

IFH-InfoCenter

**information services and software products
for investors and professional Russian market players**

NetInvestor Client 5.0 **detailed user manual**

**Moscow
2007**

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About NetInvestor Client 5.0

NetInvestor Client 5.0 is software component of NetInvestor Internet trading system that enables to execute trade operations by means of the Internet. Connection to the trading system is carried out through the server installed at Broker's place over TCP/IP protocol with use of modern information protection algorithms. The manual is actual as of 15.11.2006 (NetInvestor Client v.5.0 (build 5.0.7.1049)).

Program installation and preferences setting

For NetInvestor Client 5.0 installation your PC should meet following minimum requirements:

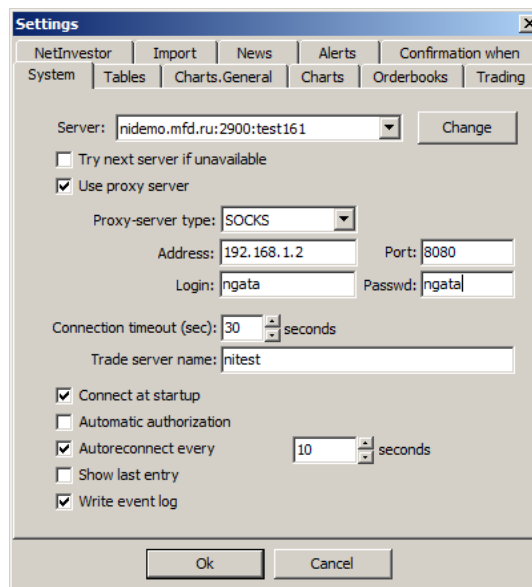
- Pentium III 750 MHz or better processor
- 2 Gb of free space on hard drive
- Windows 98, Windows NT 4.0 SP6, Windows 2000 SP6 or Windows XP SP2

Program installation

1. Unpack netinv.exe to any folder.
2. Click **NetInvestor Client** icon in **Start - Programs** menu in order to run the program.

Setting of automatic connection to NetInvestor system when the program starts

- Select menu **Files, Options** (See Pic. 1)



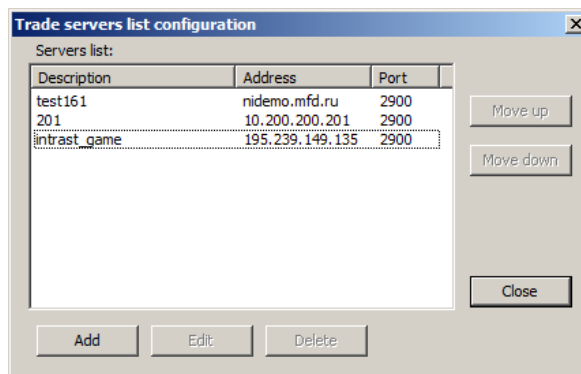
Pic. 1

Execute setting being guided by dialogue elements installation description contained in the table.

Element	Description
"System" tab	
System	Displays a list of trading servers: Address, Port and Domain name/description of NetInvestor server. For operative connection choose trading server from the list.
Change	Click " Change " button to activate "Trade servers list configuration" window. (See Pic. 2) The description of window installations see in the table below.
Try next server if unavailable	Select check box: the program will connect to trading servers consistently one after another in the list, if the next server is unavailable.
Use proxy server	Select check box: the program will automatically connect to a proxy server at start.

Proxy-server type	Set server type: choose type from the offered list. - SOCKS; - HTTP-tunnel.
Address Port	Set parameters for connection to a proxy server.
Login Passwd	Enter your data for connection to a proxy server.
Connect at startup	Select check box: the program will automatically connect to a proxy server at start.
Automatic authorization	Select check box: the program will automatically enter the name and password at server authorization. In case the selection is lacking, in order to enter the name and password (for example, in case of name or password change) for authorization the program will offer "Identification" dialog window.
Autoreconnect every	For automatic reconnection to the server in case of connection breaking by any reason, select this check box. Enter an interval in seconds in order to renew reconnection. (See pic.1)
Show last entry	Select this check box for the system to display the previous log in time in the "Information" window that appears at program startup.
Write event log	Select this check box in order to log dataflow.

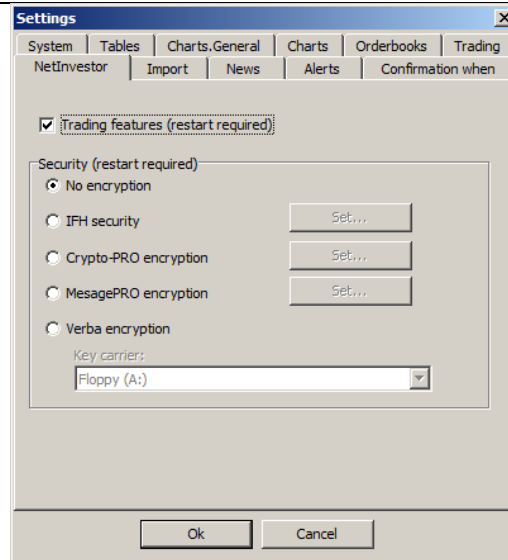
Server list setting



Pic. 2

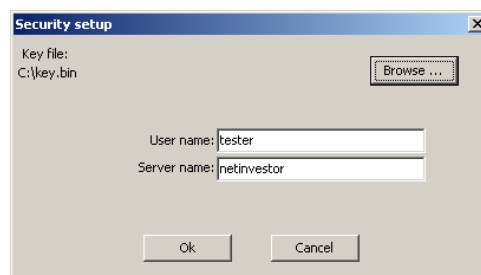
Execute setting of trading server list being guided by element descriptions in the table.

Element	Description
Add	Click Add button in order to enter data into the list of trading servers. Thus "Add server" dialog window appears. Enter data into Address , Port , Description input boxes. Click Ok button for continuation and window closing. Click Cancel button to cancel the entered data and close the window.
Delete	Select "Server list" table row and press Delete button for removal of the chosen trading server data row.
Edit	In "Server list" table choose the needed row and press Edit . Enter changes into input boxes of "Edit server" window. Press Ok button for continuation and window closing. For operation cancellation and window closing click Cancel .
Move up/Move down	Locate the cursor at the trading server data row in the "Server list" window, select a row in the list pressing Move up or Move down buttons. This option allows to define the order in which the program will try connecting to servers if a server is unavailable.
Close	Click Close to end work with the list and close the window.



Pic. 3

“NetInvestor” tab (See Pic. 3)	
Trading features (restart required)	Select the check box that starts operating mode of NetInvestor system informational trading terminal.
No encryption	Select the item, if you do not plan to use encryption at work with the trading system.
IFH Security Set	Select the item, if you would like to use the security system developed by IFH-InfoCentre at work with the trading system. Click Set button for data entering into the “Security setup” dialog window. (See Pic. 4)
Crypto-PRO encryption Set	Select the item, if you would like to use Crypto-PRO encryption at work with the trading system. Click Set button for data entering into “Security setup” window. (See Pic. 4)
MessagePro encryption Set	Select the item, if you would like to use MessagePro encryption at work with the trading system. Click Set button for data entering into “Security setup” window. (See Pic. 4)
Verba encryption Key carrier	Select the item, if you would like to use Verba encryption developed by “MO PNIEI” organization. Specify, from which device loading of an encryption key and electronic signature will be carried out.



Pic. 4

“Security setup” window (See Pic. 4)	
Key file	By means of Browse button set path to the key file, provided by a broker.
User name	The name of key user in NetInvestor system (provided by a broker).
Server name	NetInvestor server system name (provided by a broker).
Base name is used only	If at setting of a personal certificate as a base name, the local computer is chosen, you should enter System into “Base name” input box. If current user is chosen –

for MS CryptoAPI MessagePro.	User.
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When using MessagePro encryption, after “Security setup” window filling you should press “Set” button for selection of the following:

Field name	Meaning
User private key	Complete path and a file name of user’s private key.
User certificate	Complete path and a file name of user’s certificate.
Other certificates folder	Complete path to the directory of broker’s crypto-server certificate.
Root center certificate	Complete path and a file name of a certificate of broker’s Root certificate center.

Connection to server in order to receive data

If options of automatic server connection and automatic Client registration at program start haven’t been set, you should establish connection by below-mentioned way:



1. Select **Files, Connect** menu or click on  - “Connect/Disconnect”. The button will appear to be gray.
2. When connection is established, enter the name and password into “Identification” window.
3. If needed select “Save password” check box.
4. Press **Ok**.

Received data removal from data trading system


In order to remove information received during a trade session:

1. Select **Files, Clear** menu.
2. Click “Yes”, when “Are you sure you want to delete all data?” question appears.

Note. At new day first launch from the broker’s server the program receives a command for new trading day beginning and makes clearing of out-of-date data automatically.

Disconnection from system server



- Select **Files, Disconnect** menu or click on  - “Connect/Disconnect”. The program will give out the message on loss of connection with the server.

Connection control

Connection to Dixi+Server:

- Green window “**CONNECT**” - Dixi+ Server is on line;
- Red window “**NOT CONNECTED**” - connection with the server is lost;
- Grey window “**NOT USED**” - Dixi+Server program is not used.

Note. Dixi+ Server is a program that allows organizing of multi-user configuration of investors’ work places (for example, in dealing centers creation).

In case of Dixi+ Server use, connection to broker’s server is carried out through this program-agent.

Connection to Trading Server

- Green window “**CONNECT**” – broker’s trading server is on line;
- Red window “**NOT CONNECTED**” - connection with the Trading Server is lost;
- Grey window “**NOT USED**” - the program is used as an informational (not trading) terminal.

On-line market watch


Last quotes (NI)

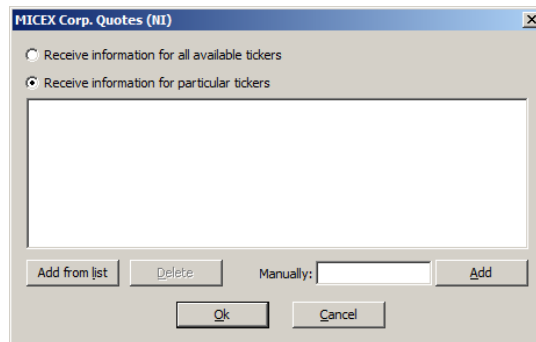
- Select **Trades, {Exchange} Quotes (NI), Last Quotes (NI)** menu.
“Last Quotes (NI)” table shows the best ask and bid prices on tickers of a chosen market, their volume to the current moment, minimal and maximal session prices, volume for the day etc.

Last quotes data receiving by chosen tickers

Trading system data come to NetInvestor Client 5.0 program being divided into informational blocks. Each block contains market name and includes ticker data that a client needs for trade operations execution.

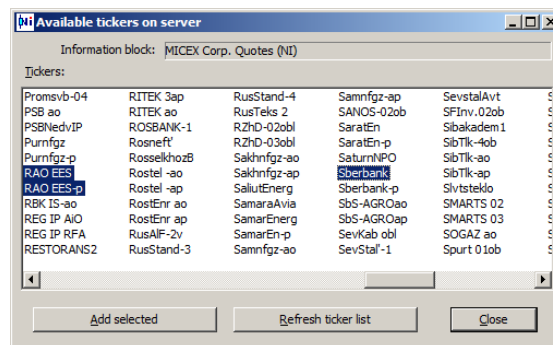
In order to decrease your Internet traffic you should determine preferred list of required tickers for only these data to be sent to your PC.

1. In “Last quotes (NI)” dialog window click on  - “Tickers” or click right mouse button on any row to open the context menu of the current table. Select “Tickers” subitem. There will appear a window (See Pic. 5).



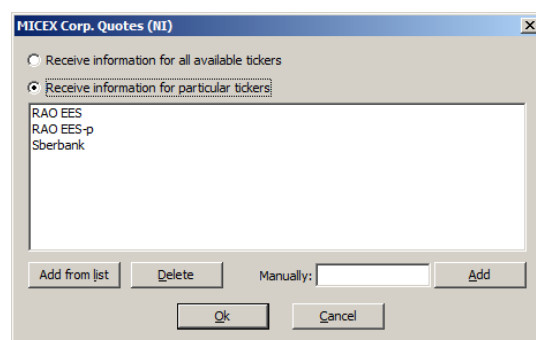
Pic. 5

2. Select “Receive information for particular tickers” option button, window buttons become accessible.
3. If the exact name of ticker is known, enter this name into **Manually** box and click **Add** for entering this ticker into the list.
4. For selection of tickers accessible on a chosen trading system server press **Add from list** button. There will appear “Available tickers on server” dialog window (See Pic. 6).



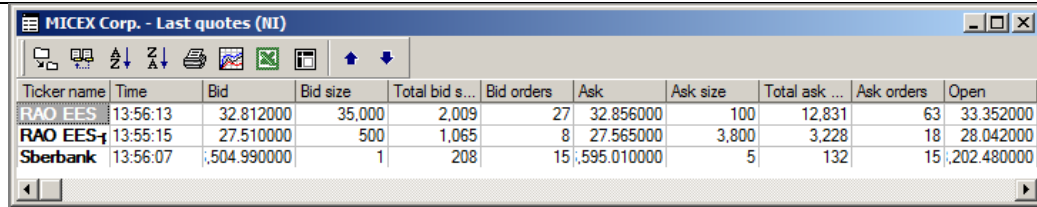
Pic. 6

5. In “Available tickers on server” window choose tickers clicking on Tickers list items. In case of selection of several tickers, click the mouse button several times holding Ctrl on the keyboard. For updating a ticker list in on-line mode, press **Refresh ticker list** button.
6. Press **Add selected** button and click on **Close**. A list of chosen tickers will appear in the window (See Pic. 7). In case of selection mistake, remove the marked ticker, clicking **Delete** button.
7. Press **Ok**.



Pic. 7

Ticker name column in “Last quotes” window shows data on chosen tickers (See Pic. 8).

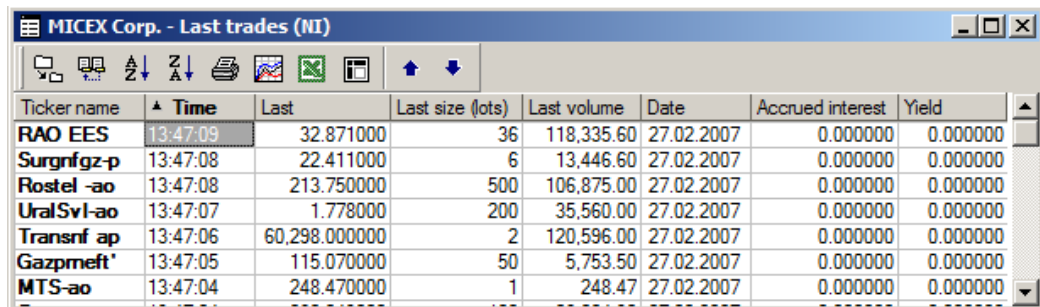


Ticker name	Time	Bid	Bid size	Total bid s...	Bid orders	Ask	Ask size	Total ask ...	Ask orders	Open
RAO EES	13:56:13	32.812000	35,000	2,009	27	32.856000	100	12.831	63	33.352000
RAO EES	13:55:15	27.510000	500	1,065	8	27.565000	3,800	3,228	18	28.042000
Sberbank	13:56:07	504.990000	1	208	15	595.010000	5	132	15	202.480000

Pic. 8

Last trades (NI)


- Select **Trades, {Exchange} Trades (NI), Last trades (NI)** menu (See Pic. 9).
 “Last trades (NI)” window table displays deals by tickers with price indication, volume and timing of the last one.



Ticker name	Time	Last	Last size (lots)	Last volume	Date	Accrued interest	Yield
RAO EES	13:47:09	32.871000	36	118,335.60	27.02.2007	0.000000	0.000000
Surgnfgz-p	13:47:08	22.411000	6	13,446.60	27.02.2007	0.000000	0.000000
Rostel -ao	13:47:08	213.750000	500	106,875.00	27.02.2007	0.000000	0.000000
UralSvl-ao	13:47:07	1.778000	200	35,560.00	27.02.2007	0.000000	0.000000
Transnf ap	13:47:06	60,298.000000	2	120,596.00	27.02.2007	0.000000	0.000000
Gazpmeft'	13:47:05	115.070000	50	5,753.50	27.02.2007	0.000000	0.000000
MTS-ao	13:47:04	248.470000	1	248.47	27.02.2007	0.000000	0.000000

Pic. 9

Receiving of last trades data on tickers chosen

In order to decrease your Internet traffic, as it was with “Last quotes” table, acquisition of data on last deals by chosen tickers only is possible with the help of button  - “Tickers” or with use of **Tickers** subitem in the context menu (See pg. 7).

