.8. How to change a chart name

Every chart has its own name aka ticker, which consist of two parts. You can edit the first part of the ticker, which consists of the instrument code or indicator name. The second part contains some additional information about chart, and is not editable.

You can change a chart name by one of the following methods:

- by double-clicking a chart ticker in the upper-left corner of the **Tech. analysis** window. When the cusror starts to blink, enter the chart new name into the appropriate field. Press **Enter** to finish;
- by opening the **Properties** window of a chart or an indicator and edit text in the **Displayed name** window. To save the changes you have made, press **OK** or **Apply**.

9.5.9. How to remove a chart

You can remove a chart in the **Tech. analysis** window by one of the following methods:

- via the **Remove** context menu item, opened from the selected chart;
- by pressing the **Delete** key on the keyboard (you should select a chart before);
- via **Object manager** (the button of the instrument panel), by pressing the **Remove** button;
- by pressing the button of the instrument panel (you should select a chart before);
- by deleting all indicator charts via the button of the instrument panel.

Deletion an instrument chart causes deletion of all its indicator charts. Before deletion is complete, the confirmation dialog will appear on the screen.

You cannot remove the last series chart left in the **Tech. analysis** window; when there is the last chart left in the window, the **Remove** button becomes inactive.

Removing the last chart in the **Tech. analysis** window causes closing of the area it was located in.

Deletion of an area in the **Tech. analysis** window (the **Delete** context menu item opened from the area) causes deletion of all the charts it contains.

9.5.10. How to change scale of a chart

You can change scale of a chart by the following methods:

- by changing the horizontal axis scale using the and buttons of the instrument panel. The horizontal (time) axis is the same for all charts in the **Tech. analysis** window, so that changing its scale will affect all the charts in the window;
- by changing the vertical axis scale using the and buttons of the instrument panel. The changes will be applied to the axis of the selected chart. If no charts has been selected, the changes will be applied to any series chart in the **Tech. analysis** window;
- by zooming in the selected part of the chart: press the using mouse (click the left mouse button and stretch the square to the area you want to select);
- by changing scale smoothly with mouse: click the left mouse button on the axis and move cursor from left to the right, and vice versa, zooming the chart in and out along the selected axis;
- by undoing the changes you made. Pressing the button will return you back to the default scale settings;
- by selecting the standard scaling settings: for the screen (Ctrl+F) or for the whole series (Ctrl+D). The allows to select scaling type.

9.5.11. How to move a chart along the time axis

You can move a chart along the time axis by the following methods:

- · using horizontal slide-bar;
- using the 'Right' and 'Left' arrow buttons on the keyboard;
- using the mouse wheel (if there is one);
- pressing the End button to jump to the chart end.

9.6. Additional elements - graphical objects

The support and resistance lines are widely used in technical analysis.

Resistance levels connect critical market peaks. They appear when price ceases rising and starts to fall. When the resistance level is broken through, it becomes support level.

Support levels connect critical market bottoms. They appear when price ceases falling and starts to rise. When support level is broken through, it becomes resistance level.

Support and resistance levels can be displayed as trend lines, horizontal lines and Fibonacci lines.

The **Tech.** analysis window allows to add support and resistance levels lines via the following buttons:

- - trend line with arbitrary angle support/resistance level;
- horizontal line support/resistance level;
- - Fibonacci lines;
- Fibonacci arcs:
- - Fibonacci fan.

The additional elements are pinned to vertical axis of any chart within the current area. Therefore, your actions with a chart such as deleting, removing, etc.) will not affect the support/resistance lines (for details see section 9.6.8 and section 9.6.9). In case of moving a chart, the trend line (resistance line) will also move up and down along the axis following the chart.

In order to know the axis a trend line is pinned to, you should view the **Axis** field value of the line parameters – see section 9.6.6. To change the axis for the trend line, enter a new value in the **Axis** field.

The additional graphical objects are displayed in the **Tech. analysis** window within the specified time interval. I. e., if the time period is set as '2 days', you will be able to see trend lines added yesterday. Unlike the previous case, if the time period is set as '1 day', the **Tech. analysis** window will not display the trend line added yesterday.

9.6.1. Trend line

Trend line is a tool, which indicates the current market trend (price direction). Trend line tends to catch a moment when price break through trend line moving down with up trend and moving up with up trend.

Trend line – is a straight line which connects two maximum or minimum price points of a chart.

To add a trend line, press the button on the instrument panel of the **Tech. analysis** window – see procedure 9.9;



Fig. 9.16. Trend line

Procedure 9.9. How to add a trend line

- 1. In the **Tech. analysis** window, press the button on the instrument panel;
- Click the initial point of the trend line with the left mouse button. After that, release the mouse button;
- 3. Place the mouse cursor to the end point of the trend line and click the left mouse button;
- 4. The trend line will be added into the window, connecting the two points. You can edit the trend line inclination and location in the current area by dragging its initial and end points using your mouse.

9.6.2. Resistance and support levels

Resistance and support levels are located parallel to the time axis.

To add a resistance/support level in the window, press the button on the instrument panel of the **Tech. analysis** window – see procedure 9.10.



Fig. 9.17. Resistance and support levels

The value on the line indicates the level position on the vertical axis.

Procedure 9.10. How to add a resistance /support level

- 1. In the **Tech. analysis** window, press the button on the instrument panel;
- 2. Click a point on the vertical axis with the left mouse button. After that, release the mouse button;
- The trend line will be added into the window as an infinite straight horizontal line starting from the selected point. You can move the trend line up and down along the vertical line by clicking and dropping its blue points using your mouse.

9.6.3. Fibonacci lines

Fibonacci lines are used for analyzing and forecasting marketing trends for different financial instruments. Using Fibonacci lines, traders are able to define correction course along with strong resistance and support levels.

When drawing Fibonacci levels, a trend line connecting two extreme points is added first. After that, the 38,2%, 50% and 61,8% Fibonacci levels starting points are added onto the trend line. Then, horizontal lines (Fibonacci levels themselves) are added starting from these three points.

To add Fibonacci levels, use the button of the instrument panel in the **Tech. analysis** window – see procedure 9.11.



Fig. 9.18. Fibonacci lines

Procedure 9.11. How to add Fibonacci lines

- 1. In the **Tech. analysis** window, press the button of the instrument panel.
- 2. Click the initial point with the left mouse button (dash line see fig. 9.18). Release the mouse button.
- 3. Click the end point with the left mouse button. Release the mouse button.
- 4. The trend line will be added into the window as dash line with marked initial and end points. You can change angle of the trend line by dragging and dropping its initial and end points using your mouse. Fibonacci levels will be addes automatically in accordance with the specified values.

Every Fibonacci line displays absolute value along the vertical axis and percentage according to the initial point.

9.6.4. Fibonacci arcs

Fibonacci arcs are used to forecast possible price resistance and support levels locations. To improve the forecast results, **Fibonacci fan** (see .9.5.5) is also added into the window. In this case, support level is defined as the crosspoint of these two objects.

When drawing Fibonacci levels, a trend line connecting two extreme points is added first. After that, the 38,2%, 50% and 61,8% Fibonacci levels starting points are added onto the trend line. Then, arcs are added into the window, with center in the second point.

To add Fibonacci arcs, use the button of the instrument panel in the **Tech. analysis** window – see procedure 9.12.



Fig. 9.19. Fibonacci arcs

Procedure 9.12. How to add Fibonacci arcs

- 1. In the **Tech. analysis** window, press the button of the instrument panel.
- Click a point in the window, where you want center of the arcs to be added, then, holding the left mouse button pressed, drag the mouse cursor to another extreme point, where the arc with the biggest radius will be added (dash line - fig. 9.19).
- 3. Click the left mouse button on the end point.
- 4. The trend line will be added into the window as dash line with marked initial and end points. You can change angle of the trend line by dragging and dropping its initial and end points using your mouse. Fibonacci arcs will be addes automatically in accordance with the specified values.

Every Fibonacci line displays absolute value along the vertical axis and percentage according to the initial point.

9.6.5. Fibonacci fan

Fibonacci fan is a sort resistance/support levels. To get more precise forecast results, it is recommended to use other Fibonacci tools as levels and arks along with Fibonacci fan.

When drawing Fibonacci fan, a trend line connecting two extreme points is added first. Then, an 'invisible' vertical line crossing the second point is added. After that, three trend lines are added, crossing the 'invisible' vertical line at the 38,2%, 50% and 61,8% Fibonacci levels.

To add Fibonacci fan, press the 9.13.

button of the instrument panel in the Tech. analysis $\mathsf{window}-\mathsf{see}$ procedure



Fig. 9.20. Fibonacci fan

Procedure 9.13. How to add Fibonacci fan

- 1. In the **Tech. analysis** window, press the button of the instrument panel.
- 2. Click a point you want to start the line connecting extreme points (dash line see fig. 9.20) with the left mouse button. Release the mouse button.
- 3. Place mouse cursor to where you want to draw the trend line and click the left mouse button.
- 4. The trend line will be added into the window as dash line with marked initial and end points. You can change angle of the trend line by dragging and dropping its initial and end points using your mouse. Fibonacci levels will be addes automatically in accordance with the specified values.

Every Fibonacci line displays absolute value along the vertical axis and percentage according to the initial point.

9.6.6. Trend line properties

Trend line properties are displayed in a separate window. To open the window, use the **Properties** context menu item opened on a trend line.

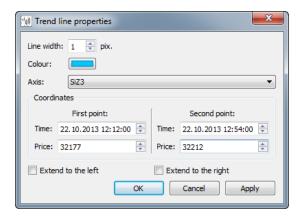


Fig. 9.21. Trend line and Fibonacci lines properties



Fig. 9.22. Horizontal line properties

Tab. 9.2. Trend line properties

Parameter	Details
Line width	Line width in pixels. To change it, type a new value using your keyboard or use the small arrows.
Colour	Line colour. To change it, press a colour field (button). To select a new colour, use the standard Select colors window.
Axis	Axis name, to which line is pinned. To change the axis, select a new one in the drop-down list, containing the complete list of all axis you can pin the line to.
	Coordinates (the left and the right points, separately)
Time	Time axis coordinates.
Price	Vertical axis coordinates.
	Options and buttons
Extend to the left	The option allows to extend line infinitely to the left. To enable/disable the option click the left mouse button.
Extend to the right	The option allows to extend line infinitely to the right. To enable/disable the option click the left mouse button.
ОК	Confirms the changes you made and closes the properties window.
Cancel	Cancels the changes you made and closes the properties window.
Apply	Applies the changes you made and closes the properties window.

9.6.7. Moving trend lines

To edit trend line direction and location in the current area of the **Tech. analysis** window, you should do the following:

- 1. Select a trend line as object by clicking it with the left mouse button.
- 2. Move direction points (blue dots) by dragging them using your mouse.
- 3. Move the entire line, clicking its body and dragging it to another location.

9.6.8. Moving charts including its trend lines

When moving a chart, for which trend lines have been added, the following moving options are available:

- 1. You can move the chart including its trend lines ifthe trend lines are pinned to the chart axis, and there are no more charts in the current window area pinned to the same axis.
- 2. You can move a chart into a new area, leaving its trend lines in the current area if
 - trend lines are pinned to another charts axes;
 - there are some charts in the current area pinned to the same axis.

9.6.9. Removing graphical objects

You can remove graphical object by the following methods:

- · via the **Remove** context menu item, opened from a graphical object;
- · by selecting an object and pressing the **Delete** key on your keyboard;
- by clicking the **Remove** button in the **Object manager** mode (the **Drawings** tab;
- by selecting an object and clicking the button of the instrument panel;
- by removing all graphical objects from all areas of the current **Tech. analysis** window via the button of the instrument panel.

Before removing an object, you will receive the confirmation dialog: 'Are you sure you want to remove the trend line?'. Press **Yes** to confirm or **No** to cancel.

If a trend line is pinned to an axis of the chart to be removed last, this trend line will be also removed. Generally: trend lines are removed along with the last chart on the axis.

The graphical objects are pinned to the vertical line, so that they may remain in the window – see section 9.6.8).

9.6.10. Graphical objects visibility

All graphical objects in the Tech. analysis window may be either visible or hidden. To manage yhis option, you should

use the **Object manager** mode (the button of the instrument panel in the **Tech. analysis** window), by changing the **Visibility** field value in the **Drawings** tab. To change the value, use the left mouse button.

A hidden object in the **Tech. analysis** window still remains active.

Also, you can hide an object via the **Hide** context menu object, opened on the object or on its ticker.

You can make a hidden object visible only via Object manager, by changing the value in the Visibility field.

9.7. Object manager

The **Object manager** window allows to view and setup all objects of the **Tech. analysis** window. You can open the **Object manager** window from the **Tech. analysis** window by the following methods:

- by clicking the button of the instrument panel;
- by pressing the Ctrl+J key combination;
- via the Object manager context menu item, opened in any point of the charts window.

The window allows to work with the graphical objects (series charts, indicators, trend lines) preferences without selecting the objects.

The **Object manager** allows to hide objects in the **Tech. analysis** window, leaving them active. It may be useful when you do not need a chart in the window, but cannot delete it as you have some other charts based on it. To show/hide an object in the window, click the **Visibility** (see fig. 9.23) column with the left mouse button . You can hide any of graphical object using the appropriate tab of the **Object manager**.

You can hide some previously hidden objects enabling the Visibility option for the hidden objects.

There are three tabs in the **Object manager** window:

- Series (see fig. 9.23) all series charts in the current Tech. analysis window;
- Indicators (see fig. 9.24) all indicator charts in the current Tech. analysis window;
- Drawings (see fig. 9.25) all graphical objects in the current **Tech. analysis** window.

Tab. 9.3. Function buttons in the Object manager window

Button	Details
Properties	Opens the Instrument chart properties , Indicator properties or Trend line properties window, depending on the tab. For chart properties details, see section 9.3.
Remove	Deletes the selected object.
	Before deleting, you will receive a confirmation dialog: 'Are you sure you want to delete chart? All indicators based on this series will be also deleted'. Select Yes to delete the series chart including all its indicator charts.
	You cannot delete the last series chart in the window. The button will be disabled.
	Before deleting an indicator chart, you will receive a confirmation dialog: 'Are you sure you want to <i>delete indicator?</i> ' Select Yes to delete the indicator chart.
	Before deleting a graphical object, you will receive a confirmation dialog: 'Are you sure you want to delete the trend line?'. Select Yes to delete the graphical object.
Add	Opens the Select instrument window(see section 5.11.1) in the Series tab. After selecting an instrument, a new area will be added into the window, containing the chart for the selected instrument. Also, a new record with the new object will be added into the Object manager window into the Series tab.
	Opens the Indicator selection window (see section 9.4.2) in the Indicators tab. After selecting an instrument, a new indicator chart will be added into the window. Also, a new record with the new object will be added into the Object manager window into the Indicators tab.
Close	Closes the Object manager window.

The **Object manager** allows to do the following actions:

- · hide a graphical object using the Visibility option;
- view and change an object properties clicking the Properties button: for example, the object location and the axis it
 is pinned to. Also, you can open the Properties window by double-clicking a record in the Object manager window
 with the left mouse button;
- · delete an object from the Tech. analysis window using the Remove button;
- add a new object into the **Tech. analysis** window using the **Add** button.

9.7.1. The Series tab

The **Series** tab of the **Object manager** window contains all instrument charts names for the charts added into the current **Tech. analysis** window.

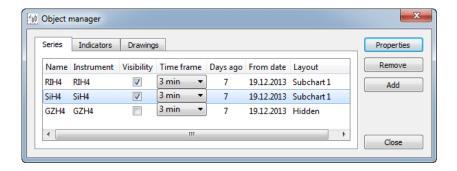


Fig. 9.23. Object manager. Series.

Tab. 9.4. Parameters in the Series tab (Object manager)

Parameter	Details
Name	Chart name in the charts window - chart ticker in the Tech. analysis window. By default, consists of the code of the series, to which the chart belongs.
	You can change the chart name - see section 9.5.8.
Instrument	Code of the series, to which the chart belongs.
Visibility	Chart visibility option in the Tech. analysis window. When option is enabled, the chart is visible, and vice versa.
Time frame	Data aggregation time period.
	This parameter can be changed by double-clicking the Time frame field with the left mouse button.
Days ago	How many days ago the chart has been added. ${f 1}-$ todays data, ${f 2}-$ yesterdays and todays etc.
From date	The date to count back from.
Location	The Tech. analysis window area, where the chart is located. The areas are arranged by se quence top to bottom.
	If a chart is hidden, its area is not listed.

9.7.2. Indicators tab

The **Indicators** tab of the **Object manager** window contains all indicators for all charts added into the **Tech. analysis** window.

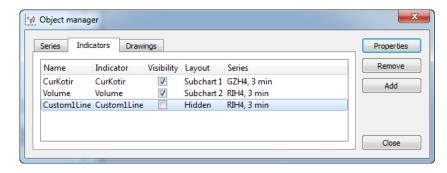


Fig. 9.24. Object manager. Indicators.

Tab. 9.5. Parameters in the Indicators tab (Object manager)

Parameter	Details
Name	Chart name in the charts window - chart ticker in the Tech. analysis window.
Indicator	Indicator name, to which the chart belongs.
Visibility	Chart visibility option in the Tech. analysis window. When option is enabled, the chart is visible, and vice versa.
Location	The Tech. analysis window area, where the chart is located. The areas are arranged by sequence top to bottom.
	If a chart is hidden, its area is not listed.
Series	Series chart ticker, which the indicator belongs to – the Name column value in the Series tab.

9.7.3. Drawings tab

The **Drawings** tab of the **Object manager** window contains all additional graphical objects for all charts added into the current **Tech. analysis** window.

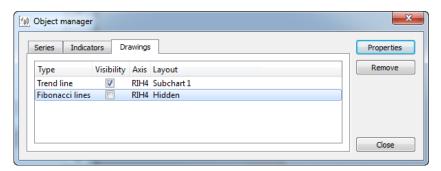


Fig. 9.25. Object manager. Drawings.

Tab. 9.6. Parameters in the Drawings tab (Object manager)

Parameter	Details
Туре	Types of graphical objects:
	trend line;
	horizontal line;
	Fibonacci lines, arcs, fans.
Visibility	Object visibility option in the Tech. analysis window. When option is enabled, the object is visible, and vice versa.

Parameter	Details
Axis	Ticker of the vertical axis, to which the object is pinned.
Location	The Tech. analysis window area, where the object is located. The areas are arranged by sequence top to bottom.
	If an object is hidden, its area is not listed.

9.8. Indicator editor

You can edit indicator code or create a new code via the **Tech. analysis/ Indicator editor** main menu item or by pressing the **Shift+E** key combination.

The Indicator editor window consists of two tabs:

- · Indicators:
- · Functions.

To work with indicators or with functions, click the appropriate tab.

The indicators and functions code is written using an advanced version of **QScript**.

9.8.1. Indicator code editor

You can edit indicator code or create a new code via the **Tech. analysis/ Indicator editor** main menu item in the **Indicators** tab.

