Chapter 2. Basic operating principles

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2.1 Data structure

QUIK facilitates receiving information from several market sectors (various exchanges, trading modes, etc.). Securities, indices and other parameters characterising a unique data type are called financial or exchange **instruments**. Data of the same type or from the same market sector is grouped under **instrument classes**.

> **Example of classes: MOEX First-Tier shares, MOEX First-Tier bonds, MOEX indices.**

An instrument class contains the **instrument list,** which is a list of securities or indices.
The instrument list agrees with the register of (listed) securities in the market sector.

> **Example of an instrument list: Rostelecom, LUKOIL, Sberbank-p.**

Each instrument class includes a **list of parameters,** which represents the trading trends for those instruments.

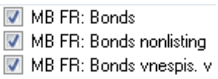
> **Example of a parameter list: highest bid price, highest bid volume, total bid volume.**

To exclude unnecessary values from the list, **filters** are used. The filtered data are not shown in tables.

2.1.1 Operations using classes

To select elements in a specific class, use **filters** or **drop-down lists.**

Selecting data from a class using a filter
To select a class, click on the required class or press the space bar on your keyboard. Click on it or press the space bar again to disable the selection. To select data within a class, use a filter.



Selection statuses for classes are as follows:

- ☑ indicates that all elements in the list have been selected, and the filter is not activated;
- ☑ indicates that some elements have been selected from the list using a filter;
- ☐ indicates that no elements in the list have been selected.

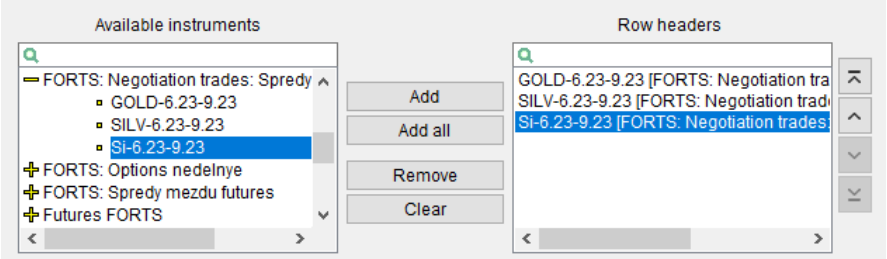
Upon deselection of a class using a set filter, the filter is not reset. If the class is selected again, the filter is re-activated. To disable a class filter, clear its checkbox ☑ or clear the list of selected parameters in the filter settings.

To select all available classes in a list, click **Select all**. If there are any pre-set instrument or parameter filters for any classes, the settings remain unchanged.

To cancel the selection for all classes, click **Clear**. If any of the classes contains a pre-set filter, the gets activated when selecting this class.

Selecting data from a class using the drop-down lists

Classes in a drop-down list are indicated with "+" if the list is minimized or "-" if the list is expanded. To display the instrument list in a selected class, click '+' with your mouse or press the space bar. Click or press the space bar again to minimize the list.

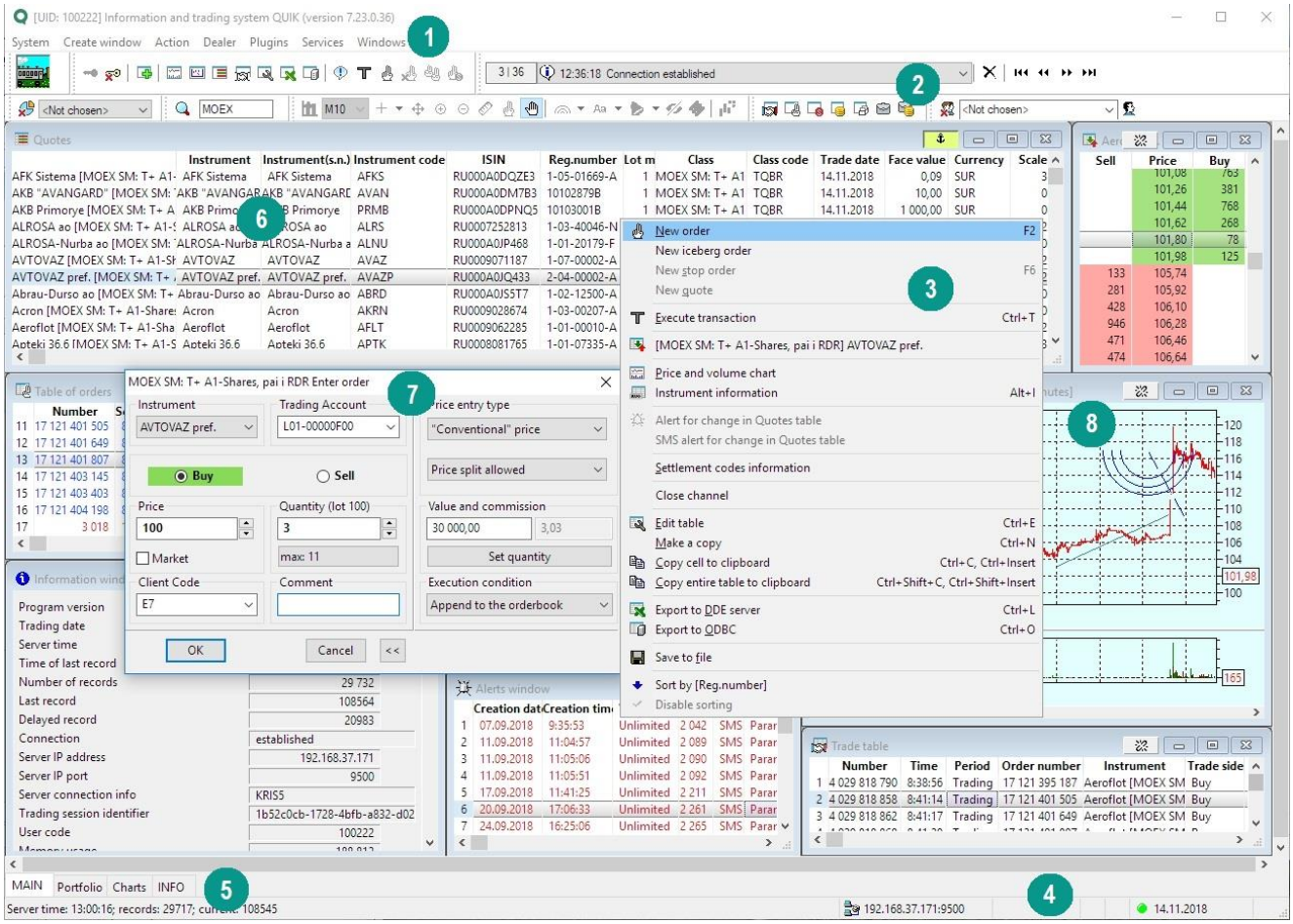


To select data from a class, move the highlighted elements from the list of available parameters (the left panel) to the list of selected ones (the right panel) by clicking **Add**, **Add all**, **Remove** or **Clear** by left double clicking.

If allowed by the table type, the list of selected parameters may be rearranged by highlighting a parameter and moving it using the **UP** and **DOWN** buttons.

> **To select several consecutive parameters, press and hold the SHIFT key. To select several separate parameters, press and hold the CTRL key.**

2.2 Program interface



The basic components of the QUIK interface are as follows:

1. **Menu bar:** provides access to all program functions. The list of menu items and their purposes are described in 2.14.2.
2. **Toolbar:** contains buttons that provide quick access to frequently used functions.
3. **Shortcut menu:** appears after right-clicking on a window and contains the list of commands available through the active window.
4. **Status bar:** shows the following system information:

- server time (for the description, see 1.11 of Section 1: Before Starting);
- current amount of records in the Quotes Table, uploaded to the server and displayed in the terminal of a certain user;
- IP address;
- status of the connection to the server and date.

5. **Tabs:** assists in organizing windows and allows the user to quickly switch between windows.
6. **Tables:** shows data received from the server.
7. **Dialogue boxes**: includes boxes such as 'Settings' and 'Order Entry', which allow the user to enter specific parameters.

8. **Graphs:** used to display the trends for various market indices.

2.2.1 Menu bar

The menu bars are used to access all of the program functions. The set of menu items available depends on the QUIK user's authorisation to access rights to information and carry out specific operations. For example, the **News** menu is available if the user is granted access to receive news items.

In this Manual, menus and commands are presented in bold italics, which may be divided by a forward slash (/). For example, 'click **System / Connect...**' indicates that the user should first select the **System** menu and then click **Connect** therein.

2.2.2 Toolbar

The toolbar is intended to provide quick access to the basic program functions. It includes a set of several panels that can be switched on or off, moved across the screen and arranged into rows. To enable a toolbar, right-click over an item, and then select (using left-click) the required item from the list of available toolbars. Alternatively, you may customise the toolbar by choosing **System / Settings / General settings...** and then select specific items from the **Program / Toolbars** tab (see 2.10).

> **If all toolbars are disabled, the shortcut menu is not available, and the toolbars can only be enabled via the program menu.**

The toolbar icons can be either large or small (e.g., or). The large icons are more visible, while the smaller icons take up less space on the screen. To adjust the size, click **System / Settings / General settings...** and then select or clear the **Large icons** checkbox in the **Program / Toolbars** tab.

When the cursor hovers over a toolbar item, the icon's purpose appears. The QUIK toolbars and their purpose as well as the section in which the description appears are shown in table below:

Toolbar	Purpose	Description
Animated image	Animated 'train' indicator showing the progress for receiving data from the server	1.11, Chapter 1
Standard	Connecting / disconnecting, customising tables and charts, handling orders	
Messages	Viewing and switching between program messages	2.9
Global client filter	Enabling / disabling the table filter for a specific client code	2.3.2

Toolbar	Purpose	Description
Global market filter	Enabling / disabling the table filter for a class of instruments	2.3.3
Personal tables	Opening tables with information about the user's positions, orders and trades	
Instrument search	Quick search tool for instruments amongst all available instruments and opening tables and charts with information on the instruments found	2.4
Chart	Controls for the chart window, adding indicators and trends, scaling, and entering orders	Chapter 4

The purpose of the toolbar icons is described in 2.14.1.

2.2.3 Shortcut menu

The shortcut menu allows the user to customise and open new program windows to view information using the parameters selected in the current table.

To display the shortcut menu, right-click once. In some windows, double clicking may be used to activate some functions quickly (e.g., opening a chart or cancelling an order). To set up the program response to the right-click function, select **Program** / **Context menu** under **System / Settings / General settings...**, and, then, select the required option in the **Right-click** group box.

> **Shortcut menu can be called without using the mouse by pressing SHIFT+ F10 or by the special key on keyboard located between 'Win' and CTRL.**

2.2.4 Tabs

The tabs are designed to help position a large number of open windows and facilitate quickly switching between them. The tabs are 'labels' with names that may be placed above or below the working area. One or more windows may be pinned to each tab, so that they are only displayed if the corresponding tab is selected. For detailed instructions on using the tabs, see 2.6.

2.2.5 Status bar

The status bar shows the status of the various parameters of the program: the availability of the connection to the server, the server address, the transfer of data, new messages and alerts, currency units, etc. The status bar may be activated / hidden by selecting **Program** under **System / Settings / General settings...**, and, then, selecting the **Status Bar** checkbox.

2.2.6 'Hotkeys'

Many program actions may be launched by pressing certain combinations of keys called 'hotkeys'. If two or more keys must be pressed together, the QUIK User's Manual designates them by '+' (plus), for example CTRL+Q (i.e., press the 'Ctrl' and 'Q' keys simultaneously). A special editor intended for setting up hotkey combinations is provided, which is available from the main menu **System / Settings / Hotkey editor** or may be launched by pressing CTRL+H. For a detailed description of the editor, see 2.13. See the list of key combinations and their purpose in Appendix to this section.

2.3 Global filters

The **Global filters** feature allows the user to set up filters simultaneously for all tables or for all tables open on the current tab. This feature is useful for executing of the following tasks:

- Quickly set up a group of tables to display information that shows the orders, trades and positions for a selected client;
- Quickly switch between the tables for specified accounts or firms.

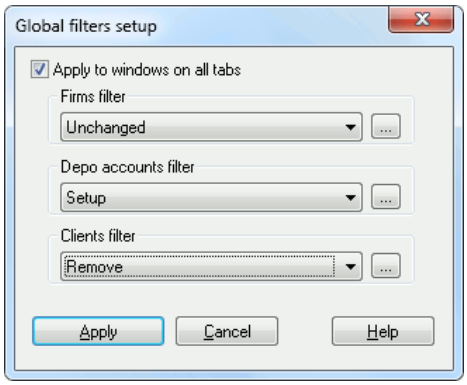
To activate this feature, select **Services / Global filters...** or press CTRL+G.
Global filter settings are saved to the configuration file (*.wnd) including when the program is closed. After reading the configuration file (e.g., when launching the program), the filter settings will be loaded and available for editing in the Global Filter Settings window.

2.3.1 Configuring the global filters

1. **Enabling the filter**. Click '...' to the right of the filter name and create a list of your choices. Click **OK** to save the changes. In the list of available operations, select **Setup**. To modify the settings of the relevant filters not specified in the tables, click **Apply**.

> **Configuring a filter with an empty list of selected parameters is equivalent to disabling the filter.**

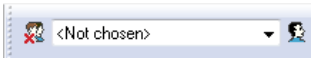
2. **Disabling the filter**. Select **Remove** from the list of operations. To disable the relevant filters in the tables, click **Apply**.
3. If value **Unchanged** is selected in the filter's dropdown list, settings of this filter remain unaffected when pressing **Apply**.
4. If the **Apply to windows on all tabs** checkbox is selected, the filter setting modifications applies to all tables in the program. If this checkbox is clear, only those filters for the tables in the active tab get modified.



Click **Cancel** to close the window without modifying the filters.

2.3.2 Filtering by client code / name

To enable the global filter by client code from the toolbar, click **Global Client Filter** on the toolbar's shortcut menu.



The icon '**Enter the client code from filter in the New order form**' works like a switch and is in the ON position if pressed or OFF when not. The icon position is saved to the configuration file (*.wnd) and restored upon launching the program.

1. If the icon is on and the Global client filter is shown in the program's toolbar, the client codes and trading accounts are entered into the order form as described below:

- If a futures or option order is entered, the value from the filter is inserted into the **Trading account** box; the **Comment** field is filled by the value specified in configuration file of autofilling (see Chapter 5, "Client operations", sub-section 5.17. Configuring order entry fields autofilling). The **Client code** box will remain blank;

> **When entering a makler order for futures and options using multi-broker workstation the value from the filter is substituted into the Trading account box, The Firm name box is filled by the value of the firm's identifier corresponding to this trading account.**

- For all other orders, the value from the filter is inserted into the **Client code** box. The **Comment** field is filled by the value specified in configuration file of autofilling (see Chapter 5, "Client operations", sub-section 5.17. Configuring order entry fields autofilling).

2. If the icon is disabled and/or the filter is missing from the toolbar, filling in the boxes of the order form is not affected.

If a client code is entered into the filter's entry box, the filtering of clients by this code is activated in all tables in the active tab. Thus, different filters can be set up for different tabs. To apply the global filter to all tabs, press and hold Shift while selecting a client code.
The list of clients contains the client codes and names in alphabetical order (if the substitution mode is activated, see Chapter 5, "Client operations", sub-section 5.19.1). The contextual search

is also available. To find a required client, type the first characters of its code or name in the box and the cursor will move to the row with the matching characters.

To remove a filter, select **Not chosen** from the list or click .

> 1. **The global filter by client code function 'Enter the client code from filter in the New order form' is given priority in relation to the 'Value by default' / 'Client code' parameter in the order entry settings and the client code auto-complete from file settings (for details, see Chapter 5, "Client operations", sub-sections 5.13 and 5.17).**
> 2. **Setting up or disabling this filter changes the client filter settings in the tables and does not affect the filters on other parameters.**
> 3. **Upon selecting the Global filter, changes will apply to the Client filter in all tables displayed 'on all tabs'.**
> 4. **Changes in the global filter also apply to newly created tables.**

2.3.3 Filtering by instrument class / market

Global filter by instrument class / market can be moved to the program's toolbar, click **Global Market Filter** in the toolbar's shortcut menu.

The filter contains a list of available instrument classes. If a class is entered into the filter's entry box, all tables in the current tab show the values corresponding to the selected class. Thus, different filters can be set for different tabs. To apply the filter to all tabs, press and hold 'Shift' while selecting the class of instruments.
The drop-down list contains the instrument classes or names of markets listed in alphabetical order (if the description file markets.ini is found, see Chapter 5, "Client operations", sub-section 5.19.2). The contextual search is also available. To find a required class of instruments or a market, type the first few characters of its name in the box and the cursor will jump to the row with the matching characters.

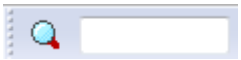
To remove a filter, select **Not chosen** in the list or click .

2.4 Quick search for an instrument

2.4.1 Purpose

The quick search function was designed to facilitate easily accessing information about any instrument.
The search window can be opened using one of two methods:

- Using the special panel on the toolbar;

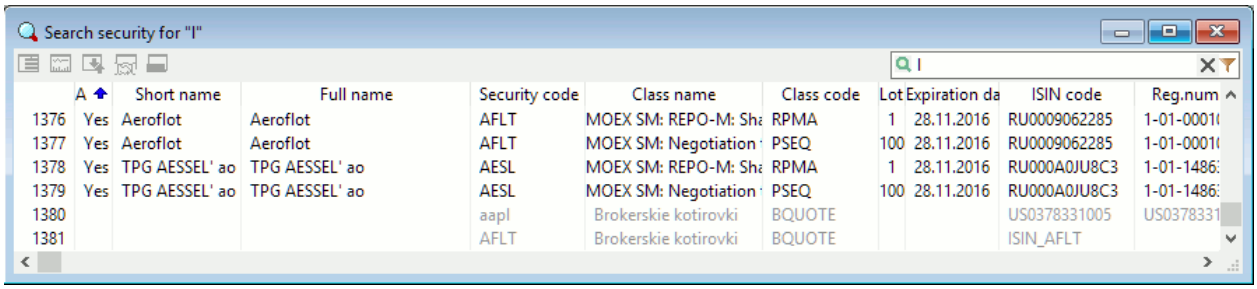


Click the button or type a part of the instrument name or code in the box and then press ENTER.