Note 1: Trades window enables orderbooks table quick view with usage of mouse button double clicks on a ticker name.

Note 2: Double click on any table row, except **Ticker name** area, enables quick construction of Trades price and volume chart (in lots).

Ticker chart is constructed:

- at choosing the submenu **Advanced chart** from the context menu (See below);
- at selection of **Composite table** submenu (See «Chart construction» unit, pg. 36) from the context menu;
- with a click on Chart button on a table panel or control panel of the program main window.

With the help of the context menu in tables of the windows “Last quotes (NI)” and “Last trades (NI)” you can:

1. examine quotes (trades) data on a chosen ticker for a chosen interval of time (history) (for more detailed description see “Additional functions” unit, pg. 35);
2. examine quotes (trades) data on all tickers of a chosen market for a chosen interval of time (history) (for more detailed description see “Additional functions” unit, pg. 35);
3. construct a chart on a chosen ticker by values “Last”, “Last size(lots)” (for more detailed description see “Additional functions” unit, pg. 35);

Orderbooks

- Select **Trades, {Exchange} Quotes (NI), Orderbooks** menu.

“Available tickers on server” window gives an opportunity to choose tickers in order to display ask and bid gathering order queue. In case of selection of several list items, click the mouse button holding Ctrl on the keyboard. Press **Show orderbook** button. There are specified price and volumes of asks and bids for every chosen ticker in separate windows **Quotes (NI)**. Ticker and market names are displayed on a caption bar. For additional table settings you can open the context menu by clicking right mouse button in any table row. For more detailed description see “Additional settings of Orderbooks table” unit, pg. 34.

Double left mouse button click on a chosen row of “My orders” column opens a window of your active orders.

You can also open orderbooks dialog window by clicking on a name of a ticker in a corresponding window – “Last quotes (NI)”, “Last trades (NI)”, “Deals”, “Orders”, “Take-profits”, “Stop-losses and alerts”.

Note: In case you want to open an orderbooks window from the order (stop-loss, take-profit) window, the order mustn't be active, if not, an order (stop-loss, take-profit) will be cancelled.

Quick access to “Last quotes (NI)”, “Last trades (NI)”, “Orderbooks” tables

Quick access to any of the above mentioned table can be carried out through **Tools, Navigator** menu.

Informational blocks are displayed as folders of the first level. At opening of a folder of the second level:

- *Last* – “Last Quotes (NI)” table or “Last trades (NI)” table is displayed corresponding to a chosen informational block.
- *Quote* – a list of tickers and “Orderbooks” table are displayed.

Table control panel description

Except “Orderbooks” table, any other table has a control panel. The first four buttons enable to adjust a view of a table Client convenient (See Table adjustment unit, pg. 32):



- “Print” – printing of a table;



- “Chart” – chart construction according to table data (See pg. 37);



- “Excel” – data export into MS Excel application table (See pg. 52);



- “Tickers” - tickers chosen data receiving (See pg. 7).

Tickers parameters examination on a chosen market

Chosen market ticker parameters are submitted in “Tools” table.

- From the drop-down menu of the main window panel choose a market name.
- Select **NetInvestor, Tickers** menu (See Pic. 10).

	Short name	Ticker name	Lot size	Min. price step
1	EESR	RAO EES	100	0.001000
2	IRGZ	IrkEnergo	100	0.001000
3	MGOK	MikhGOK-ao	1	0.010000
4	RTKM	Rostel -ao	1	0.010000
5	RTKMP	Rostel -ap	1	0.001000
6	RU0009071187	AvtoVAZ-3	1	0.010000
7	RU0009071195	AvtoVAZ-2p	1	0.010000
8	RU14BALT5003	Baltika5ao	1	0.010000
9	RU14INUR2017	Intural2ao	100	0.001000

Pic. 10

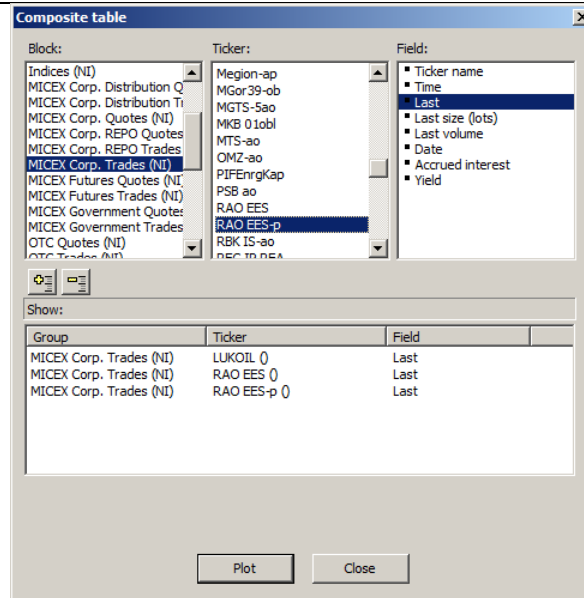
Data examination in a composite table

For examination of data on important tickers in a united window, a composite table enables to unite several informational blocks with the tickers and needed table fields to a single table.

How to create a Composite table?

Method I

- Choose **Tools, Composite tables, New** menu or click on  - “Composite table” on the control panel.





Pic. 11

“Composite table” dialog window (See Pic. 11) is divided into four sections:

- **Block** – represents informational blocks from the trading system;
- **Ticker** – a list of tickers by which means trades on a chosen market operate;
- **Field** – fields of quotes, deals tables;
- **Show** – represents a set of informational blocks, tickers, a list of fields of the created Composite table.

For **Show** section filling:

1. Select an informational block in **Group** column;
2. From **Ticker** and **Field** lists choose needed tickers and fields; in case of selection of several tickers or list fields, click the mouse button holding Ctrl on the keyboard.
3. Click on  - “Add to list”;
4. For removal of wrong **Show** list rows select the row and press  - “Delete from list”.

Note: For new informational blocks into a composite table addition repeat the steps from item 1 to item 4. Click on **Plot** for Composite table construction.

For cancellation of table construction choose **Close** button.

Method II

NetInvestor Client 5.0 system interface allows using “drag and drop” construction method.

1. Choose **Tools, Composite Tables, Create empty** menu. There will appear an empty dialog window of a composite table.
2. Switch to the table, data from which are to be added into the Composite table.
3. Select the needed row, and pressing left mouse button move the cursor.
4. Press **Shift** button on the keyboard; drag and drop the selected row into the empty Composite table.
5. If needed repeat the steps with another table.

Composite table saving

A created Composite table can be saved with any name and afterwards be opened for further use.

1. Make **Composite table** window being active;
2. Choose **Tools, Composite tables, Save** menu;
3. Enter a table name;
4. Click on **Save**.

Lookup of Composite table saved

- Choose **Tools, Composite table, Open** menu. Click on a needed table name in list.

Work through the “Composite table” window context menu

1. Click right mouse button in “Composite table” dialog window.

2. Select the items from the context menu for execution of the following actions:
 - **Insert separator** – horizontal separator insertion into the specified area;
 - **Delete row** – row, separator removal.
 - **Delete column** – column removal.
 - **Parameter changing** – to display/not to display a difference (change) between the current and the last parameter level;
 - **Background color** – background color of a Composite table change;
 - **Title color** – title color of a Composite table change;
 - **Edit** – table parameters changing.

Table calculated fields creation (Formula wizard)

Formula wizard is an onboard utility, designed for additional table calculated fields creation. It allows calculating elementary indicators and trades indexes without using calculator or MS Excel program.

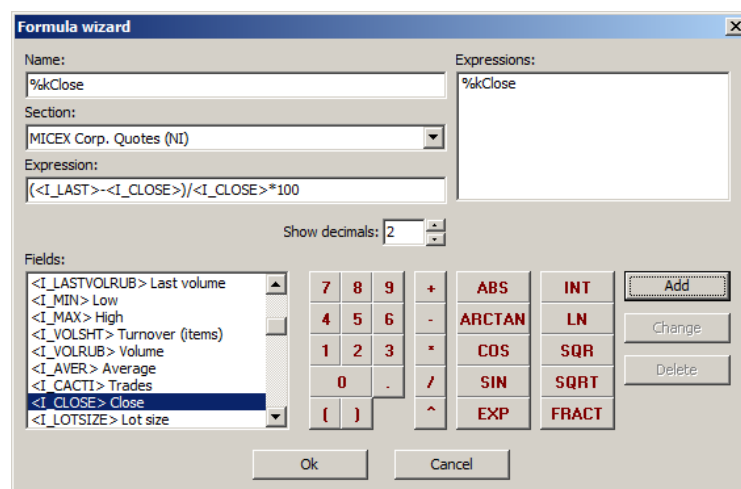
ATTN!!

Before Formula wizard start it is necessary to close all the program windows.

- Choose **Tools, Formula wizard** menu (See Pic. 12).

Formula wizard work example


Goal: to create a field for calculation of percent change value of the price to the previous trading day close in the table “MICEX Corp. Quotes (NI)”.



Pic. 12

1. Enter **%toClose** new field name into **Name** input field;
2. From **Section** list choose “MICEX Corp. Quotes (NI)” informational block;
3. In **Expression** input box enter a calculation formula: operands (table fields) are to be chosen by double mouse button click on a name from **Fields** list, operations - by mouse click from the block of operations. As a result the formula will look like one on pic. 12 specified;
4. In **Show decimals** list enter or select with the help of arrows number 2. After formula calculation received the number will be with two decimal places;
5. Press **Add** button; the name of a calculated field will appear in **Expressions** section (See Pic. 12);
6. Close “Formula wizard” dialog window - press **Ok**.

Add **%toClose** calculated window into “MICEX Corp. – Last quotes” table:

1. Choose **Trades, MICEX Corp. Quotes, MICEX Corp. - Last Quotes** menu;
2. Click on  - “Fields order”, located on the table control panel;

Add **%toClose** calculated window to “MICEX Corp. – Last quotes” window:

1. Choose **Trades, MICEX Corp. Quotes, MICEX Corp. - Last Quotes (NI)** menu;
2. Click on **Fields order** button;
3. Transfer **%toClose** row from **Hidden** area to **Visible** area of “Fields order” window;
4. For **%toClose** field to be saved in the table for further work with the system, press **Save** button;

5. Click on **Ok** in order to close the dialog window.

For editing of %toClose field open **Formula wizard**. Select **MICEX Corp. - Last Quotes (NI)** menu. Click twice on %toClose formula name in **Expressions** section. Make changes in **Expressions** formula row, press **Change**. Save the formula by clicking **Save** and **Ok**.

Note: calculated fields do not support sorting.

Composite table examination by basis contract option

The system NetInvestor gives a client an opportunity to watch composite information on a chosen basis contract option.

At his workplace an administrator (Subadministrator) of the system forms basis (See manual "Administration module").

For viewing:

1. Select **NetInvestor, Options** menu (See Pic. 13);
2. Choose a name of a basis contract from "Choose basis" dialog window and press **Choose**.



Pic. 13

Options, basis: EERU-3.07, expiration: 12.03.2007													
Open position	unover (item)	ast size (item)	Last	Bid	Ask	Strike	Bid	Ask	Last	ast size (item)	unover (item)	Open position	
0	0	0	0	0	0	15000	0	0	0	0	0	0	0
0	0	0	0	0	0	16000	0	0	0	0	0	0	0
0	0	0	0	0	0	17000	0	0	0	0	0	0	0
0	0	0	0	0	0	18000	0	0	0	0	0	0	0
0	0	0	0	0	0	19000	0	0	0	0	0	0	0
0	0	0	0	0	0	20000	0	0	0	0	0	0	0
0	0	0	0	0	0	21000	0	0	0	0	0	0	0
0	0	0	0	0	0	22000	3	0	0	0	0	0	0
0	0	0	0	0	0	23000	4	15	4	5	7	0	0
10	0	0	0	0	0	24000	7	15	7	1	13	0	0
32	0	0	0	3001	10007	25000	0	0	0	0	0	32	0
4	0	0	0	3001	9287	26000	7	20	0	0	0	2	0
32	0	0	0	3001	6200	27000	6	25	0	0	0	64	0
6	0	0	0	3882	6998	28000	10	50	50	1	1	68	0
810	24	2	4100	2888	0	29000	25	50	50	3	3	2	0
62	0	0	0	2080	3900	30000	30	70	70	25	35	370	0
28	2	2	2000	2000	2200	31000	101	180	120	51	51	194	0
8	20	20	1200	500	2771	32000	288	349	309	5	102	200	0
854	805	6	770	720	742	33000	706	760	730	20	2366	854	0
120	53	1	384	353	393	34000	301	2000	0	0	0	0	0
18	21	10	210	205	250	35000	0	0	0	0	0	0	0
PTC CRK						EESR	0	0	0	0	0	0	0
MMB5						EESR	0	0	0	0	0	0	0
FORTS						EERU-3.07	32981	32990	32980	21	73679	3146	0

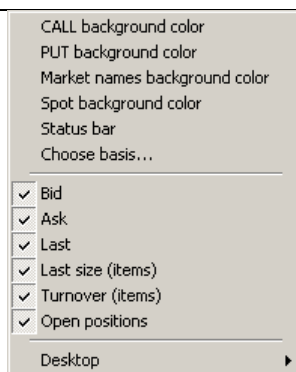
Pic. 14

There are futures contract options "CALL" on the left table side (orange area) (See Pic. 14).

There are futures contract options "PUT" on the right table side (brown area).

There are data from FORTS, MICEX, RTS on a chosen ticker in grey rows of the table bottom. These data are transferred from tables FORTS (futures) - Last Quotes (NI); MICEX Corp. - Last quotes (NI); RTS - Last Quotes (NI).

For table adjustment open the context menu clicking right mouse button on any table field. (See Pic. 15).



Pic. 15

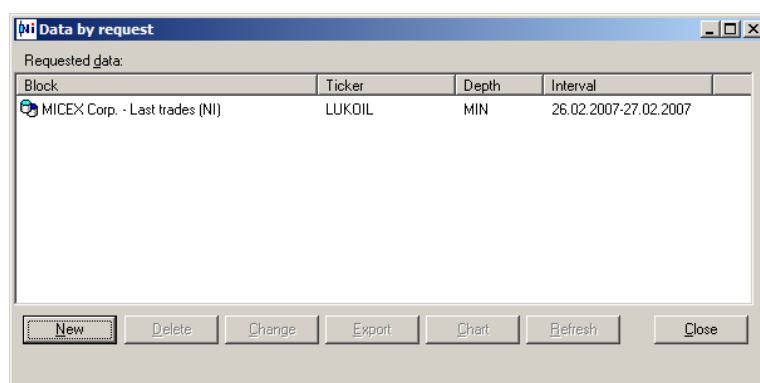
Set a desired color of the table areas by selecting a corresponding menu item from the first block. In order to define which data will be displayed in table columns, select menu items from the second block.

Data requesting and displaying for the necessary period

If Broker has NetInvestor Archival server, at any moment the user can request historical data by a ticker or his own trade operations for a chosen period, watch through the assorted data in a tabulated or graphic view.