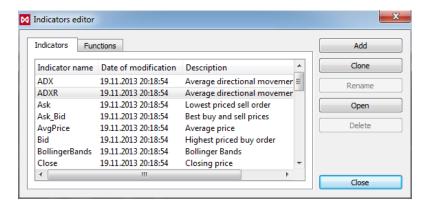


Fig. 9.26. Indicator code editor

Initially, you have a set of standard indicators installed together with the application, but you are able to add some more user created indicators. Every indicator has its own name, date of last modification and a brief description.

You cannot edit or delete standard indicators, that is why the **Rename** and **Delete** buttons are disabled for them. If you do need to edit a standard indicator, you can clone it (the **Clone** button) and then edit the cloned indicator as any other user created one.

The **Open** button allows to view code of standard indicator. For user created indicators, you can view and also edit their code.

After you added some more indicator files into the appropriate file folder on your computer, please reopen the **Indicator editor** window (fig. 9.26) to make the new indicators displayed.

To work with the indicators list, please use the buttons in the right side of the window - fig. 9.26.

To add a new indicator in the list use the **Add** button. A window will appear on the screen, where you should enter a new indicator name and press **OK**:

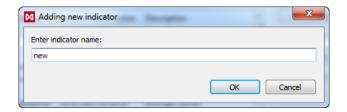


Fig. 9.27. Adding a new indicator

In the next window, you should add the indicator function code and a brief description:

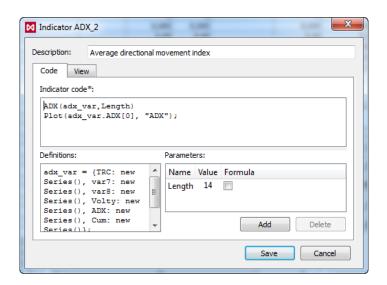


Fig. 9.28. Entering indicator code

The **Description** field is not mandatory and may remain empty.

The **Indicator code** field in the **Code** tab is used for entering the indicator code in **QScript** language (the ECMA standard) extended with the elements necessary for programming indicators. You can know more about the ECMA standard language constructions and syntax at http://www.ecma-international.org/publications/standards/Ecma-262.htm. To know more about **OScript** see section 9.8.3.

The **Indicator code** is mandatory, that is why it is marked with asterix. The **Save** button remains disabled until you entered something onto the **Indicator code** field. After you clicked the Save button, the new indicator will be saved and displayed in the list in the top position - fig. 9.28.

The script code entered into the Indicator code field executes for every bar of the chart.

The **Definitions** field contains commands, which execute only once, at start (for example, a variable declaration command).

The **Parameters** field allows you to set or edit some parameters values. The parameters values set there are used as the default values for this indicator. To add or delete a parameter value, please use the **Add** and **Delete** buttons, respectively.

You can also use formulas as parameters: for example, **Formula** (in the **Name** field) - **Close[0]-Close[1]** (in the **Value** field), the **Formula** check-box must be checked in. After that, the formula will be executed for every bar of the chart (repeatedly). Please note, that If the **Formula** check-box is not checked, the formula will execute only once. This may lead to erroneous indicator value calculation.

To edit code in any area of the window, please use the standard keys such as **Enter** or **Backspace**. To enable the edit mode in the **Parameters** area, double-click a field (**Name** or **Value**) with the left mouse button.

The **View** tab for indicator charts is used to specify the indicators style and location parameters - see fig. 9.29:

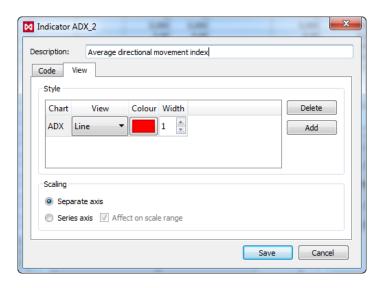


Fig. 9.29. Chart style indicator

You can specify the following parameters for every indicator:

- Chart the indicator chart name. To edit the value, double-click it with the left mouse button. One indicator may
 have several charts;
- **View** chart style (line, histogram or dots). To select a value, double-click the table cell with the left mouse button and select a value in the drop-down list;
- **Colour** chart colour scheme. To select a new colour, click it in the palette, and make the appropriate actions using the standard **Select Color** window;
- Width width of indicator chart lines;
- Scaling location, to where the chart of the indicator will be added by default:
 - Separate axis the indicator chart will be added into a new separate area in the current Tech. analysis window;
 - Series axis the indicator chart will be added into the area containing the series chart and pinned to the series axis.
 - Affect scale range this option is available only if the indicator chart is pinned to the same axis with the series chart. When the option is enabled, the automatic scaling will affect both series and indicator charts. When the option is disabled, the automatic scaling option will affect the series chart only. This may lead the indicator chart to be 'lost' beyond the window borders.

To save the changes click **Save**, to exit without saving click **Cancel**.

The **Clone** button (fig. 9.26) is used to duplicate an existing indicator. To duplicate an indicator, place the mouse cursor on the indicator name and click **Clone**. A window, containing the indicator name (same as fig. 9.27) will appear on the screen. By default, the new indicator is named after the source indicator, for example **Clone_2**. The name can be changed. The new indicator with the new name will be displayed in the indicator list. Please note, that code of the new indicator will be fully equal to that of the source indicator.

The **Rename** button (fig. 9.26) allows to rename an indicator in the list. To do this, place the mouse cursor on the appropriate indicator name, click the **Rename** button and enter a new indicator name, then click **OK** - fig. 9.27.

The **Open** button allows to change indicator code, its description or visual style. To do this, place the mouse cursor on the appropriate indicator name and click the **Open** button. A window will appear on the screen, where you will be able to edit the indicator code, description and style. After editing is complete, click **Save** - fig. 9.28. Also, you can switch to the edit mode by double-clicking the indicator name in the list with the left mouse button.

The **Delete** button (fig. 9.26) allows to delete an indicator from the list. Before deleting, you will receive the confirmation dialog: ;Are you sure you want to delete indicator?'. To confirm deletion, click **Yes**, to cancel click **No**.

The Close button (fig. 9.26) closes the Indicator editor window.

9.8.2. Functions editor

For your convenience, you can use functions for programming indicators. To edit code of an existing function or program a new function, use the **Tech. analysis/ Indicator editor** main menu item in the **Functions** tab.

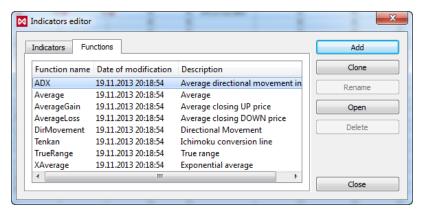


Fig. 9.30. Functions editor

Initially, you have a set of standard functions installed together with the application, but you are able to add some more user created functions. Every function has its own name, date of last modification and a brief description.

To work with the functions list, please use the buttons in the right side of the window - fig. 9.30.

To add a new function in the list use the **Add** button. A window will appear on the screen, where you should enter a new function name and press **OK**:

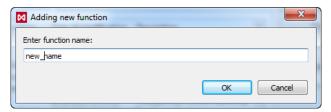


Fig. 9.31. Adding a new function

Then, the window for will appear on the screen, where you should enter the function code and its description:

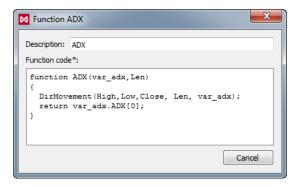


Fig. 9.32. Entering function code

The **Description** field contains the function description, and is not mandatory.

The field below contains the function code, and is mandatory. You can enter and edit code right in the field using the standard keyboard keys.

After clicking the **Save** button, the function will be saved and appear in the top of the functions list - fig. 9.30.

he **Clone** button (fig. 9.30) is used to duplicate an existing function. To duplicate a function, place the mouse cursor on the function name and click **Clone**. A window, containing the function name (same as fig. 9.31) will appear on the screen. By default, the new function is named after the source function, for example **DirMovement_2**. The name can be changed. The new function with the new name will be displayed in the indicator list. Please note, that code of the new function will be fully equal to that of the source function.

The **Rename** button (fig. 9.30) allows to rename an function in the list. To do this, place the mouse cursor on the appropriate function name, click the **Rename** button and enter a new function name, then click **OK** - fig. 9.31.

The **Edit** button allows to edit the function name or its description. To do this, place the mouse cursor on the function name and click **Edit**. When editing is complete, click the **Save** button – fig. 9.32

The **Delete** button (fig. 9.30) allows to delete a function from the list. Before deleting, you will receive the confirmation dialog: ;Are you sure you want to delete the function?'. To confirm deletion, click **Yes**, to cancel click **No**.

The Close button (fig. 9.30) closes the Indicator editor window.

9.8.3. QScript language extension

QScript language has been used for programming indicators and functions. It is fully complied with the **ECMA** standard specifications.

You can know more about the ECMA standard language constructions and syntax at http://www.ecma-international.org/publications/standards/Ecma-262.htm.

QScript language has been extended and used as a basis for programing indicators. The available **QScript** constructions are listed in tab. 9.7.

Indicator - one or several arrays, which are filled upon execution of script.

Script code executes for each bar.

Important notice! The bar number, the script is executing for, is said to be the current.

Tab. 9.7. QScript language extension

Element	Details
	Arrays
Array[n]	Array cell access by index 'current bar - n'.
	If n is
	 a positive value, then the offset is n bars to the past starting from from the current bar;
	 a negative value, then the offset is n bars to the future starting from from the current bar;
	• is '0', then the current bar is processed.
	Example:
	Close[0] - closing price for the current bar;
	Close[1] - closing price for the previous bar;
	Close[5] - closing price for the bar which is 5 bars earlier than the current one;
	Close[-1] - closing price for the next bar.
Series	Creates a new array to be used later in the Definitions area (see fig. 9.28).
	Example:

Element	Details
	var x0 = new Series() - new array declaration.
Close	Array, where elements are the closing price values of the appropriate bar.
	Close[n]
Open	Array, where elements are the open price values of the appropriate bar.
	Open[n]
High	Array, where elements are the maximum price values of the appropriate bar.
	High[n]
Low	Array, where elements are the minimum price values of the appropriate bar.
	Low[n]
Value	Array, where elements are the volume in money values of the appropriate bar.
	Value[n]
Volume	Array, where elements are the quantity in lots/units of the appropriate bar.
	Volume[n]
OI	Array, where elements are the quantity of the open positions/open interest of the appropriate bar
	OI[n]
	Functions
Plot	Saves values in the array cell.
	Plot(a, "name")
	a - value to be saved in the array cell;
	"name" - array name. This name is used for indicator chart in the View tab (fig. 9.29) - to define appearance of the array.
	Example:
	Plot(Close[0], "Close") - the closing price value of the current bar is saved into the Close array.
Cloud	Specifies area for hatching if the indicator chart consists of several lines.
	This function can be declared only once, i.e. saved into the Definitions area (fig. 9.28).
	Cloud("name1", "name2")
	name1 and name2 - to hatch the area between these indicator lines. The color is taken from the upper line color settings.
	Example:
	Cloud("Senkou Span A", "Senkou Span B") - are used in the Ichimoku indicator. Area between the lines Senkou Span A and Senkou Span B will be hatched.
Level	Adds a straight line to to the level defined by this variable. Adds a new line every time the level value is recalculated.
	Level(a, "name")

Element	Details
	a - variable value;
	name - variable name.
	Example:
	Level(bid, "Bid") - the best buy price value is used. The indicator line name is Bid .
SetOutRunning	Specifies indicator outrun value to draw and indicator chart 'in future'. Used for forecasting.
	SetOutRunning(n)
	n - number of bars to the future starting from the current one to execute the indicator code for. Can be specified either by number or by variable (declared in other section).
	Example:
	SetOutRunning(10) - the indicator code will be executed 10 bars to the future starting from the current bar;
	SetOutRunning(KijunPeriod) - the indicator code will be executed for the number of bars specified in the KijunPeriod parameter to the future starting from the current bar.
SetDelay	Specifies the indicator chart delay value. The indicator line in this case may end earlier than the series chart. This indicator is calculated based on the future charts data.
	SetDelay(n)
	n -number of bars to the past starting from the current one to execute the indicator code for. Can be specified either by number or by variable (declared in other section).
	Пример:
	SetDelay(10) - the indicator line will end 10 bars earlier than the series chart;
	SetDelay(KijunPeriod) - the indicator line will end earlier for the number of bars specified in the KijunPeriod parameter than the series chart.
CurrentBar	Specifies the valid current bar. Equal to the bar number, for which the script is executing. Only valid bars starting from the beginning of the series are counted!.
	CurrentBar(n)
	n - number of the current bar
	Example:
	if (CurrentBar(n) >= Length) - the number of the current bar is compared to the Length variable. The resulting values can be used for some future needs.
Financial i	instrument parameters - instrument's characteristics. Not an array.
ask	Best sell order price.
bid	Best buy order price.
price_Imt_high	Price upper limit.

Element	Details	
price_Imt_low	Price lower limit.	
max_price	Maximum price.	
min_price	Minimum price.	
price	Closing trade price .	
avg_price	Closing trade price .	
cur_kotir	Closing trade price .	
cur_kotir_real	Closing trade price .	
old_kotir	Previous session settlement price.	
open_price	Opening price.	
close_price	Opening price.	
theor_price	Option theoretical price.	
last_cl_quote	Option theoretical price.	
Variables		
Math	An object, containing a mathematical function.	
	Math.Funk(x)	
	Funk(x) - mathematical function name and parameters.	
	Example:	
	Math.sqrt(m) - Square root calculation.	

For better understanding, it is recommended to study this user manual along with the terminal application.

9.9. Chart settings

All new charts use the general settings made via the **Settings/ Terminal settings/ Charts and TA.** main menu item. Also, you can open the general settings window using the **Ctrl+**, key combination. These settings will be used as the default settings for all **Tech. analysis** windows.

You can change settings for already added charts by the following ways:

- via the **Properties** context menu item (see section 9.3). You should select a chart before opening the context menu. The settings made via the context menu will be applicable for the selected chart only:
- via **Object manager** (see section 9.7). You should select a chart first, after that, press the **Properties** button. These settings will be applicable for the selected chart only.

The **Apply** button allows to save the changes you made, without closing the window. The **Cancel** button closes the window without saving the changes, while **OK** saves the changes and closes the **Settings** window.

Sometimes it may be necessary to reopen the **Tech. analysis** window. In this case, you will receive an information message.

For the current window containing charts, you can change the main colour settings using the **Window settings** window (also, you can open it by pressing the **Ctrl+E** key combination). Please note, that these settings will be lost after closing the window. If you want to save the current settings of the **Tech. analysis** window for all windows of this type, you can use the **Current window/ Save by default** main menu item. After that, the main window settings (location, size, data stamp, grid and colour scheme) will be the same for every new opened window containing charts.

9.9.1. Confirmation settings for charts

You can set up confirmation dialog settings for some actions with charts via the **Confirmations** tab (the **Settings/ Terminal settings/ Charts and TA** main menu item).

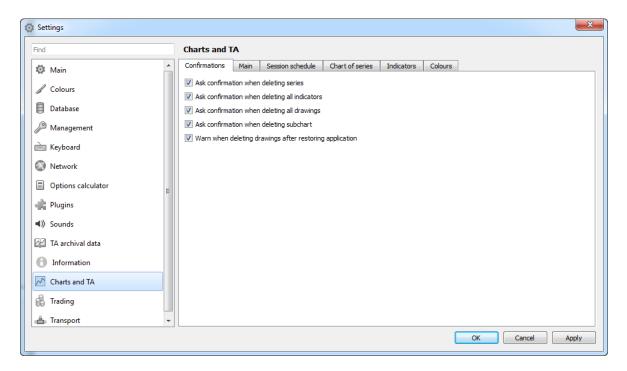


Fig. 9.33. Charts and TA. The Confirmations tab.

Tab. 9.8. Parameters in the Confirmations tab

Parameter	Details
Series deletion confirmation	When the option is enabled, you will receive the confirmation dialog message before deletion a series:
	• 'Are you sure you want to delete chart? All indicators based on this series will be also deleted' – for charts;
	• «'Are you sure you want to delete indicator?' – for indicators.
	Answer:
	• Yes – to confirm deletion;
	• No – to cancel deletion.
	The Do not show next time option allows to disable the confirmation dialog. In this case, the charts will be deleted immediately after pressing OK .
All indicators deletion confirmation	When the option is enabled, you will receive the confirmation dialog message before deletion a series (the button of the instrument panel): 'Are you sure you want to delete all indicators from the window?'
	Answer:
	• Yes – to confirm deletion;

Parameter	Details
	No – to cancel deletion.
	The Do not show next time option allows to disable the confirmation dialog. In this case, the indicators will be deleted immediately after pressing OK .
All graphical objects deletion confirmation	When the option is enabled, you will receive the confirmation dialog message before deletion a series (the button of the instrument panel): 'Are you sure you want to delete all drawings from the window?'
	Answer:
	• Yes – to confirm deletion;
	• No – to cancel deletion.
	The Do not show next time option allows to disable the confirmation dialog. In this case, the graphical objects will be deleted immediately after pressing OK .
Area deletion confirmation	When the option is enabled, you will receive the confirmation dialog message before deletion an area containing some objects: «'Are you sure you want to delete the area? All objects in the area will be also deleted'.
	Answer:
	• Yes – to confirm deletion;
	• No – to cancel deletion.
	The Do not show next time option allows to disable the confirmation dialog. In this case, the area with its objects will be deleted immediately after pressing OK .
Warn when deleting drawings after restoring application	When the option is enabled, you will receive the confirmation dialog message: 'Tech. analysis: Some graphical objects were placed out of displayed range and have been deleted'.
	This situation may occur when the chart contains some graphical objects out of the displayed range.
	The Do not show next time option allows to disable the confirmation dialog. In this case, the graphical objects will be deleted immediately after pressing OK .

By default, all the options are enabled.

9.9.2. Setting bar location

You can set bar location either at the start of its interval or at the end via the **Main** tab (**Settings/ Terminal settings/ Charts and TA** main menu item).

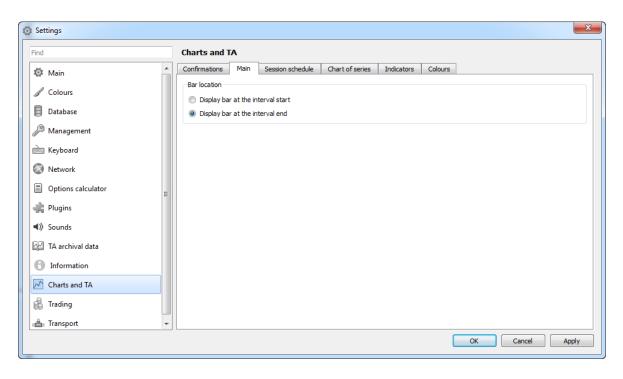


Fig. 9.34. Charts and TA. The Main tab.

This setting is global, i.e. it is applicable to all the newly opened **Tech. analysis** windows. To apply the settings to already opened window, you should reopen them.