- Pressing CTRL+SHIFT+F. Specify the search criteria in the window that opens.

2.4.2 Window format

The instrument search window is shown in a table which contains the list of found instruments:



> **Only single instrument search window can be shown on the screen. The information in the table is updated after each instrument search request.**

Instruments that have already been received from the QUIK server are displayed in the table in a standard way. Available instruments (those that are in the dictionary of available instruments and can be requested from the QUIK server, see 2.4.4) are displayed in grey in the table.
The table columns contain the following parameters:

Field name	Description
* Short name	Short instrument name
* Full name	Full instrument name
* Instrument code	Exchange identifier assigned to the instrument
* Class name	Name of the class of the instrument
* Class code	Class identifier in the trading system
Available	Indicates that the instrument is received from the QUIK server. Possible values: _ Yes – the instrument is received from the QUIK server; _ “” (empty) – the instrument is in the dictionary of available instruments;
* Lot size	Minimum allowable quantity of an instrument in an order, units
* Expiration date	Redemption date (for instruments with fixed maturity period)

Field name	Description
* ISIN	ISIN code of an instrument
* Reg. number	Instrument identifier
* CFI	CFI code of an instrument
Stockcode	Exchange ticker of an instrument
RIC	RIC code of an instrument
CUSIP	CUSIP code of an instrument
SEDOL	SEDOL code of an instrument
LocalCode	Local code of an instrument
StockName	Code of a derivatives contract in QUIK system format
Bloomberg ID	Bloomberg instrument identifier
Complex product	Type of the complex financial product. Valid values: _ -100 – no restrictions; _ -1 – product is not in the list of Basic testing standard, it is unavailable for unqualified investors who have not passed the test; _ 0 – product is intended for qualified investors according to the 39 Federal Law or Issue Documents; _ 4 – structed bonds which are not intended for qualified investors; _ 5 – investments units of the Closed-end unit investment funds which are not intended for qualified investors; _ 6 – Russian issuers' bonds with no credit rating or with a credit rating which is lower than the set level; _ 7 – foreign issuers' bonds with liabilities are discharged by legal entity incorporated according to the Russian Federation legislation, with no credit rating or with a credit rating which is lower than the set level; _ 8 – structed income bonds; _ 9 – shares which are not in the quote lists; _ 10 – foreign shares, the test is required; _ 11 – trades, to buy ETF foreign investment units, the test is required; _ 800 – bonds prohibited to be bought from 01.10.2021 till 01.04.2024 for successfully tested investors (test 8)

* – parameters selected by default.

2.4.3 Window settings

The table has its own toolbar to handle the search results. The functions of the buttons are as follows:

Button	Function
	Adds an instrument to the Quotes Table. If the table is unavailable, it will be created
	Creates a price / volume plot for an instrument
	Opens a Level II Quotes Table that displays the queues for the largest orders of an instrument
	Opens the Time and Sales Table filtered for a specific instrument
	Opens the window containing information on this instrument

The box Lukoil is used to edit the search parameters:

- To change an instrument, type a part of the instrument name or code in the box and then click the button or press ENTER.
- To clear the search bar click the button ✕.
- To specify the search criteria, click the button . The following criteria are available:

  - Instrument name;
  - Instrument code;
  - ISIN;
  - Reg. number;
  - Class name;
  - Class code;
  - CFI;
  - Ticker;
  - RIC;
  - CUSIP;
  - SEDOL;
  - Local code;
  - Stock name;
  - BSID – Bloomberg instrument identifier.

Selected criteria are checked. If not all of criteria are selected, the button changes to . At least one criterion should be selected.
The information in the table is updated based on the selected search criteria when the **Ok** button is clicked. Click **Cancel** to close the criteria selection panel without saving the changes.

2.4.4 Available operations

Data from the table can be copied and output via DDE server.

Functions available for the current table can be called from the **Action** menu item or the table shortcut menu:

- Create quotes table * – add the instrument to the Quotes table. If this table does not exist, it will be created.
- Create price and volume chart – create the trade price and volume chart for the instrument.
- [<Class>] <Instrument name> (or double click by left mouse button on the table's row) – open the Level II Quotes table containing the queues of best orders on the instrument.
- Create time and sales table – open the Time and Sales table filtered by this instrument.
- Instrument information (or ALT+I) – open the instrument information window.
- Obtain (or left double click) * – request an instrument from the QUIK server by class specified in the row. The user is prompted for confirmation of the operation. The result of an operation:

  - Key parameters of the instrument are populated;
  - The value in the **Available** field changes to Yes;
  - Font colour in the row changes to a standard one;
  - Other shortcut menu commands become available for the instrument.

    > **This command is only used for instruments that can be requested from the QUIK server.**

- Clear search results – clear the instrument search table.

> **(*) Operations can be applied to several rows. To select several rows of the table one after another keep SHIFT pressed. To select several rows randomly keep pressing CTRL.**
> **If there are instruments that were not requested from the QUIK server (available instruments) among those selected for the Create quotes table command, the command will not be executed for them.**
> **If there are instruments that were not requested from the QUIK server among those selected for the Obtain command, the command will not be executed for them.**

Description of standard functions of the context menu for tables are given in 2.8.4.

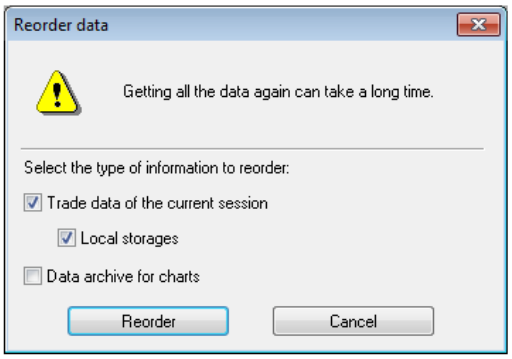
Filters use, quick filter and conditional formatting of tables are described in 2.8.8 — 2.8.10. Full list of control keys for all types of tables is given in 2.14.3.

2.5 Configuring data request

2.5.1 Reorder data

menu **System/ Data request / Reorder data...**

Select the type of information to reorder:



1. **Trade data of the current session** clears the archive of trading data and reorder the data from server.

- **Local storages** clear the archive of local storages and reorder the data from server.

2. **Data archive for charts** clears the archive of charts and reorder the data from server.

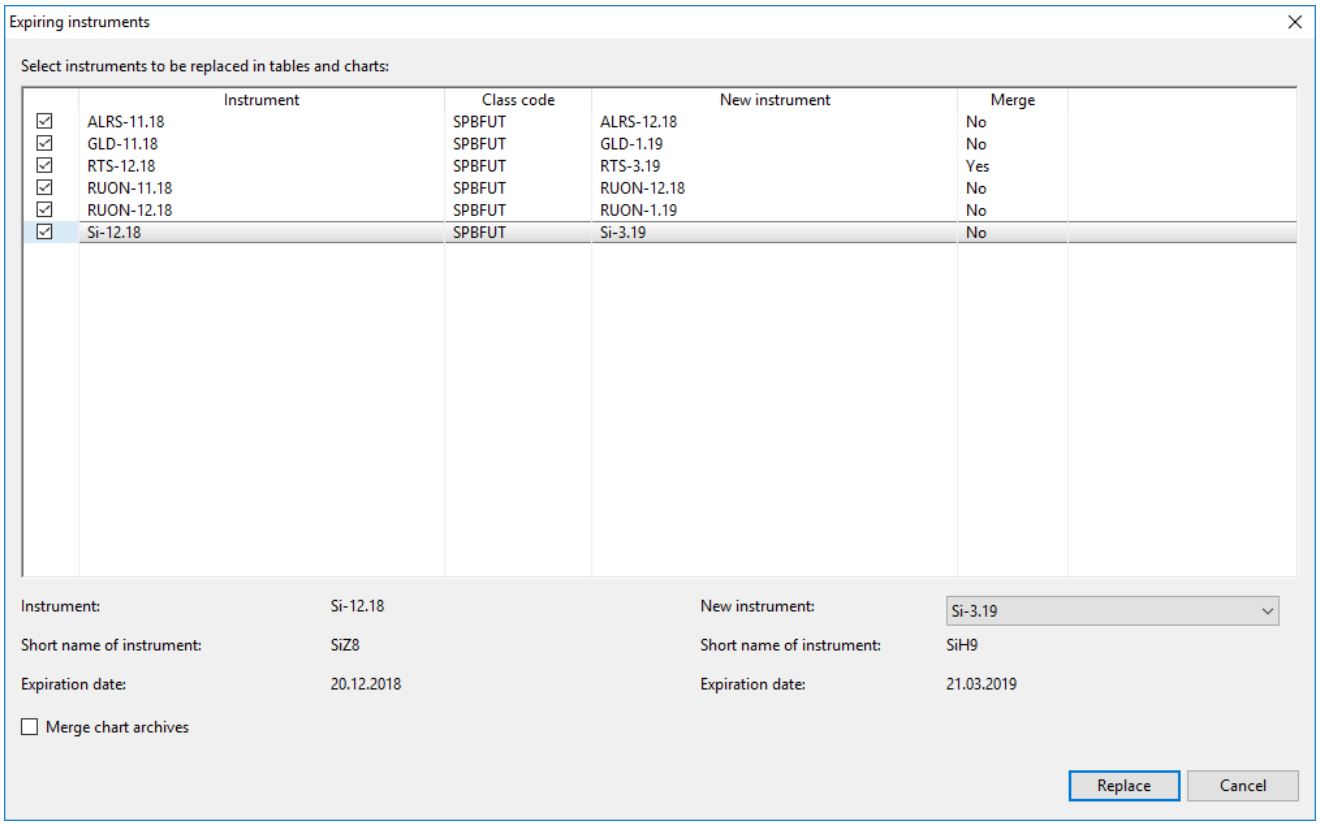
> **IMPORTANT! Up to 65000 candlesticks are stored in the QUIK workstation. When reordering the chart archive from the QUIK server, not more than 3000 candlesticks are loaded, the others which are stored in the QUIK workstation, are deleted.**

2.5.2 Instruments replacement

menu **System/ Data request /Instruments replacement**

Change expiring instruments to instruments with the same parameters (class, underlying asset), but a later redemption date. The instruments with a short maturity period (futures, options) are checked on the number of days specified in the "... days before the expiration date" setting (see 2.10.1). To form messages where users are asked to replace an instrument, it is necessary to enable the **Offer to replace expiring instruments** setting (see 2.10.1).

Instrument check is carried out while the WND settings file is downloading based on open tables, the price and volume charts and the chart by parameter.



Expiring instruments dialog box contains the following parameters:

1. **Select instruments to be replaced in tables and charts** – table contains expiring instruments. The table columns display the following parameters:

Field name	Description
☑	The choice of instruments for replacement in tables and graphs. When you uncheck the checkbox, replacement of instrument is not carried out. By default, the checkbox is enabled
Instrument	Name of the instrument to be replaced
Class code	Class code of the instrument to be replaced
New instrument	The name of the instrument that is selected for replacement
Merge	Attribute of chart archives merging. Possible values: _ Yes – the **Merge chart archives** check box is selected; _ No – the **Merge chart archives** check box is clear

> **The information in the table is updated after establishing connection to the QUIK server.**

2. Information fields that contain data of the expiring instrument selected in the table are displayed on the left part of the dialog box:
   _ Instrument – name of instrument;

- Short name of instrument – short name of instrument;
- Expiration date – expiration date of instrument.

3. Fields that contain data of instrument for replacement are displayed on the right part of the dialog box:

   - New instrument – name of instrument. The list contains a list of instruments where the class and the underlying asset are the same as the instrument to be replaced. The instruments in the list are sorted in ascending order of maturity;
   - Short name of instrument – short name of instrument;
   - Expiration date – expiration date of instrument.

4. **Merge chart archives** check box indicates if charts have to be merged. For details, see 2.5.3.

Change of instruments is carried out by clicking the **Replace** button, and then the old instruments are replaced by new ones in tables and table filters, graphs filters for the Level II Quotes and anonymous trades request (**System/Data request** menu items).

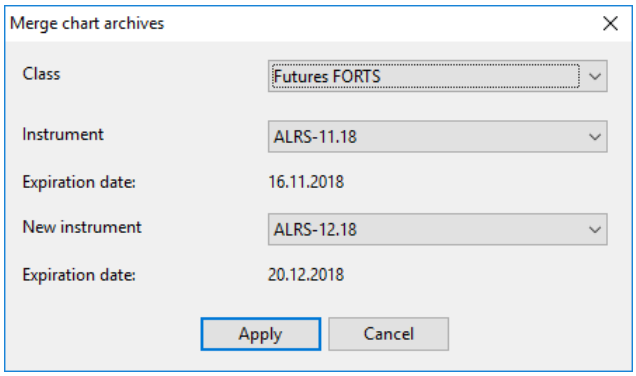
> **The instruments are NOT replaced in the following tables:**
>
> - Client account positions;
> - Options board;
> - Market-maker liabilities by stock and FX markets;
> - Market maker liabilities by stock and FX markets, extended;
> - Market-maker liabilities by derivatives market;
> - Participant's positions in instruments;
> - Participant's positions on trading accounts.

> **If the instrument to be replaced is configured for export to technical analysis systems, ticker of this instrument is not replaced.**

2.5.3 Merge chart archives

menu **System/ Data request /Merge chart archives**

Merging the charts of instruments with short trading period (futures) being replaced automatically. If the instrument to be replaced is in circulation, all candlesticks of the instrument to be replaced except candlesticks of the current trading session are combined with candlesticks of the replacing instrument starting from the current trading session on a merged chart.
If the instrument to be replaced is not in circulation, all candlesticks of the instrument to be replaced are combined on a merged chart with all available candlesticks of the replacing instrument starting from the date following the redemption date of the instrument to be replaced.



The Merge chart archives dialog box contains the following parameters:

1. **Class** – class code to which an instrument being replaced belongs.
2. **Instrument** – name of an instrument being replaced.
3. **Expiration date** – expiration date of an instrument being replaced.
4. **New instrument** – name of a replacing instrument.
5. **Expiration date** – expiration date of a replacing instrument.

To merge the charts, click **Apply**.

2.6 Tabs

menu **Windows / Show tabs...**
menu **Windows / Hide tabs...**

To optimise the QUIK workspace, the tabs feature is used to form groups of windows. Each tab is represented as a label on a special **Tab Bar**. Left-click a tab to make the group of windows related to it visible. The windows related to other tabs become invisible.

> **The user may not include some windows in a group. Those windows will remain visible on any tab.**

For arranging the tabs use the drag-and-drop mode: drag the tab label using the left mouse button.

2.6.1 Available operations

- Press CTRL+G to configure the custom filters for all tables in a tab;
- Press ALT+1 … ALT+9 to switch to a tab with the relevant serial number;
- Left mouse button double-click on the tab label – change the tab's name.

2.6.2 Functions available from the tab's shortcut menu:

Shortcut menu functions are available when clicking the right mouse button on the tab label:

- **Add** – create a new tab. New tab named 'Tab <N>' is added to the end of the list of tabs. 'N' is a sequence number of a tab.
- **Rename** – change the name of the current tab.
- **Remove** – delete the current tab. All windows associated with this tab will be closed. The last tab cannot be deleted.

> **If the 'Ask for confirmation when moving and deleting items using Drag-and-Drop' setting is enabled (see 2.10.5), the user confirmation is required to delete this tab.**

- **Show at top** – tabs panel is located at top or the bottom relative to the program workspace. If the tabs are located at top, then this shortcut menu command is marked by 'v' symbol.
- **Single line** – tabs panel is presented as a single line or several lines if the tabs do not fit in one line. If the tabs are presented as one line, the right and left scroll arrows can be used and this shortcut menu command is marked by 'v' symbol.
- **Lock windows** – fix the window layout and size on the current tab. Cannot be applied to the windows visible on all tabs.
- **Unlock windows** – unfix the window layout and size on the current tab. Cannot be applied to the windows visible on all tabs.
- **Remove title** – disable showing the heading row for all windows on the current tab. Cannot be applied to the windows visible on all tabs.
- **Show title** – enable showing the heading row for all windows on the current tab. Cannot be applied to the windows visible on all tabs.
- **Windows** – the list of windows to display on the current tab in alphabetical order. Once the user selects a value from the list, the window will be activated after a moment.
- **Save tab to file** – save the current tab and its windows to a specified file. The file has the '.TAB' extension and contains the information on one saved tab (including the client code filter set for this tab) and the windows that were located on the tab at the moment of saving the file. The windows visible on all tabs cannot be saved to the file.
- **Load tab from file** – the tab with the windows saved on the file which is loaded will be added to the existing list of tabs. If there is a window or a tab with the same name in the terminal the tab which is loaded from the file will be renamed according to the rules of changing the duplicate names in the terminal (for example, the second 'Tab1' will be renamed to 'Tab1 #2').

2.7 Working with windows

2.7.1 Configure location of windows

menu **Windows**

To optimize the workspace location of windows on the screen may be customizes.

Menu items:

1. **Dock window** (or ALT+L) – fix size and location of the active window.
2. **Remove title** (or ALT+B) – disable displaying of row with title for the active window.
3. **Always on top** (or ALT+T) – locate the active window above all other windows.
4. **Move window to tab** – show the list of tabs. To move the window to a tab select name of the needed tab. Select **Show in all** item to unlink the window from the current tab and allow displaying the window on all tabs.
5. **Hide tabs** (or CTRL+B) – hide all tabs.
6. **Show tabs** (or CTRL+B) – show all tabs.
7. *__Cascade__ – arrange windows in order, one above the other.
8. *__Tile Horizontally__ – arrange windows uniformly horizontally.
9. *__Tile Vertically__ – arrange windows uniformly vertically.
10. **Arrange icons** – arrange minimized icons of windows at the bottom of screen.
11. **Close all** – close all windows.
12. **Windows manager** (or ALT+M) – open Windows manager table (see 2.7.3).