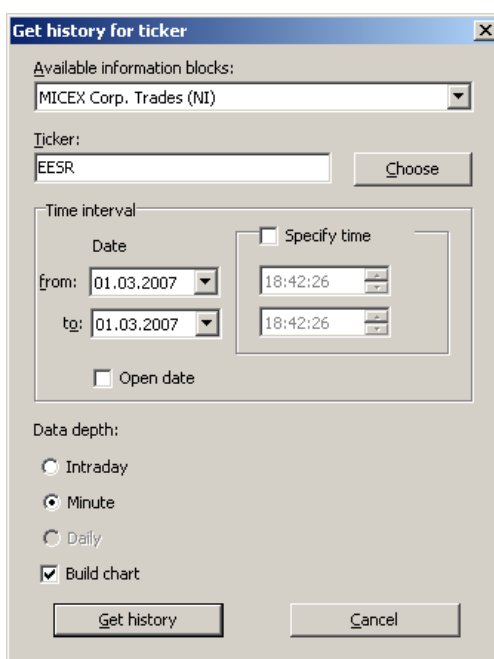
User's request for trade session data

1. Choose **Tools, Data on demand, Data on demand** menu (See Pic. 16);



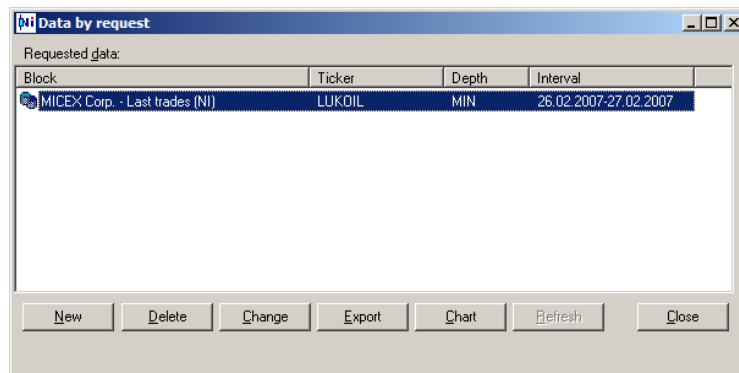
Pic. 16

2. Press **New** in order to form a new request (See Pic. 17);



Pic. 17

3. Choose from **Available information blocks** list a name of an informational block;
4. Press **Choose** button in order to fill in **Ticker** box and select a ticker from the list;
5. Set the **Time interval** in **Date from: to:** blocks;
6. If necessary, select **Specify time** checkbox and choose time for interval dates set in the step 5;
7. If necessary, select **Open date** checkbox. In this case a final date and a period time will be current; i.e. the chart will be added with the current day data.
8. Choose period of data presentation by switching **Data depth** block options:
 - *Intraday* – all ticker parameter changes;
 - *Minute* – ticker parameter change history with 1 minute periodicity;
 - *Daily* – ticker parameter value history represented by daily blocks.
9. **Build chart** checkbox is set by default;
10. Press **Get history** button.
 - If on the previous step **Build chart** checkbox was active, there will appear “Chart” window for a chart construction parameter choice (See Pic. 48). Further work with the chart is described on page 36.
 - If on the previous step **Build chart** checkbox was inactive, the request made will be displayed in “Requested data” table (See Pic. 18).



Pic. 18

Request list composition

Repeat from 1 to 10 steps in order to make requests on another ticker. So you will composite request list.

Request removal from a list

1. Select a request row in “Requested data” dialog window;
2. Press **Delete**.

Request editing from a list

1. Select a request row in the “Requested data” dialog window;
2. Press **Change**;
3. Make necessary changes in fields of “Get history for ticker” window (See Pic. 17);
4. Press **Get history**.

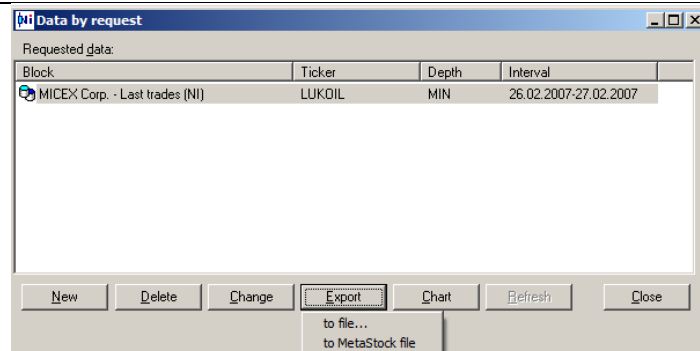
Request elaboration

Request data could be depicted as a chart:

1. Select a request row in “Data by request” dialog window (See Pic. 18);
2. Click on **Chart** button in order to requested data be represented graphically. The further steps of a chart construction are described in “Chart construction” section, page. 36.

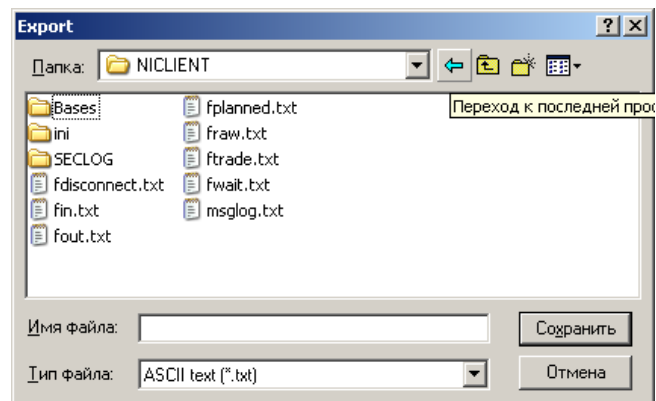
Requested data could be exported to a text file or Metastock program file:

1. Select a request row in “Data by request” dialog window (See Pic. 19);
2. Press **Export** button and choose from the menu:



Pic. 19

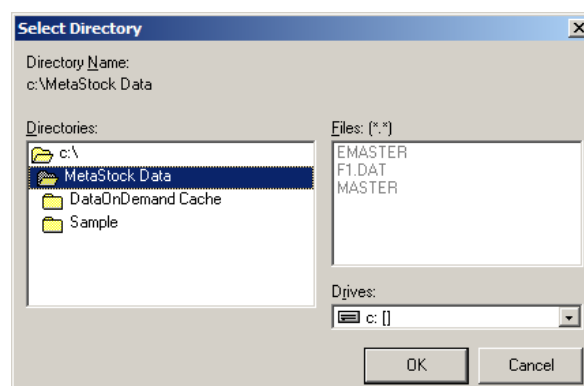
- **to file...** “Export” dialog window will appear which is represented on Pic. 20. Choose a directory in order to the file be saved in ASCII text (*.txt) format;



Pic. 20

- **to Metastock file...** - “Select Directory” window for a choice of a directory of data storage in Metastock format will be opened (See Pic. 21). This menu item will be active, if a chosen on the 1 step ticker is in the list of tickers exported.

Furthermore the exported to Metastock format requested data can be used for addition to the data available. That enables to make a full history by a ticker for the needed period. For more details see “Data export to MetaStock Professional program” section, page 53.



Pic. 21

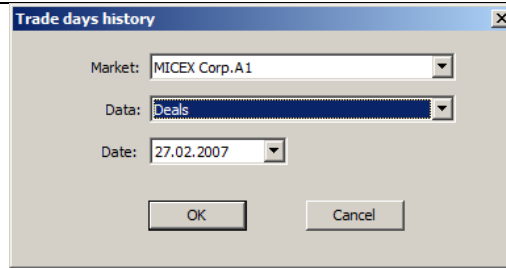
Request work ending

Click on **Close** in “Data by request” window (See Pic. 18) for request work ending.

Note: The information on created in the current work session requests will be kept in “Data by request” window further. At next window opening new requests will be added to the list bottom by clicking **New**.

Request for history of user's own trade operations on a concrete date

1. Select **Tools, Data on demand, My operations** menu (See Pic. 22);



Pic. 22

2. Choose from **Market** list a name of a market;
3. Choose from **Data** list a name of a trade table;
4. Specify a date on which you would like to receive history;
5. Press **OK** (See Pic. 23).

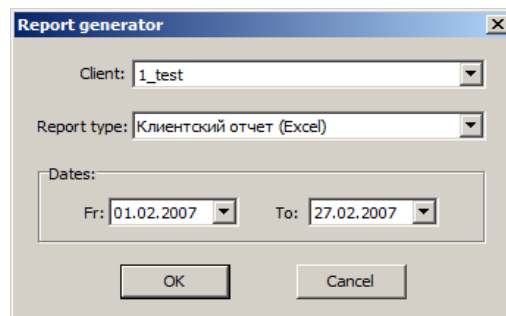
Client	Order No	Short name	Direction	Price	Size	Volume	Time	Date	Ticker name	Deal No	System	Trade board	Client	Accrued
123	159,862	Tatnft 3ao	Buy	120.471	1	481.88	13:48:50	27.02.2007	RU14TATN	78,043	To exchange	MICEX Corp.	123/123	
123	159,830	Tatnft 3ao	Buy	120.471	1	120.47	13:48:40	27.02.2007	RU14TATN	78,029	To exchange	MICEX Corp.	123/123	
123	159,801	Tatnft 3ao	Buy	120.471	1	120.47	13:48:34	27.02.2007	RU14TATN	78,015	To exchange	MICEX Corp.	123/123	
123	103,293	Rostel -ao	Buy	214.9	50	10,745	12:02:46	27.02.2007	RTKM	50,913	To exchange	MICEX Corp.	123/123	
123	54,504	Rostel -ao	Buy	219	10	2,190	11:06:43	27.02.2007	RTKM	26,670	To exchange	MICEX Corp.	123/123	
123	39,840	RAO EES	Buy	33.168	10	33,168	10:56:00	27.02.2007	EESR	19,343	To exchange	MICEX Corp.	123/123	

Pic. 23

Report reception

If Broker has NetInvestor Archival server and NetInvestor Report server, a user can request and receive various reports for a selected period of time.

1. Select **Tools, Reports** menu (See Pic. 24);



Pic. 24


2. Choose a client for data request from the list;
3. Choose the needed from **Report type** list;
4. Specify the period in **Dates Fr: To:** for data request;
5. Press **OK**.

Placing a trade order

You can create a new order through any of the below listed methods:

Method 1



1. Select **NetInvestor, New order** menu or click on  - "New order" on the control panel, or press **F2** button on the keyboard (See Pic. 25).
2. Press **More <<**. Groupbox check-boxes are checked by default for most typical orders. Examine them and adjust settings, if needed.

Pic. 25


Method 2

Left mouse button click twice on an order in “Orderbooks” table window. There will be opened a window for new order entering. Window elements are already filled with the data from a selected counter order. (See Pic. 25).

Method 3



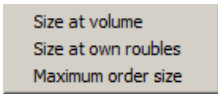
1. Right mouse button click on an order in “Orderbooks” table window.
2. In the appeared context menu select **Set order at** item. There will be opened a dialog window for new order entering. Window elements are already filled with the data from a selected counter order. (See Pic. 25).

Method 4

It is possible to send an order through “User orders” table with the help of  - “Send order” on the table control panel or with the help of the context menu, “New order” subitem (See «How to cancel or edit an already sent order» unit), or by pressing **F2**.

Fill in an order being guided by window element descriptions in the following table

Element	Description
Market	Market for trade operations.
User	User’s name.
ID	User’s identificator.
Account	User’s trading account.
Ticker	The ticker for order to be sent. Note: Ticker exchange code and amount of securities in a lot are displayed on the caption bar after the ticker is chosen.

Send	<p>Choose from the list where to send an order:</p> <p>To system – an order will be sent to the exchange trading system;</p> <p>To trader - an order will be sent to Broker's workplace with "Received" status. Broker can execute the order at his own expense or resend it to the trading system.</p> <p>Note: any way an order will be sent to "User orders" window.</p>
Price	<p>Buy or sell price of a chosen ticker.</p> <p>Note: The number of decimals is defined by transferred by an exchange "minimum price step" parameter value.</p>
Size	Order size in lots.
	Clicking on the icon you will block the value change of Size field.
 	<p>A click on the icon opens a list of conditions for "Maximum allowed value" function. The function allows to automatically calculate the order volume in lots for trade operation execution depending on list condition selected:</p> <ul style="list-style-type: none"> - "Size at volume" – buy/sell a chosen ticker for a certain sum specified in "Order volume" field; - "Size at own roubles" – buy a chosen ticker for all user's money resources, sell a number of chosen tickers in volume equal to user's own money resources; - "Maximum order size" - buy/sell maximal number of chosen tickers taking into consideration a credit, active orders, marginal operations allowed, marginal list parameters, liquidity ratio. <p>Note: The function enables approximate estimation of operation volume because of price changing between the moment of order input and the moment of order estimation. Besides, stock exchange and broker commission is not taken into account in calculation.</p>
Direction:	<p>Buy – green color.</p> <p>Sell – red color. The button can also be switched by "Space" button on the keyboard.</p>
Use margin credit	Select the checkbox in order to use a marginal credit. In this case before order sending NetInvestor system checks the client limits taking into account a provided credit, if any exists.
Plan.margin	Represents a planned level of actual margin after the being sent order executed.
Order type	<p>Select Order type checkbox:</p> <p>Market – An order will be executed at the best countervalue. In this case Market item will be displayed in "Price" field, i.e. the field will be unavailable for entering;</p> <p>Limit – an order will be executed at the entered price. If order price will be lower, than the best countervalue, the order will be executed at the best countervalue. For example, if the lowest sell price amounts 3.5 roubles, nevertheless the sent limited buy order for 3.6 roubles will be executed for 3.5 roubles. In fact, the system "takes care" of you and prevents you from making mistakes.</p>
Execution term	<p>Choose order execution condition:</p> <p>Allow split (of price);</p> <p>No split (of price) – only for limited orders.</p> <p>Note: In case an order can not be executed in full volume, order remainder will be executed in accordance with the Condition of remainder execution (See further).</p>
Remainder execution	<p>Choose order remainder condition, in case an order can not be executed in full volume:</p> <p>Set to queue – unexecuted remainder will be set to queue for price that depends</p>

	on order type, i.e. for order price (Limit type) or the next best price (Market type); Cancel remainder – unexecuted remainder will be cancelled from order queue (is executed only for limited orders); All or none – an order must be executed in full volume, otherwise cancelled.
To package Button	Click on To package button in order to move an order to a package (See «Order package formation. Work with packages» unit). Chose a package name from the list to add the order.

Note: “New order” window (Pic.13) changes its appearance depending on market features.

How to send an order quickly?

As market situation can sometimes change within several seconds, the system is developed so that you can send an order as quick as possible.

Follow the recommendations:

1. Use “Orderbooks” table window. By double click select a counter quote, the price for which is acceptable for you;
2. Look through the set items in **Direction**, **Price**, **Size** fields in “New order” window and check they are correct. Thus the cursor is in **Size** box located already. This allows quick correcting data (cursor location by default and window field passage order by **Tab** button can be adjusted in **Files**, **Options**, **Trading** menu – page.48);
3. Enter figures using num pad that is located on the right keyboard side and becomes active with **NumLock** button switched on;
4. Send an order to the system: press **Enter** located on the num pad.

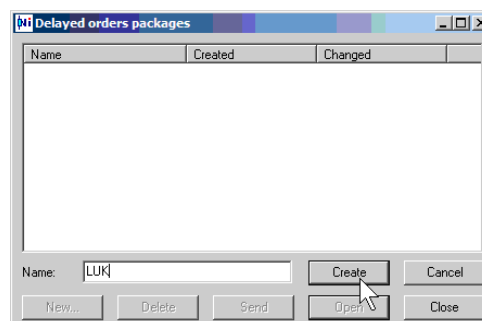
Note: all order conditions by default are already chosen for auto-enter order execution.

Order package formation. Work with packages

Before trade session beginning a user can analyze security closing prices for the previous trading day and beforehand create an order group to send it according to current situation after the session begins. For this purpose the system allows to use “Delayed order packages” tool.

Order package definition

1. Select **NetInvestor**, **Order Packages** main window menu.
2. Click on **New...** button in “Delayed order packages”, enter a package name in **Name** field.
3. Click on **Create** (See Pic. 26).



Pic. 26

4. Repeat from 1 to 3 steps for a next new package, if necessary.

Placing a new order to package

Method I

1. As soon as filling of “New order” blank will be completed (See Pic. 25), click on **To package**.
2. From the list in “Delayed order packages” dialog window choose a package name for order placing.
3. Press **OK**.

Method II

Choose an earlier created package and add a new order there:

1. Select **NetInvestor**, **Order Packages** main window menu items;
2. From the package list in “Delayed order packages” dialog window choose a package;
3. Press **Open**.

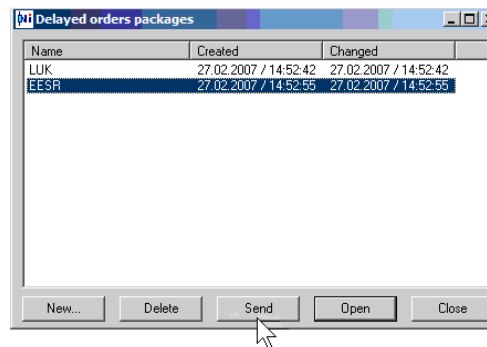
Click on **Add** button in “Delayed order packages– [Package name]”.

The form for a new order filling will be opened. Fill in an order and click on **To package**...

As a result a group of orders to send will be collected in a package.

Package sending to the System

1. Choose **NetInvestor, Order Packages** menu of the main window;
2. Mark with the cursor a package from the package list in “Delayed order packages” window;
3. Press **Send** (See Pic. 27).