9.9.3. Loading data from ISS

The Technical analysis data is obtained from trades aggregated into time-frames (1 second and 60 seconds intervals).

To create charts using archival data, you can load data from the information-statistics server (ISS), via the HTTP protocol.

To manage the data loading parameters please use the **Settings/ Terminal settings/ Charts and TA** main menu item in the **ISS service** tab.

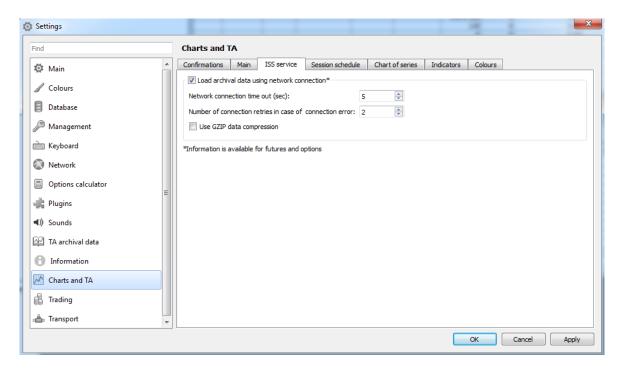


Fig. 9.35. Data load settings

By default, the Load archival data using network connection option is enabled

If the option is enabled, the following parameters become available:

- Network connection time out (sec) time (in seconds) between reconnection attempts;
- Number of connection retries in case of connection error number of reconnection attempts;
- Use GZIP data compression the option allows to use a data compression method in order to reduce loading time.

Currently the data are available for:

- · futures and options market;
- securities market except:
 - REPO-M
- · currency market, ETC instruments;
- indices, with the following restrictions:
 - o data availability is limited up to the yesterday's date data,
 - o the indicative currency indices are not available for downloading from the ISS (for example, USDFIX).

Data for the expired instruments are not loaded. The data is aggregated into time frames of around 1 minute.

Independently on the current data load status, the trading terminal makes attempt to load some already received data stored on disk. In case of their absence, the trading terminal makes attempt to load from disk aggregated trades data. This algorithm is used every trading day, within the user specified time interval.

9.9.4. Session schedule

You can setup trading sessions schedule by days including session halts via the **Settings/ Terminal settings** main menu item via the **Charts and TA** section of the **Session schedule** tab. Also, you can open this window by pressing the **Ctrl+**, key combination.

The trading sessions schedule is used in charts, in order to exclude inactive time periods (session gaps, night time, weekends and holidays) from the chart lines. The time period will be skipped, and chart parts for active time periods will be stitched together. The stitch line is marked with dash line.

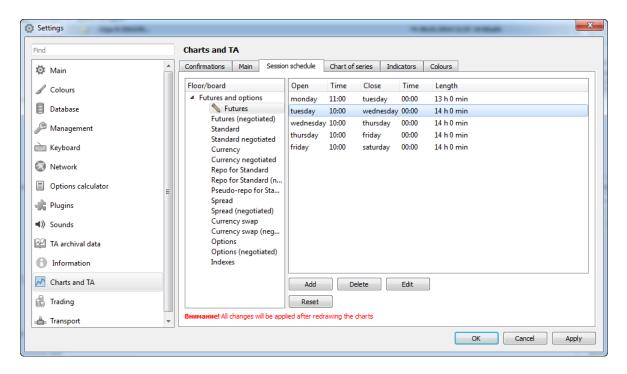


Fig. 9.36. Charts and TA. The Session schedule tab.

Tab. 9.9. Parameters in the Session schedule tab

Parameter	Details
Floor/ board	Floor/board name.
Open	Opening day.
Time	Opening time.
Close	Closing day.
Time	CLosing time.
Length	Trading interval in hours and minutes.

By default, the schedule is set for all boards and all floors.

You can setup separate trading session schedules for each floors and boards. To do this, select a board in the appropriate list at the left side, click **Edit**, make all necessary changes and click **(OK** or **Apply)**. The board name in the list,

for which the schedule has been edited, is marked with . The **Reset** button allows to reset the separate schedule and get back to the global schedule settings, which is the same for the whole floor.

The **Apply to boards** button allows to apply the current schedule for all trading boards.

The Edit, Add and Delete buttons allow to edit, add and delete records in the schedule.

There is a special window for editing existing records and adding new ones.

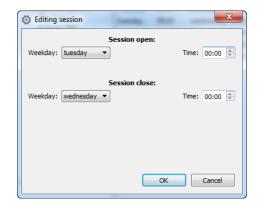


Fig. 9.37. Editing session parameters for charts

Also, you can open this window by double-clicking a records with the left mouse button.

You can edit the trading session open and close time right on the **Session schedule** page (see fig. 9.36). To do this, double-click an appropriate field in the **Time** column, edit the value there and press **Enter**.

Time intervals of trading sessions cannot overlap each other. Once this situation occurs, you will receive the appropriate warning message. Each trading session cannot last more than 24 hours. Also, the session closing time cannot be earlier than the session opening time.

To apply the changes you have made to schedule parameters, you should reopen the **Tech. analysis** window.

9.9.5. Series charts settings

You can setup the general preferences of series charts using the **Settings/ Terminal settings/ Charts and TA** main menu item, in the **Chart of series** tab (or by pressing the **Ctrl+**, key combination). The settings you will make there will be used for all **Tech. analysis** windows as the default settings.

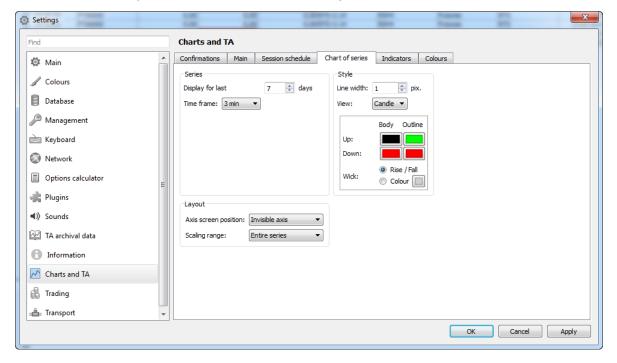


Fig. 9.38. Charts and TA. The Series chart tab.

Tab. 9.10. Parameters in the Chart of series tab

Parameter	Details
Series	

Parameter	Details
Display for last	Chart display period in days before the current date.
	1 means the current day, 2 means yesterday and today, etc.
Time frame	Data aggregation period. The value can be selected from the drop-down list.
	For the selected period of time all trades are aggregated. Then, the outcoming price is analyzed.
	The time frame also defines the horizontal axis pitch.
	Layout
Axis screen position	The vertical axis location:
	• right
	• left
	both side
Cooling range	invisible axis Chart cooling:
Scaling range	Chart scaling:
	• entire series – chart is be scaled according to the current window size in order to display all extremal points; the vertical axis does not change along the entire chart.
	• screen – only visible part of the chart is be scaled. The start and end values are zoomed in and out depending on displayed part of the chart.
	Style
Line width	Series chart lines width, used for all series chart by default.
View	Chart type:
	• candle
	• bar
	• line
	Candles settings
Up	Candle colour when value is increasing if the incoming price value is lower than the outcoming one. The default colour is green.
	You can change the candle body colour (Body) and its outline colour (Outline).
	To change colour please click the colour you need to open the Select Color window.
Down	Candle colour when value is decreasing if the incoming price value is higher than the outcoming one. The default colour is red.
	You can change the candle body colour (Body) and its outline colour (Outline).
	To change colour please click the colour you need to open the Select Color window.
Wick	Wick colour (straight line from the minimum value to the maximum one).
	• Rise/Fall - when the option is enabled, the wick colour will be equal to that of the rise/fall contour.
	• Colour - making this option enabled allows you to select the wick colour at your choice. To change the colour, click the colour box with the left mouse button - the

Parameter	Details	
	standard window Select Colour will appear on the screen. Please note, that wick colours of the rise will be the same.	
	Bar settings	
High/Low	Straight line colour – from min till max.	
	To change colour please click the colour you need to open the Select Color window.	
Open	Colour of the opening price dash.	
	To change colour please click the colour you need to open the Select Color window.	
Close	Colour of the closing price dash.	
	To change colour please click the colour you need to open the Select Color window.	
Line settings		
Close	Chart line colour.	
	To change colour please click the colour you need to open the Select Color window.	

9.9.6. Indicators settings

You can specify the general indicators settings via the **Settings/ Terminal settings/ Charts and TA** main menu item in the **Indicators** tab, or by pressing the **Ctrl+**, key combination. These settings will be used as the default settings for all indicator charts.

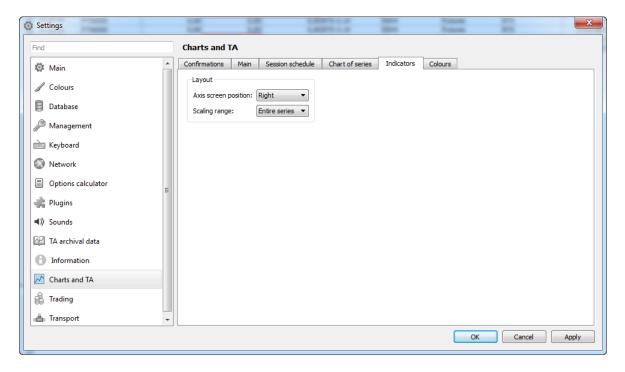


Fig. 9.39. Charts and TA. The Indicators tab.

Tab. 9.11. Parameters in the Indicators tab

Parameter	Details
Location	
Axis screen position	Vertical axis location on the screen:
	• right;

Parameter	Details
	• left;
	both side;
	invisible axis.
Scaling range	Chart scaling:
	entire series – chart is be scaled according to the current window size in order to display all extremal points; the vertical axis does not change along the entire chart.
	• screen – only visible part of the chart is be scaled. The start and end values are zoomed in and out depending on displayed part of the chart.

9.9.7. Chart colour settings

You can specify the colour settings not only for chart, but also for some window elements like background, grid, axes and tags.

The general colour settings for the **Tech. analysis** window can be specified via the **Settings/ Terminal settings/ Charts and TA** main menu item in the **Colours** tab or by pressing the **Ctrl+**, key combination. These settings will be used as the default settings for all **Tech. analysis** windows.

For the current **Tech. analysis** window, you can specify colour settings via the **Window settings/ Colours** context menu item or by pressing the **Ctrl+E.** key combination. These settings will be applied to the current window only. The colour settings window is fully equal to fig. 9.40, except the **Reset settings** button which allows to cancel the colour settings you made and get back to the default colour settings.

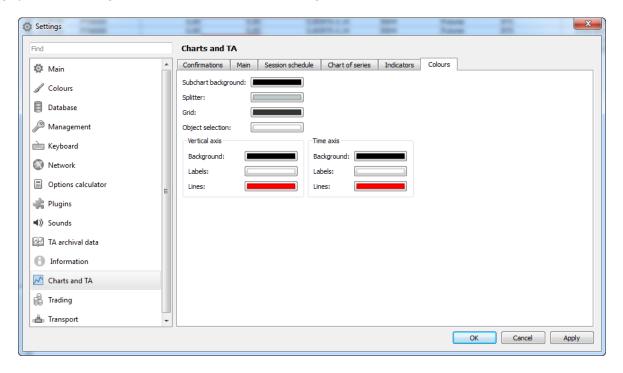


Fig. 9.40. Charts and TA. The Colours tab.

Tab. 9.12. Parameters in the Colours tab

Parameter	Details
Subchart background	Background colour – the main window field.
Splitter	Splitter lines colour.

Parameter	Details
Grid	Grid colour (if enabled).
Object selection	Chart dots colour (when a chart is selected).
	Vertical axis
Background	Vertical axes background colour.
Labels	Vertical axes tags colour.
Lines	Vertical axes scale colour.
	Time axis
Background	Time axis background colour.
Labels	Time axis tags colour.
Lines	Time axis scale colour.

9.9.8. Offset settings

Charts in the **Tech. analysis** window can be offset from the right window border. It can be useful when adding some forecasting indicator charts.

You can specify the offset parameters in the **Settings** window, which can be opened via the **Window settings** context menu item (**Ctrl+E** key combination) in the **Offsets** section. The offset value is set in bars, and calculated by the minimum time frame in the window.

9.10. Managing Technical analysis data

By the archival data for the **Tech. analysis** plugin we mean user data saved and stored separately from the main data. The user data are aggregated into time frames by minutes and seconds. The todays data are always retrieved from the **Your trades/ requests** table.

Storage parameters of the data aggregated into time frames by seconds can be set via the **Settings/Terminal settings** main menu item of the **TA archival data** tab - see section 10.12. The **Remove obsolete archival files (1 second time frame) upon expiration ...days** option is enabled by default (7 days). This means that the 1 second time frame files will be deleted after 7 days of storing. You can specify the number of days for storing files, or disable the option. When the option is disabled, the archival 1 second time frame files will never be deleted from archive. This option is aimed to help controlling your disk space usage.

You can manage Technical analysis data in the following ways:

- · import TA data;
- · export TA data;
- · edit TA data.

9.10.1. TA data import

Sometimes it may be necessary to import some data from an external source (like **Finam**, etc.).

You should fill in all mandatory fields in the data import application form. Please mind the following limitations:

- the only time frames allowed are 1 minute and 1 second;
- you must request candle expiration time.

The TA plugin allows to work with the TXT and CSV file formats.

The exported data are represented in the following way:

```
| KTICKER>, < PER>, < DATE>, < TIME>, < OPEN>, < HIGH>, < LOW>, < CLOSE>
LKZ2,60,12/11/12,11:00:00,18967.00000,19038.00000,18913.00000,18944.00000
LKZ2,60,12/11/12,12:00:00,18945.00000,18992.00000,18880.00000,18932.00000
LKZ2,60,12/11/12,13:00:00,18927.00000,18995.00000,18850.00000,18905.00000
LKZ2,60,12/11/12,14:00:00,18909.00000,18970.00000,18902.00000,18947.00000
LKZ2,60,12/11/12,15:00:00,18956.00000,18966.00000,18923.00000,18935.00000
LKZ2,60,12/11/12,16:00:00,18939.00000,18958.00000,18930.00000,18936.00000
LKZ2,60,12/11/12,17:00:00,18940.00000,19018.00000,18940.00000,18990.00000
LKZ2,60,12/11/12,18:00:00,18996.00000,18997.00000,18951.00000,18991.00000
LKZ2,60,12/11/12,19:00:00,18991.00000,19050.00000,18938.00000,18938.00000
LKZ2,60,12/11/12,20:00:00,18967.00000,18972.00000,18850.00000,18866.00000
LKZ2,60,12/11/12,21:00:00,18865.00000,18902.00000,18860.00000,18890.00000
LKZ2,60,12/11/12,21:00:00,18865.00000,18982.00000,18865.00000,18982.00000
```

Fig. 9.41. Data structure

You can import external data into the trading terminal by the following methods:

- via the Tech. analysis/ Manage TA data/ Import main menu item;
- pressing the Shift+I key combination.

The Manage TA data plugin does not have any connection to the Tech. analysis one. Even if the Tech. analysis plugin is not activated, the Manage TA data menu items are available for using.

When importing data, the standard **Select a file** window appears on the screen, where you should select a data file. After that, the TA data import wizard window will appear.

The first page of the **TA data import wizard** (fig. 9.42) contains the series parameters, the data will be imported for. Every single file contains data only for a particular series (floor, trading board, instrument code, time frame).

The **Next** button will be inactive until all mandatory fields are filled in. The empty fields will be highlighted in red.

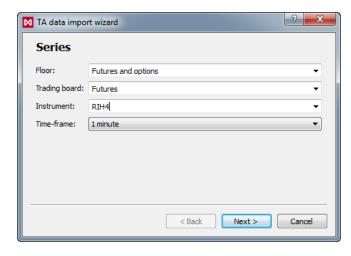


Fig. 9.42. TA data import wizard. Series.

After you filled in all the fields, press the **Next** button.

The next page of the **TA data import wizard** allows to specify the data format - see fig. 9.43.

On the bottom of the window there is the data structure of the imported file displayed. The **Format** page fields are filled in in accordance with the file data structure.

By default, the header flag is enabled. You should disable the flag if the imported file does not contain header.

Separators are used to break the data structure text in the bottom into columns according to separators.

The date and time format are set in accordance with the imported data format.

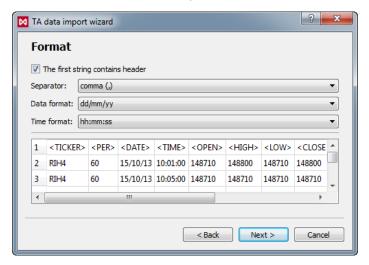


Fig. 9.43. TA data import wizard. Format.

After you filled in all the necessary fields, press Next.

On the next page of TA data import wizard, you should select columns to import data from - see fig. 9.44.

Every column header contains a drop-down list, where you should select a value. Otherwise, select **Do not imp.**, if you do not need to import these data. Every value can be selected only once.

The fields below are mandatory:

- End date end date;
- End time end time;
- Op. price opening price for candle;
- · Max price. maximum price for candle;
- · Min price minimum price for candle;
- Cl. price. close price for candle.

The Volume and Open Int. parameters are not mandatory.

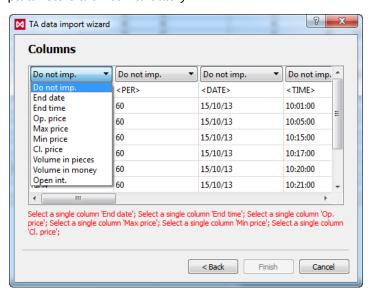


Fig. 9.44. TA data import wizard. Columns.

The mandatory fields are highlighted with red. After all the mandatory fields are filled in, the list below the table will disappear. To finish, press **Finish**.

In case of any error (incorrect file, import parameters error, etc.), the import will be canceled. You will receive the error message like below:



Fig. 9.45. Import error message

In this case, you should return to the initial step and try to refill all the fields correctly.

When import ended successfully, you will receive the following message: "TA data import completed successfully".

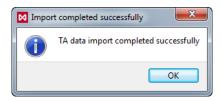


Fig. 9.46. Import completed successfully message

After that, you can open the Tech. analysis window and add charts using the imported data.

9.10.2. TA data export

In order to use some **Tech. analysis** data in third-party applications, you can export TA data into TXT files. Data from the **All trades/ requests** table will be aggregated and saved into the export file automatically. The export data contain the user's stored archival data and the current data from the **All trades/ requests** table.

You can export data using the following methods:

- via the Tech. analysis/ Manage TA data/ Export main menu item;
- pressing the Shift+X key combination.

On the first page of TA data export wizard you should specify the data export parameters (see fig. 9.47):

- Floor trading floor name;
- Trading board if you have not selected any trading floor yet, the drop-down list will contain all possible boards;
- Instrument instrument code to export data for, according to the selected trading board;
- Interval time interval to select data for. The end date must not be earlier than the start date. Also, the end date must not be later than the todays date;
- Time-frame time-frame value;
- Output file name of the output file. The name generates automatically according to the instrument code and time interval dates, but you can change it manually to any other name.