> **(*) The setting does not affect location of windows if checkbox 'Always on top' is selected.**

> **If one of two windows is expanded to full screen when closing this window, the second one will be expanded to full screen automatically.**

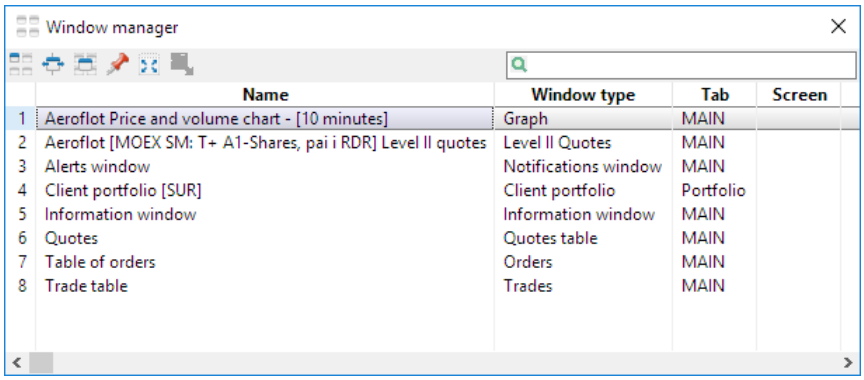
2.7.2 Window manager

menu **Windows / Window manager...**

Purpose

Window manager Table includes the list of all opened windows. The table is displayed always on top of other windows. Functions Dock window and Remove title cannot be applied to the table, icon of the table is displayed on the task bar of OS.

Table format

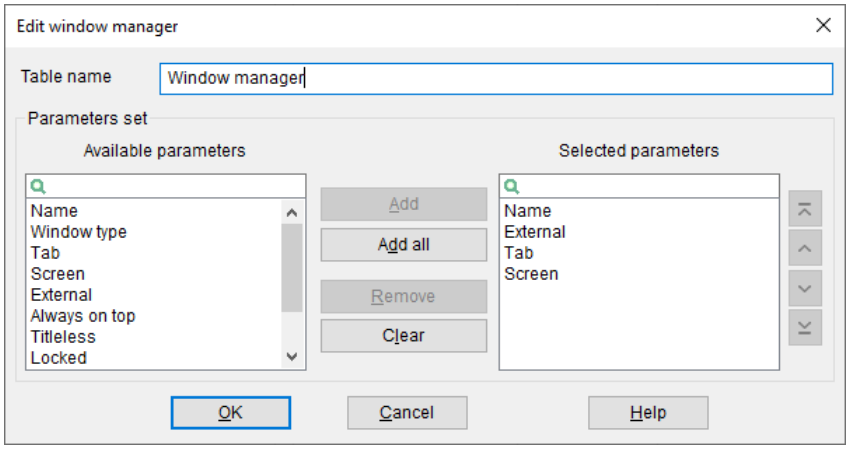


	Name	Window type	Tab	Screen
1	Aeroflot Price and volume chart - [10 minutes]	Graph	MAIN	
2	Aeroflot [MOEX SM: T+ A1-Shares, pai i RDR] Level II quotes	Level II Quotes	MAIN	
3	Alerts window	Notifications window	MAIN	
4	Client portfolio [SUR]	Client portfolio	Portfolio	
5	Information window	Information window	MAIN	
6	Quotes	Quotes table	MAIN	
7	Table of orders	Orders	MAIN	
8	Trade table	Trades	MAIN	

Each row of the table corresponds to the separate opened window. Table's columns display the following parameters:

Field	Description
Name	Name of the window
Window type	Short description of a window type
Screen	Screen number
External	Type of the window. Valid values: _ Yes – the window is dragged out of the working program window; _ <empty> – common window
Tab	Name of the tab
Screen	Number of monitor
Always on top	Attribute of displaying of the window over the other windows (Yes/<empty>)
Titleless	Attribute of displaying of the window without title (Yes/<empty>)
Locked	Attribute of fixation of the window size and position (Yes/<empty>)
Shown on task bar	Attribute of presence of the window icon on the task bar (Yes/<empty>)
DDE export	DDE export status. Valid values: _ Not available; _ Launched; _ Stopped; _ Not configured
ODBC export	ODBC export status. Valid values: _ Not available; _ Launched; _ Stopped; _ Not configured

Table configuration



- Use **Parameter Set** to select parameters for displaying in the table columns and to configure their sequence.

Value of the settings are saved and substituted when you reopen the dialogue.

Available operations

Shortcuts available for this table can be called from the shortcut menu (by pressing the right mouse button on the table) or by pressing the appropriate button on the table's toolbar:

- Use **Activate**, button to activate the window. Use left double clicking on the line with the window title also allows activating this window;
- Use **Change type**, button to drag out the window outside of the working program window;
- Use **Lock window**, button to fix the window size and position;
- Use **Always on top**, button to place the window over the other open windows;
- Use **Remove title**, button to make the window title undisplayable;
- Use **Show on task bar**, button to display icon of the dragged out window on the task bar. The function is available only for dragged out windows. Default value is defined by the setting **Show window icon on task bar** (see 2.10.5).

> 1. **To select several rows of the table one after another keep the Shift key pressed. To select several rows randomly keep pressing the 'Ctrl' key.**
> 2. **When selecting several rows of the table the shortcut menu options are applied only to selected windows for which the function was not applied before.**
> 3. **To cancel the certain function for several rows of the table: if the function was not applied at least to one window from the group of selected windows (the appropriate button on the toolbar is not pressed and this command in the shortcut menu is not selected) first apply the function to the group of selected windows, then cancellation of the function becomes available for the group of windows.**

Description of standard functions of the context menu for tables is given in 2.8.4.
Full list of executing keys for all types of tables see in Appendix.

2.7.3 Dragging out the window

To drag out the window outside of the working program window:

- Drag the window out of the working program window using the mouse while keeping pressed the CTRL key. When dragging, the cursor takes the form of hand;
- Select the shortcut menu item **Change type** in Window manager table for the row with selected window;
- Press button on the toolbar of Window manager table for the selected row.

Displaying of the icon of dragged out window on the task bar is defined by setting **Show window icon on task bar** (see 2.10.5).

1. **When dragging the window out it is removed from tab; when dragging it in, the window is fixed to the current active tab.**
2. **Dragged out window opened for the full size of the monitor can be dragged in using the item Move window to tab of table's system menu or by the function of Window manager.**
3. **If any dialogue window is opened only the screen size and position of the dragged out windows can be changed.**
4. **Linked windows mode is available for dragging out if the Link external windows checkbox is selected in the Windows section (menu item System / Settings / General settings…).**

2.7.4 Windows additional operations

When you click on the icon in the upper left corner of the window, a context menu is available with the functions:

1. Restore – revert the previous size of window.
2. Move – move the window.
3. Size – change the window size.
4. Minimize – hide the window from desktop.
5. Maximize – expand the window to full screen.
6. Close (or Alt+F4) – close the window.
7. Lock window (or Alt+L) – fix the active window size and position.
8. Always on top (or Alt+T) – locate the active window above all other windows.
9. Remove title (or Alt+B) – disable the display of the title bar for the active window.
10. Move to tab – displays a list of tabs. To transfer a window to a tab, select the name of desired tab. Selecting the 'Show in all' item unbinds the window to the current tab, and the window is displayed in all tabs.

2.8 Tables

All data received from the server are shown in **tables**. Instruments or other elements (e.g., number of accounts, number of bids, etc. depending on the type of table) are displayed in the rows and parameters of the listed elements are shown in columns.

All tables can be minimised (reduced to icons), dragged around the desktop using your mouse, viewed by scrolling, and otherwise handled using standard features typical for the Microsoft Windows operating system.

In addition to the standard features, the **Tables** menu (**Windows** menu item) offers the following settings:

- **Lock window.** Fix size and position of the window on the certain monitor and on the certain tab;

- **Always on top**. The table is shown on top of all opened windows regardless of where it is positioned;
- **Remove title.** Line with the window title is not displayed;
- **Move window to tab**. Move a window to a tab, select the specific tab name. Select **Show in all** item to unlink the window from the current tab, thus the window is displayed on all tabs.

In addition to the standard context menu it is column context menu of a table (see 2.8.4).

> 1. **Any table may contain data from different instrument classes whose parameters may differ. Sells associated with a class not containing the selected parameter remain empty.**
> 2. **The user may simultaneously create several tables of the same type for different data sets. Creating several identical tables does not increase the amount of data received from the server.**
> 3. **When choosing System / Data request / Reorder data, all instruments that have been removed from the trading system are deleted from all tables and filters.**

2.8.1 Configuring tables

QUIK offers several table types each of which has unique features. All tables, however, are configured the same way.

1. To create a table, choose the proper table type from the **Action** menu. A configuration window for the selected table type is opened if preliminary configuration is necessary.
2. In the **Table name** textbox, the table's heading is displayed. Usually table's title can be edited. By default, the heading matches the table type.
3. Select the parameters to be displayed in the table's lines and columns, following the rules applicable to operations for specific classes (see 2.1.1). If at least one parameter is selected in the **Selected parameters** list, clicking **Add** adds a parameter from the **Available parameters** list just after the selected parameter in the **Selected parameters** list, otherwise – a parameter will be added at the end of the list.
4. If at least one element is selected in the list of available parameters, the element from this list will be added to the list of selected parameters when you click the 'Add' button. In this case, the element in the list of selected parameters is added to the end of the list. If the element was selected in the list of selected elements, a new element will be added after the selected one. The order of elements in the list of selected parameters can be changed using arrow buttons located on the right – one position up/down or to the top/end of the list, depending on the selected button.
5. In some tables, both the parameters and the values may be filtered. For example, only orders for a specified account or only active orders may be displayed.

2.8.2 Editing a table

To edit an existing table, make it active and then click on the toolbar, press 'CTRL+E', or choose **Edit table** from the shortcut menu.

2.8.3 Operations with filters in a table

1. To set up a filter, click '…' in the table edit dialog box.
2. In the window that opens, create the list of parameters to be used by highlighting them one by one in the list of available parameters and clicking **Add** or by clicking **Add all.** Click **Remove** to eliminate any unnecessary parameters.

> **Press and hold SHIFT to select several consecutive parameters. To select several separate parameters, press and hold CTRL.**

3. To finish setting up the filter, click **OK**.

Filter settings may include additional options:

- If **Include selected to filter** option is selected (default setting), the selected elements are shown in the table;
- If **Exclude selected from filter** option is selected, the selected elements are not shown in the table;
- If **Filter by prefix** checkbox is clear, only elements that exactly match those in the list of the selected values are filtered. If this checkbox is enabled, all elements that start with the specified characters are filtered.

Filter statuses are as follows:

- ☑ indicates that the filter is enabled;
- ☐ indicates that the filter is disabled.

To disable a filter, clear its checkbox ☑ by clicking it or clear the list of selected parameters in the filter setting window.

> 1. **The instrument or parameter lists may change over time (for example, if new instruments are added to the exchange list). If the restricting filter is set according to that list, the data related to the newly added instruments are not displayed. To show the new data, add it manually into the filter or choose System / Settings / General settings… and select the 'Add to all tables' checkbox under Program / Data receiving.**
> 2. **If System / Data request / Reorder data is selected, all instruments that have been removed from the trading system are deleted from all tables and filters.**

2.8.4 Handling tables

In tables (Client portfolio table) the purpose of each column is displayed as a tooltip when hovering the mouse cursor over the column heading.

Context menu of a column

In tables, in addition to the standard context menu, the context menu of the columns of the table is also available (which opens when you hover the mouse cursor over the column heading and press the right mouse button). The context menu of the columns contains a list of basic operations that can be performed with the selected column:

- Sorting the table rows by ascending or descending values in the selected column (for more details see section 2.8.4 Sorting the table rows by values).
- Filtering settings per column (for more details see section 2.8.8).
- Setting quick filter for a table (for more details see section 2.8.9).
- Setting conditional formatting (for more details, see section 2.8.10).
- **Lock column** allows fixing the position of the column in the table. Locked column is always displayed on the left and does not leave the area of visibility when scrolling horizontally. You can lock multiple columns at the same time. When a column is locked in the middle of the table, the entire range of columns from the leftmost column to the selected locked column is locked. The following way to lock a column is also available:

  - Move the cursor to the column heading, which is the first or last one to the right of the previously fixed column, and double-click the right mouse button. Repeated double-clicking on the column heading unlocks the position of the column.

- **Unlock column** allows unlocking the column.
- **Adjust column width** allows changing the column width according to the displayed values in the cells. The following methods for changing column widths are also available:

  - Hover the mouse cursor over the border of the column heading, grab the border (by clicking the right mouse button) and drag the border to the required width.
  - Hover the mouse cursor over the border of the column heading and double-click the right mouse button, then its width will be adjusted to the width of the data.

Also, you can call the context menu from the leftmost column of the table containing operations that can be applied to all columns of the table (or by selecting the corresponding operation from the **Actions / [operation name]** menu item):

- **Sort by default** allows canceling sorting all columns of the active table.
- *__Disable all__ allows disabling all configured filters / conditional formatting according to the columns of the active table.
- *__Enable all__ allows enabling all configured filters / conditional formatting according to the columns of the active table.
- *__Clear all__ allows clearing all configured filters / conditional formatting according to the columns of the active table.

> **(*) The operation for user filters is indicated by an icon in the context menu, and by an icon for conditional formatting.**

- **Adjust columns width** allows changing all columns width according to the displayed values in the cells.

- **Unlock all** allows unlocking all previously locked columns.

Copy to clipboard

The contents of a table may be copied to the Microsoft Windows Clipboard for use in other programs.

To copy a selected cell, use one of the following methods:

- Press CTRL+C or CTRL+Insert on active window.
- Select the menu item **Action/Copy cell to clipboard**.
- Select the context menu item **Copy cell to clipboard** on active window.

To copy a cells range, select them keeping CTRL depressed and using drag-and-drop and copy them by one of the following methods:

- Press CTRL+C or CTRL+Insert on active window.
- Select the menu item **Action/Copy cells to clipboard**.
- Select the context menu item **Copy cells to clipboard** on active window.

To copy all the table content, use one of the following methods:

- Press CTRL+Shift+C or CTRL+Shift+Insert on active window.
- Select the menu item **Action/Copy entire table to clipboard**.
- Select the context menu item **Copy entire table to clipboard** on active window.

Settings of copying to clipboard

To configure copying to the Clipboard, choose **Program / Clipboard** in **Clipboard** under the **Settings / General settings...** menu.

- Select the **Copy row headers** checkbox to copy tables together with their row headers;
- Select the **Copy column headers** checkbox to copy tables together with their column headings;
- Select the **Formal representation of data** checkbox to copy data in the service format: headings appear as identifiers and text variables appear as numeric values. When copying to clipboard, numerical data are displayed without separators; the format of strings depends on the table context.

  - **Formal representation of row and column headers** – when copying headers to clipboard, data has formal representation (service format) depending on the table context (for example, for the Quotes table the names of parameters are replaced by their name in the database). This setting is available if the **Formal representation of data** checkbox is selected.
  - **Copy blank cells instead of zeros** – save cells containing zeros as blank spaces. This setting is available if the **Formal representation of data** checkbox is selected.

> **If the Formal representation of data and Formal representation of row and column headers check boxes are clear, the data is copied to clipboard in format it is displayed in the table.**

Tables are usually copied together with their row and column headings.

Saving to a text file

The contents of a table may be saved as a text file. The file format is specific to each type of table and described as a part of the corresponding table's properties. To save a table, click **Save to file** in the shortcut menu or under the **System** menu**.** CP-1251 (Windows) is used for encoding.

The character ',' (comma) is used by default as the delimiter between parameters. The delimiter may be changed in the program settings by selecting **Use as fields delimiter** under **Save to text file** of the **Program / Data export** submenu under the **System / Settings / General settings...** menu (see 2.10.1).

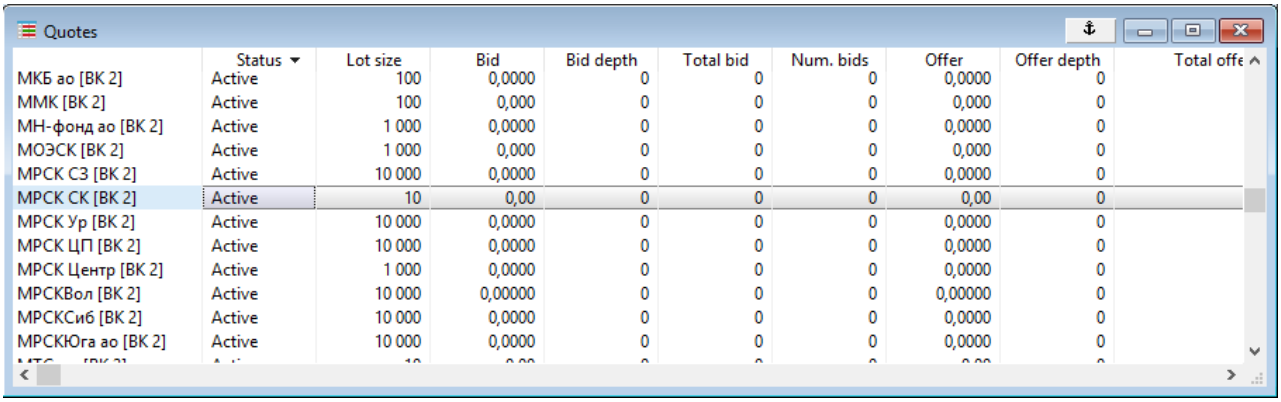
Exporting data to Microsoft Excel and ODBC

In addition to viewing data in the tables, QUIK offers the option for the dynamic export of information received from the server to other Microsoft Windows programs. Two methods of data export are used:

- copying to a Microsoft Excel spreadsheet– select commands **Export to DDE server** from the context menu, under the **Action** menu item or tap ;
- using ODBC (Open DataBase Connectivity), a Microsoft standard of information exchange between different data formats – select command **Export to ODBC** from the context menu, under the **Action** menu item or button on the control panel**.**

For a detailed description of exporting data, see Chapter 6, "Working With Other Programs".