Pic. 27

Work with order package


1. Choose **NetInvestor, Order Packages** menu of the main window;
2. Mark with the cursor a package from the package list in “Delayed order packages” window
 - Choose a button:
 - Delete** – a package will be removed from the list;
 - New** - enter a package name in **New** field and click on **Create** in order to create a new order package;
 - Open** – “Delayed order packages– [Package name]” window with order list will appear.











Order edition in a package

In “Delayed order packages– [Package name]” window click on needed:

- Add** – a new order blank will be opened for data filling in and placement to a chosen package;
- Edit** - a new order blank will be opened for data changing;
- Delete** – the selected order will be removed;
- Delete all** – all the package orders will be removed;
- Send** – the selected order will be sent to the system;
- Send all** – all orders will be sent to the system.

Looking through sent orders for a current day

- Select **NetInvestor, Orders** menu and click on  - “Orders” on the main window control panel. “User orders” table will be opened (See Pic. 28).

User orders [ira2], market [MICEX Corp.A1]															
<div></div>															
Client	Status	Short name	Direction	Price	Size	Volume	Remainde...	Remainde...	Order type	Execution ...	Remainde...	▲ Time	Date	Order No	Client
ira2	Active	RAO EES	Sell	32.879000		1 3,287.90	1	3,287.90	Limit	No price split	Set to queue	15:57:43	27.02.2007	243,948	ira2/ira2
ira2	Active	LUKOIL	Buy	138.250000		1 2,138.25	1	2,138.25	Limit	No price split	Set to queue	15:57:35	27.02.2007	243,876	ira2/ira2
ira2	Cancelled	RAO EES	Buy	32.479000		1 3,247.90	1	3,247.90	Limit	No price split	Set to queue	15:57:00	27.02.2007	243,600	ira2/ira2
ira2	Executed	RAO EES	Buy	32.510000		1 3,251.00	0	0.00	Limit	No price split	Set to queue	15:51:55	27.02.2007	240,865	ira2/ira2
In bids(RUR)				In asks(RUR)											
TOTAL: 2,138.25				3,287.90											

Pic. 28

User orders table data

Field	Description
Client	Client's name on whose behalf an order is sent.
Status	<p>Current status of client's order:</p> <p>Received – means an order had been accepted for execution, but order registration reply has not arrived yet, or an order is accepted by the system, if it was sent “to trader”;</p> <p>Sent – an order has been sent to stock exchange and the system is waiting for it's status information;</p>

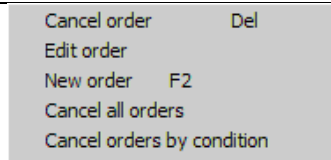
	<p>Active – an order is set to queue;</p> <p>Part. executed – an order is executed partly;</p> <p>Executed – an order is executed in full volume;</p> <p>Executing... – an order is blocked for execution by a broker or trader;</p> <p>Cancelled – client's order which has been cancelled by him or his broker before full execution, or which is being cancelled by stock exchange because of execution impossibility (for "Market" and "Counter" orders because of counter order absence);</p> <p>Declined by exchange – an order was sent with "All or none" condition and couldn't be executed by stock exchange, thus is cancelled (only for MICEX);</p> <p>Execution error – order parameters don't meet stock exchange trading system requirements;</p> <p>Declined by broker – an order sent "to trader" is cancelled by him.</p> <p>Cancel! – a request to cancel an order of "To trader" type was sent.</p>
Short name	A ticker by which an order is sent.
Direction	Order direction (Buy/Sell).
Price	Order price.
Size	Order size in lots.
Volume	Order size in roubles.
Remainder size	Unexecuted remainder size in lots at a current moment.
Remainder volume	Unexecuted remainder volume in roubles.
Order type	Order type (Market/Limit).
Execution term	Order execution condition (Allow split /No split).
Remainder exec.term	Execution condition of order remainder (Set to queue/Cancel remainder/All or none).
Time	Time of order registration by the trading system.
Date	Order registration date.
Order No	Order number assigned by the trading system.
ID	Identifier of a client on whose behalf an order is sent.
System	Order sending condition (To system/to trader).
Trade board	Abbreviation of the Market to which an order is sent.
Accrued interest	Sum of accumulated coupon yield (for bonds).
Yield	Bond profitability.
Sender	Code of a client who sent an order. (In case order sending was carried out by a broker on behalf of his client, a code of the sub-broker will be displayed in this field)
Account	Account of a client on whose behalf an order is sent.
Total bought (RUR)	Total buy remainder volume in roubles.
Total sold (RUR)	Total sell remainder volume in roubles.

How to cancel or edit an already sent order?

ATTN!!

You can cancel or edit only active or partially executed orders.




- Click right mouse button on a row with the order should be edited in "Orders" dialog window and choose a needed item of the appeared context menu (See Pic. 29).



Pic. 29

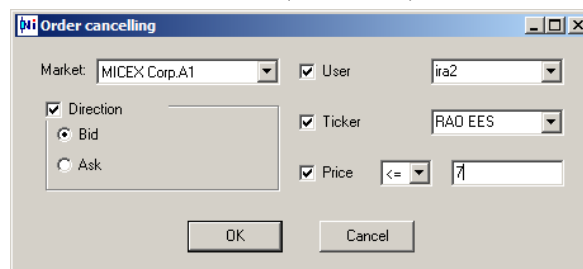
- **Cancel order** or press **Del** button – a chosen order will be cancelled;
- **Cancel all orders** – all orders in “Active” status will be cancelled.
- **Cancel all orders by condition** – activates “Order canceling” dialog window. Fill in the fields of “Order canceling” window being guided by directions described in “Cancellation of an order by condition” (See стр. 22).
- **Edit order** – activates “New order” dialog window that is filled with parameters of an edited order. After making changes send the edited order.
- **New order** or press **F2** button - “New order” dialog window becomes active. Window elements are already filled with a chosen order data.

Note 1: At the moment of **Edit order** item selection an original order is cancelled.

Note 2: In the right side of the control panel there are buttons providing  - “Send order”,  - “Edit order” and  - “Cancel order” functions.

Cancellation of an order by condition

- Choose **NetInvestor, Cancel orders** menu.
Select by which conditions orders are to be cancelled (See Pic. 30)



Pic. 30

Example: Buy orders by “RAO EES” ticker for the price smaller than 7 roubles are to be cancelled for a client named Vas.

Fill in being guided by window element descriptions in the following table

Elements	Description
Market	Choose market name from the list.
User	Choose user's name from the list.
Direction	Select a checkbox: Ask – cancel a buy order; Bid – cancel a sell order.
Ticker	Choose a ticker name – orders will be cancelled by the chosen ticker.
Price	Choose from the list a condition under which orders will be cancelled. Specify for which price orders will be cancelled.


Note: If **User**, **Ticker**, **Price** checkboxes are not selected, it means the orders will be cancelled by all values of the element.

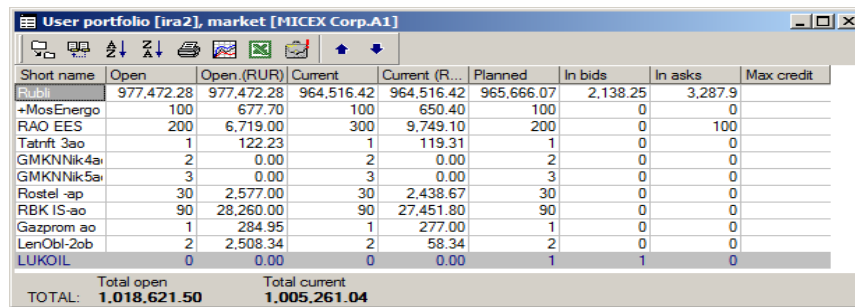
Portfolio and margin status lookup

Trader's portfolio contains information on his tickers and money amount. If the Client takes on Broker's credit sums of money and/or other assets, the Portfolio will be created with participation of the Broker's assets¹.

Portfolio status renewal takes place during a trade session: it's assets re-estimation in consideration of client's orders and deals.

¹ A Broker has the right to define maximal permissible credit value and limit margin level, form restrictions and ticker lists, according to which a Client is authorized to buy/sell using credit recourses.

Choose **NetInvestor, Portfolio** menu or click on  - “Portfolio” on the control panel of the program main window. “User portfolio” window will be opened. (See Pic. 31).




Short name	Open	Open (RUR)	Current	Current (RUR)	Planned	In bids	In asks	Max credit
Rubli	977,472.28	977,472.28	964,516.42	964,516.42	965,666.07	2,138.25	3,287.9	
+MosEnerg	100	677.70	100	650.40	100	0	0	
RAO EES	200	6,719.00	300	9,749.10	200	0	100	
Tatnft 3ao	1	122.23	1	119.31	1	0	0	
GMKN Nik4a	2	0.00	2	0.00	2	0	0	
GMKN Nik5a	3	0.00	3	0.00	3	0	0	
Rostel -ap	30	2,577.00	30	2,438.67	30	0	0	
RBK IS-ao	90	28,260.00	90	27,451.80	90	0	0	
Gazprom ao	1	284.95	1	277.00	1	0	0	
LerObl-2ob	2	2,508.34	2	58.34	2	0	0	
LUKOIL	0	0.00	0	0.00	1	1	0	
TOTAL:	Total open	1,018,621.50	Total current	1,005,261.04				

Pic. 31

Portfolio table data

Field	Description
Short name	Monetary resources and bonds included in client's portfolio.
Open	Numerical value of client's assets including roubles and bonds (in lots) at the beginning of trades.
Open. (RUR)	Assets cost in roubles at the beginning of trades.
Current	Numerical estimation of tickers to the current moment.
Current (RUR)	Ticker estimation in roubles to the current moment.
Planned	Numerical value of tickers in respect of active orders by the ticker.
Planned (RUR)	Ticker estimation in roubles in respect of active orders.
In asks	Volume of buy orders by the ticker in lots.
In asks (RUR)	Volume of buy orders by the ticker in roubles (for order price).
In bids	Volume of sell orders by the ticker in lots.
In bids (RUR)	Volume of sell orders by the ticker in roubles (for order price).
Netto	Difference between a current portfolio volume and it's volume after all order executions. The difference for bonds is depicted in lots.
Max credit	Maximal volume of an order by the ticker.
Total open	Portfolio overall value in roubles to the beginning of trades.
Total current	Portfolio current value in roubles.
Total planned	Portfolio planned cost in roubles in respect of orders.


How to evaluate a portfolio

By clicking on  - “Value by market” values of fields **Current (RUR)** and **Planned (RUR)** in the window can be re-estimated in accordance with current market prices.

Note: You can set an automatic portfolio re-estimation mode over a specified interval of time with the help of **Files, Options, Trading** menu (See pg. 48). By default portfolio market evaluation mode in “Trading” Tab is set to “Manually” – this way recalculation starts by user clicking the button.)

Current margin lookup

In order to check Client's bonds and assets ratio the system provides a user with data on the current margin.

- Choose **NetInvestor, Current margin** menu or click on  - “Current margin” on the control panel of the program main window (See Pic. 32).

The screenshot shows a window titled 'User current margin level [ira2], market [MICEX Corp.A1]'. It contains a table with the following data:


Client name	Current	Current (RUR)	Loaned sh...	Loaned R...	Current m...	Guarantee...	Margin pro...	Max margi...	Margin limit	Intraday c...	Overnight ...	Portf. liquid...	Risk guar...
ira2	10,031.76	2,034,871.09	969,827.25	0.00	100.00	5,533,677.14	2.000000	754.660000	50.000000	0.00	9,698.27	1,779,123.68	

Pic. 32

Current margin table data

Field	Description
Client name	Client's name.
Current	Current longs by bonds in roubles in accordance with Broker's expert estimate of their liquidity and with the list of tickers accepted as collateral.
Current (RUR)	Sum of rouble assets in Client's portfolio.
Loaned shares (RUR)	Client's debt by bonds in roubles adjusted for Broker's risk.
Loaned RUR	Client's debt by roubles.
Current margin	Current actual margin value (in per cents).
Guarantee size	Sum of money provided by a client for guaranteeing loan obligations that are a result of marginal deals.
Margin proportion	Maximal permissible credit value.
Max margin proportion	Current maximal available credit recourse value in roubles.
Margin limit	Marginal level in per cent. In case of its excess Client will receive a request on additional cover deposition from Broker.
Portf. liquidation value	Client's portfolio cost in roubles in case of portfolio liquidation ² .
Risk guarant.	Client's portfolio estimation in respect of open position risks. The estimation is carried out on the base of risk-benefit ratio set by Broker.
Intraday commission	Commission sum for credit recourse usage during a trading day. It is being calculated by interest rate from Client's maximal day debt.
Overnight commission	Commission sum for credit recourse usage in case of position transfer to the next day. It is being calculated by interest rate from Client's debt at the transfer moment.
Current proport. margin	Volume of the current used margin.
R2	Specification of the maximum permissible by Broker size of Client's debts.
Current debt	Debt by bonds (in roubles) + Debt by roubles.
Total current	Current bond positions (in roubles)+ Current positions by roubles.
Current capital	Assets – Current debts
Discount	The volume measured in percentabe, established in the contract with the client.

Order lookup for a trading day

- Choose **NetInvestor, Trades** menu or click on  - "Deals" on the control panel of the main program window (See Pic. 33).

² i.e. estimation of all Client's positions that takes into account prices and volumes of each counter ask/bid on the market by the ticker at the moment.

User trades [ira2], market [MICEX Corp.A1]												
Client	Order No	Short name	Direction	Price	Size	Volume	Time	Date	Ticker name	Deal No	System	Trade board
ira2	258,241	RAO EES	Buy	32.528000		1	3,252.80	16:26:49	27.02.2007	EESR	126,185	To exchange
ira2	240,865	RAO EES	Buy	32.510000		1	3,251.00	15:53:55	27.02.2007	EESR	118,541	To exchange
Bought			Sold		Volume		Commission					
TOTAL: 6,503.80			0.00		6,503.80		11.70					

Pic. 33

Deals table data

Field	Description
Order No	Order number, on which a deal is carried out.
Short name	Ticker name.
Direction	Deal direction (Buy/Sell).
Price	Deal price.
Size	Deal size in lots.
Size (RUR)	Deal size in roubles.
Exchange commission	Stock exchange commission in roubles.
Accrued interest	Accumulated coupon income (for bonds).
Time	Time the deal was carried out.
Date	Date the deal was carried out.
Deal No	Exchange or system deal number.
System	Order sending condition (To system /To trader).
Trade board	Abbreviation of the market, the deal was carried out in.
Client	Identificator of the client on whose behalf the deal was carried out.
Yield	Yield (for bonds).
Total Bought	Buy volume for the current day.
Total Sold	Sell volume for the current day.
Total Volume (RUR)	Total turnover.
Total Commission (RUR)	Exchange and broker commission for the current day.

Stop-loss and alert setting**What is stop-loss?**

Stop-loss (Stop price specifying) is loss fixation, i.e. preventing from losses. For example, an investor, buying 1000 shares at 3 roubles a share, is going to sell them at more than 3 roubles. However the market can move on undesired direction and it is possible, that he would be forced to sell his shares at the price lower than 3 roubles. As a rule, the investor determines some price volume (for instance, 2 roubles 75 kopecks). In case the market achieves it, he will sell his shares at this price in order to minimize losses.

“Stop-loss” tool of NetInvestor system is called to assist in market situation monitoring and reacting in critical moments.

How does stop-loss work in NetInvestor system?

Stop-loss for NetInvestor system is a usual buy/sell order, which, however, is formed and sent to Broker's server beforehand. When price of the last ticker deal on the stock exchange achieves a value equal to the specified stop-price, the order goes to stock trading system.

What is alert?

An investor, monitoring market situation, often needs to know precisely the time, when the shares of his interest cross a certain price level. For automation of the procedure of keeping a close watch on such situations NetInvestor Client 5.0 has an alert tool.

How does alert work in NetInvestor system?

When the price of a chosen ticker last deal achieves alert value specified in an alert order earlier, Client hears an alert.

Note: For alert ending click twice on a blinking exclamation sign on the program status panel.

Stop-loss order filling rules

- Choose **NetInvestor, New stop-loss alert** menu (See Pic. 34).

The window contains several input boxes and checkboxes determining stop-loss type.

Pic. 34

Fill in a stop-loss order being guided by the following descriptions


Element	Description
Condition	<ul style="list-style-type: none"> – If margin limit is crossed (See “Marginal limit” on pg. 24); – If particular margin level is crossed; – If at market {choose from the list} ticker {choose from the list} reaches: <ul style="list-style-type: none"> A) price level <i>higher</i> [specify numerical value] in case of <i>Bid</i>, an order with specified in “Send new order” block parameters will be formed and sent to the stock; B) price level <i>lower</i> [specify numerical value] in case of <i>Offer</i>, an order with specified in “Send new order” block parameters will be formed and sent to the stock.