To select the output file format (TXT or CSV), you should click the arrow in the right side of the field;

• Path - path to save the output file. By default, the output files are stored into the folder containing the terminal application executable file.

The **Next** button stays inactive until you fill in all the mandatory fields. The empty fields will be highlighted in red.

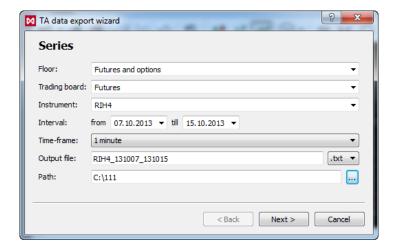


Fig. 9.47. TA data export wizard. Series.

After you filled in all the fields, press Next.

The next page allows to specify the output file format - fig. 9.48.

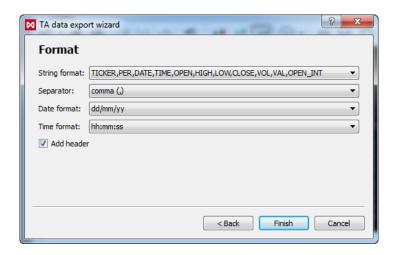


Fig. 9.48. TA data export wizard. Format.

To finish, press Finish.

The data you selected will be exported to the specified file. If the export was completed successfully, you will receive the message:"TA data export completed successfully".

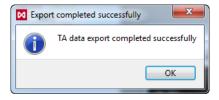


Fig. 9.49. Message window

In case of any error, you will receive an appropriate message. In this case, you should return to the initial step and try to refill all the fields correctly.

For the output file structure see fig. 9.41.

9.10.3. Editing TA data

You can edit saved TA data via the **Tech. analysis/ Manage TA data/ Edit** main menu item or by pressing the **Shift +D** key combination.

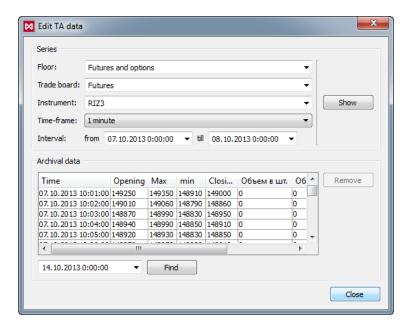


Fig. 9.50. The Edit TA data window

In the Edit TA data window you should specify the following parameters:

- · Floor trading floor name;
- Trading board if you have not selected any trading floor yet, the drop-down list will contain all possible boards;
- Instrument instrument code to export data for, according to the selected trading board;
- Time-frame time-frame value;
- Interval time interval to select data for. The end date must not be earlier than the start date. Also, the end date must not be later than the todays date;

The mandatory fields are highlighted in red. The drop-down lists contain only the trading floors, boards and instruments, for which some data has been saved for.

After you specified all the mandatory parameters, press **Show**. The stored data will be displayed in the **Archival data** section.

To find data by particular date and time, you can either enter the date and time you need in the field right under the main field or press the small black arrow and select the date and time in calendar. After that, press the **Find** button. The cursor will be placed to a record in accordance with the search parameters. If there is no record to match the search parameters exactly, the system will select another record with the time close to the specified.

The **Remove** button allows to delete the selected record. You can delete more than one record at once by selecting records using the **Ctrl** key. The **Shift** button allows to delete a group of consecutive records.

You cannot make any other action to the records, except deleting.

The Close button allows to close the Edit TA data window.

Chapter 10. Main settings

The **Settings/ Terminal settings** main menu item allows to specify your individual window settings in the most appropriate configuration:

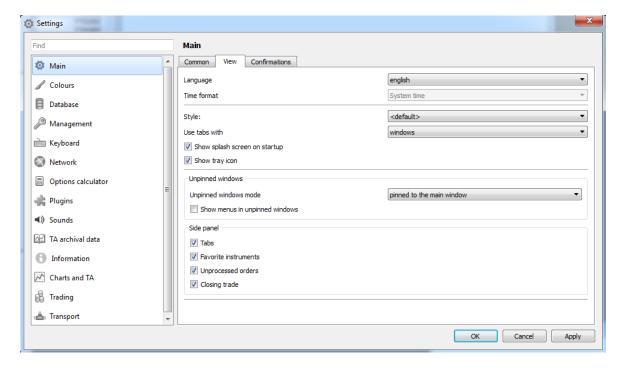


Fig. 10.1. Settings/ Terminal settingsmenu

You can specify the parameter settings by the following way:

- select a group of parameters in the left part of the window (see fig. 10.4) and click it with the left mouse button;
- the list of parameters belonging to selected group will be displayed in the right side of the window;
- specify the parameters settings or enable/disable them by checking/unchecking the appropriate checkboxes;
- press **Apply** to save the changes without closing the window, press OK to save the changes and close the window, or press Cancel to close the window without saving the changes.

All available values for each parameter can be selected in the appropriate drop-down list. Also, there are some parameter values (for example, amount/quantity) which can be entered manually via keyboard.

Please note, that in order to save the changes as the default, you should use the **Current window/ Save by default** option. Otherwise, all the changes will be lost after closing the trading terminal application.

10.1. Notification settings

For your convenience, you can enable the notification option, when a notification window will evoke in the system tray every time the trading system sends a new message to the participants. This notification window will disappear after 3 seconds.

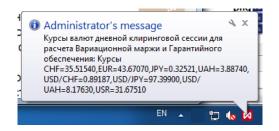


Fig. 10.2. Administrator's message notification

To set up the notification option, you should use the **Settings/ Terminal settings/ Main** main menu item in the **Common** tab:

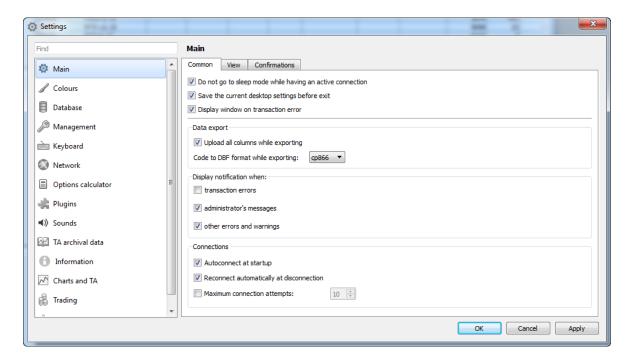


Fig. 10.3. Settings. The Main/ Common tab

Tab. 10.1. Parameters in the Common tab

Parameter	Details	
Do not go to sleep mode while having an active connection	If the option is enabled (by default), your computer will not switch to the sleep mode active having the trading terminal application running.	
Save the current desktop set- tings before exit	If the option is enabled (by default), the current desktop configuration will be saved before exit the application and loaded at the next application start.	
	If the option is disabled, the last configuration saved as default will be loaded at the next application start.	
Display window on transaction error	If the option is enabled (by default), then every time a transaction error occurs, the window containing the error details will appear on the screen.	
	Data export	
Upload all columns while ex- porting	Enabling this option allows you to download all the table's fields in default order. This means that all your actions with the table (hiding or moving columns) will be ignored, so that all columns will be exported, including the hidden ones.	
	If the option is disabled, only the visible columns will be exported. The order of exporting will be equal to that of the displaying on the screen.	

Parameter	Details	
	The option is enabled by default.	
Code to DBF format while ex-	Allows to specify the exporting data charset of the DBF format.	
porting	The following charsets are available to be selected in the drop-down list:	
	• cp866 - set by default;	
	• cp1251 - Attention! This charset will be incorrectly recognized by Microsoft Excel app!	
	Show notifications	
Display notification when	Allows to enable notifications for the following message types:	
	transaction errors (set by default)- transaction error messages - see section 6.6.3;	
	administrator's messages (set by default)- see section 6.6.1;	
	• other errors and warnings - other error messages (see section 6.6.2) and some warnings.	
	To enable the notification option, check the appropriate checkbox.	
	Connections	
Autoconnect after startup	If the option is enabled (by default), the application will automatically connect to the trading system after startup, with the login and password used in the last connection session. No connection window will appear on the screen.	
Reconnect automatically after disconnection	If the option is enabled (by default), the application will automatically reconnect to the trading system in case of any connection failure, with the login and password used in the last connection session. No connection window will appear on the screen.	
Maximum connection attempts	The option is available only if the Reconnect automatically after disconnection option has been enabled.	
	If the option is enabled, the application will make the limited number of reconnection attempts, according to the specified value.	
	If the option is disabled (by default), the application will continue making reconnection attempts until connection will be established.	

10.2. Setting the terminal appearance

The **View** tab of the **Main** (**Settings/ Terminal settings**) section contains the options for the terminal appearance and its feedbacks to the user actions.

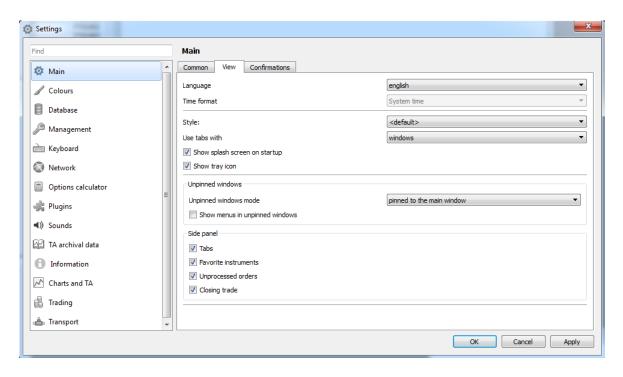


Fig. 10.4. Settings. The Main/ View tab.

Tab. 10.2. Parameters of the View tab

Parameter	Details
Language	Allows to set language of the application user interface:
	Russian;
	English;
	system - OS language (by default).
	The changes will be applied after restart of the application.
Time format	OS system time (by default). Displayed as a parameter in all the application windows.
	This field is non-editable.
Style	The application appearance style, can be selected in the drop-down list. By default, the current OS style is used.
Use tabs with	Tabs settings for the application windows. There are two tabs types are available:
	• windows;
	panels (by default).
	Every new tab will be created as panel by default. After switching the tab type, all open tabs will automatically change their types.
	This setting affects the current workspace configuration only.
Show splash screen on startup	If the option is enabled (by default), the application splash screen will be displayed at the application start.
Show tray icon	If the option is enabled (by default), the terminal icon will be displayed in the system tray.

Parameter	Details
Unpinned windows mode	Unpinned windows can be displayed in the following ways:
	• pinned to the main window (by default) - the unpinned window always overlays the main window. When you maximize/minimize the main window, the unpinned window will also maximize or minimize.
	• independent windows - this window has its own icon in the task panel. It can be overlaid by other windows.
Show menus in unpinned windows	If this option set, then, unpinned windows will contain the application main menu (as the application main window does).
	If the option is not set (by default), unpinned windows will not contain the main menu line.
Side panel	These options allows to specify the sections on the side panel. To select a section to be displayed in the side panel, you should check the appropriate checkbox next to each section name.
Tabs	If the option is enabled (by default), the side panel will contain the Tabs section. This setting affects all the application windows.
Favorite instruments	If the option is enabled (by default), the side panel will contain the Favorite instruments section. This setting affects all the application windows.
Unprocessed orders	If the option is enabled (by default), the side panel will contain the Unprocessed orders section. This setting affects all the application windows.
Closing trade	If the option is enabled (by default), the side panel will contain the Closing trade section. This setting affects all the application windows.

10.3. Confirmations settings

You can enable and disable confirmations on some actions using the **Confirmations** tab (**Settings/ Terminal settings/ Main**).

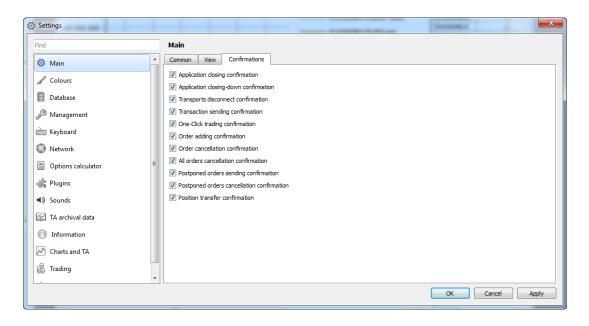


Fig. 10.5. Confirmations settings

Tab. 10.3. Confirmations

Parameter	Details
Application exit confirmation	If the option is enabled, you will receive the confirmation dialog: 'Are you sure you want to exit?' every time you exit the application. Answer:
	Yes- to exit the application;
	• No – to return back to the application main window.
	You can disable the confirmation dialog by checking the Do not show this dialog next time checkbox. After that, no confirmation dialog will be shown at exit.
Application close down confirmation	If the option is enabled, you will receive the confirmation dialog: 'Are you sure you want to exit?' every time you close down the application window. Answer:
	Yes- to close down the main window;
	• No – to return back to the application main window.
	You can disable the confirmation dialog by checking the Do not show next time checkbox. After that, no confirmation dialog will be shown at closing the main window.
Transport disconnect confirmation	If the option is enabled, you will receive the confirmation dialog: «'Are you sure you want to stop the transport SPECTRA?' every time you disconnect from the trading system. Answer:
	• Yes- to disconnect;
	• No- to remain connected.
	You can disable the confirmation dialog by checking the Do not show next time checkbox. After that, no confirmation dialog will be shown at disconnecting from the trading system.
Transaction sending confirmation	If the option is enabled, you will receive the confirmation dialog: 'Are you sure you want to send the transaction?'. Answer:
	Yes- to confirm sending transaction;
	No— to abort sending transaction.
	If the option is disabled, no confirmation dialog will be shown at sending transactions into the trading system.
One-Click trading confirmation	If the option is enabled, you will receive the confirmation dialog: 'Are you sure you want to place buy/sell order at price?' every time you add an order using the One-Click trading mode. Answer:
	Yes- to confirm adding order;
	No— to abort adding the order.
	If the option is disabled, no confirmation dialog will be shown at adding orders into the trading system in the One-Click mode.
Order adding confirmation	If the option is enabled, you will receive the confirmation dialog: 'Are you sure you want to place buy/sell order at priceofcontracts from account?'. Answer:

Parameter	Details	
	Yes- to confirm sending transaction;	
	No- to abort sending transaction.	
	If the option is disabled, no confirmation dialog will be shown at adding orders into the trading system.	
Order cancellation confirmation	If the option is enabled, you will receive the confirmation dialog : 'Are you sure you want to <i>cancel the order?</i> '. Answer:	
	Yes- to cancel your order in the trading system;	
	No— to abort cancellation.	
	If the option is disabled, no confirmation dialog will be shown at cancelling your orders in the trading system.	
Cancel all orders confirmation	If the option is enabled, you will receive the confirmation dialog: 'Are you sure you want to cancel all orders for instrumentfrom account?'. Answer:	
	Yes— to cancel all your orders in the trading system;	
	• No- to abort cancellation.	
	If the option is disabled, no confirmation dialog will be shown at cancelling all your orders in the trading system.	
Postponed orders sending confirmation	When the option is enabled, you will receive the confirmation di 'Are you sure you want to send orders?". Answer:	
	Yes – to confirm sending pool of orders into the Trading system;	
	• No – to cancel sending.	
	When the option is disabled, the pool of orders will be immediately sent into the Trading system, without asking for any confirmation.	
Postponed orders cancellation confirmation	When the option is enabled, you will receive the confirmation dialog 'Are you sure you want to cancel orders?". Answer:	
	Yes – to confirm; the selected postponed orders will be removed from the list;	
	No – to reject removing postponed orders from the list.	
	When the option is disabled, the selected orders will be removed from the list of postponed orders without asking for any confirmation.	
Position transfer confirmation	If the option is active, you will receive the confirmation dialog: «Are you sure you want to transfer positionfor instrumentfrom accountto account». Answer:	
	• Yes – to confirm transferring position from one account to another;	
	No – to cancel the transfer.	
	If the option is disabled, no confirmation dialog will appear.	

10.4. Colour settings

You can specify colours for the main window elements, as well as the background colors via the **Colours** section (**Settings/ Terminal settings**).

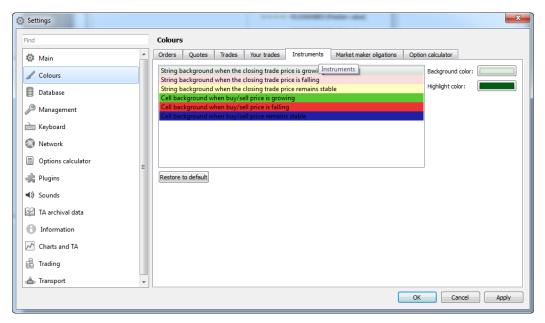


Fig. 10.6. Colours settings

You can specify colours for the trades, orders and financial instruments windows. For each window, the settings are made via a separate tab of the **Colours** section (see fig. 10.6):

- Orders for the Your Orders window;
- · Quotes for the Order-book window;
- · Trades for the Trades window;
- · Your trades for the Your trades/ requests window;
- Instruments for the Financial Instruments and Options board windows;
- Options calculator for active cells containing virtual values of the virtual portfolio window Options calculator.

Changing colour for one window of a group always affects the other windows of the same group.

Every window type has its own parameters, for which the colour highlighting can be set – see tab. 10.4.

You can specify colour for a particular element using the **Background color** and **Highlight color** buttons on the right side of the settings window (see fig. 10.6). The **Background color** button allows to specify the background colour of the element, while the **Highlight color** button specifies colour of the element itself. After pressing one of these buttons, the standard **Select Color** window will appear on the screen.

Please note, that the colour settings you made will be automatically switched to standard settings within the certain time period. This time period is set by default and you cannot change it.

Tab. 10.4. Colour settings

Parameter	Details	
Orders		
Line background for buy order Buy order line background colour.		
Line background for sell order	Sell order line background colour.	

Parameter	Details	
Quotes		
Line background for buy order	Buy order line background colour.	
Line background for sell order	Sell order line background colour.	
Best buy order cell back- ground	Best buy order cell background colour.	
Best sell order cell background	Best sell order cell background colour.	
	Trades	
Line background with buy-driven trade	Line background colour (buy-driven trade).	
Line background with sell-driven trade	Line background colour (sell-driven trade).	
	Your trades	
Line background with buy trade	Line background colour (your buy trade)	
Line background with sell trade	Line background colour (your sell trade)	
	Instruments	
String background when the closing trade price has grown	Line background colour when the closing trade price has grown.	
Line background when the closing trade price has fallen	Line background colour when the closing trade price has fallen.	
Line background when the closing trade price remains the same	Line background colour when the closing price remains the same as previous.	
Cell background when buy/sell price is growing	Cell background colour when the buy/cell price is growing.	
Cell background when de- mand/offer price is falling	Cell background colour when the buy/cell price is falling.	
Cell background when de- mand/offer price remains sta- ble	Cell background colour when the buy/cell price remains stable.	
Market maker obligation	s (The default colours are: red when unfulfilled and green when fulfilled.)	
Series of options line back-	For the Market maker obligations for options window	
ground colour (obligations are fulfilled)	Highlight colour for series of options parameters record (obligations are fulfilled)	
Series of options line back- ground colour (obligations are	For the Market maker obligations for options window	
unfulfilled)	Highlight colour for series of options parameters record (obligations are unful-filled)	
Spread sell background colour (obligations are fulfilled)	The Spread by agreement column cells highlight colour (obligations are fulfilled).	
Spread sell background colour (obligations are unfulfilled)	The Spread by agreement column cells highlight colour (obligations are unfulfilled).	
Quantity sell background colour (obligations are fulfilled)	The Amount by agreement , column cells highlight colour (obligations are fulfilled).	
Quantity sell background colour (obligations are unfulfilled)	The Amount by agreement , column cells highlight colour (obligations are unfulfilled).	