Sorting the table rows by values



Quotes

	Status	Lot size	Bid	Bid depth	Total bid	Num. bids	Offer	Offer depth	Total offe
МКБ ао [ВК 2]	Active	100	0,0000	0	0	0	0,0000	0	
ММК [ВК 2]	Active	100	0,000	0	0	0	0,000	0	
МН-фонд ао [ВК 2]	Active	1 000	0,0000	0	0	0	0,0000	0	
МОЭСК [ВК 2]	Active	1 000	0,000	0	0	0	0,000	0	
МРСК СЗ [ВК 2]	Active	10 000	0,0000	0	0	0	0,0000	0	
МРСК СК [ВК 2]	Active	10	0,00	0	0	0	0,00	0	
МРСК Ур [ВК 2]	Active	10 000	0,0000	0	0	0	0,0000	0	
МРСК ЦП [ВК 2]	Active	10 000	0,0000	0	0	0	0,0000	0	
МРСК Центр [ВК 2]	Active	1 000	0,0000	0	0	0	0,0000	0	
МРСКВол [ВК 2]	Active	10 000	0,00000	0	0	0	0,00000	0	
МРСКСиб [ВК 2]	Active	10 000	0,0000	0	0	0	0,0000	0	
МРСКЮга ао [ВК 2]	Active	10 000	0,0000	0	0	0	0,0000	0	

In some tables, it is possible to sort the rows relative to the values in a specified column. The reference column is marked by a sign indicating the direction in which data is sorted:

- ▲ indicates that rows are arranged in descending order of values from top to bottom;
- ▼ indicates that rows are arranged in ascending order of values.

Sorting is performed using one of the following methods:

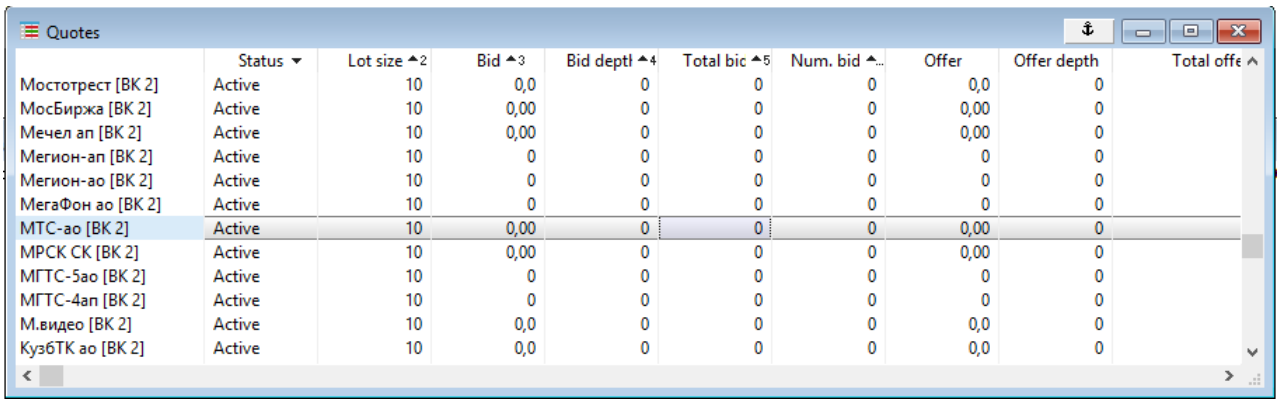
- Select **Sort by** under **Action**, and then select the column heading from the list that appears for which data should be sorted. To reverse the order of sorting, select this column again. To disable sorting, select the default value.
- Select **Sort by [<parameter>]** in the shortcut column menu for a particular column (opened when you hover over the column heading and right-click). The sign in the menu item shows the direction of sorting. To change direction of sorting, select this menu item again. To disable sorting, select **Sort by default** in the shortcut menu or click on the leftmost column heading (blank).

- Left-click on the column heading. Pressing again changes the sort direction. To cancel sorting, perform this operation on the leftmost column header (blank). Selecting another column in the table overrides the sorting settings for the previous column. This method is available if the **Sort by column by holding down Ctrl** checkbox is disabled in the main program settings (menu item System / Settings / General settings ..., section Windows / Tables).

- Press and hold CTRL, and click on the column heading. To reverse the order of the sort, select this column again. To disable sorting, click on the left-most column heading (which should be empty). Selecting another column cancels the sorting order for the previous column. Sorting by holding down the Ctrl key is available if the **Sort by column by holding down Ctrl** checkbox is enabled in the main program settings (menu item System / Settings / General settings ..., section Windows / Tables).

Simultaneous sorting of data by multiple columns is executed as follows:

- Press and hold SHIFT and click on the column heading. The order of sorting depends on the chronological order in which headings are selected. The data in the table is sorted by the values in the first column selected, and then by the second column selected, and so on. The first sorted column is marked with ▼, whereas all additional columns selected for sorting are marked with the icon and the number '2' to '5' indicating the sequence for sorting. For sorting by columns number 6 and up, ▼ with an ellipsis '...' will appear. To reverse the direction of sorting, click on the heading again whilst pressing SHIFT.



To cancel sorting by more than one column, the above operation should be repeated on the left-most column heading (which should be empty) whilst holding CTRL or SHIFT. To cancel sorting by one column click left mouse button on the column heading whilst holding ALT.

By default, columns with numeric values are sorted in descending order whilst those with character strings are sorted in ascending (alphabetical) order.
The sorting mode is activated immediately upon launching the QUIK Workstation or loading once it is saved to the configuration file.

Duplicating a table

This operation involves creating a new table based on an existing one. To create a copy of a table make one of the following actions:

- Select **Make a copy** from shortcut menu of the table;
- Select **Make a copy** item under **Action** menu;
- Pressing CTRL+N.

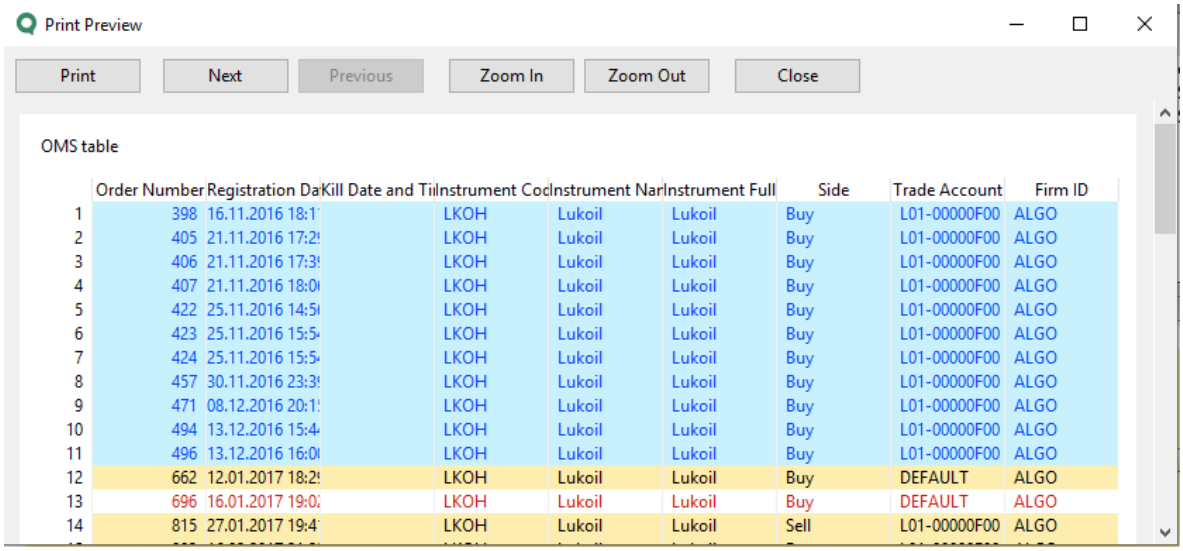
The analogical operation can be applied to a chart window.

This feature is recommended to be used in the following cases:

- When creating a table with the same parameters but using a different set of instruments or accounts;
- When creating a separate table with a filter for a selected parameter (for example, when you want to separate the transactions table into two tables for different accounts);
- When creating a similar table in another tab.

Printing a table

QUIK Workstation allows you to print table data. To call the window of printing table, select **Action / Print...** or press CTRL+P. Each page of the printout contains the table name and the page number.
To view or to edit the printer settings (i.e., default printer, page layout, paper selection, etc.) use button **Preferences** in dialog of printing configuration. Printer settings from the operating system are used by default.
To preview the printout and see the table layout on the page, select **Action / Print preview**.



	Order Number	Registration Da	Kill Date and Ti	Instrument Co	Instrument Na	Instrument Full	Side	Trade Account	Firm ID
1	398	16.11.2016 18:1		LKOH	Lukoil	Lukoil	Buy	L01-00000F00	ALGO
2	405	21.11.2016 17:2		LKOH	Lukoil	Lukoil	Buy	L01-00000F00	ALGO
3	406	21.11.2016 17:3		LKOH	Lukoil	Lukoil	Buy	L01-00000F00	ALGO
4	407	21.11.2016 18:0		LKOH	Lukoil	Lukoil	Buy	L01-00000F00	ALGO
5	422	25.11.2016 14:5		LKOH	Lukoil	Lukoil	Buy	L01-00000F00	ALGO
6	423	25.11.2016 15:5		LKOH	Lukoil	Lukoil	Buy	L01-00000F00	ALGO
7	424	25.11.2016 15:5		LKOH	Lukoil	Lukoil	Buy	L01-00000F00	ALGO
8	457	30.11.2016 23:3		LKOH	Lukoil	Lukoil	Buy	L01-00000F00	ALGO
9	471	08.12.2016 20:1		LKOH	Lukoil	Lukoil	Buy	L01-00000F00	ALGO
10	494	13.12.2016 15:4		LKOH	Lukoil	Lukoil	Buy	L01-00000F00	ALGO
11	496	13.12.2016 16:0		LKOH	Lukoil	Lukoil	Buy	L01-00000F00	ALGO
12	662	12.01.2017 18:2		LKOH	Lukoil	Lukoil	Buy	DEFAULT	ALGO
13	696	16.01.2017 19:0		LKOH	Lukoil	Lukoil	Buy	DEFAULT	ALGO
14	815	27.01.2017 19:4		LKOH	Lukoil	Lukoil	Sell	L01-00000F00	ALGO

The functions of the buttons in the Print Preview window are as follows:

Button	Function
Print	Closes the print preview window and sends the table to print
Next	Shows the next page
Previous	Shows the previous page
Zoom in	Enlarges the current page
Zoom out	Scales down the size of the current page
Close	Closes the window without printing the table

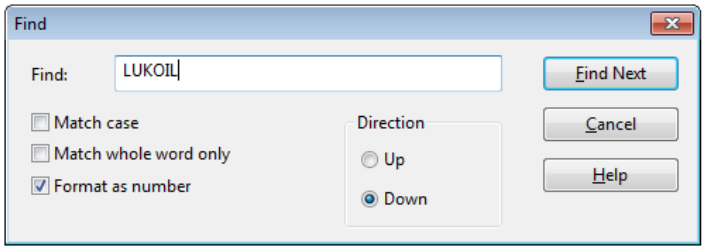
> **If any cells in the table are highlighted in colour, that highlighting will be reproduced in the printout.**

Searching within a table

The function is intended to search for a specific value within table cells, and is available in all QUIK Workstation tables.

> **Search is executed within all content of the table including titles of rows and columns.**

To open the search window, select **Action / Find...** or press CTRL+F.

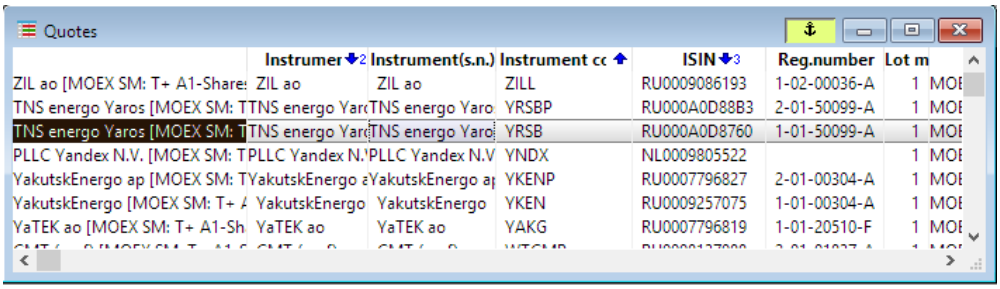


The search parameter functions are as follows:

- Select **Find** to enter the text or numeric characters for which you need to search;
- If the **Match case** checkbox is selected, a case-sensitive search is performed. The checkbox is cleared by default;
- If the **Match whole word only** checkbox is selected, only a complete match of the word is shown in the results. If this checkbox is clear (the default setting), the search may return results which contain the characters you search for, by substring;
- If the **Format as number** checkbox is selected (the default setting), the value you search for is numerical by default. When searching for numeric values '.' (dot) or ',' (comma) are used as a decimal separator. You should select this option if a numerical value such as a 'price', 'volume', or 'quantity' should be found. If this checkbox is clear, the numerical values you

search for are represented as text. If a parameter represented as text such as 'date' or 'time' should be found, you should leave this checkbox empty;

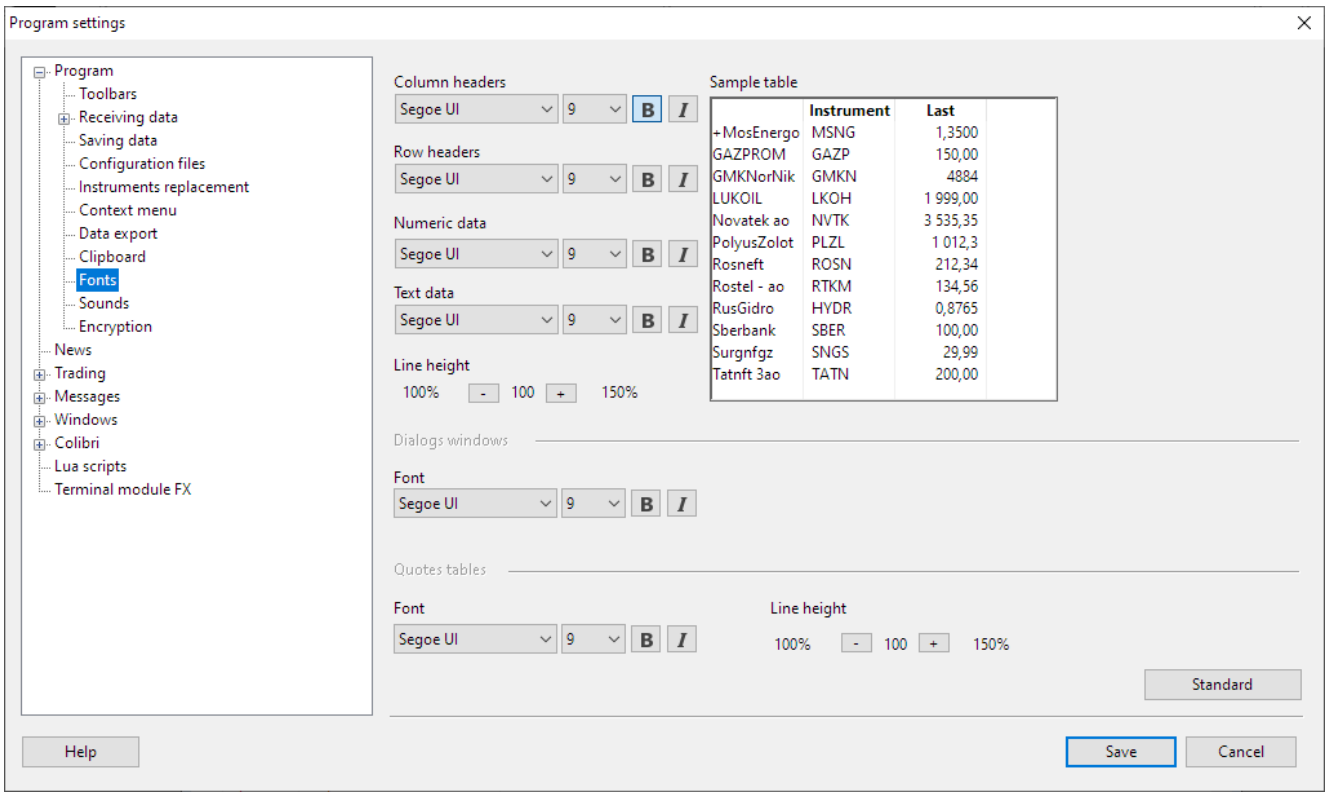
- The **Direction** checkbox is used to specify the search direction:
  - select **Up** to search upward, row by row and from right to left on each row;
  - select **Down** (by default**)** to search downward, row by row and from left to right on each row.



To find the next value within a table that matches the search conditions, select **Action / Find next** or press F3.

Customizing table fonts

To improve the presentation of data, the table settings allow for the use of different fonts.
To customise the font settings, select **Program / Fonts** under **System / Settings / General settings...**.



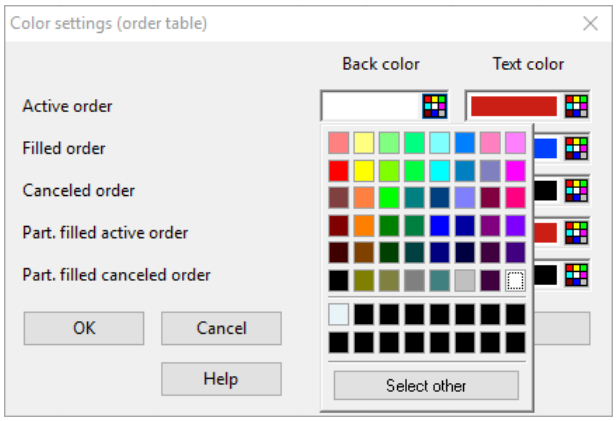
Different fonts can be used for column and row headers, numeric and text data. Select **Line height** to change the line spacing within a table. The selected settings are shown in the **Sample table** window.

The font for dialog boxes and the font and line height for the Level II quotes table are set separately.

To restore the default settings, click **Standard**.

Customizing colors in tables and graphs

Some tables and graphs allow the user to customise image elements – e.g., font and background colours, etc. To select a colour, click on the icon in the dialogue window. A palette of 48 main and 16 adjustable colours will appear. Click on the desired colour from the palette to select a colour.



Adding a new color to the palette:

1. Click on **Select other** in the colour palette.
2. In the opened dialog click on the box to select a cell in 'Additional colors' palette to adjust. By default, the first box will be adjusted if no cell is selected.
3. Select the desired colour by moving the cursor across the range of colours and the scale on the right. The resulting colour is shown in the **Colour | Background** box.
4. If you want to add a pre-set colour using well-known systems, specify the values in the **Hue**, **Saturation** and **Brightness** boxes (for the HSB system) or in the **Red**, **Green** and **Blue** boxes (for the RGB system).
5. Click **Add to palette** to add the specified colour to an 'Additional colors' box.
6. To close the dialogue box, click **OK**. The new colour is added to the palette.