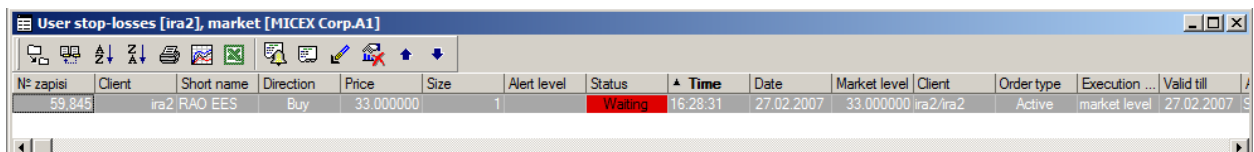
“Send new order” group	
Market	The Market, on which a stop-loss order is to be sent.
User	User’s name.
Account	User’s trading account on a chosen market.
Ticker	A ticker, on which a stop-loss order is to be sent.
Name and Lot size	Advisory fields display the ticker code and lot size.
Direction	Stop-loss order direction. (<i>Bid/Offer</i>).
Price / Market	Order will be executed at different prices consistently beginning from the current “best” counter price on the moment of stop-loss response.
Price / Limit	Order will be executed at the price entered.
Price	A price, at which an automatic order will be sent to the stock trading system (the field is unavailable if price is of Market type).
Size	Order size in lots.
Use margin credit	Select the checkbox in order to use marginal credit at stop-loss sending.
Valid till (including)	Select the checkbox and enter a date till which (including the date) stop-loss order will be active.

Note 1: At sending to the trading system stop-loss orders always have **Allow split** execution term and **Set to queue** remainder execution term by default.

Note 2: You can set a stop-loss from the context menu of the table “User stop-losses” (See «How to send a stop-loss order quickly?» unit, pg. 28) or by clicking on  - “Send stop-loss” on the same table panel.

Sent stop-losses lookup

- Choose **NetInvestor, Stop-losses** menu or click on  - “Stop-losses and alerts” on the main window control panel.



N° zapisi	Client	Short name	Direction	Price	Size	Alert level	Status	Time	Date	Market level	Client	Order type	Execution ...	Valid till
59.845	ira2	RAO EES	Buy	33.000000	1		Waiting	16:28:31	27.02.2007	33.000000	ira2/ira2	Active	market level	27.02.2007

Pic. 35


Stop-loss positions table data

Element	Description
Client	Identificator of the client on whose behalf a stop-loss order is to be sent.
Ticker	Ticker name in a condition a user defines for stop-loss/alert sending (See Pic. 35 and condition description above).
Direction	Alert or order direction (bid/offer).
Price	A price on which a stop-loss order is to be automatically sent to the stock trading system (in case of a limit order).
Size	Order size in lots.
Alert level	A price of the last stock deal by a chosen ticker, at excess of which an alert rings.

Status	Current client's order status: <i>Sent</i> – an order is successfully sent to the stock; <i>Waiting</i> – stop-loss/alert is waiting for specified condition execution; <i>Cancelled</i> – an order is cancelled by the user (see further); <i>Attention!</i> – an alert is activated; <i>Execution error</i> – at specified condition approach a formed order didn't pass through the check of client's limits and wasn't sent to the stock trading system.
Time	Time of stop-loss/alert creation/modification.
Date	Date of stop-loss/alert creation/modification.
Market level	A price of the last stock deal by a chosen ticker, at approach of which an order is to be sent to the stock trading system.
Access to cancel	Makes it possible to cancel a stop-loss by a client (defines by a broker). In case the stop-loss was sent by the client, the field is not to be filled.
Condition	"If market limit crossed" - At excess of the marginal permissible volume. "If particular margin level is crossed" - At excess of the marginal specified volume. "If at market" - At excess of </> or = price level.
Valid till	In case order/alert activation conditions do not approach at the current trades, an order/alert will be transferred to the next trading session daily, till the specified date comes (inclusive).
Use margin	"Yes" – in case of marginal credit usage; "No" - in case of marginal credit non-usage;
Order by market	Market to which stop-loss order/alert is to be sent on condition execution. Thus a user gets an opportunity to take into account ticker quotes on a market in order to place a stop-loss order on another ticker.
Order by instrument	A ticker on which stop-loss order/alert is to be sent to a market chosen in "Order by market".

How to send a stop-loss order quickly?

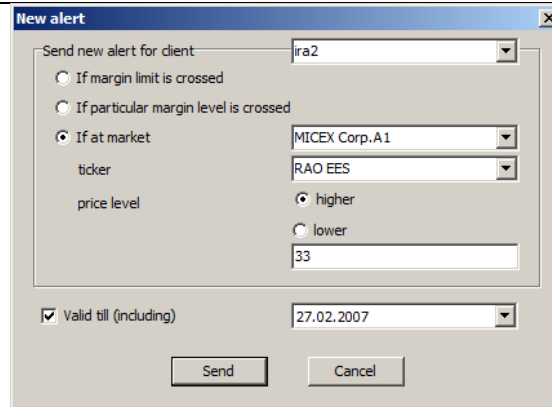
Follow the below listed directions:

1. Open "User stop-losses" window (See Pic. 35);
2. Set the cursor on the row of a stop-loss order, the data of which you would like to use in a new one;
3. Click right mouse button and choose "New stop-loss/alert" from the context menu or click on the icon  - "Send stop-loss/alert" on the table panel;
4. Make sure the set items in **Ticker**, **Direction**, **Price** and **Lot size** fields in "New stop-loss" window are correct;
5. Enter the figures with the help of numpad that is on the right keyboard side and can be activated by pressing **NumLock** key;
6. Send a stop-loss to the system: press **Enter** that is on the same numpad.

How to set an alert?

Click right mouse button on the row of an order to set an alert in "User stop-losses" window (See «Sent stop-losses lookupSent stop-losses lookupSent stop-losses lookup» unit, pg. 27) and choose from the context menu first block **Send new alert** item.

Select checkboxes and fill in the fields of "New alert" dialog window (See Pic. 36) being guided by the similar data description of stop-loss window shown on page 26.



Pic. 36

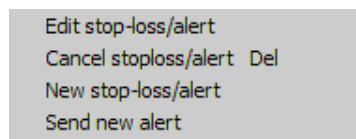
You can examine the list of alerts in “User stop-losses” table (See Pic. 35). “Alert level” column shows the last deal price on a market by a chosen ticker, on reaching which the alert beeps.

How to cancel or edit a sent stop-loss order?

ATTN!!

You can cancel or edit a stop-loss order only in “Waiting” status!!

Click right mouse button on the row of the order to be cancelled or edited in “User stop-losses” window (See «Sent stop-losses lookup» unit, pg. 27) and choose from the context menu first block a corresponding item (See Pic. 37). The other context menu items are described in «Table adjustment» unit, pg. 32.







Pic. 37

Choose an item:

- **Edit stop-loss/alert** – activates stop-loss order entering window, filled with parameters of the order edited. After change making send the edited stop-loss order;
- **Cancel stop-loss/alert** – the selected stop-loss order will be cancelled;
- **New stop-loss/alert** - activates stop-loss order entering window (See «Stop-loss order filling rules» unit, pg. 26).

Note 1: At the moment of **Edit stop-loss/alert** item selection the original stop-loss order is cancelled, so it goes into **Cancelled** status.

Note 2: In the right side of the control panel “User stop-losses” window there are buttons providing  - “Send stop-loss”,  - “Create alert”,  - “Edit stop-loss/alert” and  - “Cancel stop-loss/alert” functions.

Take-profit setting

What is take-profit?

Take-profit is profit fixation. For example, an investor, buying 1000 shares at 3 roubles per share, is going to sell them for not less than 4 roubles. It is very important for him to send a sell order to the stock trading system at the most favorable moment in respect of chameleonic market situation. The investor determines some price level (named Activation price). In case the market achieves it (inclusive of specified deflection percentabe), his shares will be sold at this price or higher in order to maximize profit.

“Stop-loss” tool of NetInvestor system is called to assist in market situation monitoring and reacting in optimal moments.

How does take-profit work in NetInvestor system?

Take-profit for NetInvestor system is a delayed buy/sell order, which, however, is formed and sent to Broker's server beforehand.

In case of sell, after the market achieves an Activation price, and then market price decreases on specified deflection (in per cent) from maximal price, the sell order is sent to the stock trading system.

In case of buy, after the market achieves an Activation price, and then market price increases on specified deflection (in per cent) from minimal price, the buy order is sent to the stock trading system.

In contrast to a usual order with "Active" status take-profits do not block investor portfolio assets.

Take-profit order filling rules

Choose **NetInvestor**, **New take-profit** menu.

➤ The window contains several input boxes and checkboxes determining order of take-profit type. (See Pic. 38)

Example: Order to buy 100 lots "RAO EES" at market price with 7.9 activation price and 0.01% deflection is to be sent not later than 25.06.2004.


If at the moment of take-profit sending the price of the last deal is higher than 7.9, the take-profit will become of "Waiting" status.

Pic. 38

Fill in a take-profit order being guided by the following descriptions:

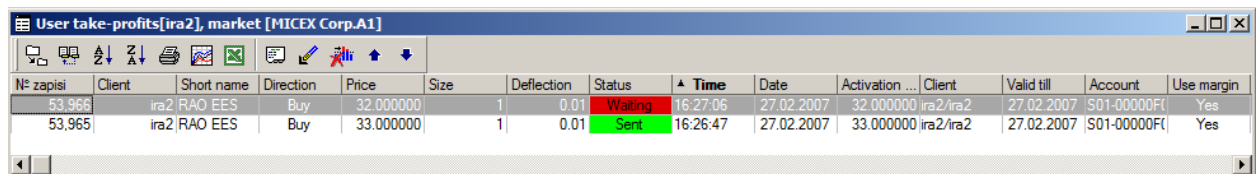
Element	Description
Condition	If at market [Choose a market] ticker [Choose a ticker] reaches level price [Specify price level at which you are ready to fix profit], and then rollbacks by [enter per cent value of the rollback from local extremum which you consider as trend change and necessity to fix profit immediately], the order will be sent to the trading system.
"Send new order" group	
Market	The Market, to which order is to be sent.
User	User's name.
Acct	User's trading account on a chosen market.
Ticker	A ticker, on which order is to be sent. Advisory fields Name and Lot size display stock code and bond account in a lot after item selection in Ticker field.
Direction	Take-profit direction (<i>Bid/Offer</i>).
Market	If the option is chosen, the order will be executed at different prices consistently beginning from the current "best" counter price on the moment take-profit is

	triggered.
Limit	If the option is chosen, the take-profit order will be executed at the entered price.
Price	A price, at which the order will be sent to the stock trading system (the field is unavailable if price is of Market type).
Size	Order size in lots.
Use margin credit	Select the checkbox in order to use marginal credit at take-profit sending.
Valid till (including)	Select the checkbox and enter a date till which (including the date) take-profit order will be active.

Note 1: You can set a take-profit from the context menu of the table “User take-profits” (See «How to send a take-profit order quickly?» unit, pg. 32) or by clicking on  - “Send take-profit” on the same table panel

Sent take-profits lookup

➤ Choose **NetInvestor, Take-profits** menu (See Pic. 39).



№ zapsi	Client	Short name	Direction	Price	Size	Deflection	Status	Time	Date	Activation ...	Client	Valid till	Account	Use margin
53.965	ira2	RAO EES	Buy	32.000000	1	0.01	Waiting	16:27:06	27.02.2007	32.000000	ira2/ira2	27.02.2007	S01-000000F	Yes
53.965	ira2	RAO EES	Buy	33.000000	1	0.01	Sent	16:26:47	27.02.2007	33.000000	ira2/ira2	27.02.2007	S01-000000F	Yes

Pic. 39


Take-profit position table data

Field	Description
Client	Identificator of the client on whose behalf an order is to be sent.
Ticker	Ticker name in a condition the user makes for take-profit sending (See Pic. 38 and condition description above).
Direction	Take-profit direction (bid/offer).
Price	A price at which an order is to be automatically sent to the stock trading system (in case of a limit order).
Size	Order size in lots.
Deflection (backout in %)	Price deflection in % from a maximal deal price (when Offer) that exceeds Activation price. Price deflection in % from a minimal deal price (when Bid) that is lower than Activation price. At the moment of reaching the specified level (rollback) calculated by the system, the order is to be sent to the trading system.
Status	Current client's order status:
	<p>Sent - take-profit is successfully sent to the exchange;</p> <p>Waiting - take-profit is waiting for specified condition execution;</p> <p>Cancelled - take-profit is cancelled by the user (see further);</p> <p>Execution error - on condition approach a take-profit wasn't sent to the stock trading system because of insufficient assets or breaking of some other limits defined by Broker.</p> <p>Attention! – activation level is reached.</p>
Time	Time of take-profit creation/modification.
Date	Date of take-profit creation/modification.
Activation price	Market price after which the take-profit is triggered and starts waiting for the specified rollback to send an order.
Valid till	In case take-profit activation conditions are not triggered at the current trades, a take-profit will be transferred to the next trading session day, till the specified

	date comes (inclusive).
Use margin	“Yes” – in case of marginal credit usage; “No” - in case of marginal credit non-usage;
Order by market	Market to which take-profit is to be sent on condition triggering. Thus the user gets an opportunity to take into account ticker quotes on a market in order to place a take-profit order on another ticker.
Order by instrument	A ticker on which take-profit is to be sent to a market chosen in “Order by market”.

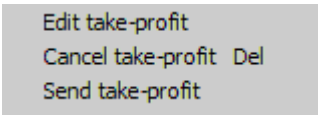
How to send a take-profit order quickly?

Follow the below listed directions:

1. Open “User take-profits” window.
2. Set the cursor on the row of a take-profit order, the data of which you would like to use in a new one;
3. Click right mouse button and choose “New take-profit” from the context menu or click on the icon  - “Send take-profit” on the table panel;
4. Make sure the set items in **Ticker, Direction, Price, Size, Activation price** and **Deflection** fields in “New take-profit” window are correct;
5. With the help of numpad that is on the right keyboard side and can be activated by switched on **NumLock** button, enter the figures;
6. Send a take-profit to the system: press **Enter** that is on the same numpad.

How to cancel or edit a sent take-profit order?

- Click right mouse button on the row of an order in “User take-profits” window (See Pic. 40) and use items of the appeared context menu. The other context menu items are described in «Table adjustment» unit, pg. 32.



Edit take-profit
Cancel take-profit Del
Send take-profit

Pic. 40




Choose an item:

- **Edit take-profit** - activates take-profit order entering window, filled with parameters of the order edited. After change making send the edited take-profit order to the stock trading system;
- **Cancel take-profit** or press **Del** button - a chosen take-profit order will be cancelled;
- **Send take-profit** - activates take-profit order entering window.

ATTN!!!

You can cancel or edit a take-profit order only in “Waiting” or “Attention!” status!

Note 1: At the moment of **Edit take-profit** item selection an original take-profit order is cancelled, so it goes into **Cancelled** status.


Note 2: In the right side of the control panel “User take-profits” window there are buttons providing  - “Send take-profit”,  - “Edit take-profit” и  - “Cancel take-profit” functions.

Additional functions

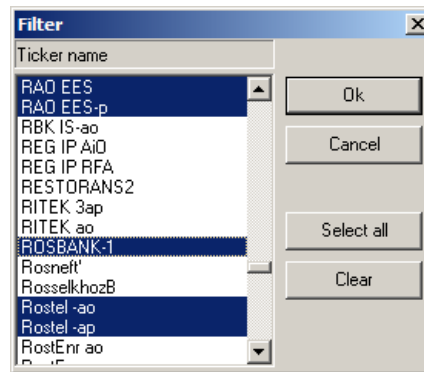
Table adjustment

View of any table (for example: of quotes, deals, Client’s portfolio data) can be changed, that is: rows only with particular tickers can be displayed, insignificant information columns can be hidden, column data can be sorted. For realization of the above mentioned opportunities use icons on the table control panel or the context menu called by right mouse button click (See Pic. 43).

Filter applying

1. Click on  - "Filter". An arrow will appear in every table column header. Click on an arrow and open "Filter" dialog window.
2. Click on desired items of the window. Hold **Ctrl** in case of selection of several list items, or press **Select all** button, in this case the entire list will be selected. Clicking on the needed rows and holding **Ctrl** exclude them from the list (See Pic. 41).
3. Press **Ok** to confirm the selection.