Parameter	Details	
Fulfilment percentage cell background colour (obligations are fulfilled)	The Min fulfilment (%), Path fulfilment (%) and Complete fulfilment (%) columns cells highlight colour (obligations are fulfilled).	
Fulfilment percentage cell background colour (obligations are unfulfilled)	The Min fulfilment (%), Path fulfilment (%) and Complete fulfilment (%) columns cells highlight colour (obligations are unfulfilled).	
Options calculator		
Active virtual value cell back- ground coloure	Background colour for cell containing a virtual value (VIV or VP) which has been changed by user.	

The **Restore to default** button (see fig. 10.6) allows to restore the default colour settings. This button affects only the windows which colour settings are set in the current tab. In order to restore the default settings for all windows, you should press the **Restore to default** button in every window, one by one.

10.5. Database settings

The **Database** section (**Settings**/ **Terminal settings**) contains various database settings options.

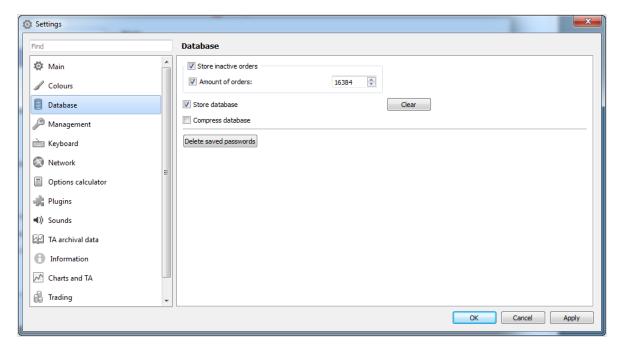


Fig. 10.7. Database settings

Tab. 10.5. Database settings

Parameter	Details
Store inactive orders	If the option is enabled, your inactive orders (outdated, matched, etc) will be stored in the database archive on the hard drive. Otherwise, the inactive orders will not be stored anywhere.
Number of orders	You can vary number of the stored orders using the Number of orders field. If a value set in this field, the most oldest inactive orders will be automatically replaced with newer ones to keep the total number equal to that set in the field.
Save database	If the option is enabled, the database will be saved in hard drive of your local computer. The saving is performed at closing the application.
Compress database	If the option is enabled, the database will be compressed before saving. This option allows to save space in your hard drive.

Parameter	Details	
	The option is usable only if the Save database option has enabled.	
Clear	The option allows to clear the current database (this action WILL NOT affect any the saved database in your hard drive!). Before starting, you will receive the confirmation dialog 'Are you sure you want to clear the database? All connections will be stopped. All data in all tables will be permanently deleted!". Press Yes to confirm or No to cancel.	
	This action is useful when you switch to another profile of going to use another user login, as it deletes some junk files left from the previous users.	
Delete saved passwords	Allows to delete saved user passwords (password are saved if the Save password option has been enabled in the registration form (see fig. 10.7)). Before deletion, you will receive the confirmation dialog: 'Are you sure you want to delete all saved passwords? This operation cannot be undone.' Press Yes to confirm, or No to cancel.	

10.6. Management confirmations settings

The **Management** section **(Settings/ Terminal settings)** contains the settings options for the **Management** plugin. All these operations can be found in the **Management** main menu item. For some of the operations, you can set confirmation messages.

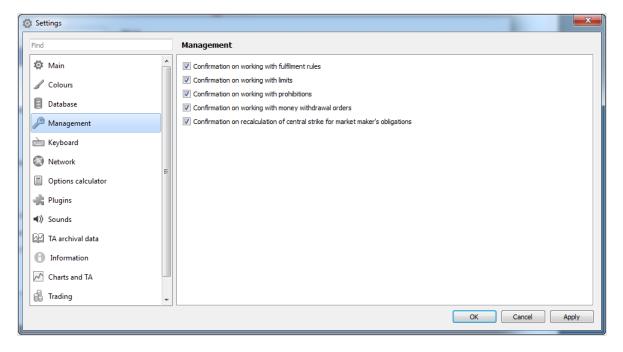


Fig. 10.8. Management settings

You can set the confirmation dialogs for the same operations:

- · working with exercising rules;
- · working with limits;
- · working with prohibitions;
- · working with money withdrawal orders;
- · recalculation of central strike for market makers obligations.

You should the option separately for every operation type.

After the option has been enabled, you will receive a confirmation message every time you perform an operation from the list above.

10.7. Hot keys settings

You can assign hot keys combinations for the most frequently used operations. There are some hot keys combinations already assigned by default, but you can change them manually via the **Settings/Terminal settings** main menu item of the Keyboard section.

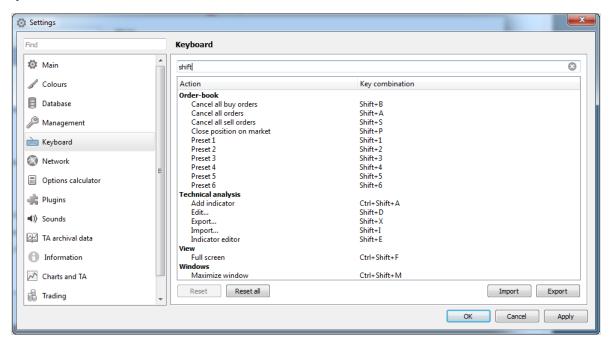


Fig. 10.9. Hot keys settings

Tab. 10.6. Hot keys

Action	Key combination		
Exit	Ctrl+Q		
Help			
Help	F1		
Tables			
Administrator's messages	Ctrl+Alt+M		
Main			
Favorite instruments	Ctrl+Alt+F		
Plaza2 log file	Ctrl+Alt+L		
Terminal settings	Ctrl+,		
Option calculator			
Add position into virtual portfolio	Ctrl+Alt+P		
Delete virtual portfolio data	Ctrl+Alt+C		
Remove position from virtual portfolio	Ctrl+Alt+R		
Load real portfolio data into virtual portfolio	Ctrl+Alt+D		
Add cumulative diagram for all positions of virtual portfolio	Ctrl+Alt+S		
Add diagrams for particular positions of virtual portfolio	Ctrl+Alt+O		
Switch H-scale values display mode for all charts	Ctrl+Alt+X		

Action	Key combination	
Order-book		
Best buy	В	
Best buy for the current position	Т	
Best sell	S	
Best sell for the current position	Υ	
Buy at the best price	G	
Buy at the best price for current position amount	J	
Cancel all buy orders	Shift+B	
Cancel all sell orders	Shift+S	
Center	Ctrl+R	
Close position on market	Shift+P	
Preset 1	Shift+1	
Preset 2	Shift+2	
Preset 3	Shift+3	
Preset 4	Shift+4	
Preset 5	Shift+5	
Preset 6	Shift+6	
Sell at the best price for current position amount	К	
Sell at the best price	F	
Cancel all orders	Shift+A	
Technical analys	sis	
Add chart	Ctrl+A	
Add indicator	Ctrl+Shift+A	
Autoscale by entire series	Ctrl+D	
Autoscale by screen	Ctrl+F	
Edit	Shift+D	
Export	Shift+X	
Import	Shift+I	
Indicator editor	Shift+E	
Object manager	Ctrl+J	
Rebuild	Ctrl+R	
Reset time axis	Ctrl+0	
Scale down the time axis	Ctrl+-	
Scale up the time axis	Ctrl+=	
Select instrument	Alt+C	
Show chart hint	Ctrl+U	
Show grid	Ctrl+G	
Show projections on axis	Ctrl+P	
Undo scaling on the time axis	Ctrl+Backspace	
View		

Action	Key combination	
Information	Ctrl+I	
Show side panel	Ctrl+L	
Windows		
New tab	Ctrl+T	
New window	Ctrl+N	
Pin/ unpin window	Alt+W	
Save configuration	Ctrl+S	
Window settings	Ctrl+E	

For some actions, the **Key combination** field is empty (fig. 10.9). This means, that you should assign a hot key combination manually.

The **Contextual actions** group contains the context-related actions, i.e. the actions, which provide different results being performed in different windows.

To set a new hot key combination (or edit an existing) you should make the following steps:

- place the mouse cursor on a line containing the operation you want to change the hot key combination for (see fig. 10.9);
- double-click the line with the left mouse button; the line background colour will then change to white;
- press the hot key combination you want to assign. Please note, that you can assign a combination by pressing several keys simultaneously;
- · press Apply or OK.

The default combinations are displayed in standard font. The user assigned combinations are marked with **bold** (or *italic*, before they are saved).

Sometimes it may be convenient to assign the same key combination to different actions. Such combinations, if assigned, are marked in red.

The **Reset** button allows to reset any user assigned key combination to its default value. The **Reset** button becomes active when you put the mouse cursor on a line containing the operation name. Please note, that you cannot 'reset' the default key combinations.

The Reset all button allows to reset all user assigned key combinations to default at once.

When a line is in the edit mode, the special button (white cross on a red field) appears in the right, which allows to delete the default key combination. Pressing the **Reset** button, you can restore the default key combination.

You can search for a key combination by typing symbols into the contextual search field; the case-insensitive search starts immediately after entering the first symbol. The search results will display all records containing the entered symbols. To clear search results simply delete symbols from the search field.

The keyboard settings can be exported into a file and imported form a file by using the following buttons:

- Import to import keyboard settings from a .kms file (keyboard layout scheme);
- Export to export keyboard settings into a .kms file (keyboard layout scheme);

10.8. Network settings

The **Network** section (**Settings**/ **Terminal settings**) contains the network and proxy-server settings options.

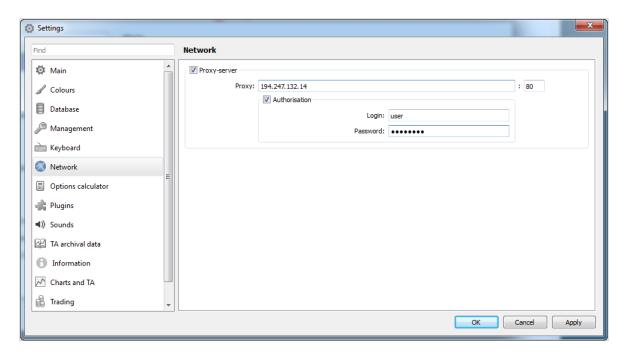


Fig. 10.10. Proxy-server settings

The **Proxy-server** option defines whether a proxy-server is used (the option is enabled) in the network connection or not (the option is disabled).

The proxy-server settings require its network address and the port number to be set. Also, user login and password can be specified for the proxy-server, if needed.

10.9. Confirmations settings in the option calculator

You can set confirmation dialogs for the option calculator module via the **Option calculator** section (**Settings/ Terminal settings**).

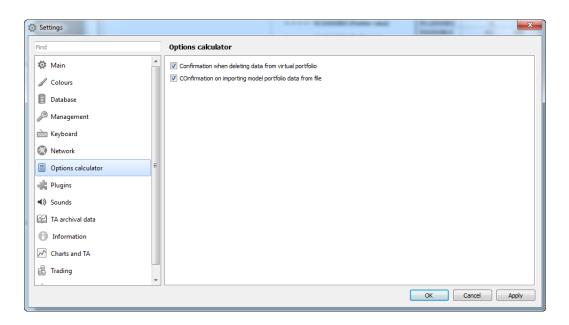


Fig. 10.11. Confirmations settings for the option calculator module

You can set confirmations for the following actions:

- · removing data from virtual portfolio;
- · importing virtual portfolio data from file.

If the confirmation option is enabled, you will receive a confirmation dialog every time you perform the actions above

10.10. Plugins settings

Some functions of the trading terminal have been developed as separate plugins, which may (or may not) be included into the basic configuration. Some of the plugins can start automatically, when needed.

You can specify the plugins connection settings via the **Plugins** section (**Settings/ Terminal settings**).

To connect a plugin, you should check the appropriate checkbox next to the plugin name. To disconnect a plugin, uncheck the appropriate checkbox.

The **Database** and **Main windows** plugins are required for the terminal functioning, therefore you cannot disconnect them.

After you changed the plugins connections settings, you will have to restart the application to apply the changes.

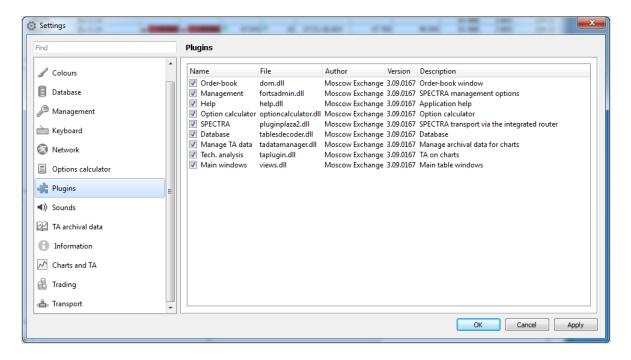


Fig. 10.12. Plugins settings

Tab. 10.7. Plugins

Plagin's name	Description
Order-book	Order-book window.
Management	Management options.
Help	Application help.
SPECTRA	SPECTRA transport via the integrated router.
Database	Database. Settings for this plugin run under Database (main menu Settings/ Terminal settings).
Tech. analysis	TA on charts.
Manage TA data	Managing archival data for charts.

Plagin's name	Description
	The plugin allows to import and export data for the Tech. analysis system.
	The plugin is not linked with the Tech. analysis plugin . You are allowed to import and export data even having the Tech. analysis plugin disconnected.
Main windows	Main table windows.

10.11. Sounds settings

You can specify sound warnings for different events. To do this, you should use use the **Settings/ Terminal settings** main menu item of the **Sounds** section.

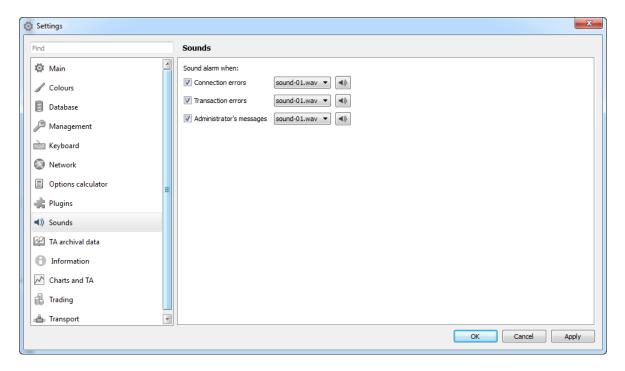


Fig. 10.13. Sounds settings

You can set sound warnings for the following events:

- Connection errors you will be warned with sound in case of any server connection error, any other connection loss, etc.;
- Transaction errors you will be warned with sound in case of any transaction sending error;
- Administrator's messages you will be warned with sound once you receive a message from administrator.

A sound signal for each event can be selected in the appropriate drop-down list. To preview a sound signal, press the button with speaker next to the signal name.

The settings you made will remain unchanged even after restarting the terminal application.

10.12. TA archival data

For technical analysis historical data (see section 9.10), you can specify a period of time for storing the history files via the **Settings/ Terminal settings** main menu item of the **TA archival data** tab.

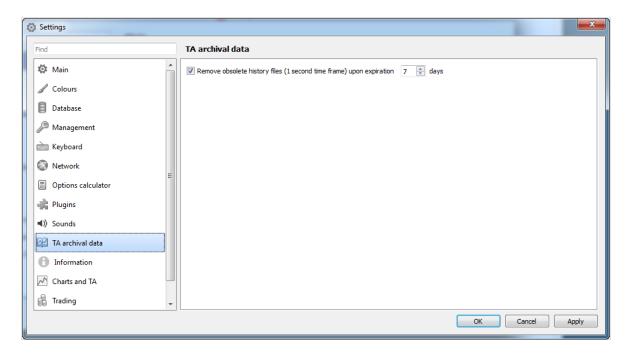


Fig. 10.14. TA archival data settings

The Remove obsolete history files (1 second time frame) upon expiration ... days option allows to specify the period of time (in days) for storing the obsolete history files (1 second time frame). The older archives will be deleted. The option is enabled by default.

If the option is disabled, all archive files with the 1 second time frame will be stored.

Please note, that this option does not affect the one minute time frame history files!

10.13. Information window settings

For the **Information** window (see section 6.1.1), you can specify a general set of parameters to be displayed in every **Information** window (except those having some special settings for a particular trading board). The general settings can be performed via the **Settings/ Terminal settings/ Information** main menu item.

To specify settings for a particular trading board, you should use the **Window settings** context menu item opened in the **Information** window (the trading board, therefore, will be the same as that of the instrument the **Information** window has been opened for). After the settings have been specified, they will affect any **Information** window for the instrument, overriding the settings specified via the main menu. For example: you opened the **Information** window for a futures and specified some settings via the **Window settings** context menu item. After that, any **Information** window for futures will have these settings. All other information windows for the instruments of another boards will have the settings specified via the **Settings/ Terminal settings/ Information** main menu item.

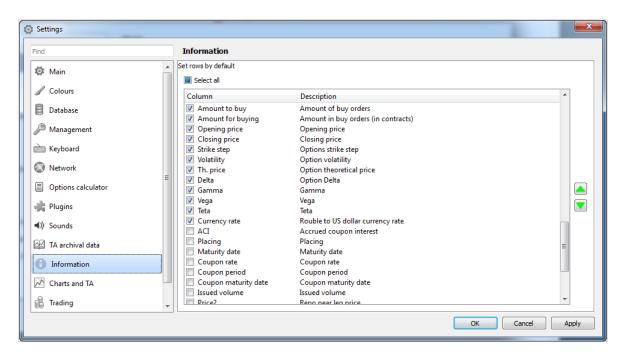


Fig. 10.15. Information settings

10.14. Graphical charts settings

For all newly added graphical charts, the settings can be specified via the **Settings/ Terminal settings** main menu item in the **Charts and TA** tab. Also, the graphical charts settings window can be opened by pressing the **Ctrl+**, key combination. The settings specified this way will be used as the default settings for every newly opened **Tech. analysis** window (for more information see section 9.9).

10.15. Average position price settings

For data calculation in the position indicator (see section 6.2.2.11.1), you can set the average position price source in the **Order-book** window (see section 6.2.2.11.3).

The setting can be specified via the Settings/ Terminal settings main menu item in the Trading tab.