2.8.5 Working with tables in the drag-and-drop mode

Moving windows between tabs

To move a window to a tab, place the cursor on the window title bar and press 'Ctrl'. The cursor then looks like this: . Hold the mouse and press 'Ctrl' and, then, move the window to the desired tab. When this is done, the tab is highlighted with a different colour and the cursor

changes to . Release the mouse. If the cursor appears as , the window cannot be dragged to a tab.

> **This feature does not allow a window to be visible in all tabs.**

Adding instruments to tables

> **For tables consisting of only one column this functional does not work in "drag-and-drop" mode.**

Instruments may be removed from / added to the following tables:

- Buy / Sell table;
- Quotes Table;
- Tables with search results.

> **Instruments may only be removed from / added to a Buy / Sell table if the Select manually option is activated under the table settings.**

Position the cursor on the row with the desired instrument. Holding the mouse down, move the cursor to the desired table. When moving the cursor changes to . If the instrument can be added to the table, the cursor view changed to and a window with the instrument's name appears. Release left button of the mouse, row with the new instrument will be added to the position just above the underlined location in the table. If the cursor appears as , the instrument cannot be added.

> **IMPORTANT! The table does not allow adding the same instrument more than once.**

To add an instrument to a table located on elsewhere, position the cursor (holding the desired instrument) on the desired tab, wait until the required tab is active and add the instrument to the table.

Removing an instrument from a table

> **For tables consisting of only one column this functional does not work in "drag-and-drop" mode.**

Instruments can be removed from the following tables:

- Quotes Table;
- Buy / Sell (if the **Select manually** option is enabled in the table settings).

To remove an instrument, position the cursor over the selected instrument, click and hold the left button of mouse and move the cursor outside the table area and, then, release the mouse. The cursor changes to and a window with the deleted instrument's name appears.
If **Ask for confirmation when moving and deleting items using Drag-and-Drop** is selected in the **Windows / Tables** sections under **System / Settings / General settings...**, the system asks for confirmation before removing an instrument.

Replacing an instrument in a Level II Quotes Table

> **For tables consisting of only one column this functional does not work in "drag-and-drop" mode.**

To replace an instrument in a Level II Quotes Table, select the desired instrument from the following tables:

- Quotes Table;
- Buy / Sell;
- Tables of search results.

Position the cursor over the selected instrument, click and hold left button of the mouse and move the cursor to the selected instrument to the Level II Quotes Table and, then, release the mouse.
The cursor changes to and a window with the replaced instrument's name appears.
The window heading in the Level II Quotes Table changes to 'Brief name of instrument [class], Quote No'.
If **Ask for confirmation when moving and deleting items using Drag-and-Drop** is selected in the **Windows / Tables** sections under **System / Settings / General settings...**, the system asks for confirmation before replacing an instrument.
To replace an instrument in a Level II Quotes Table located in the tab, position the cursor on the tab, wait until the desired tab is active and move the selected instrument to the Level II Quotes Table.

Changing the column order and removing them from a table

> **For tables consisting of only one column this functional does not work in "drag-and-drop" mode.**

This feature is available if **Move and delete columns using Drag-and-Drop** is enabled in the **Windows / Tables** sections under **System / Settings / General settings...**.
To change the column arrangement, position the cursor on the column heading, click and hold the mouse and move the cursor with the selected column to the desired location in the column heading area in the table.

The cursor changes to and a window with the highlighted column's title appears. Release the mouse – the column will be added above the underlined position in the table.

To remove a column, position the cursor on the column heading, click and hold the mouse and move the cursor outside the table area. The cursor changes to and a window with the deleted instrument's name appears. Release the mouse.
If **Ask for confirmation when moving and deleting items using Drag-and-Drop** is selected in the **Windows / Tables** sections under **System / Settings / General settings**, the system asks for confirmation before deleting an instrument.

> **While attempting to delete the table column containing values, which are used in the filters of other columns, using Drag-and-Drop the user is prompted for confirmation. If the user confirms, the column is deleted and the corresponding filter is cleared. If the column is deleted while editing table, then the corresponding filter is cleared without warning.**

Changing the row order
This feature is available in the following tables:

- Quotes Table;
- Buy / Sell (when the **Select manually** option is enabled in the table settings).

> **The row order in the Buy / Sell table may only be changed if the 'Select manually' option is enabled in the table settings.**

Position the cursor on the row, click and hold the mouse and move the cursor to the desired area. The cursor changes to and a window with the moved instrument's name appears. Release the mouse, and the row will be moved to the specified location in the table.

> **This feature is not available if the sorting function for any column is enabled.**

2.8.6 Linked-windows mode

The linked-windows mode facilitates working with tables that display the progress of trading. Several windows can be linked to a main table. Once a row in a main table is selected, the data is filtered in all linked windows. For example, if the row that corresponds to MosEnergo stocks is selected in the Quotes Table, the Level II Quotes Table shows the queue for the best orders of these stocks, the Time and Sales table shows only the trades on MosEnergo stocks, and a chart for this instrument is shown.
For dragged out windows the linked-windows mode is available if the **Link external windows** checkbox is selected in the **Windows** section under **System / Settings / General settings...** (see sub-section Windows2.10.5).

Below is a list of tables which can be main or linked to main tables:

Main table	Filters	Linked table
Quotes table	Filter of instruments	_ Level II Quotes Table (order queues); _ NDM Level II Quotes table; _ Time and Sales Table; _ Chart; _ Options board - if the instrument is an underlying asset; _ Trades Table; _ Orders Table; _ Stop orders Table; _ Instrument information; _ Negdeal orders; _ Table of trades for execution; _ Algo orders table
Order Table	Filter by order number	Trades Table
Account state Table	_ Instruments filter; _ Firm filter; _ Clients filter; _ DEPO accounts filter	_ Level II Quotes Table (order queues); _ Time and Sales Table; _ Chart; _ Trades Table; _ Orders Table; _ Stop orders Table; _ Instrument information
Client portfolio Table	_ Firm filter; _ Clients filter; _ Accounts filter; _ Currency; _ Position code	_ Table of positions in instruments; _ Cash positions table; _ Summary positions table; _ Buy/Sell table; _ Trades Table; _ ***Orders Table; _ Stop orders Table; _ Client account positions; _ Client account limits
Trading accounts Table	DEPO accounts filter	_ Orders Table; _ Trades Table; _ Stop orders Table; _ Negdeal orders; _ Table of trades for execution; _ Table of reports on trades for execution

Main table	Filters	Linked table
Participants information	Firm filter	_ Orders Table; _ Trades Table; _ Stop orders Table; _ Negdeal orders; _ Table of trades for execution; _ Table of reports on trades for execution
Negdeal orders	Order number filter	Table of trades for execution
Table of reports on trades for execution	Filter by report order number	Table of trades for execution
*Table of algo orders	Order number filter	_ *Linked orders table; _ *Linked Negotiated Deal Orders table; _ *Linked trades table
**OMS table	Order number filter	_ **Linked orders table; _ **Linked algo orders table; _ **Linked trades table; _ Chart; _ Level II Quotes Table; _ Time and Sales Table

* – For a description of the table, see the User's Manual of Algorithmic trading module.

** – For a description of the table, see the User's Manual of OMS Manager module.

*** – For clients with the unified cash position in the linked Orders table the orders are displayed, in which the client code coincides with the client code from the selected row in the Client portfolio table or trading account coincides with the derivatives trading account from the selected row in the Client portfolio table.

To activate the linked-windows mode for a main table, use one of the following methods:

- Click the icon in the main table title bar.
- Select the Open channel option on the shortcut menu of the main table.

Maximum number of open channels is 300.

Each open channel is assigned with a colour in which the button is painted.
After that, the button, using which windows can be linked to a main table, appears on the windows that are available for linking to this main table. The **Connect to channel** shortcut menu option can also be used to link a window.

If the linked-windows mode is activated for more than one main window, then clicking or selecting the **Connect to channel** shortcut menu option shows the list of channels available for linking.
Upon linking, changes to painted in a colour of the channel to which this table is attached.

> 1. **The number of unique colours to be used for channels is 48. The colours are re-used.**
> 2. **When loading the configuration file (*.wnd), unused colours of channels in the existing configuration are consistently assigned to the channels being loaded.**

To disconnect from a channel, click the button or select **the Connect to channel / Disconnect from channel** shortcut menu option in the linked table.

> **When disconnecting a table from a channel, the filters are not unchecked automatically.**

To deactivate the linked-windows mode for a main table, use one of the following methods:

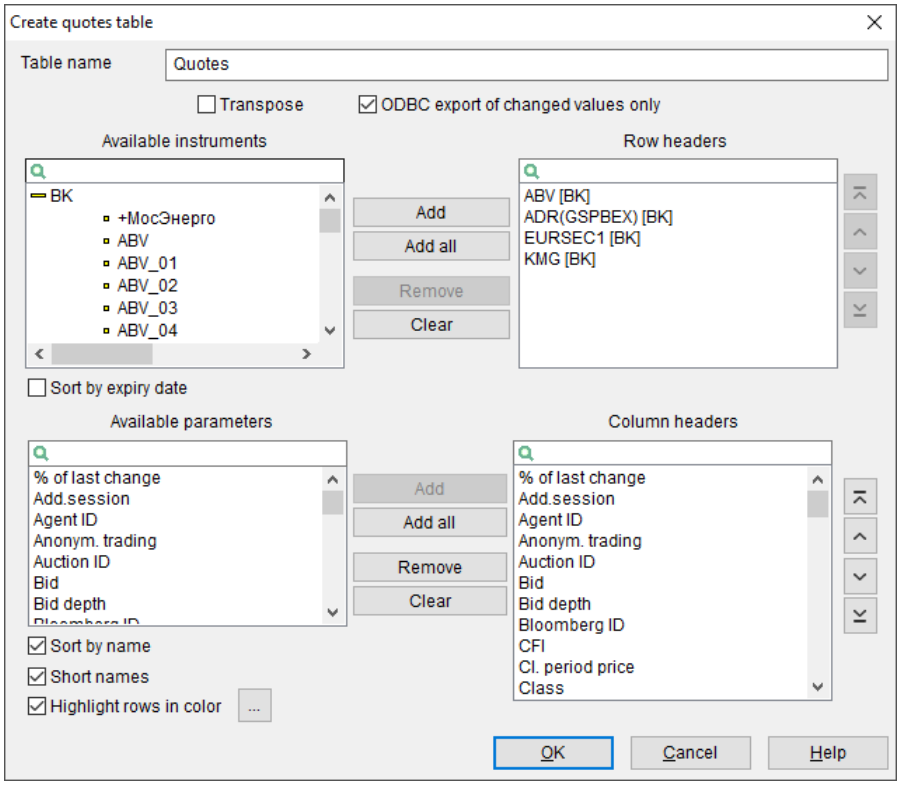
- Click again the icon in the main table title bar.
- Select the **Close channel** option on the shortcut menu of the main table.

After that, all tables attached to this channel are detached.

> 1. **Windows located on different tabs cannot be linked.**
> 2. **If a main window is moved to another tab, that channel remains open, but linked windows are detached from this channel.**
> 3. **If a linked window is moved to another tab, that window detaches from the channel.**

2.8.7 Using the contextual filter

Use the search bar in the table settings dialogue box to filter using the lists of available items in relation to the characters entered by the user.



To find an item from the list, type the first few characters (irrespective of case). The number of matches and the total number of hits are shown in the section to the right of the search bar. The drop-down list doesn't show the number of matches. To delete the text in the search bar, click ✕.

2.8.8 User defined filters

The user may configure a filter for each table column for all tables except the following ones:

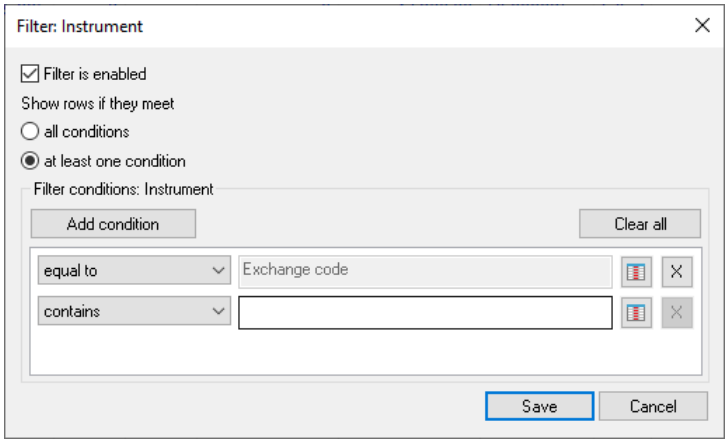
- Level II Quotes Table;
- News Window;
- Transactions Pocket;
- Quotes History Table;
- Quote Changes Table.

Filters are controlled from the context menu of a table column, which is called up when you hover over the column heading and click on the right mouse button. The context menu contains the following operations for working with filters:

- **Filter by [parameter]** — set the filter by column;
- **Disable filter** — disable the filter by column. When this operation is selected, the filter is disabled, but the configured filter parameters are saved;

- **Remove filter** — disable the filter by column while clearing the configured filter settings.

To enable a filter, select the **Filter by [parameter]** context menu item of column heading. Click it to open a form to configure the filter.



The name of the selected column for which a filter is configured is specified in the heading area.

The dialog box contains the following parameters:

1. **Filter is enabled** check box – if selected, the filter is used. If not selected, the filter is not used, and other parameters are not available.
2. **Show rows if they meet**:
   - **all conditions** – the table contains rows that meet all the filter conditions;
   - **at least one condition** – the table contains rows that meet at least one condition.
3. **Filter conditions**: <name of the column for which the filter is set>:
   - For numeric values, the following conditions are set:
     - equal to;
     - not equal to;
     - less than;
     - less than or equal to;
     - greater than;
     - greater than or equal to;
     - specified;
     - not specified.
   - For string values, the following conditions are set:
     - equal to;
     - not equal to;
     - begins with;
     - does not begin with;
     - ends with;
     - does not end with;
     - contains;
     - does not contain;

- specified;
- not specified.

Clicking the button the user can select any table column except the one the filter is set for, or specify the value manually (selected by default). If the filter is set for the column with a date, other columns with a date (if any) and the following values can be selected:

- Today – current date on the user's computer;
- Trading session date – current date of the trading session. If computers with a QUIK server and a QUIK workstation are set for different time zones, the date can be different from the one on the user's computer.

> **Do NOT specify the ? and * characters as conditions to ensure correct operation of the filters.**

- To delete a condition value, click the button next to it.

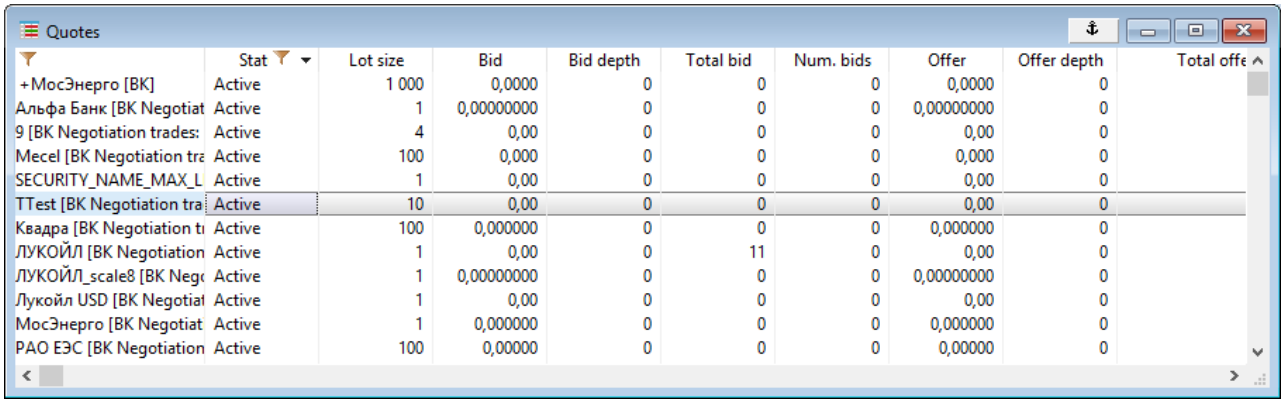
4. The **Add condition** button is used to add a filter condition.

To delete all conditions, click **Clear all**. To use the filter with the specified conditions for a column, click **Save**.

Once the filter is configured, the icon in the column title changes to:

- – if the filter is enabled;
- – if the filter is disabled.

If the user's filter is configured at least for one column of the table, title of the leftmost column of the table displays icon (or if the filter is disabled for all columns of the table).



Quotes

	Stat	Lot size	Bid	Bid depth	Total bid	Num. bids	Offer	Offer depth	Total offe
+МосЭнерго [BK]	Active	1 000	0,0000	0	0	0	0,0000	0	
Альфа Банк [BK Negotiat	Active	1	0,00000000	0	0	0	0,00000000	0	
9 [BK Negotiation trades:	Active	4	0,00	0	0	0	0,00	0	
Mecel [BK Negotiation tra	Active	100	0,000	0	0	0	0,000	0	
SECURITY_NAME_MAX_L	Active	1	0,00	0	0	0	0,00	0	
TTest [BK Negotiation tra	Active	10	0,00	0	0	0	0,00	0	
Квадра [BK Negotiation tı	Active	100	0,000000	0	0	0	0,000000	0	
ЛУКОЙЛ [BK Negotiation	Active	1	0,00	0	11	0	0,00	0	
ЛУКОЙЛ_scale8 [BK Nego	Active	1	0,00000000	0	0	0	0,00000000	0	
Лукойл USD [BK Negotiat	Active	1	0,00	0	0	0	0,00	0	
МосЭнерго [BK Negotiat	Active	1	0,000000	0	0	0	0,000000	0	
РАО ЕЭС [BK Negotiation	Active	100	0,00000	0	0	0	0,00000	0	

If you need to turn off the filter and clear all filter settings for the selected column, then you need to select the **Remove filter** context menu item of column heading.
To disable, enable or clear the filter settings for all columns of a selected table, open the context menu from the heading of the leftmost column or open the **Action / Filters** menu and select the desired options or use the hotkeys:

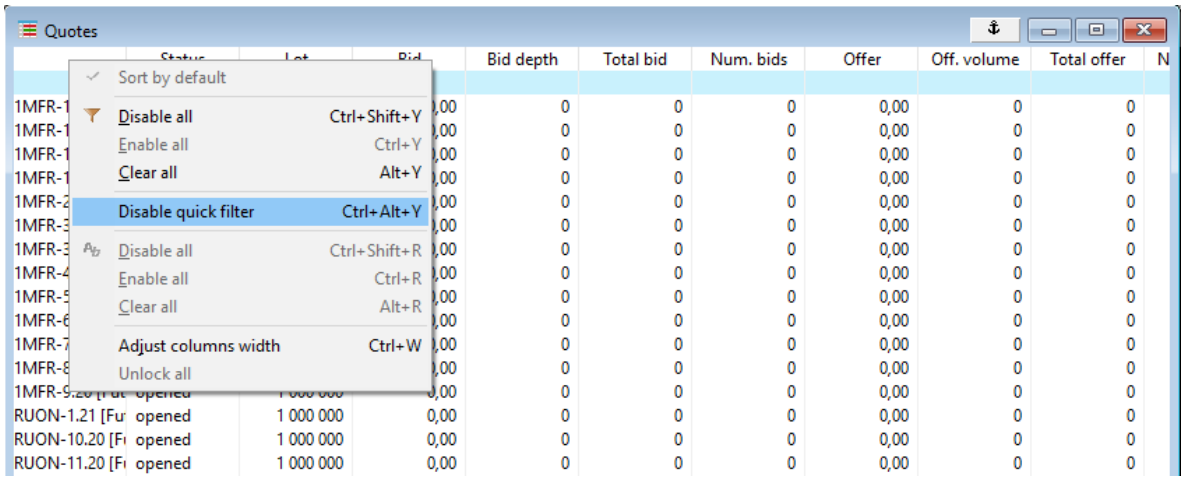
- 'Disable all' (CTRL+SHIFT+Y);
- 'Enable all' (CTRL+Y);

- ‘Clear all’ (ALT+Y).