Note: "Filter enabled" message appears after filter applying in the column header.



Pic. 41

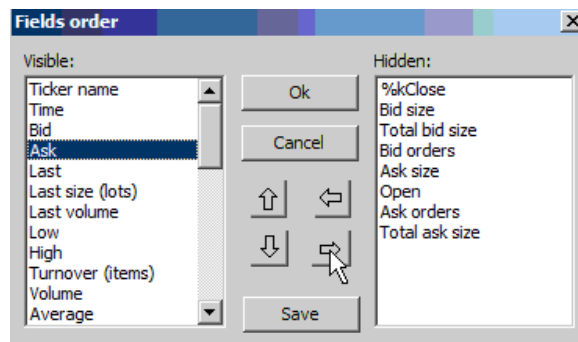
Filter disabling

1. Press **Filter** button;
2. Click on **Clear** button in "Filter" window;
3. Press **Ok**.

"Filter enabled" message disappears. The table comes back to original view.

Table column order changing

1. Click on  - "Fields order" (See Pic. 42).



Pic. 42







2. Define convenient column order with the help of   buttons;
3. With the help of   move selected column names to **Hidden** field from **Visible** field or vice versa in case of mistake;
4. By clicking **Ok** confirm the selected order of the visible columns.

Table data sorting

1. Put the cursor on the column field to be sorted;
2. Click on  - "Ascending sort", – the data will be sorted by ascendancy;

3. Click on  - “Descending order”, – the data will be sorted by descendency.

Free tickers placement in a table





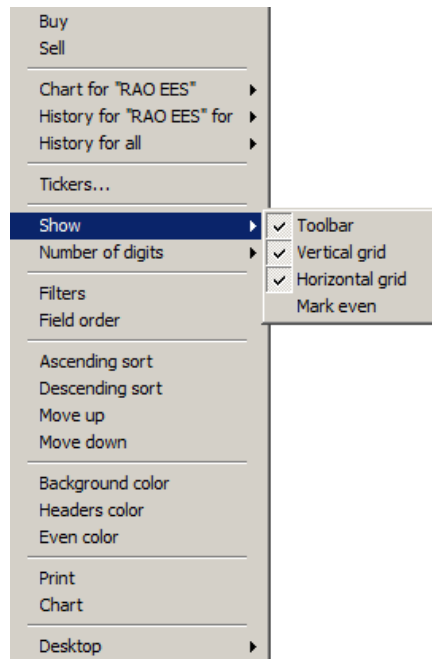
1. Select a needed ticker in Tickers column;
2. In order to change a selected ticker placement in a table use   icons
 - to move a row higher;
 - to move a row lower;
 or drag a ticker by the cursor and move the row upwards or downwards holding **Ctrl** button.

Table view adjustment with the help of the context menu

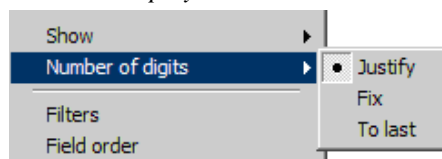
- Right mouse button click on any table except “Orderbooks” (for instance, “Last quotes” table) and use the items of the pop-up menu for additional table settings (See Pic. 43).



Pic. 43

Choose items:

- To highlight required table elements select **Show, Background color, Headers color, Even color**;
- To define the way float numbers are to be displayed select **Number of digits** menu (See Pic. 44):



Pic. 44

Justify – values to 6 decimal places will be displayed in the table;

Fix – number of decimals is defined by the trade board;

To last – values to the last significant figure will be displayed in the table, i.e. zero figures will be trimmed.

Note: Values by default are set in **Files, Options, Tables** menu of the main window (See «General » unit, pg. 44).

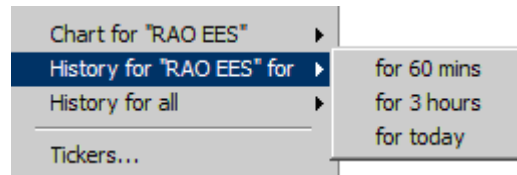
- For filter and field order applying select **Filters, Field order** menu in the table (See Pic. 44). At use of the same icons on the table control panel execute actions similar to the described above.
- For chart construction by table data select **Chart** menu item (See «Chart construction» unit, pg. 36).
- For moving the current window to another desktop select from the context menu **Desktop** item (See «General settings» unit, pg. 44).

Additional adjustment of the tables “Last Quotes”, “Last trades” through the context menu

Ticker name	Time	Bid	Ask	Last	Last size (lots)	Last volume	Low	High	Turnover (lots)	Volume	Average	Trades	Close	Lot size	Face value
LUKOIL	17:33:11	32.044000	32.044000	32.044000	10	320.440000	31.990000	32.090000	320	320.440000	32.044000	10	32.044000	32.044000	32.044000
RAO EES	17:33:11	32.044000	32.044000	32.044000	2,930	293.044000	31.990000	32.090000	2,930	293.044000	32.044000	2,930	32.044000	32.044000	32.044000

Pic. 45

- For chart construction by a chosen ticker select a table row with ticker data; select **Chart for “[Ticker name]”** context menu item (See Pic. 46). There will be constructed a chart by ticker values: “Last”, “Last size (lots)”; in the deal table menu you also can get minute data: “Candlesticks”, “Last size (lots)”;
- For pulling data by a certain ticker for a particular period of time select the table row with ticker data; choose **History for “[Ticker name]”** context menu (See Pic. 46). In additional menu specify an interval of time for which the ticker data will be loaded to a new window.

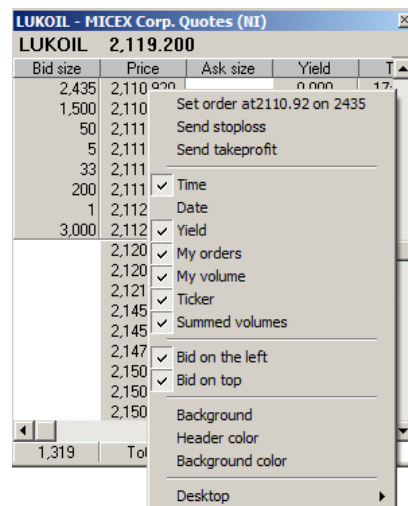


Pic. 46

- For pulling data by all tickers for a particular period of time select from the context menu **History for all** item (See Pic. 46). In additional menu specify an interval of time for which all ticker data will be loaded to a new window.
- For selection of particular data received from server (for traffic optimization) select **Tickers...** menu (See «Last quotes (NI)» unit, pg.6).

Additional settings in Orderbooks table

- Right mouse button click on Orderbooks window table field and use pop-up context menu items for additional table settings (See Pic. 47).



Pic. 47

Context menu description.


Menu	Description
Set order at ... on ...	Opens “New order” window filled with chosen counter order data.
Time	Hides/shows Time column.
Date	Hides/shows Date column.
My orders	Hides/shows column with the data on number of own active orders at corresponding price. If an “own” order is one of the best ten, Orderbooks window background color will be changed to the preset one in Files, Options, Orderbooks “Background for own orders” menu (See crp. 47). Note1: A double click on “My orders” column row opens “User orders” window

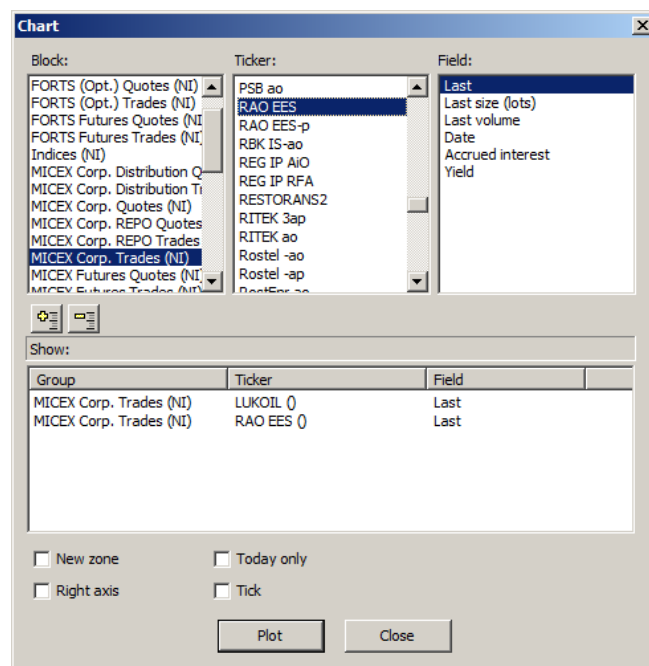
	with a filter by “Active” and “Part. executed” orders by the ticker.
My volume	Hides/shows a column with data on active order total volume (in lots) at corresponding price.
Yield	Hides/shows Yield column.
Bid on the left	Places the bid volume column to the left of Price column.
Bid on top	Places the bid volume column at the window top.
Background	Change window background color.
Header color	Change window header color.
Desktop	Move current Orderbooks table window to another desktop.

Chart construction

You can construct a chart by one of the following methods:

Method 1

- Select **Tools, Chart** menu or click on  - “Advanced chart” on the main window control panel (See Pic. 48).



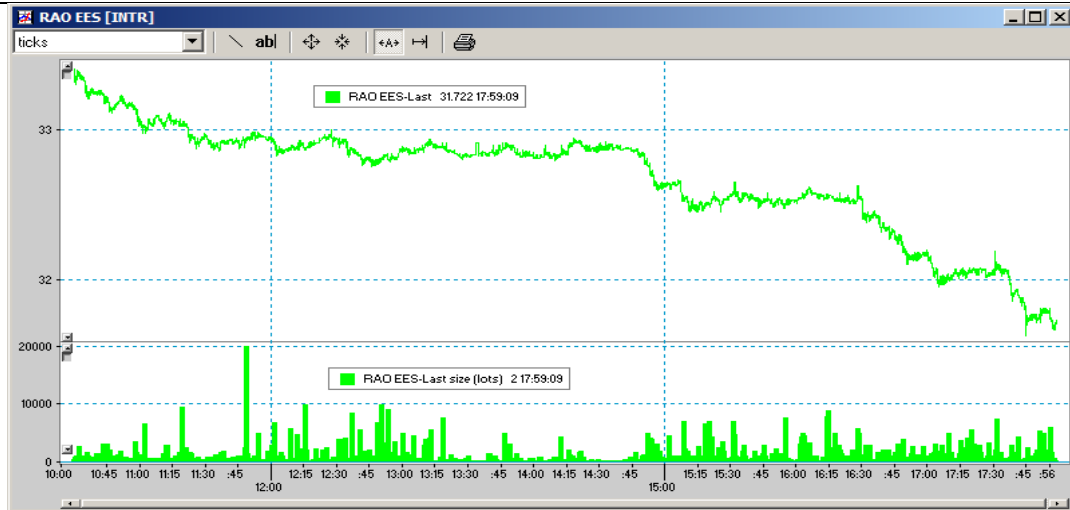
Pic. 48

The way of **Show** section formation is similar to Composite table creation (See «Как создать сводную таблицу?» unit, pg. 10).

Select checkboxes in “Chart” dialog window (See. Pic. 48) being guided by dialog element setting description


Element	Description
New zone	Constructs a chart in a separate graphic zone.
Right axis	At chart construction uses scaling by Y right axis.
Today only	At chart construction uses the current date data only.
Tick	At chart construction uses time nonlinear scale.

In order to construct a chart press **Plot** button (See Pic. 48).



Pic. 49

Method 2

You can construct a chart in any table (User orders, User stop-losses, etc.) by clicking on  - “Chart” on the table control panel.

Method 3

Quick chart construction by the last deal price and volume:

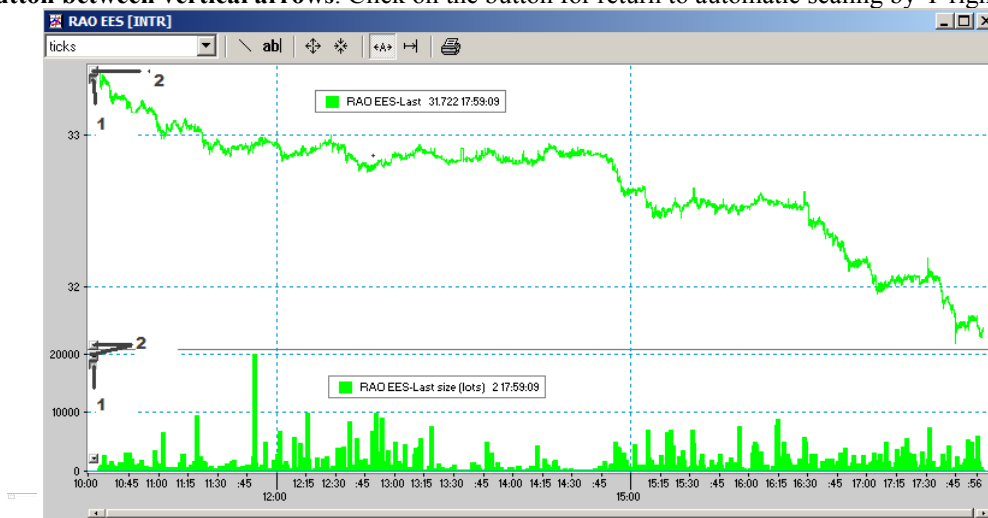
1. Open any information table with trades data;
2. Left mouse button click twice on numerical value of any field of a chosen ticker except Ticker field. Thus “minute”-chart will be constructed. “Tick”-chart can be constructed by **Chart** menu selection from the table context menu or by clicking on “Chart” button of the table or main window control panel.

“Chart” window description

By default a chart window is divided into two parts: in the top one a linear chart by “Last” column data is to be constructed; in the bottom one - “Columns” chart by “Last size (lots)” column data. Current trade session time is precipitated by X axis. Chart is being automatically updated on-line in background. In order to find out a chart point value, left mouse button click twice on the point.

Chart arrow and button meaning (See Pic. 4850).

- 1 – **Vertical arrows.** Click on the arrows for chart shifting upwards or downwards. Holding **Shift** button click on the arrows in order to compress the chart to the top or bottom window boarder. Combination of **Ctrl+Shift**+simultaneous click on an arrow allows backspacing carrying out.
- 2 – **A button between vertical arrows.** Click on the button for return to automatic scaling by Y right axis.



Pic. 50

Toolbar – set of tools for graphic data view changing:



- “Recalculate” – Enables chart reconstruction by chosen from the list period of time;



- “Draw line” - Enables manual chart line drawing to determine values general change tendency;



- “Insert text” - Inserts text frame into the chart. Edits its font, color and alignment with “Properties...”

element of frame context menu.



- “Increase scale” - changes timescale factor by X axis;



- “Decrease scale” - changes timescale factor by X axis;



- “Show all” – auto-scales requested data to fit it all to the current window size;



- “Keep current time interval” – locks scale factor for X-axis in the current chart;



- “Print” - prints current chart.

Zooming part of a chart graph

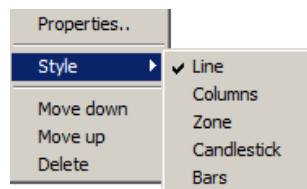
Holding **Shift** button select a part of the graph to be zoomed with the left mouse button. Holding **Ctrl+Shift** buttons and selecting a region miniaturizes graph to fit selected region. To set the graph back to auto-scaling mode, click the **Show all** button on the toolbar (See Pic. 50).

Chart plotting additional features

Context menu 1:

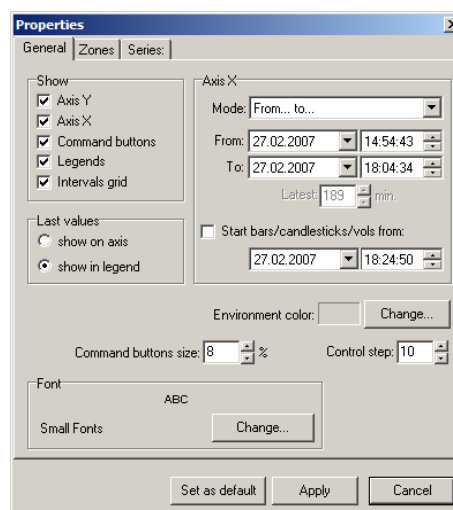
In order to adjust chart style and preferences, (considering mouse cursor sensitivity area) right mouse button click on a chart legend.