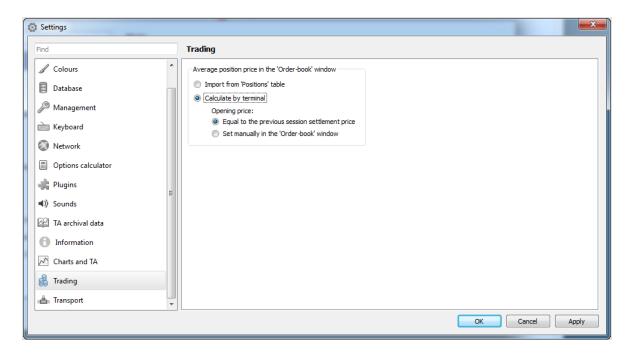


Fig. 10.16. Average position price setting

The average price can be obtained from several sources:

- Import from 'Positions' table the average price will be obtained from the Positions table;
- Calculate by terminal the average price will be calculated by the terminal application. This can be made in two
 ways:
 - **Equal to the previous session settle price** the opening price will be set equal to the previous session settlement price;
 - Set manually in the 'Order-book' window the opening price will be obtained from the Opening price field (see fig. 6.25) in the window settings section (a context menu item in the Window settings/ Trading window).

10.16. Transport settings

The transport (aka communication protocol) settings can be specified via the **Settings/ Terminal settings** main menu item of the **Transport** section.

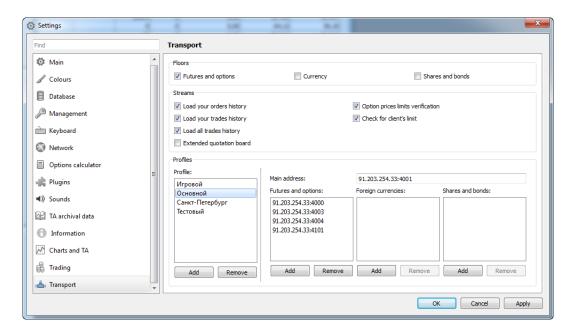


Fig. 10.17. Transport settings

The **Streams** section menu items allows to specify some special settings: amount of data to load and Order-book depth.

Tab. 10.8. Parameters in the Settings/ Transport tab

Parameter	Details
Floors	Floors to connect:
	Shares and bonds;
	• Currency;
	Futures and options.
	Streams
Load your orders history	When the option is enabled (by default), the Your orders/ requests window will display complete history of your orders (active and inactive (removed and canceled) for the current trading session (the evening session + the period of time passed since start of the current session). In case of a big amount of data, loading may take time, therefore, it is not recommended to enable this option in the end of a trading session. Also, it is not recommended to enable this option working under a BF login or when your connection to the trading system takes much time. When the option is disabled, the Your orders/ requests window will display only your active orders. To delete your inactive orders you should enable the Amount of orders option (the Store inactive orders option in the main Settings/ Terminal settings/ Database menu should be enabled, too) – the orders will be deleted when the specified amount is reached. If the option is disabled, the Your orders/ requests table will not display your
	partly-matched orders, exercised orders and the orders canceled before the connection has been established.
Load your trades history	When the option is enabled (by default), the Your trades/ requests window will display complete history of your trades for the current trading session (the evening session + the period of time passed since start of the current session).

Parameter	Details
	If the option is not enabled, the Your trades/ requests window will display only your trades which were performed since establishing the connection to the trading system.
	The trades history is used for creating graphical charts. Therefore, if the option is disabled, you will not be able to create graphical charts for the time before the connection to the trading system was established.
Load all trades history	When the option is enabled (by default), the All trades/ requests window will display complete history of all trades for the current trading session (the evening session + the period of time passed since start of the current session).
	If the option is not enabled, the All trades/ requests window will display only the trades which were performed since establishing the connection to the trading system.
	The trades history is used for creating graphical charts. Therefore, if the option is disabled, you will not be able to create graphical charts for the time before the connection to the trading system was established.
Extended Order-book	If the option is enabled, the Order-book will display 50 records in each direction instead of 20. This option is useful when the sparse mode has been enabled for the Order-book window or for some high liquid instruments.
Option prices limits verification	When the option is enabled (by default), all option orders will be verified for limits sufficiency before being added into the system.
	If the option is disabled, no verification will be made for the option orders. Please note, that adding of orders without preliminary verification is allowed only for BF granted with the special rights by the administrator.
Check for client limit	When the option is enabled (by default), all option orders will be verified for client limit sufficiency before being added into the system.
	If the option is disabled, no verification will be made for the option orders. Please note, that adding of orders without preliminary verification is allowed only for BF granted with the special rights by the administrator.
	Prifiles - see section 10.16.1

10.16.1. Connection profiles

You can create several connection profiles for a single transport. To manage the profiles, please use the appropriate section of the settings window - see fig. 10.18 (the **Settings/ Terminal settings** main menu item, the **Transport** section).

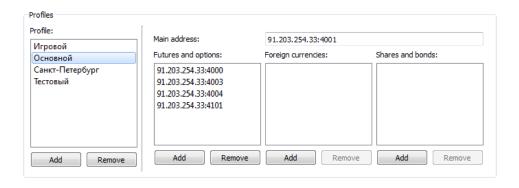


Fig. 10.18. Connection profiles

The **Profile** field contains the editable list of created connection profiles. Please note, that If there is a transport connected, you are not able to edit the profiles – the window will the details of the current profile, having all other options disabled.

To add a new profile press the Add button right under the list called Profile:.

For every created profile, you should specify the server address and port number. The **Main address** field contains the main (and, possibly, the only) server IP-address.

For some profiles, you can specify some additional server addresses in the additional addresses field, when needed (when the data stream is processed concurrently by several servers). There is a dedicated list of servers for each trading board: Futures and options, Foreign currencies, Shares and bonds. To edit the list of additional servers please use the Add and Remove buttons below the every list.

To delete a profile, press the **Remove** button right under the list called **Profile**:.

10.17. Saving settings

You can save the current settings of a functional window (its size, location, all appearance settings, filter and sorting settings) by using the **Current window/ Save by default** main menu item. Once you performed the action, all new windows of that type will be opened having the configuration you had saved. For the **Tech. analysis** window, the grid settings, data stamp location and main colors will be saved.

To switch to the default window settings, please use the Current window/ Restore to default main menu item.

To save the whole workspace configuration, you should use the **File! Save configuration (Ctrl+S)** main menu item; after this, all currently opened windows, their tabs and their locations will be saved. For more details please see section 5.7

To switch to the default workspace configuration settings, please use the File! Restore configuration.

10.18. Writing log-files

Every action and event related to the terminal application is logged into the **message.log** file stored in the hard drive; you can find the path to this file usong the **Help/ About** main menu item - fig. 10.19.

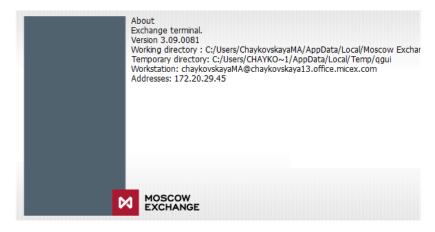


Fig. 10.19. The About window

The **message.log** file is stored in the user's temporary files folder.

Apart from **message.log**, the Plaza2 router log-file is also created, which contain logs for connection and workflow events. The file is saved under the name **P2Trace.20131009.log**, where *20131009* - date of file creation in the *YYYYM-MDD format*.

You can open the log-files using the **Help** main menu item options:

- Open log file opens the trading terminal log-file;
- Plaza2 log file opens the Plaza2 log-file (can be also opened with Ctrl+Alt+L key combination).

Chapter 11. Using context menus for windows configuration setting

Users can specify windows configuration settings by hiding columns in the tables and changing their sequence order via the context menu items. Also, you can use mouse to stretch tables and drag them from one position to another.

The context menu item, which is set as the default (the action can be performed by double-clicking the left mouse button on the active line) is market in bold.

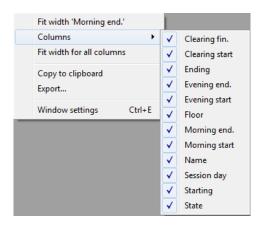


Fig. 11.1. Standard context menu

Below is the list of the standard context menu items available in every context menu:

- Fit width 'column's name'— allows to automatically set the column width in accordance with its content. This action can also be performed by placing mouse cursor on the line between two columns (the cursor should get arrow-shaped) and double-click the left mouse button;
- Fit width for all columns allows to automatically fit width for all columns in according with their content;
- Columns a context menu item, which displays the complete list of columns the current table contains. From
 here, you can easily hide a column from the table or display a previously hidden one by checking/unchecking the
 appropriate checkbox;
- Export allows to export data from the current table into a CSV (a text file format containing comma separators)
 or a dBase DBF file;
- · Copy to clipboard allows to copy the window content into clipboard;
- **Window settings** opens the **Settings** window, where you can specify some detailed window settings. The window parameters are grouped, and can be set separately. Each window has its own parameters:
 - Main window name;
 - View how the window elements will be highlighted;
 - Columns list of columns the window contains;
 - Sorting how data in the window is sorted;
 - o Filters available filtering masks.

The parameters list may contain some other groups, depending on the window type and its content. Information about some specific parameters, as well as of sorting and filtering options, can be found the appropriate sections of this manual.

Please note, that settings specified via the context menu will affect only the current window and all its entities. Every new window of the same type will be opened in the standard configuration settings specified in the main settings section (the main menu **Settings/ Terminal settings/ Main/ View**).

11.1. Main group window settings

The **Main** group allows to specify the window name in the **Name** field. The standard window name and a user defined ones are separated with slash. For example: **Futures - Financial instruments**, where **Futures** is the user defined name specified in the **Main** tab, while **Financial instruments** is the standard name of the window.

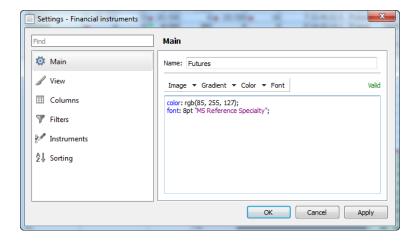


Fig. 11.2. Main group window settings

11.2. Highlight settings

There are elements in some windows, for which you can specify highlight settings. The list of the elements can be edited separately for each window via the **Window settings/ View** context menu item.

To enable/disable highlight option for an element, you should check or uncheck the appropriate checkbox.

Highlight colour scheme can be specified either via the **Window settings/ View/ Setup colours** context menu item or via the **Settings/ Terminal settings/ Colours** main menu item.

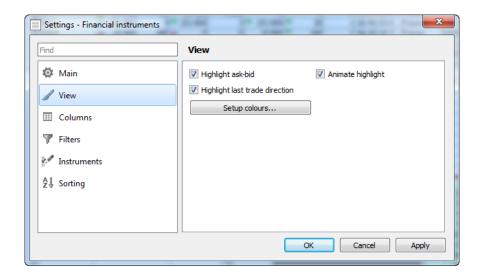


Fig. 11.3. Highlight settings

Tab. 11.1. Highlight settings

Parameter	Details		
The F	The Financial instruments and Options board windows		
Highlight buy/sell	The Buy and Sell cells will be highlighted at price change. The highlight is enabled for a limited time only (this option cannot be changed by user), and then the background colour changes to the standard one. The default colours are the following: red stands for price down-trend, green for price up-trend, and yellow for steady prices. Additionally, you can set background colour to slowly fade out using the Animate highlight option.		
Animate highlight	Turning this option on makes a background colour slowly fading out until it disappears or another order appears. If the option is disabled, the colour changes instantly. The option is available only when the Highlight buy/sell option is enabled.		
Highlight last trade direction	Allows to highlight the whole line containing the instrument for which the last trade was performed. The highlight is enabled for a limited time only (this option cannot be changed by user), and then the background colour changes to the standard one. The default colours are the following: red stands for the last trade price down-trend, green for the last trade price up-trend, and yellow for steady price.		
The Your orders/ requests, Your trades/ requests, All trades/ requests windows			
Highlight lines	When the option is enabled, the lines will be highlighted in different colours depending on the order or trade direction. The order direction affects on that of trade. The default colours are the following: • red – sell;		
	• green – buy.		

The highlight colour can be specified by pressing the **Colours settings** button. For detailed information see section 10.4.

11.3. Columns settings

You can hide columns in tables and change their sequence order via the **Window settings** context menu item, in the **Columns** section:

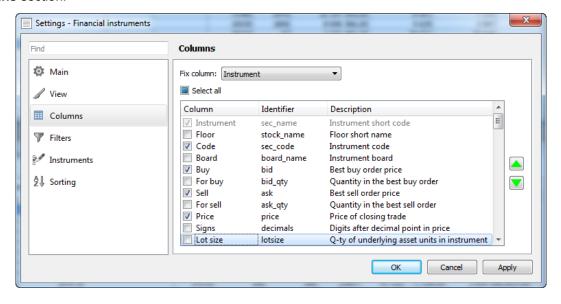


Fig. 11.4. Columns settings

The checkboxes left from the column name displays the current state of each column (enabled/disabled). If a checkbox is active, the appropriate column will be displayed in the table, and vice versa.

The **Select all** option allows to enable all columns in the list. Clicking **Select all** again disables all columns. If some columns are left disabled, the **Select all** item is highlighted in blue.

The Fix column field contains the column name which will be fixed in the current window.

The fixed column itself is highlighted in yellow. This column is always displayed as the first column in the table and never hides even when you scroll the table to the right. You can fix any column in the table. The records in the column can be arranged by clicking the column header with the left mouse button as it can be performed for any other column.

Please note, that the **Fix column** field is available not in all windows. For the current software version, you can set fixed columns only in the **Financial instruments** window.

The order of columns can be set with the special buttons with arrows left of the list. You can move only one line at once (the one under the mouse cursor); the higher is the line in the list, the closer is the column to the left side of the table. Also, you can move lines in the list by drag it with the mouse cursor and drop to the position you need.

The column **Identifier** of the settings window contains some internal identifiers for fields. When exporting data, the field names are taken from these identifiers.

The **Apply** button saves the changes you made, leaving the settings window open.

The Cancel button cancels all the changes you made and closes the settings window.

The **OK** button saves the changes you made and closes the settings window.

The **Columns** context menu item allows to change the parameters settings in a fast mode; to do this, open the context menu from the column header by clicking it with the right mouse button. Please note, that you cannot change columns order this way!

Index 18.08.2015

Index
Α
abnormal termination, 26
all trades, 106
contextual menu, 109
filters, 107
automatic update, 16
С
charts
change instrument, 197
colours, 227
confirmation settings, 219
contextual menu, 188
creating, 189
hide, 199
ISS service, 221
lost, 199
name, 200
offset, 228
open in one area, 197
properties, 191 remove, 200
replace, 198, 199
review, 201
scale, 201
series settings, 224
session schedule, 222
setting the display bar, 220
settings, 218
to pin to the same vertical a
toolbar, 184
types, 181

axis, 198

D

data export, 56 disconnection, 25

window, 183

context menu, 52

contextual search, 50

connection error messages, 38

Ε

edit fields, 49 event log, 256 exercise options, 129 order, 129 rules, 130 Exit the application, 24

H

favorite instruments, 55 access, 54 filtering, 51 settings, 51 financial instruments, 60 contextual menu, 68 filter for instruments, 65 filters, 63 general information, 10 sorting, 66 functional windows, 38

Н

Hardware configurations, 13

1

indicator editor, 211, 211
elements of language QScript, 215
functions, 214
indicators, 192
creating, 194
indicator selection, 195
properties, 195
settings, 226
information, 58
installation package setup, 13
instrument panel, 35
interface, 28

L

limits card, 145 client changing, 153 client setting, 151 clients and BF, 148 Exercise rules, 159 remove, 161 setting for BF, 152 setting for UA, 158 spot on buying, 154 Spot on buying, 157 Spot on selling, 157 toolbar, 151 toolbar for Spot, 156 toolbar for UA, 158 transfer funds, 153

M

main menu, 29
main window, 28
Tech. analysis, 183
main windows
Administrator's messages, 119
All trades/ requests, 106
Configurations managing, 39
Edit TA data, 233
Errors and notifications, 119
Favorite instruments, 55
Financial instruments, 60
Indicator editor
Functions, 214

Index 18.08.2015

Indicators, 211	transactions errors, 120
Information, 58	money, 69
Management, 144	multi-leg instruments operations, 114
Card, 145	
Exercise rules, 159	N
Limitation, 148	
Spot limits on buying, 154	negotiated operations, 112
Spot limits on selling, 157	
Market maker obligation for futures, 167	0
Market maker obligations for options, 173	object manager, 208
Messages, 105	drawing, 210
Money, 69	indicators, 209
Object manager	series, 209
Drawings, 210	options board, 121
Indicators, 209	contextual menu, 128
Series, 209	filter for instruments, 126
Options board, 121	filters, 124
Order-book, 80	sorting, 127
Orders to deposit/ withdraw funds, 177	options calculator, 131
Placing order, 97	add position, 138
Pledges detailization, 166	add strategy, 139
Positions/ requests, 70	batch entry, 141
Prohibitions on operations, 161	chats, 141
Select instrument, 53	export, 140, 142, 143
Sessions, 68	import, 135
Settings, 234	postponed orders, 141
Charts and TA, 218, 252	remove position, 140
Colours, 241	toolbar, 134
Common, 234	virtual portfolio, 135
Confirmations, 238	options exercise
Database, 243	rules, 159
Information, 251	setting rule, 160
Keyboard, 245	toolbar, 160
Management, 244	order-book, 80
Network, 247	contextual menu, 96
Option calculator, 248	highlight volume, 87
Plugins, 249	narrow mode, 84
Sounds, 250	one-click trading, 88, 90
TA archival data, 250	opening position, 95
Trading, 252	opening price, 95
Transport, 253	orders panel, 93
View, 236	position indicator, 94
TA data export wizard, 231	rarefied mode, 85
TA data import wizard, 228	save center, 86
Your orders/ requests, 75	setting of sounds, 95
Your trades/ requests, 110	sorting, 88
management, 144, 144	standard mode, 83
market maker obligation for futures, 167	view, 82
market maker obligations for futures	wide mode, 84
filters, 170	orders, 74
setting sound notification, 172	add, 97
setting visual warning, 172	add negotiated, 113
market maker obligations for options, 173	anonymous multi-leg instruments, 115
Market maker obligations for options	batch entry, 100
filters, 176	cancel, 104
messages, 105, 118	check for limits, 105
administrator's, 119	multi-leg instruments, 114
errors. 119	negotiated, 112