The filter settings are taken into account when copying a table to the clipboard. The filter settings are saved in the settings file and may be loaded from it.

2.8.9 Quick filter

To enable / disable the quick filter, use the **Enable quick filter** \ **Disable quick filter** shortcut menu item that opens for the header of the leftmost column of the table. The hotkeys Ctrl + Alt + Y are also available.



When quick filter mode is enabled, an additional fixed row is activated to enter the filter value in the cell of the corresponding column. Indication of comparison conditions is available in the fields of dates and time and in the numeric input fields of the quick filter: “=”, “>”, “<”, “> =”, “<=”, “! =”. By default, the string contains the condition “contains”, for numbers, dates and time — “=”. Press “x” to quickly clear the data in the field.

The “quick” filtering conditions are applied to the results of the already specified filtering by columns, the table displays the rows that correspond to the conditions in all the filters specified for the table.

2.8.10 Conditionally formatting tables

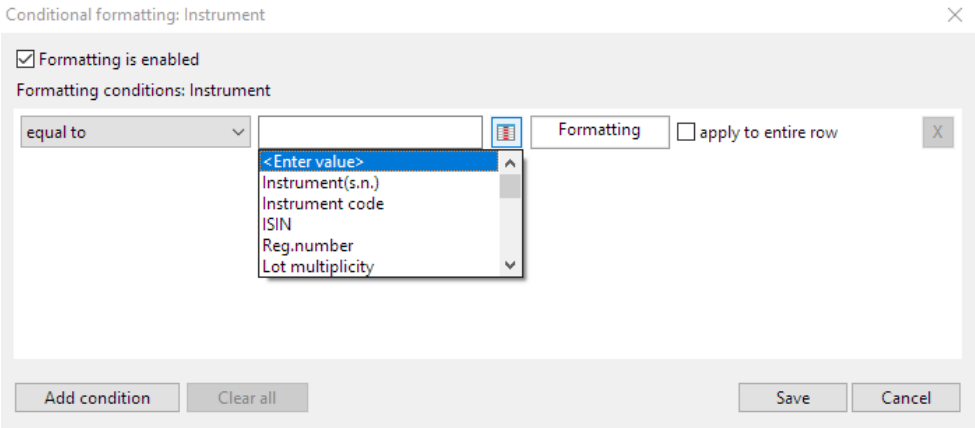
The user may configure a filter for each table column for all tables <u>except</u> the following ones:

- Level II Quotes Table;
- News Window;
- Transactions Pocket;
- Quotes History Table;
- Quote Changes Table.

Formatting is controlled from the context menu of a table column, which is called up when you hover over the column heading and click on the right mouse button. The context menu contains the following operations for working with formatting:

- **Formatting by [parameter]** — set the formatting by column;
- **Disable formatting** — disable the formatting by column. When this operation is selected, the formatting is disabled, but the configured formatting parameters are saved;
- **Remove formatting** — disable the formatting by column while clearing the configured formatting settings.

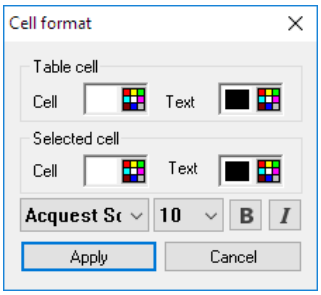
To adjust the formatting of rows and cells, select the **Formatting by [parameter]** context menu item of column heading. Click it to open the dialog box for formatting rows and cells.



The dialog box contains the following parameters:

1. **Formatting is enabled** check box – if selected, the formatting is used. If not selected, the formatting is not used, and other parameters are not available.
2. **Formatting conditions** – the conditions are the same as described in 2.8.8. The following parameters are additionally available:

   - The **Formatting** button is used to set the text font color in a cell. Click the button and select colors and font.



   - Selected font and color are shown on the **Formatting** button.
   - The **apply to entire row** check box is used to apply the cell settings to a row containing it.

> 1. **If the Apply to entire row option is enabled for more than one column, and more than one cell on the same row meet the conditions:**
> - if the formatting settings are the same, the row is formatted according to the settings specified for the right-most column. For example, if the conditions set for two columns include a background colour and the Apply to entire row option is enabled, the row will have the colour from the right-most column;

- all of the rules specified for the columns will be applied to the row if different formatting rules are set for different columns. For example, if the conditions set for two columns include a background colour for one column and a font colour for the other one, the row has the background colour set for the first column and the font colour set for the second one;

2. **The formatting rules set for a column have always higher priority relative to the similar settings set for another column with the 'Apply to entire row' option checked. For example, if only the background colour set for one column and for another column there are the background colour, the font colour and the 'Apply to entire row' option, the first column will be shown with the font colour indicated for the column to which the 'Apply to entire row' option is enabled, and the background colour for the first column will be displayed as indicated under its settings.**
3. **The colour settings for a formatted table (defined in the table editing dialogue box) only apply to rows and columns for which similar conditional formatting options are not set. For example, if the Quotes Table settings include the striped shading for a table and some column formatting conditions apply a background colour, some cells will show the colour set in the formatting conditions, and not the colour set in the table editing dialogue box (striped shading).**
4. **If more than one formatting condition is set and met for a column, the settings will apply as follows:**
   - Settings for a row are taken from the last of all conditions met for which the Apply to entire row option is selected;
   - Settings for a column are taken from the last of all conditions met for which the Apply to entire row option is not selected. If such conditions are not enabled, settings for a column will be taken from the last of all conditions enabled for that column.

To delete a condition value, click the X button next to it.

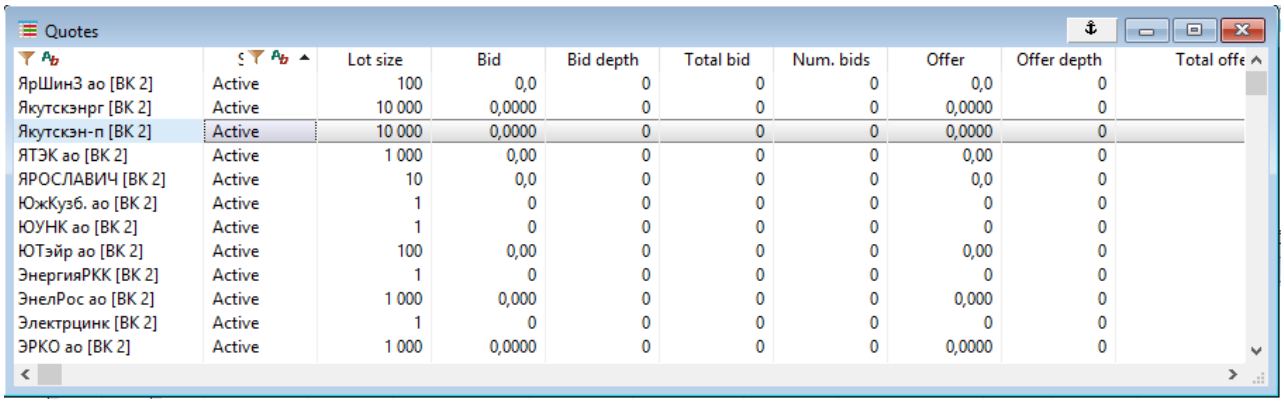
3. The **Add condition** button is used to add a format condition.

To delete all conditions, click **Clear all**. To use the filter with the specified conditions for a column, click **Save**.

If conditions are set, the icon in the column title changes to:

- – if formatting is enabled;
- – if formatting is disabled.

If the conditional formatting is configured at least for one column of the table, title of the leftmost column of the table displays icon (or if the conditional formatting is disabled for all columns of the table).



Quotes

		Lot size	Bid	Bid depth	Total bid	Num. bids	Offer	Offer depth	Total offe
ЯрШинЗ ао [ВК 2]	Active	100	0,0	0	0	0	0,0	0	
Якутскэнрг [ВК 2]	Active	10 000	0,0000	0	0	0	0,0000	0	
Якутскэн-п [ВК 2]	Active	10 000	0,0000	0	0	0	0,0000	0	
ЯТЭК ао [ВК 2]	Active	1 000	0,00	0	0	0	0,00	0	
ЯРОСЛАВИЧ [ВК 2]	Active	10	0,0	0	0	0	0,0	0	
ЮжКузб. ао [ВК 2]	Active	1	0	0	0	0	0	0	
ЮУНК ао [ВК 2]	Active	1	0	0	0	0	0	0	
ЮТэйр ао [ВК 2]	Active	100	0,00	0	0	0	0,00	0	
ЭнергияРКК [ВК 2]	Active	1	0	0	0	0	0	0	
ЭнелРос ао [ВК 2]	Active	1 000	0,000	0	0	0	0,000	0	
Электрцинк [ВК 2]	Active	1	0	0	0	0	0	0	
ЭРКО ао [ВК 2]	Active	1 000	0,0000	0	0	0	0,0000	0	

If you need to turn off the formatting and clear all formatting settings for the selected column, then you need to select the **Remove formatting** context menu item of column heading.
To turn on, turn off or remove the settings of conditional formatting for all columns in a selected table, open the context menu from the heading of the leftmost column or open menu item under **Action / Formatting** and select needed option or use the relevant hotkeys:

- 'Disable all' (CTRL+SHIFT+R);
- 'Enable all' (CTRL+R);
- 'Clear all' (ALT+R).

Settings for conditional formatting are saved to the settings file and may be loaded from it.

2.9 System messages

2.9.1 Messages window

button

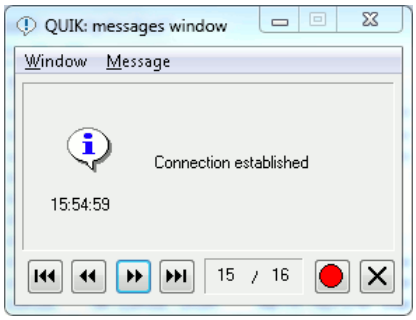
The message window is used to display QUIK runtime information, error messages, as well as trading system alerts and administrator notifications.
Messages window displays only the messages received during the current session.
When receiving a new message, the window appears automatically. To open it manually, click or icon (of message window) on the toolbar or by left-clicking the message in table of messages.
Options for copying the highlighted message text are available on the shortcut menu (to open it, right-click the message in the table):

1. **Copy** or CTRL+C – copy the message text to clipboard. The option is available only for selected text.
2. **Select all** or CTRL+A – select the message text for copying.

Links from the message text are opened in Internet browser set by default. To follow the link click left mouse button on the link text.

Viewing a message list

The message window may contain more than one message. By default, only the last message received is displayed. '**NN/MM**' in the information box located under the message text indicates the current message number (**NN**) and the total number of messages received (**MM)**.



1. To view other messages, use the following buttons:

   - Click ⏮ to jump to the first message;
   - Click ◀◀ to move to the previous message;
   - Click ▶▶ to move to the next message;
   - Click ⏭ to jump to the last message.

2. To clear the message list, click ●.

> **The message storage and all opened tables with messages are cleared when cleaning up the list of messages.**

3. To close the message window, click ☒ or press Esc.

Customizing the message window

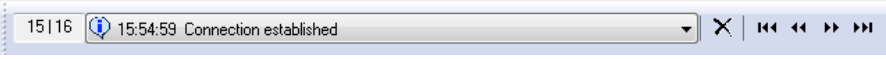
To configure the message window, select **Messages** under **System / Settings / General settings...**:

- **Upon receiving show in table**:
  - **Marked as urgent** – message window appears upon receipt of an urgent message (containing ⚠ in the Urgency field).
  - **Transaction errors** – message window appears upon receipt of a transaction response with the error.
  - **Common** – message window appears upon receipt of any new message except for urgent and transaction errors.

  To receive messages of all types, select all the checkboxes.
- **Expand message window for large messages** resizes the window so that the entire text of a new message is visible;
- **Delete messages at startup** – the list of messages gets cleared at the Program run;
- **Keep for ... days** – save the list of messages for the selected number of days.

Locating the message box on the toolbar

The message window can be compactly placed on the toolbar.



To view the list of all previous messages of the current session, click on the box.

Message box settings

1. Click **Program / Toolbars** under **System / Settings / General settings...**.
2. Click the **Messages** checkbox.
3. Click **Save**. A message box will appear on the toolbar. Situate it on the screen so that the entire message is visible.

> **Showing the window upon receipt of a new message may be disabled (for details, see Customizing the message window).**

2.10 Configuring the QUIK Workstation

To open the dialog of QUIK Workstation configuration, select **System / Settings / General settings...** or press F9.

2.10.1 Program

1. **Application start and exit**

- **Show logo** – enables / disables showing of the QUIK logo upon program launch.
- **Establish connection** – enables / disables opening of the dialogue box to establish a connection to the server upon program launch.
- **Check for updates** – to automatically (upon establishing a connection) check whether a new version of the program is available from the server. If a new version is found, the program offers to download the files and update the program to the current version. If there is no need to check for an available update, de-select this option.
- **Display confirmation before exiting application** – to ask the user to confirm before shutting down the program.

2. **Data display**

- **Complete option codes** – to display the full option codes in the headings of the Level II Quotes Table. If this option is disabled, the abbreviation for an option is used; if enabled, the option name is formulated as follows:

  option name = underlying_asset's_short_name + maturity_date + option_type_(p for put, c for call) + strike

  This setting is useful for distinguishing between futures-style and non-futures-style options. Disable this option if you wish to distinguish between options using abbreviations.

- **Data in local time zone** – to show date and time of the exchange data in the tables, time in the transaction input fields and in the system messages table depending on the time zone of a computer on which a QUIK Workstation is launched. The setting is applicable to the following tables:
  - Table of orders;
  - Trades table;
  - Table of stop orders;
  - Time and Sales table;
  - Trades for execution;
  - Negotiated deal orders;
  - Reports on trades for execution;
  - Alerts window;
  - Transactions Table;
  - Quotes table;
  - Quotes Changes Table;
  - Quotes History table;
  - Trader messages window;
  - Market-maker liabilities for derivatives market;
  - Table of algorithmic orders (see the description in Algorithmic orders User's Manual, section 2);
  - OMS order table (see the description in OMS Manager Module User's Manual, section 2).
- **Hide username in application title** enables displaying of the user name in the program title. If the checkbox is enabled the program title contains only the User's UID in square brackets. By default, the checkbox is disabled.

3. **Controls** offers the following options:

- **Status Bar** shows / hides the status bar at the bottom of the screen.
- **Scroll Bars** hides / shows the scroll bars in the program's workspace if the windows extend beyond the visible area on the screen.

4. **Interface theme** allows to select the color theme of the interface:

- **Standard theme**;
- **Dark theme**.

Changes take effect after restarting the program.

5. **Reset custom color settings** button is used to change color of text, background and graphic elements of the opened tables and charts to the appropriate color settings of the currently set theme.

Toolbars

1. Select the toolbars to be displayed from the list under **Toolbars**.
2. **Large icons** – to increase the size of the buttons that appear on the Toolbar.

> **Toolbars may be selected for display through a shortcut menu available from the control panel.**

Receiving data

Data receipt can be configured under **Program / Data receiving**. The configuration process is described in 1.9.1 of Section 1: Before Starting).

Saving data

To configure the saving of data, select **Program / Data storing**. The configuration process is described in 1.9.1 of Section 1: Before Starting.

Configuration files

The process of saving / restoring the configuration settings is described in 2.12.

Instruments replacement

1. **Offer to replace expiring instruments** – when the checkbox is enabled there is message on the screen "<number> instruments will expire soon. Do you want to replace them?" When selecting "Yes", the screen displays the dialog of instruments replacement, see sub-section 2.5.4. The message is displayed if there are instruments that will expire. By default, the checkbox is enabled.
2. **... days before the expiration date** – how far before redemption (in days) to check for instruments to be replaced and begin prompting to replace expiring instruments.

   - To replace an instrument at the last day of circulation, specify "0".

   The instruments are checked:

   - when connecting to the QUIK server;
   - when opening the Expiring instruments window (**System / Data request / Instruments replacement** menu) – if the connection to the QUIK server is established.

Shortcut menu

1. **Show inactive items** – to launch a pop-up shortcut menu for all operations available in the current window. Currently unavailable inactive items are highlighted in grey. If this option is disabled, the pop-up shortcut menu only shows available operations.
2. **Right-click** – to allow the user defining functions available through right-clicking:

   - **Kill order** cancels orders in the Orders Table, the Stop Orders Table or the OTC Orders Table through a right double click of the mouse;
   - **Context menu** activates the shortcut menu by right-clicking the mouse;
   - **Order cancellation and context menu** activates the shortcut menu through a single click or cancels an order in the Orders Table, the Stop Orders Table or the OTC Orders Table by right double clicking the mouse.