The context menu will appear (See Pic. 51):



Pic. 51

- **Properties** - “Properties” dialog window (See Pic. 52). Use the window tabs to adjust chart window properties, graph colors, backgrounds, scaling mode, command button size, etc.

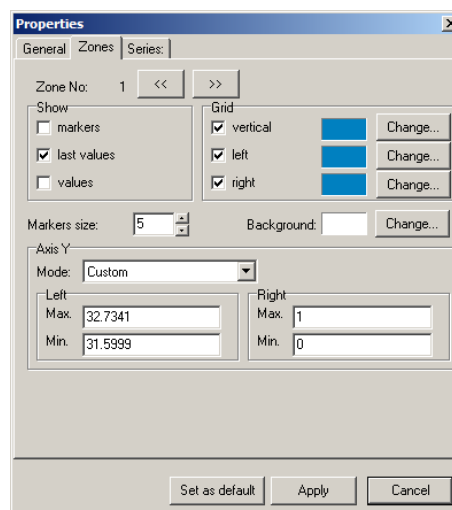


Pic. 52

Execute settings being guided by dialog elements description

Element	Description
“General” Tab (See Pic. 52)	
Show <ul style="list-style-type: none"> - Y axis - X axis - Command buttons - Legends - Interval grid 	Display/hide the element.
X axis <ul style="list-style-type: none"> - Mode 	Auto – autoscaling mode for X axis. From... To... – makes accessible “From... To...” fields for X axis value entering to display the information within this period. Latest – displays data for the last n minutes of a session.
Start bars/candlesticks/vols from	Check to recalculate the chart data from the specified moment.
Last values	Show on axis – displays the last chart values on Y axis. Show in legend – displays the last chart values in the legend.
Environment color	Click Change button to set chart environment color.
Command buttons size	Set command button size (in pixels).
Control step	Set chart move steps at command buttons usage.

Note: After **Set as default** button pressing all the properties are saved and a new chart will be created with the same properties; After **Apply** button pressing the properties set will be applied to the current chart only.

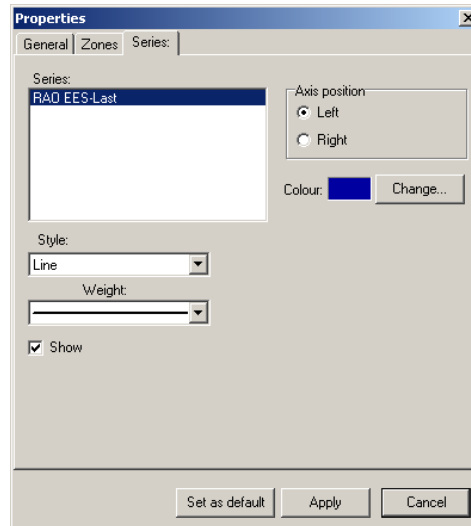


Pic. 53

“Zones” Tab (See Pic. 53)	
If there is more than one zone in the chart, use horizontal arrows to switch between them. Changes made are actual only for the zone selected.	
Show <ul style="list-style-type: none"> – markers – last values – values 	<ul style="list-style-type: none"> - display chart markers. - display the last chart values. - display all the chart values.
Markers size	Marker size (in pixels).
Grid <ul style="list-style-type: none"> - vertical - left - right 	<ul style="list-style-type: none"> - display/hide the vertical grid. - display/hide the left grid. - display/hide the right grid (The right grid is applied only if right additional Y axis is used).
Change Button	Use Change buttons right from the grid names to adjust their color.
Background	Use Change button to change chart background.

Y axis - Mode	Auto – auto-scaling mode by Y axis. Custom – at Y axis range customizing you can enter data to Left/Right fields, i.e. set maximal and minimal values of chart height by Y axis.
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Note: After **Set as default** button pressing all the properties are saved and a new chart will be created with the same properties; After **Apply** button pressing the properties set will be applied to the current chart only.



Pic. 54

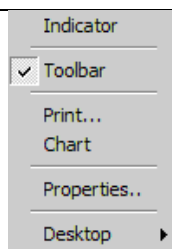
“Series” Tab (See Pic. 54)	
Select series from the list and make changes, press Apply button in order to confirm changes made.	
Axis position - Left - Right	Scale data series by left/right Y axis.
Colour	Click on Change to adjust chart color
Style	Chart data displaying style: Line Bars Zone Candlestick – set “Candlestick options”: candlestick step interval, start chart construction time, Bullish color and Bearish color. Bars – set “Bar options”: interval, start chart construction time. Weight – adjust the preferable line weight.
Show	Display/hide the current series in a chart window.

Note: After **Set as default** button pressing all the properties are saved and new charts will be created with the same properties; After **Apply** button pressing the properties set will be applied to the current chart only.

- **Move down/up** (see Pic. 51) – Data chart by a chosen ticker moves to a separate zone of the chart.
- **Delete** (See Pic. 51) – Chart by chosen series is to be removed from the chart.

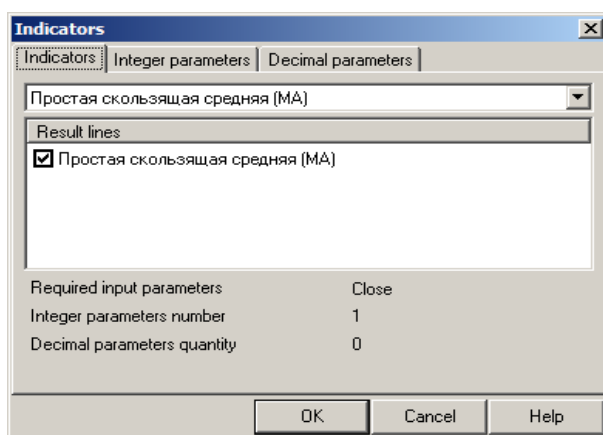
Context menu 2:

- Click left mouse button on any point of chart window. Use additional chart features adjustment selecting items of the context menu (See Pic. 55).



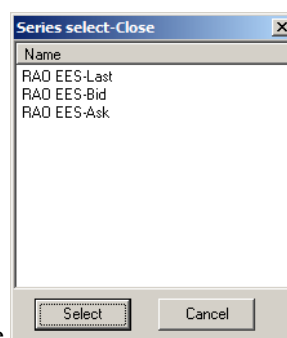
Pic. 55

- **Indicators** (See Pic. 56) – imposes a technical analysis indicator on the current chart.



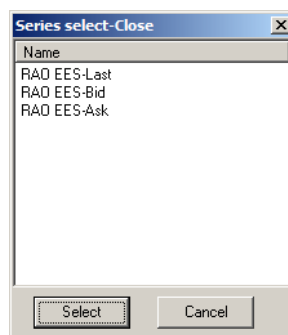
Pic. 56

1. Select “Indicators” item from the menu. Adjust “Required input parameters” field values. These parameters must be present as graphs in the chart. They are needed for indicator plotting.
2. If needed, adjust indicator plotting period values used in **Integer parameters** tab.
3. Click **OK**.
4. In one or more windows sequentially define which graphs will correspond to incoming parameters given (See step 1).



Click **Select** button (See

5. Pic. 57).



Pic. 57

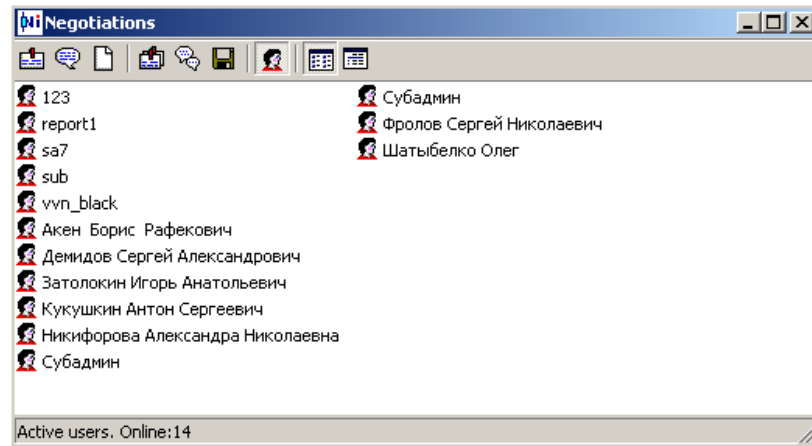
- **Toolbar** (See Pic. 55) – toggles chart toolbar display.
- **Print...** (See Pic. 55) – prints a chart.

- **Chart** (See. Pic. 55) – edits chart window elements. Opens “Advanced chart” dialog window to adjust parameters set in “Show” section.
- **Properties...** – see Context menu 1, pg. 38.

Messaging


NetInvestor Client 5.0 includes a mechanism for users’ messaging.


- Select **Files, Messenger menu** (See Pic. 58).






Pic. 58


Negotiations window toolbar elements are:

 - “Send message” – select recipient user from the list and click this button. Write and send the message;

 - “Open session” – select messaging partner from the list and click the button. Immediate online messaging session will be initiated.

 - “Send file” - select recipient user from the list and click the button. Choose the file and send it.


 - “View messages” and  - “Sessions list” – vies messaging history;

 - “Receive files” – acknowledge files for receiving: choose the ones you need from “Available files” window and click **Save** button to:

- **Save** – saves received files into Download subfolder of NetInvestor Client installation folder;

- **Save as** – saves received files into the chosen folder.

- **Save and open** – received file is saved into Download subfolder of NetInvestor Client installation folder and then opened.

 - “Show only active users”.

Note: Due to exchange is made through the system server, the recipient does not have to be on-line at the moment you send him a message or a file. Right after the recipient connects to the server he receives the sent files immediately.

Moreover, all the messages are being encrypted using digital signature and logged by the server thus making possible to carry negotiations and make deals using NetInvestor system software.

News service

News arrives from broker’s server in on-line mode.

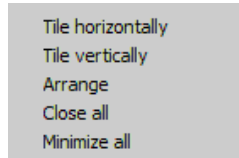
- Select **Tools, News** menu. “News headers” window will open.
Left mouse button click twice on a news header to see its full text.

Program interface options

Program window options

You may put in order all the opened windows:

- Select **Windows** menu and the item for action you need (See Pic. 59).



Pic. 59

Opened window positions and Desktops defined in the current session (see chapter “Creating custom Desktop” below), may be saved by selecting **Windows, Configuration, Save..., Name** menu.

- In a next program session it is possible to restore the saved configurations (by selecting **Windows, Configuration, Restore, Name** menu), or to remove them (by selecting **Windows, Configuration, Delete, Name** menu).

Creating custom Desktop

Another advanced program feature of work with informational blocks is ability to customize program Desktops. It means that any displayed windows configuration may be named and saved. Choosing Desktop to view you may see the required information only in the windows needed, not in all the windows opened.

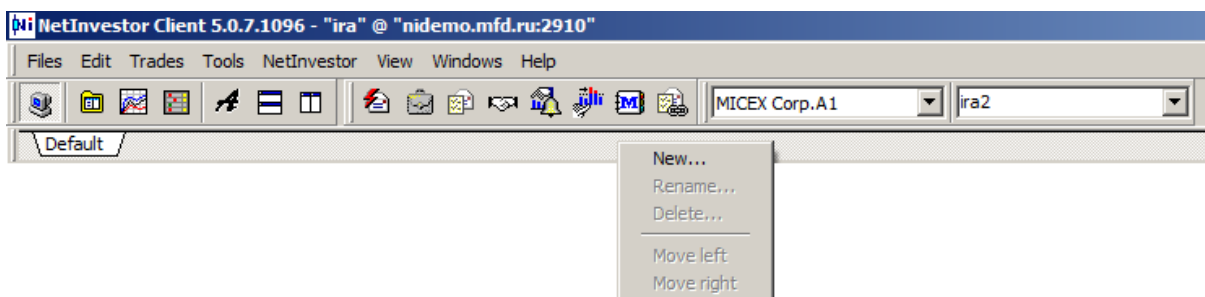
Thus, Desktop usage is like table filter usage. It is very convenient for viewing information on different trade floors by assigning to each trade market window a unique Desktop calling it with a market name, and switching from one to another.

Desktops panel usually is on the top of the program Main window, right below its toolbar. It is possible to move the panel down by dragging it with the left mouse button. This will free the top part of the Main window for more valuable information on trades displaying.

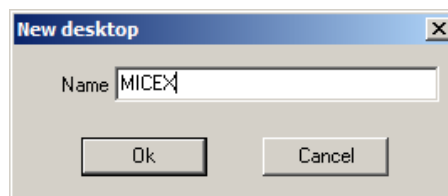
How to create a new Desktop?

1. Open windows you need. These windows will be your new custom Desktop after you create it and assign a name.
2. Click right mouse button on **Desktops** toolbar (See Pic. 60).

In the menu appeared select **New...** item **and** enter a new Desktop name (See Pic. 61).



Pic. 60



Pic. 61

3. A new tab will appear in the **Desktops** toolbar (See Pic. 62).

4. Repeat (1-3) for a new custom desktop creation, for example in order to inspect another trade-market. Switching desktop tabs makes easier to view different types of information on a current desktop.

Window adding to a chosen Desktop

Newly opened windows are automatically added to the current program Desktop.

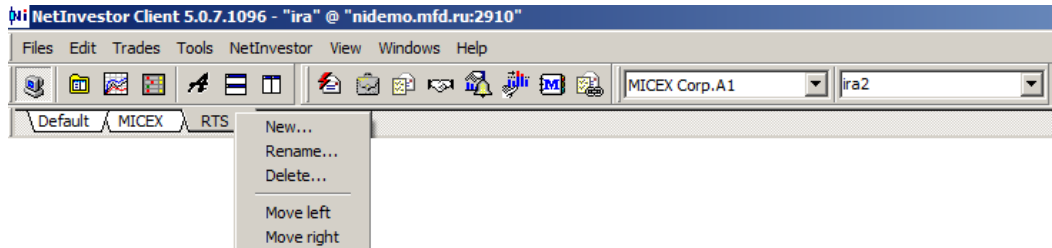
You can easily add or move a current window to any Desktop created. It can be done by calling the current table context menu, **Desktop** selection, and choosing the desktop name to move window to.

Saving Desktops for next sessions

To use your custom Desktops in future program sessions you need to save them:

Select **Windows, Configuration, Save...** menu.

Work with Desktops by means of the context menu



Pic. 62

1. Click right mouse button on the chosen Desktop tab (See Pic. 62).
2. Select an action you need from the context menu appeared.

The program Main Window customizing

Main program window contains a menu and a number of toolbars, Market and Client drop-down lists and so on. By default, all the toolbars are placed on the top of the Main window.

In order to free the Main window top part for trade data, you may disable toolbars:

1. Select **View** menu;
2. Uncheck toolbar names you do not want to see.

Same windows

Use Same window feature to examine trades information in a single window.

Select **Windows, Same window** menu items.

Example 1:

A user watches trough information on different markets (orders, deals, portfolio and so on).

Thus he selects **NetInvestor, Orders/Trades/Portfolio** menu or corresponding toolbar buttons. At current market changing (in pop-down market list), the top window is automatically updated to information on a newly selected market. ("User orders"/ "User trades"/ "User portfolio" tables).

Example 2:

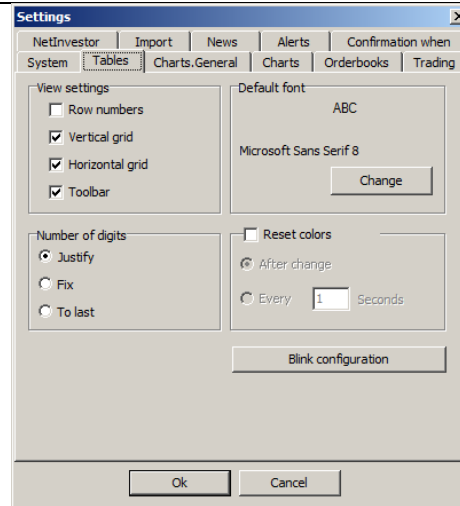
A user is an authorized person. At client changing (by selecting one from list) the top window is automatically updated to information on a newly selected client.

Example 3:

A user wants to see a number of ticker histories in one window without opening new windows. He clicks ticker with right mouse button, then selects **History** item from the context menu. Information on all selected tickers will be displayed in a single window.

General settings

- Select **Files, Options** menu.