Index 18.08.2015

placing order, 97 postponed, 100 postponed, 100lbar, 101 unprocessed, 38, 103 orders to deposit withdraw funds, 177 P pledges detailization, 166 positions filtering, 73 toolbar, 72 transfer position, 72 positions/requests, 70 postponed orders, 100 prohibitions, 165 on adding option exercising orders, 166 setting, 164 toolbar, 163 Q quotation board, 255 S select instrument, 53 seesions, 68 seeting, 164 toolbar, 172 visual warning, 172 setting from the context menu, 258 settings, 234 average position price, 252 charts, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 transport, 253 view, 236 side panel, 36 SPECTRA, 9 status line, 38	negotiated multi-leg instruments, 116	Т
postponed, toolbar, 101 unprocessed, 38, 103 orders to deposit withdraw funds, 177 P pledges detailization, 166 positions filtering, 73 toolbar, 72 transfer position, 72 positions/requests, 70 postponed orders, 100 prohibitions, 161 change, 166 group of prohibitions, 165 on adding option exercising orders, 166 setting, 164 toolbar, 163 S select instrument, 53 sestions, 68 setting of the context menu, 258 setting from the context menu, 258 settinging, 234 average position price, 252 charts, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 254 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 255 sort, 50 Sort, 50 SPECTRA, 9 status line, 38 swindow settings swindow as tabs of current, 48 ont op, 48 save as default, 49 size, 49 swindow as tabs of current, 48 ont op, 48 swindow settings swindows, 49 unpinned, 45 swindow settings	placing order, 97	TA data 228
postponed, toolbar, 101 unprocessed, 38, 103 orders to deposit withdraw funds, 177 P postponed profits of deposit withdraw funds, 177 postponed orders, 166 protup of prohibitions, 161 change, 166 group of prohibitions, 165 on adding option exercising orders, 166 setting, 164 toolbar, 163 C Q quotation board, 255 S select instrument, 53 seesions, 68 setting sound notification, 172 visual warming, 172 setting from the context menu, 258 settings, 234 average position price, 252 charts, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 254 pilogines, 299 profiles, 255 save, 256 sounds, 80, 95, 250 Thansport, 253 view, 236 side panel, 36 sort, 50 SFECTRA, 9 status line, 38 sexport, 231 import, 228 tabs, 42 actions with tabs, 42 panels, 44 window, 42 the trading system administrator's messages, 38 trades, 106 closing, 38 contextual menu, 112 megotiated, 114 negotiated multi-leg instruments, 118 trading operations, 10 trading participants, 9 trades, 106 closing, 38 contextual menu, 112 multi-leg instruments, 118 reagotiated, 114 negotiated multi-leg instruments, 118 trading operations, 10 trading participants, 9 trades, 106 closing, 38 contextual menu, 112 multi-leg instruments, 118 reagotiated, 114 negotiated multi-leg instruments, 118 trading operations, 10 trading participants, 9 trades, 106 closing, 38 contextual menu, 112 multi-leg instruments, 118 reagotiated, 114 negotiated multi-leg instruments, 118 trading operations, 10 trading participants, 9 trades, 106 closing, 38 contextual menu, 112 multi-leg instruments, 118 reagotiated, 114 negotiated multi-leg instruments, 118 trading operations, 10 trading participants, 9 trades, 106 closing, 38 contextual menu, 112 multi-leg instruments, 118 reagotiated, 114 negotiated, 114 negotiated multi-leg instruments, 118 reagotiated, 114 negotiated multi-leg instruments, 126 reagotics, 10 trading participants, 9 trades, 106 closing, 38 contextual menu, 112 until-leg instruments, 120 trading pa	• •	
uniprocessed, 38, 103 orders to deposit withdraw funds, 177 P pledges detailization, 166 positions filtering, 73 toolbar, 72 transfer position, 72 positions/requests, 70 postponed orders, 100 prohibitions, 161 change, 166 group of prohibitions, 165 on adding option exercising orders, 166 setting, 164 toolbar, 163 Q quotation board, 255 S select instrument, 53 select instrument, 53 sesions, 68 setting sound notification, 172 visual warning, 172 setting from the context menu, 258 settings, 234 average position price, 252 charts, 252 clorus, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 pinels, 249 profiles, 255 save, 256 sounds, 80, 95, 250 Thansport, 253 view, 236 side panel, 36 sort, 50 STECTRA, 9 status line, 38 import, 228 tabs, 42 actions with tabs, 42 panels, 44 window, 42 the trading system administrator's messages, 38 trades, 106 closing, 38 contextual menu, 112 multi-leg instruments, 118 trading operations, 101 trading participants, 9 transport disconnect, 23 reconnect, 24 statuses, 24 transport, connecting, 22 trend line, 202 Fibonacci arcs, 204 Fibonacci arcs, 204 Fibonacci arcs, 204 Fibonacci arcs, 204 Fibonacci arcs, 207 version update, 13 volatility curve, 131 W window active, 46 arrange, 45 close, 49 maximize, 47 minimize, 48 on top, 48 save as default, 49 size, 48 switch between windows, 49 unpinned, 45 window settings	·	
pledges detailization, 166 positions filtering, 73 toolbar, 72 transfer position, 72 postiponed orders, 100 prohibitions, 161 change, 166 group of prohibitions, 165 on adding option exercising orders, 166 setting, 164 toolbar, 163 Q quotation board, 255 S select instrument, 53 seekions, 68 setting, 167 setting from the context menu, 258 setting, 234 average position price, 252 charts, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 manaagement, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 sour, 236	·	·
Peleges detailization, 166 positions filtering, 73 toolbar, 72 transfer position, 72 postponed orders, 100 prohibitions, 161 change, 168 group of prohibitions, 165 on adding option exercising orders, 166 setting, 164 toolbar, 163 Q quotation board, 255 S select instrument, 53 sessions, 68 setting sound notification, 172 visual warning, 172 setting from the context menu, 258 settings, 234 average position price, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 Sylex, 285 sort, 50 sort, 50 sylex, 236 side panel, 36 sylex, 245 sylex, 236 side panel, 36 sylex, 245 sylex, 245 sylex, 236 s	orders to deposit withdraw funds, 177	·
pledges detailization, 166 positions filtering, 73 toolbar, 72 transfer position, 72 positions/requests, 70 postponed orders, 100 prohibitions, 161 change, 166 group of prohibitions, 165 on adding option exercising orders, 166 setting, 164 toolbar, 163 Q quotation board, 255 S select instrument, 53 seesions, 68 setting sound notification, 172 visual warning, 172 setting from the context menu, 258 settings, 234 average position price, 252 charts, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 231 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 purposition, 255 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 window active, 46 arrange, 45 close, 49 maximize, 47 monimize, 47 monimize, 47 money, 48 switch between windows, 49 unpinned, 45 window settings swinch between windows, 49 unpinned, 45 window settings		actions with tabs, 42
positions filtering, 73 toolbar, 72 transfer position, 72 positions/requests, 70 postponed orders, 100 prohibitions, 161 change, 166 group of prohibitions, 165 on adding option exercising orders, 166 setting, 164 toolbar, 163 Q quotation board, 255 S select instrument, 53 sessions, 68 setting sound notification, 172 visual warning, 172 setting from the context menu, 258 settings, 234 average position price, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 trades, 106 closing, 38 contextual menu, 112 multi-leg instruments, 118 trading operations, 10 trading participants, 9 transport disconnect, 23 reconnect, 23 transport, connecting, 22 trend line, 202 Fibonacci arcs, 204 Fibonacci arcs, 204 Fibonacci arcs, 204 Fibonacci arcs, 204 Fibonacci fan, 205 Fibonacci ines, 203 hide, 207 horizontal, 203 properties, 206 remove, 207 replace, 207, 207 V user roles, 19 user sign in, 22 V version update, 13 volatility curve, 131 W window active, 46 arrange, 45 close, 49 maximize, 47 minimize, 47 move, 48 new window as tabs of current, 48 on top, 48 save as default, 49 size, 48 switch between windows, 49 unpinned, 45 window settings	P	panels, 44
filtering, 73 toolbar, 72 transfer position, 72 positions/requests, 70 positions/requests, 70 positions/requests, 70 prohibitions, 161 change, 166 group of prohibitions, 165 on adding option exercising orders, 166 setting, 164 toolbar, 163 Q quotation board, 255 S select instrument, 53 sessions, 68 setting from the context menu, 258 setting from the context menu, 258 setting from the context menu, 258 setting, 234 average position price, 252 charts, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 Tharshival data, 250 transport, 261 trades, 106 closing, 38 contextual menu, 112 multi-leg instruments, 118 reagotiated multi-leg instruments, 118 trading operations, 10 trading participants, 9 transport disconnect, 23 reconnect, 23 reconnect, 24 statuses, 24 transport, connecting, 22 trend line, 202 Fibonacci fan, 205 Fibonacci fan, 207 replace, 207, 207 U user roles, 19 user sign in, 22 V version update, 13 volatility curve, 131 W window active, 46 arrange, 45 close, 49 maximize, 47 move, 48 new window as tabs of current, 48 on top, 48 save as default, 49 size, 48 switch between windows, 49 unpinned, 45 window settings	pledges detailization, 166	window, 42
toolbar, 72 transfer position, 72 positions/requests, 70 postponed orders, 100 prohibitions, 161 change, 166 group of prohibitions, 165 on adding option exercising orders, 166 setting, 164 toolbar, 163 Q quotation board, 255 S select instrument, 53 seessions, 68 setting sound notification, 172 visual warning, 172 setting from the context menu, 258 setting, 234 average position price, 252 charts, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 sounds, 80, 95, 250 TA archival data, 250 transport, connecting, 22 transport, 20 Fibonacci arcs, 204 Fibonacci arcs, 204 Fibonacci arcs, 204 Fibonacci lines, 203 hide, 207 replace, 207 replace, 207 replace, 207, 207 U user roles, 19 user roles, 19 user sign in, 22 V version update, 13 volatility curve, 131 W window active, 46 arrange, 45 close, 49 maximize, 47 move, 48 new window as tabs of current, 48 on top, 48 save as default, 49 size, 48 switch between windows, 49 unpinned, 45 window settings	positions	the trading system administrator's messages, 38
transfer position, 72 positions/requests, 70 postponed orders, 100 prohibitions, 161 change, 166 group of prohibitions, 165 on adding option exercising orders, 166 setting, 164 toolbar, 163 Q quotation board, 255 S select instrument, 53 seelsting sound notification, 172 visual warning, 172 setting from the context menu, 258 setting, 234 a verage position price, 252 charts, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 sounds, 80, 95, 250 TA archival data, 250 transport: connecting, 22 transport: connect	filtering, 73	trades, 106
postions/requests, 70 portopiotions, 100 prohibitions, 161 change, 166 group of prohibitions, 165 on adding option exercising orders, 166 setting, 164 toolbar, 163 Q quotation board, 255 S select instrument, 53 sessions, 68 setting sound notification, 172 visual warning, 172 setting from the context menu, 258 settings, 234 average position price, 252 charts, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, connecting, 22 transport, 200 Fibonacci arcs, 204 Fibonacci arcs, 207 replace, 207 replace, 207 replace, 207, 207 setting from the context menu, 258 settings, 234 U ser roles, 19 user sign in, 22 V version update, 13 volatility curve, 131 W window active, 46 arrange, 45 close, 49 maximize, 47 move, 48 new window as tabs of current, 48 on top, 48 save as default, 49 sort, 50 SPECTRA, 9 status line, 38 winch between windows, 49 urpinned, 45 window settings	toolbar, 72	closing, 38
postponed orders, 100 prohibitions, 161 change, 166 group of prohibitions, 165 on adding option exercising orders, 166 setting, 164 toolbar, 163 Q quotation board, 255 S select instrument, 53 sessions, 68 setting, 234 average position price, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 TA archival data, 250 transport, 250 spector, 28 sounds, 80, 95, 250 TA archival data, 250 transport, 250 spector, 28 select in, 38 switch between windows, 49 unpinioned, 45 swindow settings negotiated multi-leg instruments, 118 trading paraticipants, 9 transport, 23 trading participants, 9 tradign participants, 9 tradign participants, 9 transport, 23 tradigners, 24 transport, 23 transport, 23 transport, 207 transport, 207 transport, 2	·	
prohibitions, 161	· ·	
change, 166 group of prohibitions, 165 on adding option exercising orders, 166 setting, 164 toolbar, 163 Q quotation board, 255 Select instrument, 53 seessions, 68 sesting, sound notification, 172 visual warning, 172 setting from the context menu, 258 setting, 234 average position price, 252 charts, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, connecting, 22 transport, connecting, 23 transport, connecting, 23 reconnect, 24 ransport connecting, 20 remove, 207 replace, 207, 207 replace, 20	·	
group of prohibitions, 165 on adding option exercising orders, 166 setting, 164 toolbar, 163 Q quotation board, 255 S select instrument, 53 select instrument, 53 sessions, 68 setting sound notification, 172 visual warning, 172 setting from the context menu, 258 settings, 234 average position price, 252 charts, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 263 transport disconnect, 23 treconnect, 24 statuses, 24 transport, connecting, 22 trend line, 202 Fibonacci arcs, 204 Fibonacci arcs, 204 Fibonacci lines, 203 hide, 207 horizontal, 203 properties, 206 remove, 207 replace, 207, 207 U user roles, 19 user sign in, 22 V version update, 13 volatility curve, 131 W window active, 46 arrange, 45 close, 49 maximize, 47 minimize, 47 minimize, 47 minimize, 47 minimize, 47 move, 48 save as default, 49 size, 48 switch between windows, 49 unpinned, 45 window settings	·	
on adding option exercising orders, 166 setting, 164 toolbar, 163 Q quotation board, 255 Select instrument, 53 sessions, 68 setting sound notification, 172 visual warning, 172 setting from the context menu, 258 setting, 234 average position price, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport disconnect, 23 transport disconnect, 23 reconnect, 24 transport, connecting, 22 transport, connecting, 22 transport, connecting, 22 transport, consecution, 22 fibonacci arcs, 204 Fibonacci arcs, 204 Fibonacci fan, 205 Fibonacc		- •
setting, 164 toolbar, 163 reconnect, 23 reconnect, 24 statuses, 24 transport; connecting, 22 statuses, 24 transport; connecting, 22 trend line, 202 Fibonacci arcs, 204 Fibonacci arcs, 205 Fibonacci arcs, 204 Fibonacci arcs, 204 Fibonacci arcs, 205 Fibonacci arcs, 204 Fibonacci arcs, 204 Fibonacci arcs, 204 Fibonacci arcs, 205 Fibonacci arcs, 205 Fibonacci arcs, 206 Fibonacci arcs, 207 Fibonacci arcs, 207 Fibonacci arcs, 208 Fibonacci arcs, 204 Fibonacci arcs, 208 Fibonacci arcs, 20		trading participants, 9
toolbar, 163 Q quotation board, 255 S select instrument, 53 select instrument, 53 sessions, 68 setting sound notification, 172 visual warning, 172 setting from the context menu, 258 setting, 234 average position price, 252 colours, 241 confirmations, 238 database, 243 hor keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 Tibonacci arcs, 204 transport, 205 Fibonacci lines, 203 hide, 207 Fibonacci lines, 203 hide, 207 Fibonacci lines, 203 hide, 207 Fibonacci arcs, 204 Fibonacci arcs, 204 Fibonacci fan, 205 Fibonacci arcs, 204 Fibonacci	- · · · · · · · · · · · · · · · · · · ·	·
Q quotation board, 255 S select instrument, 53 sessions, 68 sesting sound notification, 172 visual warning, 172 setting from the context menu, 258 settings, 234 average position price, 252 charts, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 sort, 50 SPECTRA, 9 status line, 38 settings, 294 transport, connecting, 22 trend line, 202 Fibonacci arcs, 204 Fibonacci inres, 205 Fibonacci inres, 204 Fibonacci inres, 205 Fibonacci inres, 205 Fibonacci inres, 204 Fibonacci inres, 203 Fibonacci inres, 203 Fibonacci inres, 203 Fibonacci inres, 203 Fibonacci inres, 205 Fibonacci		
Q quotation board, 255 S elect instrument, 53 select instrument, 53 sessions, 68 setting sound notification, 172 visual warning, 172 setting from the context menu, 258 settings, 234 average position price, 252 charts, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 250 stering from the context menu, 258 settings, 234 Window active, 46 arrange, 45 close, 49 maximize, 47 minimize, 47 move, 48 new window as tabs of current, 48 on top, 48 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 transport, connecting, 222 trend line, 202 Fibonacci arcs, 204 Fibonacci arc, 205 Fibonacci arcs, 204 Fibonacci arcs, 204 Fibonacci arc, 205 Fibonacci arc, 205 Fibonacci arc, 204 Fibonacci arc, 205 Fibonacci arc, 205 Fibonacci arc, 204 Fibonacci arc, 205 Fibonacci arc, 204 Fibonacci arc, 207 Fibonacci arc, 204 Fibonacci arc, 207 Ferous, 207 Fer	toolbar, 163	•
quotation board, 255 S select instrument, 53 select instrument, 53 select instrument, 53 select instrument, 53 sessions, 68 setting sound notification, 172 visual warning, 172 setting from the context menu, 258 settings, 234 average position price, 252 charts, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 tide panel, 36 sort, 50 SPECTRA, 9 status line, 38 tide panel, 36 sort, 50 SPECTRA, 9 status line, 38 tide panel, 36 sort, 50 SPECTRA, 9 status line, 38 tide panel, 36 sort, 50 SPECTRA, 9 status line, 38 tide panel, 36 sort, 50 SPECTRA, 9 status line, 38 trend line, 202 Fibonacci carc, 204 Fibonacci arc, 207 Fichacter, 205 Fibonacci arc, 204 Fibonacci arc, 207 Fredeatal, 203 Fibonacci arc, 204 Fibonacci arc, 207 Fibonacci arc, 204 Fibonacci arc, 206 Fibonacci arc, 206 Fibonacci arc, 206 Fied, 207 Fibonacci arc, 206 Fibonacci arc, 206 Fibonacci arc, 206		statuses, 24
quotation board, 255 S Select instrument, 53 select instrument, 53 sessions, 68 setting sound notification, 172 visual warning, 172 setting from the context menu, 258 settings, 234 average position price, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38	0	•
Select instrument, 53 select instrument, 53 select instrument, 53 sessions, 68 setting sound notification, 172 visual warning, 172 setting from the context menu, 258 settings, 234 average position price, 252 charts, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 visual warning, 38 stetlings Fibonacci lines, 203 Fibonacci lines, 203 hide, 207 serionacci lines, 203 setting setting setting setting setting setting setting setting, 204 setting setting, 205 setting	•	
select instrument, 53 select instrument, 53 sessions, 68 setting sound notification, 172 visual warning, 172 setting from the context menu, 258 settings, 234 average position price, 252 charts, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 Fibonacci lines, 203 hide, 207 serior lines, 203 hide, 207 shide, 207 serior lines, 203 hide, 207 serior lines, 203 setting properties, 206 remove, 207 replace, 207, 207 setting from the context menu, 258 U user roles, 19 user sign in, 22 version update, 13 volatility curve, 131 W W W W window active, 46 arrange, 45 close, 49 arrange, 45 close, 49 arrange, 45 close, 49 maximize, 47 minimize, 47 move, 48 new window as tabs of current, 48 on top, 48 settings settings settings	4	
select instrument, 53 sessions, 68 setting sound notification, 172 visual warning, 172 setting from the context menu, 258 settings, 234 average position price, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 hide, 207 horizontal, 203 properties, 205 horizontal, 203 properties, 206 remove, 207 replace, 208 remove, 207 replace, 207	C	
sessions, 68 setting sound notification, 172 visual warning, 172 setting from the context menu, 258 settings, 234 average position price, 252 charts, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 U user roles, 19 user roles, 19 user sign in, 22 V version update, 13 volatility curve, 131 W window active, 46 arrange, 45 close, 49 move, 46 arrange, 45 close, 49 move, 48 new window as tabs of current, 48 on top, 48 save as default, 49 size, 48 switch between windows, 49 unpinned, 45 window settings		
setting sound notification, 172 remove, 207 remove, 207 replace, 207, 207 setting from the context menu, 258 settings, 234 average position price, 252 user roles, 19 user sign in, 22 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 U user roles, 19 user sign in, 22 version update, 13 volatility curve, 131 W W window active, 46 arrange, 45 close, 49 maximize, 47 minimize, 47 move, 48 new window as tabs of current, 48 on top, 48 save as default, 49 size, 48 switch between windows, 49 unpinned, 45 window settings		
sound notification, 172 visual warning, 172 setting from the context menu, 258 settings, 234 average position price, 252 charts, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 U user roles, 19 user sign in, 22 version update, 13 volatility curve, 131 W W window active, 46 arrange, 45 close, 49 maximize, 47 move, 48 new window as tabs of current, 48 on top, 48 save as default, 49 size, 48 switch between windows, 49 unpinned, 45 window settings		
visual warning, 172 setting from the context menu, 258 settings, 234 average position price, 252 charts, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 user roles, 19 user sign in, 22 version update, 13 volatility curve, 131 W window active, 131 W imainize, 13 imainize, 45 close, 49 maximize, 45 close, 49 maximize, 47 minimize, 47 move, 48 new window as tabs of current, 48 on top, 48 save as default, 49 size, 48 Switch between windows, 49 unpinned, 45 window settings	· ·	·
setting from the context menu, 258 settings, 234 average position price, 252 charts, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 U user roles, 19 user sign in, 22 version update, 13 volatility curve, 131 W window active, 46 arrange, 45 close, 49 maximize, 47 minimize, 47 minimize, 47 move, 48 new window as tabs of current, 48 on top, 48 switch between windows, 49 unpinned, 45 window settings		
settings, 234 average position price, 252 charts, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 U user roles, 19 user sign in, 22 user sign in, 22 user sign in, 22 version update, 13 volatility curve, 131 W window active, 46 arrange, 45 close, 49 maximize, 47 minimize, 47 move, 48 new window as tabs of current, 48 on top, 48 save as default, 49 size, 48 switch between windows, 49 unpinned, 45 window settings		replace, 207, 207
average position price, 252 charts, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 V version update, 13 volatility curve, 131 W W window active, 46 arrange, 45 close, 49 maximize, 47 minimize, 47 move, 48 new window as tabs of current, 48 on top, 48 size, 48 switch between windows, 49 unpinned, 45 window settings	· ·	
charts, 252 colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 sort, 50 SPECTRA, 9 status line, 38 V version update, 13 volatility curve, 131 W window active, 46 arrange, 45 close, 49 maximize, 47 move, 48 new window as tabs of current, 48 on top, 48 save as default, 49 size, 48 Swindow settings	· ·	U
colours, 241 confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 V version update, 13 volatility curve, 131 W window active, 46 arrange, 45 close, 49 maximize, 47 move, 48 new window as tabs of current, 48 view, 236 save as default, 49 switch between windows, 49 unpinned, 45 window settings	- '	user roles, 19
confirmations, 238 database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 Side panel, 36 sort, 50 SPECTRA, 9 status line, 38 V version update, 13 volatility curve, 131 W window active, 46 arrange, 45 close, 49 maximize, 47 minimize, 47 move, 48 new window as tabs of current, 48 on top, 48 save as default, 49 size, 48 switch between windows, 49 unpinned, 45 window settings		user sign in, 22
database, 243 hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 W W window active, 46 arrange, 45 close, 49 maximize, 47 minimize, 47 move, 48 new window as tabs of current, 48 on top, 48 size, 48 switch between windows, 49 unpinned, 45 window settings		
hot keys, 245 information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 W window active, 46 arrange, 45 close, 49 maximize, 47 minimize, 47 move, 48 new window as tabs of current, 48 on top, 48 save as default, 49 size, 48 switch between windows, 49 unpinned, 45 window settings		V
information, 251 management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 W window active, 46 arrange, 45 close, 49 maximize, 47 minimize, 47 move, 48 new window as tabs of current, 48 on top, 48 size, 48 switch between windows, 49 unpinned, 45 window settings		version update. 13
management, 244 network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 W window window active, 46 active, 46 arrange, 45 close, 49 maximize, 47 minimize, 47 move, 48 new window as tabs of current, 48 on top, 48 save as default, 49 size, 48 switch between windows, 49 unpinned, 45 window settings		
network, 247 notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 window window active, 46 arrange, 45 close, 49 maximize, 47 minimize, 47 move, 48 new window as tabs of current, 48 on top, 48 save as default, 49 size, 48 switch between windows, 49 unpinned, 45 window settings		,
notification, 234 option calculator, 248 plugins, 249 profiles, 255 save, 256 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 window active, 46 active, 46 arrange, 45 close, 49 maximize, 47 moinimize, 47 move, 48 new window as tabs of current, 48 on top, 48 save as default, 49 size, 48 switch between windows, 49 unpinned, 45 window settings	•	W
option calculator, 248 plugins, 249 profiles, 255 save, 256 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 active, 46 arrange, 45 close, 49 maximize, 47 move, 48 minimize, 47 move, 48 new window as tabs of current, 48 on top, 48 save as default, 49 size, 48 switch between windows, 49 unpinned, 45 window settings	•	
plugins, 249 profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 arrange, 45 close, 49 maximize, 47 minimize, 47 move, 48 new window as tabs of current, 48 on top, 48 save as default, 49 size, 48 switch between windows, 49 unpinned, 45 window settings		
profiles, 255 save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 close, 49 maximize, 47 minimize, 47 move, 48 new window as tabs of current, 48 on top, 48 save as default, 49 size, 48 switch between windows, 49 unpinned, 45 window settings		
save, 256 sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 maximize, 47 minimize, 47 move, 48 new window as tabs of current, 48 on top, 48 save as default, 49 size, 48 switch between windows, 49 unpinned, 45 window settings	• •	
sounds, 80, 95, 250 TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 minimize, 47 move, 48 new window as tabs of current, 48 on top, 48 save as default, 49 size, 48 switch between windows, 49 unpinned, 45 window settings	•	
TA archival data, 250 transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 move, 48 new window as tabs of current, 48 new window as tabs of current, 48 save as default, 49 size, 48 switch between windows, 49 unpinned, 45 window settings		
transport, 253 view, 236 side panel, 36 sort, 50 SPECTRA, 9 status line, 38 new window as tabs of current, 48 on top, 48 save as default, 49 size, 48 switch between windows, 49 unpinned, 45 window settings		
view, 236 on top, 48 side panel, 36 save as default, 49 sort, 50 size, 48 SPECTRA, 9 switch between windows, 49 status line, 38 unpinned, 45 window settings		
side panel, 36 sort, 50 size, 48 SPECTRA, 9 status line, 38 save as default, 49 size, 48 switch between windows, 49 unpinned, 45 window settings		
sort, 50 SPECTRA, 9 status line, 38 size, 48 switch between windows, 49 unpinned, 45 window settings		·
SPECTRA, 9 switch between windows, 49 status line, 38 unpinned, 45 window settings	·	
status line, 38 unpinned, 45 window settings		
window settings		
	Status IIIIC, 30	