Data export

To configure the parameters for exporting data to text files, select **Save to text file** under **Program / Data Export**:

1. **Copy firm name instead of ID** – substitute the counterpart firm's name with its abbreviation when saving values from Orders, Trades and Negotiated Deals tables to a text file.
2. **Use as fields delimiter** – specify the character for the separation of values in a text file. By default, a ‘,’ (comma) is used. This setting assumes that it is possible to use a character.

Configure the DDE export parameters in **DDE Export** group box under **Program / Data Export**:

1. Time during which data receipt confirmation is pending:

   - if the whole table is exported, sec (1-3600) sets a waiting period for the initial data transfer, where the recommended value is 60;
   - if the next row is exported (1-600) sets a waiting period for updating data, where the recommended value is 30.
2. Number of attempts to resume if export fails sets the number of permitted attempts to restore the connection when a transmission fails. The default value is 0.
3. New thread for each DDE server enables multithread data export to different DDE servers. The default setting is OFF.
4. MS Excel supports localised versions of Microsoft Excel for different languages. Possible values:

   - English (by default);
   - Russian;
   - German;
   - French;
   - Polish.

Settings 1-3 are used to configure the handling of timeouts if the DDE server is busy.

> **To avoid interruptions in the transfer of data caused by a busy DDE server, the second parameter may be increased to 40 seconds (e.g., when configuring formulas in a Microsoft Excel spreadsheet).**

Clipboard

See 2.8.4 to configure saving to Clipboard.

Fonts

See 2.8.4 to configure program fonts.

Sounds

These settings are used to assign distinctive sounds for various events such as incoming messages, order execution, etc.

1. **Events and sounds** — the list of events is subdivided into groups. To expand a group, click '+' located to the left of the group's name.

To assign a sound to an event, select the event from the list, which will open a window in which the user may select a *.WAV or *.MP3 file from those available on the user's computer. The simplest option is to use standard Windows audio files, which are located in the following folders by default:

- C:\windows\media – for Windows Vista\7\8.1\10.

2. **Sound file name** — a selected audio file can be heard by clicking . To select another file, click . To cancel the signal set for an event, select (None) in the **Sound file name** box.

In addition to setting distinctive sounds for each event, it is possible to set up a single signal for all events in a group. For this purpose, select the checkbox for a group. The status of the settings for each event is displayed using the following icons:

- means a sound has not been set;
- means an individual sound has been set;
- means a sound for a group has been set.

If sounds are set for a group and for a particular event in the group, the individual sound will be applied for that event. For events that do not have specific settings, the common group signal is applied.

3. Select **Silent mode** to deactivate sound signals for all QUIK messages and events.

Encryption

The configuration process for encryption is described in 1.4 of Section 1: Before Starting.

2.10.2 News

The configuration of news parameters are found under **News**:

1. **Save for the last ... days** sets the period of time for storing received news items. Upon expiry of that period, the stored news items are deleted upon program launch.
2. **Mark as read after ... seconds** sets the period of time after which any news items selected using the cursor will be marked as read.
3. **Request news body + title** ensures that the news item (message) is downloaded from the QUIK server together with the heading. If this feature is disabled (default setting), the caption under the **News** box must be selected in order to receive the body of the news item.
4. **Request news from now** ensures that news items are received from the server once a connection with the QUIK serve is established. If this feature is disabled (default settings), news items that have not been received since the last news items became available on the QUIK terminal are requested.

2.10.3 Trading

The trade settings are described in 5.14 of Section 5: Client Operations.

Orders

The order entry configuration is described in 5.14.2 of Section 5: Client Operations.
In this section, the following settings are described:

1. **Entry forms**.
2. **Client orders**.
3. **Algo orders** are described in the **Algorithmic trading module** User's Manual, 9.2.
4. **OMS orders** are described in the **OMS Manager Module** User's Manual, section 24.
5. **Negotiated deal orders**.
6. **Order amendment**.

Setting accounts

Description of account settings is given in 5.15 of Section 5: Client Operations.

Closing positions

Parameters for closing positions are described in 5.14.3 of Section 5: Client Operations.

Client portfolio

Parameters for working with the client portfolio are described in 5.14.4 of Section 5: Client Operations.

Level II Quotes

Parameters for working with Level II quotes and Aggregated Level II quotes are described in 5.14.5 of Section 5: Client Operations.

Currency unit

Changing the currency unit results in the conversion of all values in the program tables into another currency.
To select a currency unit, follow these steps:

1. Select **System / Settings / General settings**, section **Program / Receiving data / Quotes**. Ensure that the list includes the **Cross currency rates** class and check that this is selected for receipt from the server.
2. Select **System / Settings / General settings,** section **Trading / Currency unit** and select the required currency unit from the list, and click **OK**.

To cancel the conversion of all values into another currency, select **Default Currency Unit.**

Digital Signature

Parameters for configuration of the digital signature are described in 5.14.6 of Section 5: Client Operations.

2.10.4 Messages

To set up the messages window, see 2.9.1.

Trader messages

The trader message settings are described in 3.10.10 of Section 3: Viewing information.

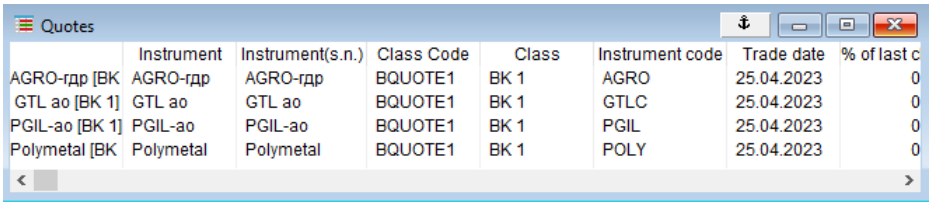
Alerts

The settings for local messages are described in 3.11.13 of Section 3: Viewing Information.

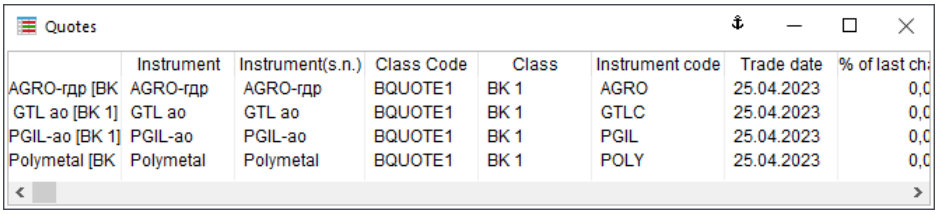
2.10.5 Windows

1. **Dock windows when dragging** enables the user to paste windows when moving them or changing their borders. Press **SHIFT** to disable this feature.
2. **Show window icon on task bar**. If the checkbox is selected, the window icon dragged out of the working program window is displayed in task bar of operational system. The checkbox is selected by default.
   The setting effects only on newly dragged out windows and does not effect on previously dragged out ones.
3. **Link external windows** enables the user to **apply** the linked-windows mode to dragged out windows. If the **Link external windows** checkbox is selected then the windows appearance changes (header and buttons). By default, the checkbox is enabled.

   View of the window when the setting is disabled:



   View of the window when the setting is enabled:



Tables

Select **Tables** to configure the parameters for handling tables:

1. **Smooth row highlighting** enables the smooth fading out of highlighting instead of the standard highlighting of rows when an order is executed in tables such as the Quotes Table, Orders Table and so on.
2. **Sort by column by holding down Ctrl** enables sorting rows in table columns by left-clicking on the column heading while holding down the **Ctrl** key. By default, the checkbox is disabled.

Drag-and-drop settings

3. **Move and delete columns using Drag-and-Drop** enables moving and deleting columns in a table using the drag-and-drop mode.
4. **Ask for confirmation when moving and deleting items using Drag-and-Drop** enables the replacement of an instrument in the quotes window and deleting items (user confirmation is required to complete an action).

2.10.6 Lua scripts

Lua version:

1. for script indicators — select Lua machine for indicator scripts, the specified value is used by default when starting indicator scripts. Possible values:

- 5.3.5;
- 5.4.1 (by default).

2. for user scripts— select Lua machine for user scripts. The selected version of the Lua machine is used by default when you click the **Run** button in the **Available scripts** dialog box. For the description see 1.3.2 sub-section of the Lua Interpreter User's Manual. Possible values:

- 5.3.5;
- 5.4.1 (by default).

2.11 Changing the interface language

menu **System / Settings / Language settings...**

To change the interface language, proceed as follows:

1. Select **System / Settings / Language settings**....
2. In the window that opens, select the desired language from the **Language** list.
3. Click **Apply**.
4. For the change to take effect, the program must be re-launched.

> **To make the above change operational, this feature should be supported by the local QUIK server.**

2.12 Saving / restoring the configuration

2.12.1 Saving the display configuration

QUIK can automatically save the display configuration each time the program is closed including the location of and settings for windows. To enable this feature, select **Save settings to file upon exit** in the **Program / Configuration files** section under **System / Settings / General settings...**. A default file is selected in the **Use configuration file** box and can be changed if necessary.

In addition to saving the configuration upon exit, QUIK allows you to save the configuration to a file manually. To save the configuration, select **System / Save windows configuration to file.** This option protects the configuration settings from accidental changes and allows multiple users to share a terminal whilst applying their individual preferences to the system.

2.12.2 Restoring the display configuration

To load the display configuration from a file, click **Settings / Load windows configuration from file** and, then, select the specific file with the saved settings. When the settings are loaded from a file, the windows of the previous configuration may be either closed or allowed to remain open and merged with the previous configuration in the display. Select the **Close all windows before loading the configuration file** checkbox to enable this feature.

> **When loading data from files created In later versions of the QUIK Workstation relative to the one which is currently used then the notification of the following view appears: "<File name> configuration file was created by the newer version of the QUIK terminal. Current version cannot load it properly. Continue this file loading?".**

Example of transferring a table from one configuration to another:

1. Open the configuration window that includes the table to be transferred.
2. Close all windows in it except the table to be transferred.
3. Save the configuration to a file with a new file name.
4. Select **Program / Configuration Files** under **System / Settings / General settings...** and clear the **Close all windows before loading the configuration file** checkbox.
5. Load the configuration file which should be applied to the table. Now, all windows from that configuration and the table to be transferred that was not closed when loading the new configuration will be displayed.
6. Save the configuration to a file.

Items with complex settings such as charts or groups of tabbed windows can be transferred the same way.

If a color theme in the loaded settings is not the same as the current theme of QUIK Workstation and setting **Replace color settings when loading configuration file** is enabled, color settings for the loaded file are replaced to the appropriate color settings of currently selected theme. Backup copy of the original configuration file is saved in the same catalog where the initial file is located.

> **Interface theme of the QUIK Workstation is defined by 'Interface skin' setting (select 'Program' under System / Settings / General settings...).**

2.12.3 Automatically saving the windows configuration

To avoid problems associated with restoring the windows configuration after various malfunctions (e.g., unexpected power failure, etc.), a feature is provided to automatically restore the most recent configuration from a backup copy. A backup file is saved automatically when the user exits the program or saves the windows settings to a file. In doing so, the previous version of the configuration is saved to a file with the following name:

```
<config_file_name>.wnd.sav
```

For example, when exiting and autosaving a new configuration to the file info.wnd, the backup file info.sav.wnd. is created. If the **Make a backup copy when saving settings to file** checkbox is enabled, the configuration's version is saved in WNDSAV catalog to a file with the following name:

```
<config_file_name>.<yyyymmdd_hhmmss>.wnd
```

For example, for info.wnd, we will have a backup file with the following name:

```
info.20140509_210419.wnd
```

If the windows settings are saved under **System / Save windows configuration to file**, the previous version of the configuration is saved in WNDSAV catalog to a file with the following name:

```
<config_file_name>.<yyyymmdd_hhmmss>.wnd
```

For example, for info.wnd, we will have a backup file with the following name:

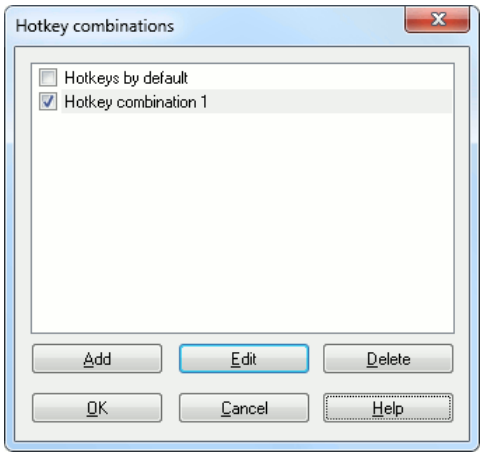
```
info.20140509_210419.wnd
```

To disable the configuration autosave feature, clear the **Make a backup copy when saving settings to file** checkbox in the **Program / Configuration files** section under **Settings / General**.

2.13 Hotkey editor

menu **System / Settings / Hotkey editor...**

Use the **Hotkey Editor** to make changes to hotkey combinations used to launch program functions. QUIK allows the user to define sets of instructions. The original settings can be restored by selecting the default hotkey settings. To open the **Hotkey combinations** window, press CTRL+H.



2.13.1 Hotkey combinations

QUIK offers a range of default hotkey combinations, which are listed in 2.14.3. The default shortcuts cannot be edited. To view the default settings, select the relevant checkboxes by double clicking on them.

To change a hotkey combination, the user should first create a set of hotkeys.

The buttons at the bottom of the window are used to perform actions related to keyboard shortcuts as follows:

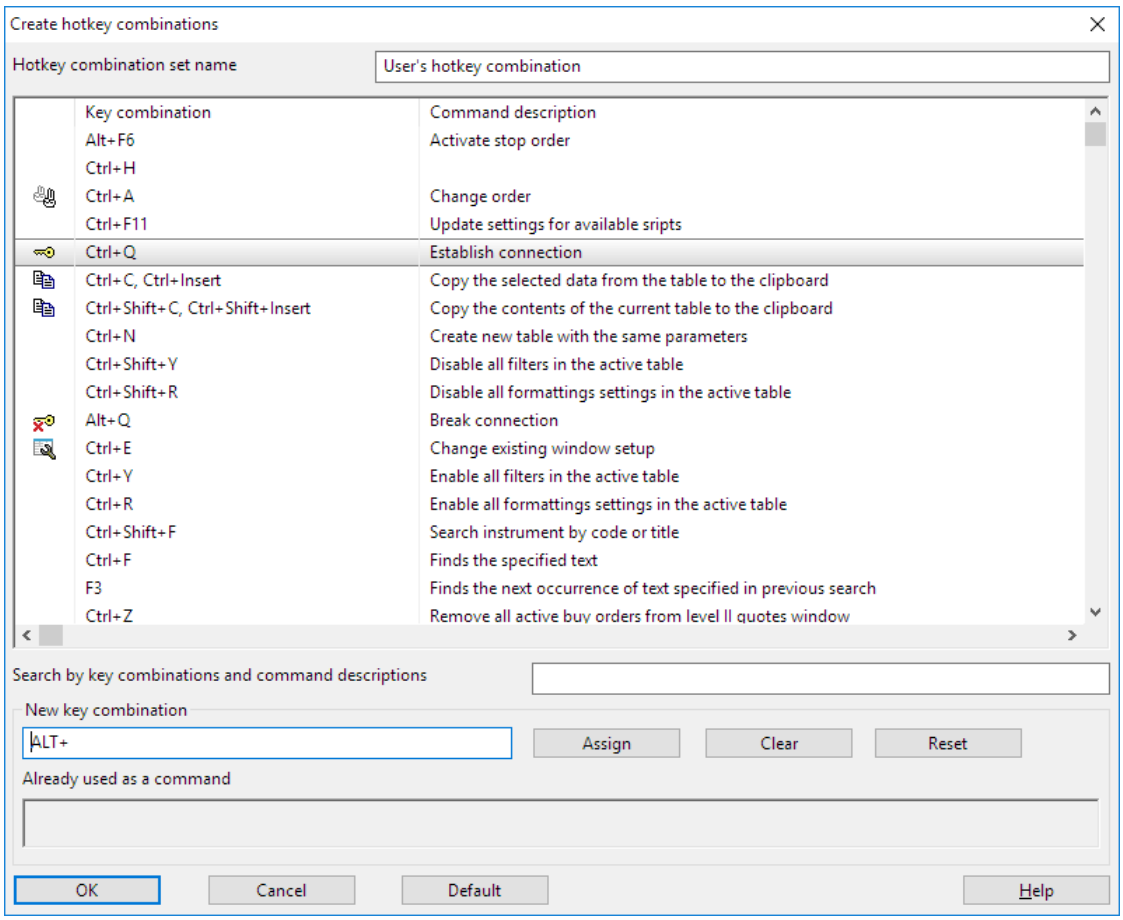
- **Add** – to create a new hotkey combination based on those selected from the list. The user does not need to select combinations that remain unchanged.
- **Edit** allows the user to make changes to the selected set of hotkeys.
- **Delete** allows the user to delete the selected set of hotkeys.
- **OK** – to submit the changes and closes the window.
- **Cancel** – to close the window without saving any changes.
- **Help** provides guidance related to the selected function.

The combinations of hotkeys selected for use is marked with ☑. Click **OK** to replace all hotkey combinations with those from the user-defined set.

2.13.2 Editing a hotkey

Click **Add / Edit** in the **Hotkey combinations** box to launch the hotkey creation / editing window.

This window contains the following options:



1. **Hotkey combination set name** changes the name of a hotkey combination.
2. Hotkey combinations table shows the list of hotkey combinations used, and includes the following columns:

- Toolbar button that corresponds to the specific action;
- **Key combination** shows the assigned key combination that launches the specific action;
- **Command description** is the text description of the specific action.

The table shows all the command available in a QUIK workstation. For the list of key combinations, see 2.14.3. The user may set a new key combination for any command or set a key combination for a command to which it was not set by default.

3. **Search by key combinations and command descriptions** – allows the user to find a key combination or a description containing the entered string from the list of keyboard shortcuts. Matching strings will be shown at the top of the list.
4. **New key combination** is used to enter a key combination for an action selected from the list. To enter a key combination, move the cursor to the relevant area and click the

specified new combination. The buttons located on the right are used to perform the following actions with the entered combination of keys:

- **Assign** replaces a key combination with the keys specified;
- **Clear** removes a key combination from the input box;
- **Reset** cancels a shortcut key combination set for a specific function.

5. **Already used as a command** describes the action to which the current combination is assigned. If this box is not empty, assigning a key combination is forbidden.

Click **OK** for the changes to take effect. Click **Cancel** to close the window without saving any changes. To clear all changes and restore the standard settings, click **Default**.

2.14 APPENDIX

2.14.1 Functions of control panel items

Panel	Item	Function
Standard		Connect to the server
		Disconnect from the server
		Open dialog to create a new window
		Open the configuration window for a graph
		Open the configuration window for a bond yield graph
		Open the configuration window for a Quotes Table
		Open the configuration window for a Time and Sales Table
		Edit the current window
		Configure the DDE export from the selected table
		Configure the ODBC export from the selected table
		Show Messages Window
		Execute a transaction using the common method
		Open the new order window
		Cancel an unprocessed order
		Replace an unprocessed order
		Open a window to enter a linked order
Personal tables		Create a trades table
		Create an orders table
		Create a stop-orders table
		Create a Cash positions table
		Create a Positions in instruments table
		Create a client portfolio table
		Create an Account state table

Panel	Item	Function
Instrument search		Find instruments using a specified sub-string included in their names or codes
		Search sub-string entry box
Global client filter		Reset filter settings
		Enter the client code from the filter in the order forms
	<Not chosen>	Filter all tables by **Client code**
Global market filter		Reset filter settings
	EQBR	Filter tables by **Selected Classes**
Graph		Add a graph to the current window (chart)
	M5	Modify an interval
		Configure displaying of information on cursor location on the graph's plotting area
		Display the entire graph area in the window if the graph scale was increased or reduced
		Increase the graph scale
		Reduce the graph scale
		Measure the distance between points on a chart
		Enable the order entry mode in the chart window
		Drag a graph using the mouse
		Draw trend lines and figures
		Put a label to the graph
		Put an image, selected from a set of inbuilt images, to the graph
		Enable / disable showing trend lines, figures and labels on the graph
		Freeze the instrument selected in the toolbar
		Magnetize points of trend lines to the nearest candlesticks
Message window		Delete all records in the Messages Window
		Jump to the first message

Panel	Item	Function
	◀◀	Go to the previous message
	▶▶	Go to the next message
	▶▶|	Jump to the last message

2.14.2 Functions of the program menu items

Menu section	Menu item	Function
System	Connect	Start a new session with the server
	Disconnect	End the current session with the server
	Available connections…	View and edit the server connection settings
	Data request	Contains the following sub-menu:
	_ Reorder data…	Clear the received data and request it again
	_ Instruments replacement	Replace expiring instruments
	_ Merge chart archives	Merge the charts of instruments with short trading period (futures) being replaced automatically
	Receiving files…	Manually select files to be received from the server
	Save windows configuration to file…	Save the table settings to a file
	Load windows configuration from file…	Read table settings from a file
	Settings	Contains the following sub-menu:
	_ General settings…	Customise the program interface and parameters for receiving messages and order entries
	_ Internet connection…	Configure the connection via a proxy server
	_ Language settings…	Select the interface language
	_ Hotkey editor…	Define hotkey combinations for the prompt launch of program functions
	_ Instrument parameters…	Configure parameters of instruments
	Help	View reference information about using

Menu section	Menu item	Function
		the program
	About program	Contains the following sub-menu:
	_ Program version	View information about the authors and the current version
	_ Update program version	Update the program version automatically
	_ Component and plugin versions…	View information about the components and plugins used in the current version
	_ Information window…	Configure the window showing information about the status of the server connection
	Exit	Quit the program
Create window	* Chart…	Draw a new chart
	* Quotes…	Create a new Quotes Table
	* Time and sales…	Create a Time and Sales Table
	* Level II Quotes…	Create a new Level II Quotes Table (DOM)
	* Account state	Create an Account state table
	* Orders	Create a new Orders Table
	* Stop orders	Create a new Stop Orders Table
	* Trades	Create a new Trades Table
	Transactions pocket…	Create a new Transactions Pocket Table
	Options board…	Create a new Options Board Table
	* News	Create a news table
	* Trader messages window	Create a new Trader messages window
	* Alerts window	Create a new Alerts window
	Client portfolio	Create a new client portfolio table
	Positions in instruments	Create a new Positions in instruments table

Menu section	Menu item	Function
	Cash positions	Create a new Cash positions table
	Trading accounts table	Create a new Trading accounts table
	Client account limits	Create a new table of limits on client accounts
	Client account positions	Create a new table of client account positions
	Negdeal orders	Create a new Table of negotiated deal orders for off-exchange trades
	NDM Quotes	Create a new Table of quotes for off-exchange trades
	NDM Level II Quotes	Create a new Level II Quotes Table (DOM) for Negotiated Deals Mode
	Trades for execution	Create a new table for trades to be executed
	Reports on trades for execution	Create a new table of reports on trades to be executed
	Information on settlement codes	Create a new table of settlement codes for a selected instrument
	Asset liabilities and claims [CCP]	Create a new table of liabilities and claims on assets (Central counterparty)
	Interest risk parameters [CCP]	Create a new table of interest risks parameters (Central counterparty)
	Market risk parameters [CCP]	Create a new table of market risks parameters (Central counterparty)
	Individual risk parameters [CCP]	Create a new table of individual risks parameters (Central counterparty)
	Commitments and demands on assets [Currency]	Create a new table of commitments and demands on assets (Currency)
	Interest risk parameters [Currency]	Create a new table of interest risks parameters (Currency)
	Market risk parameters [Currency]	Create a new table of market risks parameters (Currency)
	Individual risk parameters [Currency]	Create a new table of individual risks parameters (Currency)
	Market-maker liabilities by stock and FX markets	Create a new table of market maker

Menu section	Menu item	Function
		liabilities for stock and foreign exchange markets
	Market-maker liabilities by stock and FX markets, extended	Create a new table of extended market maker liabilities for stock and foreign exchange markets
	Market-maker liabilities by derivatives market	Create a new table of market-maker liabilities by derivatives market
	Chart for bond-equivalent yield…	Create a chart for bond-equivalent yield
	Quotes history…	Create a Quotes History table
	Quotes changes…	Create a Quote Changes Table
	Participant's cash positions	Create a new Participant's cash positions table
	Participant's positions in instruments	Create a new Participant's positions in instruments table
	Participant's positions on trading accounts	Create a new Participant's positions on trading accounts table
	Participant's positions in instruments on trading accounts	Create a new Participant's positions in instruments on trading accounts table
	Aggregated level II quotes…	Create new Aggregated level II quotes
	Transactions table	Create a new Transactions table
	Messages table	Create a new table of system messages
	Client transactions	Create a new table of client requests for the execution of orders
	Participants information	Create a new Participants information table
	Information window…	Configure the window showing information about the status of the server connection
	NCC transfers…	Create a new table NCC transfers
	Prohibition on operations	Create a new Prohibition on operations table
	Transfer types	Create a new Transfer types table
	Bank account	Create a new Bank account table
	All window types…	Create a new window for the selected

Menu section	Menu item	Function
		table
	Edit menu…	Configure a set of menu items in Create window
Action		Call the context menu for the active window
Dealer	Load positions from file…	Load the values for an opening balance and positions for cash and instruments from a file
	Save positions to file…	Save the current values for the balance and positions from the Cash positions Table and Positions in instruments Table to a file
	Correct positions via file…	Configure the mechanism of dynamic correction of client positions via an external program
	Save limits for derivatives market to file…	Save to a file the current values of the positions and limits from the Client account limits Table and Client account positions Table
	Load limits for derivatives market from file …	Load the opening positions and limits for the Client account limits Table and Client account positions Table from a file
	Delete all positions for cash…	Delete all values from table of Cash positions
	Delete all positions for instruments…	Delete all values from table of Positions in instruments
	Report on positions…	Generate a report on the positions specified for a particular user for a specific day
Services	Global filters…	Customise global filters for all tables or tables on an active tab
	Cancel orders by condition	Cancel a group of active orders that meet specific criteria
	Data export/import	Contains the following sub-menu:
	_ Technical analysis data	Configure the export settings of data for technical analysis
	_ Start DDE export from tables	Start DDE export from all tables with

Menu section	Menu item	Function
		export settings
	_ Stop DDE export from tables	Stop DDE export from tables the data is exported from
	_ Start ODBC export from tables	Start ODBC export from all tables with export settings
	_ ODBC export of instruments…	Start ODBC export of the best quotes for selected instruments without creating a Level II Quotes Table
	_ Import transactions from file…	Configure the settings for importing transactions from a file
	_ External transactions…	Configure the settings for importing transactions via API
	Change password	Change user password
	QPILE scripts…	Load a new structure of QPILE script from file
	Lua scripts…	Load a new structure of Lua script from file
Windows	Dock window	Lock the size and location of all windows in the active tab
	Remove title	Disable displaying of the window title row
	Always on top	Display the window on top of all other open windows when moving
	Move window to tab	Move the selected window from a tab to another. Contains the following sub-menu:
	_ Show in all	Display the selected window in all tabs
	_ Tab <N>	Move the selected window to the specified tab
	Show / Hide tabs	Show / hide screen tabs
	Cascade	Arrange windows in order, one above the other
	Tile Horizontally	Arrange windows uniformly horizontally
	Tile Vertically	Arrange windows uniformly vertically
	Arrange icons	Arrange minimized icons of windows at

Menu section	Menu item	Function
		the bottom of screen
	Close All	Close all windows
	Window manager	Open Window manager

* – tables of the standard set.

2.14.3 List of shortcut keys

Group	Combination	Function
General	F1	Launch the program help menu
	F3	Continue search
	F4	Create a Level II Quotes Table
	F5	Update the table
	F7	Create a new window by selecting from a list of existing ones
	F9	Open the settings window of the Workstation
	Alt+1...Alt+9	Go to the tab with the number 1 .. 9
	Alt+Q	Break connection with server
	Ctrl+C or Ctrl+Insert	Copy a selected row/row range in the table to Clipboard
	Ctrl+Shift+C or Ctrl+Shift+Insert	Copy the table content to Clipboard
	Ctrl+E	Edit chart or table
	Ctrl+F	Search
	Ctrl+G	Configure Global filters
	Ctrl+H	Set up a list of hotkey shortcuts
	Ctrl+L	Customize the output of table by DDE
	Ctrl+N	Create a new table from an existing
	Ctrl+Alt+A	Create a local notification of the occurrence of events from the table
	Ctrl+Alt+S	Create an SMS notification of the occurrence of events from the table
	Ctrl+A	Replace notification in the “Alerts window” table
	Ctrl+D	Remove notification in the “Alerts window” table

Group	Combination	Function
	Ctrl+O	Customize the output of table by ODBC
	Ctrl+P	Print table from chart
	Ctrl+Q	Establish connection with server
	Ctrl+T	General procedure for the transaction execution
	Ctrl+W	Choose the width of the columns in a table
	Ctrl+F4	Close the current window
	Ctrl+F6 or Ctrl+Tab	Go to the next window
	Ctrl+F11	Set parameters for available scripts
	Shift+Ctrl+F6 or Shift+Ctrl+Tab	Switch to the previous window
	Shift+Ctrl+L	Start DDE export for all tables with the specific export settings
	Shift+Ctrl+O	Start ODBC export for all tables with the specific export settings
	Shift+Ctrl+S	Stop the DDE export for all tables
	Ctrl+Shift+Y	Disable all user-defined filters
	Ctrl+Y	Enable all user-defined filters
	Alt+Y	Clear all user-defined filters
	Ctrl+Shift+R	Disable conditional formatting
	Ctrl+R	Enable conditional formatting
	Alt+R	Clear all conditional formatting
	Ctrl+Shift+F	Open a dialogue box to search for an instrument by its code or name
	Alt+L	Lock the size and location of all windows on the monitor and in the active tab
	Alt+B	Disable displaying of the window title row
	Alt+T	Display the window on top of all other open windows when moving
	Ctrl+B	Show / hide the tabs on the screen
	Alt+M	Open the Window manager
Handling orders	F2	Create an order
	F6	Create a new stop order

Group	Combination	Function
	Alt+F2	Show / hide the order entry toolbar
	Alt+F6	Activate a stop order
	Ctrl+F2	New combined order
	Ctrl+F8	Withdraw all active orders from an active Level II Quotes window
	Ctrl+A	Replace an order
	Ctrl+D	Cancel an order
	Ctrl+Z	Withdraw all active bids from an active Level II Quotes window
	Ctrl+X	Withdraw all active offers from an active Level II Quotes window
	Ctrl+1	Place a limit order to buy (bid) at a fixed price and quantity
	Ctrl+2	Place a market order to buy (bid) at a fixed price and quantity
	Ctrl+3	Place a limit order to sell (offer) at a fixed price and quantity
	Ctrl+4	Place a market order to sell (offer) at a fixed price and quantity
	Shift+F6	Transfer a stop order entered on another server to the current QUIK server
	Shift+Alt+D’	Cancel orders if a condition is met
Order entry window	“+” on the numeric keypad	Increase the order price by one point
	“-”on the numeric keypad	Reduce the order price by one point
	Ctrl+‘+’ on the numeric keypad	Increase the order price by 10 points
	Ctrl+‘-‘ on the numeric keypad	Reduce the order price by 10 points
	PageUp	Increase the number of lots in an order by one
	PageDown	Reduce the number of lots in an order by one
	Ctrl+PageUp	Increase the number of lots in an order by 10
	Ctrl+PageDown	Reduce the number of lots in an order by 10
	<space>	Reverse the order direction (requires configuration)
	Tab	Switch to the next order form box
	Shift+Tab	Switch to the previous order form box

Group	Combination	Function
	Enter	Send an order
	Esc	Close the window without sending an order
	K	Add 3 digits (000) to a non-zero value in the field of the price, quantity or volume
	T	Add 3 digits (000) to a non-zero value in the field of the price, quantity or volume
	M	Add 6 digits (000000) to a non-zero value in the field of the price, quantity or volume
	B	Add 9 digits (000000000) to a non-zero value in the field of the price, quantity or volume
	Y	Add 9 digits (000000000) to a non-zero value in the field of the price, quantity or volume
Level II Quotes window	Alt+W	Show a table row in the middle of the window with the price equal to the average value between the highest bid and the best offer. Valid only if the **Sparse Level II** mode is enabled
Level II Quotes window toolbar	Alt+Z	Take the price offset value from 'Offset 1' specified in the settings for the active window. For a description of the method used, see Chapter 5, "Client operations", sub-section 5.7.6
	Alt+X	Take the price offset value from 'Offset 2' specified in the settings for the active window
	Alt+C	Take the price offset value from 'Offset 3' specified in the settings for the current window
	Alt+V	Take the price offset value from 'Offset 4' specified in the settings for the current window
	Alt+A	Take the quantity of the instruments from 'Quantity' in the selected row. If the **Quick order sending / cancellation** is enabled, the quantity of instruments should be taken from 'Total amount for the best'. For a description of the method used, see Chapter 5, "Client operations", sub-section 5.7.1
	Alt+S	Take the quantity of instruments from 'Volume 1' specified in the settings for the current window
	Alt+D	Take the quantity of instruments from 'Volume 2' specified in the settings for the active window
	Alt+F	Take the quantity of instruments from 'Volume 3' specified in the settings for the active window
Account state	Ctrl+K	Close a position

Group	Combination	Function
window	Ctrl+I	Reverse a position
	Ctrl+Shift+K	Close all positions
Quotes table	Alt+I	Open the window of information on the instrument
Chart	Insert	Add graph (indicator) to the current chart
	Num "+"	Increase horizontal scale of the graph
	Num "-"	Reduce horizontal scale of the graph
	/	Show all graph

2.14.4 Program settings

Menu item	Purpose	Description
General settings... / Program	Program interface settings	2.10.1
General settings... / Program / Toolbars	Viewing toolbars	2.2.2, 2.2.5
General settings... / Program / Receiving Data	Settings for receipt of data from the server	1.9.1
General settings... / Program / Saving Data	Settings for saving data	1.9.1
General settings... / Program / Configuration files	Management of the configuration files	2.12
General settings... / Program / Context menu	Context menu settings	2.10.1
General settings... / Program / Data Export	Settings for the export of data to Microsoft Excel	6.1.3
General settings... / Program / Clipboard	Configuration of saving data to Windows Clipboard	2.8.4
General settings... / Program / Fonts	Configuration of the fonts used in the descriptions and dialogue boxes	2.8.4
General settings... / Program / Sounds	Sound settings	2.10.1
General settings... / Program / Encryption	Data encryption settings	1.4
General settings... / News	News parameters	2.10.2

Menu item	Purpose	Description
General settings... / Trading	Trading operations parameters	5.13.1
General settings... / Trading / Orders	Order entry box settings	5.13.2
General settings... / Trading / Orders / Entry forms	Entry forms settings	5.2.11
General settings... / Trading / Orders / Client orders	Configuration for the client order receipt mode with confirmation from the broker	7.15.2
General settings... / Trading / Orders / Algo orders	Configuration of 'volatile' algorithmic orders	User's manual "Algorithmic orders" 8.2
General settings... / Trading / Orders / OMS orders	Viewing client codes on the OMS order form	User's manual "OMS Manager Module", 22
General settings... / Trading / Orders / Negdeal orders	Negotiated deal orders parameters	5.13.2
General settings... / Trading / Accounts settings	Setting of depo accounts	5.14
General settings... / Trading / Closing positions	Closing positions settings	5.13.3
General settings... / Trading / Client portfolio	Client portfolio settings	5.13.4
General settings... / Trading / Level II Quotes	Level II Quotes parameters settings	5.13.5
General settings... / Trading / Aggregated Level II Quotes	Aggregated Level II Quotes parameters settings	5.13.5
General settings... / Trading / Currency unit	Selecting the currency unit	2.10.3
General settings... / Trading / Digital signature	Digital signature parameters	5.13.6
General settings... / Messages	Messages and message alert settings	2.9.11
General settings... / Messages / Trader messages	Trader messages settings	3.10.4
General settings... / Messages / Local messages	Local messages settings	3.11.13
General settings... / Windows	Windows parameters settings	2.10.5

Menu item	Purpose	Description
General / Windows / Tables	Configuration of parameters for working with tables	2.10.5
Internet connection...	Configuring the connection via a proxy server	1.9
Language settings...	Selecting the interface language	2.11