Index 18.08.2015

```
highlight, 259
  window appearance, 259
withdraw funds, 177
  order, 178
  recall order, 180
withdrawal order wizard, 178
workspace configuration
  active, 39
  basic, 41
  manage, 39
  new, 40
  restore, 41
  restore default settings, 41
  save, 41
Υ
```

your orders context menu, 79 filters, 77 setting of sounds, 80 your orders/requests, 75 your trades filters, 112 setting of sounds, 80 your trades/requests, 110

List of Figures

1.1. Function diagram of the trading terminal	. 1:
2.1. Trading terminal Setup Wizard.	
2.2. Application Setup Wizard. Choosing Setup type.	
2.3. Desktop shortcut settings.	
2.4. Application Setup Wizard. Installation confirmation.	
2.5. Application Setup Wizard. Installation progress.	
2.6. Application Setup Wizard. Finishing setup.	
2.7. Automatic update. Notification on a new version.	
2.8. Automatic update. Notification message in the notification bar.	
2.9. Automatic update. Selecting download folder.	
2.10. Automatic update. Download process.	
2.11. Automatic update. Installing new version.	
2.12. Automatic update. Notification on restart.	
4.1. User sign in window	
4.2. Transport disconnect confirmation window	
4.3. Exit confirmation	
4.4. Transport status	
4.5. Automatic reconnection to the server	
4.6. The Connections window at disconnect	
4.7. Abnormal termination error message	
4.8. Abnormal termination error message	
5.1. Trading terminal main window	
5.2. Main menu	
5.3. Instrument panel	
5.4. Side panel	
5.5. Status line	
5.6. Workspace configurations management	
5.7. Creating new workspace configuration	. 4(
5.8. Window tab	
5.10. Panel tabs	
5.11. Menu line in unpinned window	
5.12. Windows arranged side by side	
5.13. Cascaded windows	
5.14. Menu - Active window	
5.15. Context menu, window title line	
5.17. Sorting by column	
5.18. Contextual search	
5.19. Select instrument window	
5.20. Side panel - Favorite instruments	
5.21. Favorite instruments - menu	
5.22. Favorite instruments window	
5.23. Select the export data's format	
5.24. Data export window	
6.1. Information window	
6.2. Window Financial instruments	
6.3. Filter settings in the Financial instruments window	
6.4. Filter for instruments in the Financial instruments window	
6.5. Sorting in the Financial instruments window	
6.6. The Sessions window	
6.7. Money window	
6.8. Positions/ requests window	
6.9. Transfer position window	
6.10. Filtering settings in the Positions/ requests window	//

	Your orders/ requests window	
6.12.	Filtering settings in the Your orders/ requests window	77
6.13.	Sound settings on adding a new string in the table	. 80
6.14.	Setting the Order-book window appearance	. 82
6.15.	Order-book window. Standard mode	83
6.16.	The Order-book window. Narrow mode	84
6.17.	Order-book window. Wide mode	85
6.18.	Order-book window. Rarefied mode	. 86
6.19.	Order-book window. Standard mode with fixed center	86
6.20.	Order-book window. Narrow rarefied mode with fixed center	. 87
6.21.	Order volume highlight settings	87
	One-click trading setting	
6.23.	Setting hotkeys for One-click trading mode	91
6.24.	Orders panel	93
6.25.	Orders panel settings	. 93
	Position indicator	
6.27.	Setting a sound warning at adding orders and matching trades	. 96
6.28.	Adding order. Order adding mode	98
6.29.	Adding order. Editing mode	. 98
6.30.	Order adding error message	100
6.31.	Postponed orders	100
6.32.	Order adding scenarios window	102
6.33.	Unprocessed orders	103
6.34.	Check for limits window	105
	Check for multiplicity window	
6.36.	Messageswindow	105
6.37.	All trades/ requests window	106
6.38.	Filtering settings in the All trades/ requests window	108
	Your trades/ requests window	
6.40.	Adding a negotiated order	113
6.41.	Adding order for the repo and repo pseudo anonymous instruments	115
6.42.	Adding order for the swap and spread anonymous instruments	116
	Adding order for negotiated repo and repo pseudo instruments	
	Placing order for negotiated swap and spread instruments	
	New trading system/Administrator's message	
	Administrator's messages	
	Errors and notifications window	
	Options board	
7.2. \$	Setting filters in the Options board window	125
	Filtering by instruments in the Options board window	
7.4. \$	Sorting in the Options board window	128
	Exercise option	
	/olatility curve	
	Options calculator	
	Select a file to import	
	Option calculator data importing Wizard. The first screen.	
	Option calculator data importing Wizard. All the mandatory fields selected	
	Import error message	
	Import completed successfully message	
	Options calculator. Adding a position into virtual portfolio.	
	Options calculator. Add strategy to virtual portfolio.	
	Postponed orders	
	Export CSV file for charts	
	Export JPG file for charts	
	Management window for CF	
	Management window for BF	
	Management window for client	
8.4. (Card tab for CF	146

146
146
149
151
152
153
154
155
157
15 8
159
159
160
162
164
165
167
168
168
170
172
173
174
176
177
179
179
182
182
182
182
183
183
188
191
193
194
195
196
198
198
200
202
203
204
204
205
206
206
206 209
209
209 210
209 210 210
209 210 210 211
209 210 210 211 212
209 210 210 211 212 212

9.32. Entering function code	214
9.33. Charts and TA. The Confirmations tab.	
9.34. Charts and TA. The Main tab.	221
9.35. Data load settings	
9.36. Charts and TA. The Session schedule tab.	223
9.37. Editing session parameters for charts	224
9.38. Charts and TA. The Series chart tab.	224
9.39. Charts and TA. The Indicators tab.	
9.40. Charts and TA. The Colours tab.	227
9.41. Data structure	229
9.42. TA data import wizard. Series.	
9.43. TA data import wizard. Format.	
9.44. TA data import wizard. Columns.	230
9.45. Import error message	
9.46. Import completed successfully message	
9.47. TA data export wizard. Series.	
9.48. TA data export wizard. Format.	
9.49. Message window	232
9.50. The Edit TA data window	
10.1. Settings/ Terminal settingsmenu	
10.2. Administrator's message notification	
10.3. Settings. The Main/ Common tab	
10.4. Settings. The Main/ View tab.	
10.5. Confirmations settings	
10.6. Colours settings	
10.7. Database settings	
10.8. Management settings	
10.9. Hot keys settings	
10.10. Proxy-server settings	
10.11. Confirmations settings for the option calculator module	
10.12. Plugins settings	
10.13. Sounds settings	
10.14. TA archival data settings	
10.15. Information settings	
10.16. Average position price setting	
10.17. Transport settings	
10.18. Connection profiles	
10.19. The About window	
11.1. Standard context menu	
11.2. Main group window settings	
11.3. Highlight settings	
11.4. Columns settings	260

List of Tables

1. List of abbreviations	
2.1. PC configuration	. 13
4.1. User sign in window fields	. 23
5.1. Main menu commands	. 30
5.2. Instrument panel items	. 36
5.3. Trading terminal functional windows	
5.4. The workspace configurations management buttons	. 40
6.1. Parameters in window Financial instruments	
6.2. Filter parameters in the Financial instruments window	. 64
6.3. Parameters in the Sessions window	. 69
6.4. Parameters in the Money window	. 69
6.5. Parameters in the Positions/ requests window	. 70
6.6. Toolbar of the Positions/ requests window	
6.7. Parameters in the Transfer position window	
6.8. Parameters in Your orders/ requests window	
6.9. Filtering parameters in the Your orders/ requests window	
6.10. Parameters in the Order-book window – Standard mode	
6.11. Parameters in the Order-book window – narrow mode	
6.12. Parameters in the Order-book window – wide mode	
6.13. Setting the One-click trading options	
6.14. List of hotkeys for the One-click trading mode	
6.15. Parameters in the Add order window	
6.16. Parameters of the Postponed orders window	
6.17. Toolbar of the Postponed orders window	
6.18. All trades/ requests window parameters	
6.19. Filtering parameters in the All trades/ requests window	
6.20. Parameters in the Your trades/ requests window	
7.1. Parameters in the Options board tab	
7.2. Filtering parameters in the Options board window	
7.3. Parameters in the Options calculator window	
7.4. Toolbar in the Option calculator	
7.5. Parameters in the Add position into virtual portfolio window	
7.6. Parameters of option strategy	
8.1. Parameters in the Card tab	
8.2. Parameters in the Limitation tab	
8.3. Toolbar in the Limitation tab	
8.4. Parameters in the Setting limits window for clients	
8.5. Parameters in the Setting BF limits window	
8.6. Parameters in Funds transfer between BF window	
8.7. Parameters in the Spot limits on buying tab	
8.8. Toolbar in tab Spot limits on buying	
8.9. Parameters in window Spot limit on buying	
8.10. Parameters in the Spot limits on selling tab	
8.11. Toolbar in the Spot limits on selling tab	
8.12. Parameters in the Spot limit on selling window	
8.13. Parameters in the <i>Exercise rules</i> tab	
8.14. Toolbar in the Exercise rules tab	
8.15. Parameters in the New rule window	
8.16. Parameters in the Prohibitions window	
8.17. Toolbar of the Prohibitions window	
8.18. Parameters in the New prohibition window	
8.19. Parameters in the New group of prohibitions window	
8.20. Parameters in the Pledges detailization window	
8.21. Parameters in the Market maker obligations for futures window	
8.22. Filter parameters in the Market maker obligations for futures window	
0.22. The parameters in the market maker obligations for futures willow	T/-

8.23. Parameters in the Market maker obligations for options window	
8.24. Filter parameters in the Market maker obligations for options window	176
8.25. Parameters in the Requests to deposit/ withdraw funds window	
9.1. Toolbar for Tech. analysis	184
9.2. Trend line properties	206
9.3. Function buttons in the Object manager window	208
9.4. Parameters in the Series tab (Object manager)	
9.5. Parameters in the Indicators tab (Object manager)	
9.6. Parameters in the Drawings tab (Object manager)	210
9.7. QScript language extension	
9.8. Parameters in the Confirmations tab	
9.9. Parameters in the Session schedule tab	
9.10. Parameters in the Chart of series tab	
9.11. Parameters in the Indicators tab	
9.12. Parameters in the Colours tab	
10.1. Parameters in the Common tab	
10.2. Parameters of the View tab	
10.3. Confirmations	
10.4. Colour settings	
10.5. Database settings	
10.6. Hot keys	
10.7. Plugins	
10.8. Parameters in the Settings/ Transport tab	254
11.1. Highlight settings	260

List of Procedures

9.1. Creating a chart in a new window via the main menu	190
9.2. Creating a chart from the All trades/ requests, Financial instruments, Order-book windows via the context	
menu	190
9.3. Dragging a chart into the already opened window	190
9.4. Creating a chart in the new Tech. analysis window	190
9.5. Creating chart in a new area of the opened Tech. analysis window	191
9.6. Creating of indicator chart using toolbar in the Tech. analysis window	194
9.7. How to pin several charts to the same vertical axis	199
9.8. How to unpin a chart from a vertical axis	199
9.9. How to add a trend line	203
9.10. How to add a resistance /support level	203
9.11. How to add Fibonacci lines	204
9.12. How to add Fibonacci arcs	205
9.13. How to add Fibonacci fan	205