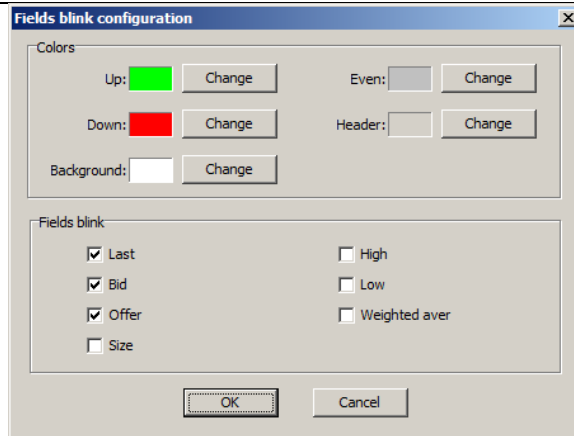


Pic. 63

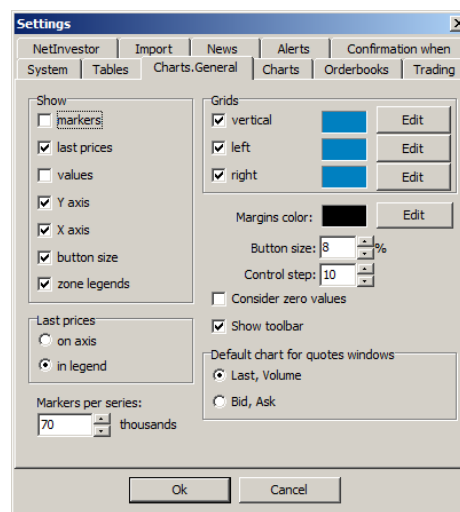
Execute settings being guided by the table elements

“System” and “NetInvestor” Tabs	Tab is described in “Setting of automatic connection to NetInvestor system when the program starts” unit (pg. 3)
--	--

“Tables” Tab (See Pic. 63)	
“View settings” group	
Row numbers	- Check to view a number of rows and their ranking in the program tables;
Vertical grid	- Check to view a vertical/horizontal grid lines in tables;
Horizontal grid	
Toolbar	- Check to view toolbars in tables;
“Number of digits” group	
Justify	- Check to display numbers with 6 digit places.
Fix	- Check to display numbers in trade board format.
To last	- Check to display numbers to the last significant figure, i.e. zero figures will be trimmed.
“Reset colors” group	Check to reset table cells color :
After change	- at its value change;
Every ... seconds	- on timeout.
“Default font” group	Click Change button to define table default font.
“Blink configuration” Button	Click the button to change highlight-color in the following tables: “Quotes (NI)”, “Trades (NI)”. In “Fields blink configuration” dialog window (See Pic. 64) in “Colors” block with “Change” button choose highlight colors for quotes up/down, background, etc. Check fields to enable highlighting.

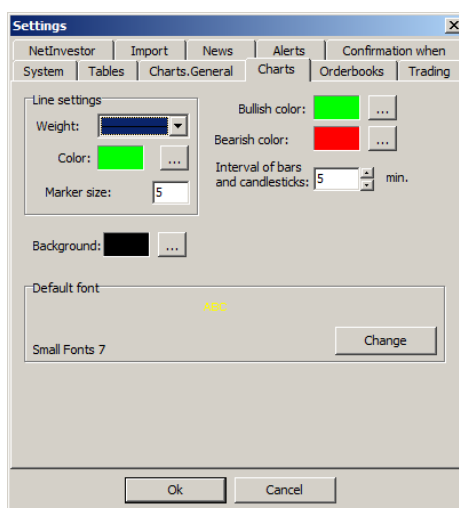


Pic. 64



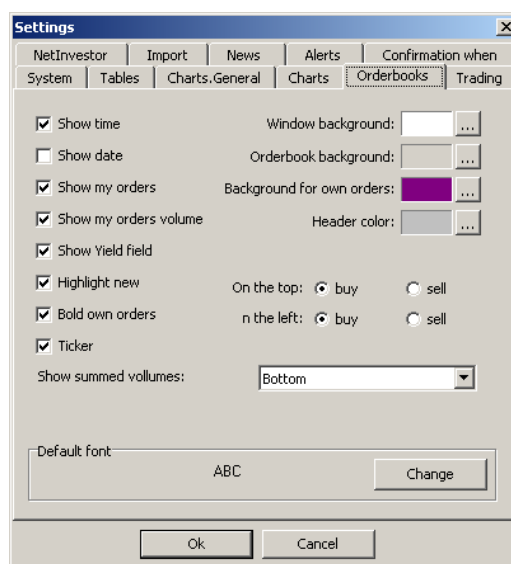
Pic. 65

Element	Description
“Charts.General” Tab (See Pic. 65)	
Show <ul style="list-style-type: none"> - markers - last prices - values - Y axis - X axis - button size - zone legends 	Shows/hides corresponding items on charts.
Last prices	On axis – displays last chart values on Y axis. In legend - displays last chart values in legend.
Grids	Check in order the grid to be of a chosen color on the chart window.
Margins color	Click Edit button to set chart background color.
Button size	Set control buttons size in percents.
Control step	Set chart move steps at control button usage.
Consider zero values	Check to use zero Y axis values for chart auto-scaling by default. Zero values may appear (for instance, in “Bid”/ “Offer” fields) at trading session beginning and may lead to chart “flattening”.
Show toolbar	Check to show the toolbar in a chart window.
Default chart for quotes window	Set chart construction default conditions for a double click on quotes.
Last, Volume Bid, Ask	Choose one of chart construction values: last quote / last quote volume; bid /ask.



Pic. 66

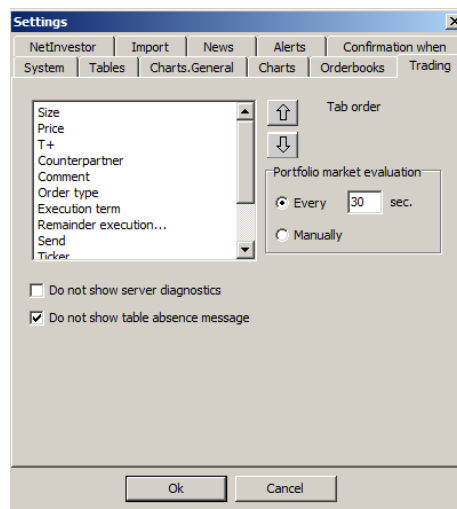
“Charts” Tab (see Pic. 66)	
Line settings/Weight	Select chart line weight.
Line settings/Color	Select chart line color.
Line settings/Marker size	Select chart marker size.
Interval of bars and candlesticks	Set step size (in minutes) for a chart construction in “candlesticks” or “bars” mode.
Bullish color	Choose candlestick bullish color (click on “...” button to change).
Bearish color	Choose candlestick bearish color (click on “...” button to change).
Background	Choose chart window background color.
Default font	Choose default chart window font. Press Change button in order to change it.




Pic. 67

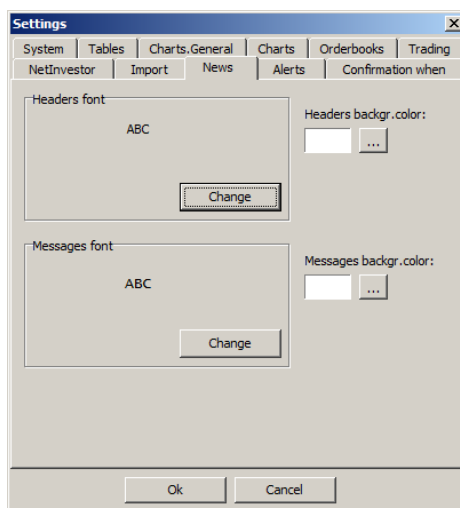
“Orderbooks” Tab (See Pic. 67).	
Show time	Displays time column in the window.
Show date	Displays date column in the window.
Show my orders	Displays a column with data on user’s own active orders amount for corresponding price.
Show my orders volume	Displays a column with data on user’s own active orders summary volume (in lots) for corresponding price.

Show Yield field	Display “Yield” column.
Bold own orders	Highlight newly updated data with bold font.
Highlight new	Highlight newly updated data with color.
On the top: buy/sell	Move “Buy” column to the top of the window; Move “Sell” column to the top of the window;
To the left: buy/sell	Move “Buy” column to the left; Move “Sell” column to the left;
Window background	Choose ask and bid column color.
Orderbook background	Choose Orderbook window background color.
Background for own orders	Choose background color for own active orders. This color will be used for highlight orders, if current market prices will be near to ones in client's order.
Header color	Choose header background color.
Default font	Set chart window font and press Change button.

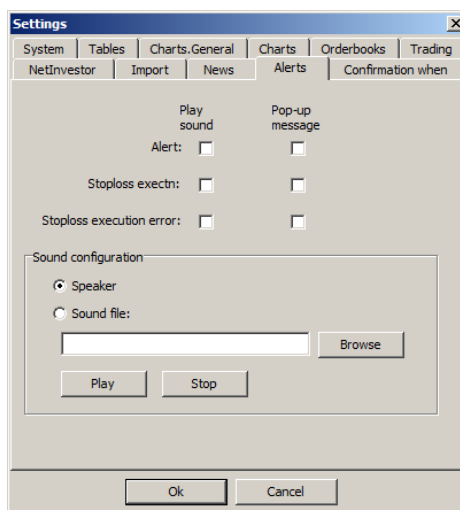


Pic. 68

“Trading” Tab (See Pic. 68)	
Tab order	Choose, where the cursor is to be located after a new order (or stop-loss, take-profit) blank opening and specify the order of the cursor move while pushing Tab button.
Portfolio market evaluation	Set evaluation mode of Current (RUR) and Planned (RUR) portfolio fields in accordance with current market prices: - Every <> seconds mode – portfolio auto-update on timeout; - Manually mode – update mode by clicking on  – “Value by market” in “User portfolio” table.
Do not show server diagnostics	Check to hide server diagnostics. Note: Actual for order group management.
Do not show table absence message	Check to hide table absence messages. Note: Actual for SubBroker login.



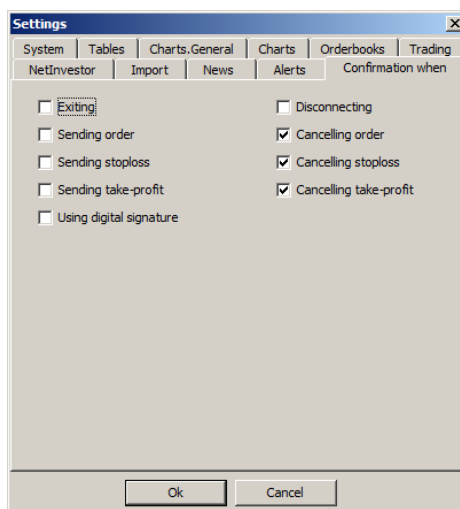
Pic. 69

“News” Tab (See Pic. 69)Set default **Headers font** and **Messages font** for “News” window information.

Pic. 70

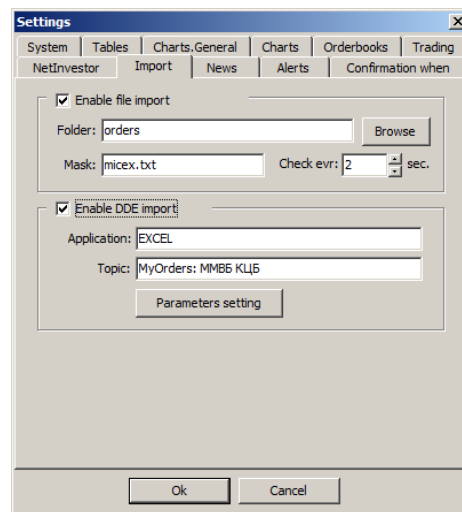
“Alerts” Tab (See Pic. 70)

Check items in the event list for notification with alert sound or alert dialog window.



Pic. 71

“Confirmation when” Tab (See Pic. 71)	
	Check items in the action list to show confirmation dialog window before each action execution.



Pic. 72

“Import” Tab (See Pic. 72)	
Enable file import	Check for automatic order import from a text file. File format is described in the section below (see “Text importText import” unit on pg.52).
Folder	Choose a folder for automatic file for text import searching.
Browse button	Use button to edit a file folder.
Mask	Enter a name of a text file for import.
Check evr	Searching time for a text file in a working directory presence.
Enable DDE import	Enables automatic order entering through DDE.
Application	An application used for DDE data exchange.
Topic	Choose working topic in <Filename: Sheet> format.
Parameters Setting button	Enables DDE exchange setting entering or edition (See Pic. 73).

Note: Interface settings from “Options” dialog window are automatically saved by the program for future sessions.

DDE exchange settings and order auto-enter

Click on **Parameters Setting** button (See Pic. 72), to adjust DDE settings. Enter (See Pic. 73) each row value for corresponding data column for each parameter (example: Row 1, Column 3 – R1C3).

Enter transaction number. If the number in the corresponding column increases, the order will be auto-imported into the system.

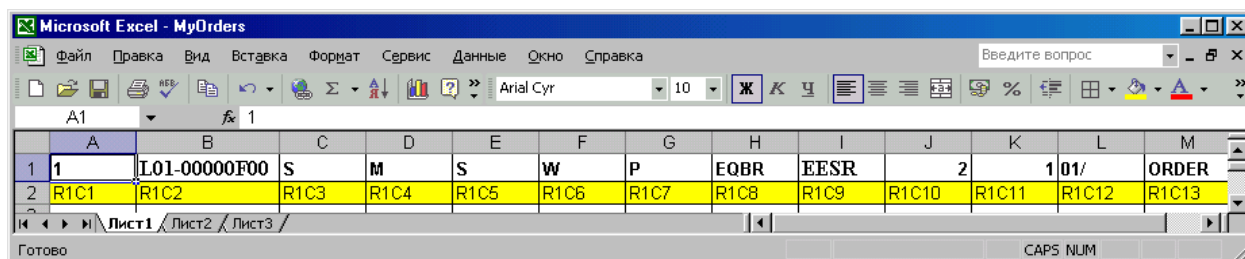
An example of parameter entering see in Pic. 73.

Meaning of each parameter is described in the table below.

Pic. 73

In order to adjust order auto-import through DDE to, you need to enter order parameters into the corresponding boxes of Microsoft Excel data sheet. The addresses of these boxes are entered in the DDE exchange options of NetInvestor Client 5.0 program. By default DDE import starts from the first row of a file (See Pic. 74). Format of an order (according to a current market) is shown in the description table for new order entering (See pg. 17).

Pic. 74 demonstrates an example of filling in the file for order auto-import into MICEX Corp.shares section. MS Excel application must be started.



Pic. 74

Note: It is recommended to adjust and test order auto-import to the trading system through MICEX test server. Access to the server is made through the NetInvestor system. You may get access requisites by calling to IFH-InfoCentre sales dept.: +7 495 101-15-50 (or by e-mail sales@mfd.ru).

Order import parameters

There are parameters of automatic order import from an Excel file in the following table. There exist different formats of order import for different trading floors. The example of Excel file filling for automatic order input to the fund section of the MICEX is shown on Pic. 74.

Parameter	Box number	FORTS Futures section	MICEX Corp., Government	MICEX Futures section
Transaction number	R1C1	Transaction number	Transaction number	Transaction number
Field No 1	R1C2		Account number	Account number
Field No 2	R1C3	Short name	direction (buy - 'B'/ sell - 'S')	direction (buy - 'B'/ sell - 'S')

Field No 3	R1C4	direction (buy - 'B'/ sell - 'S')	Order type (market- 'M' / limit - 'L')	Order type (market- 'M' / limit - 'L')
Field No 4	R1C5	Size	Execution term (allow split - 'S'/ no split - 'O')	Execution term (allow split - 'S'/ no split - 'O')
Field No 5	R1C6	Price	Remainder execution (set to queue – 'Space bar'/ cancel remainder – 'W'/ all or none – 'N')	Remainder execution (set to queue – 'Space bar'/ cancel remainder – 'W'/ all or none – 'N')
Field No 6	R1C7	Order type (market- 'M' / limit - 'L')	Order type (price 'P'/ Yield 'Y'/ Weighted average 'W')	Order type (price 'P'/ Yield 'Y'/ Weighted average 'W')
Field No 7	R1C8	ID	Market (EQBR – MICEX Corp.A, EQBS - MICEX Corp.A2, EQNL – MICEX Corp.B, EQNE – MICEX Corp.Non-list, EQOB – MICEX Bonds A1, EQOS – MICEX Bonds A2, EQNO – MICEX Bonds B, EQNB – MICEX Bonds Non-list, MAIN – MICEX Government)	Market (FOB)
Field No 8	R1C9	Market (PSFU)	Ticker	Ticker
Field No 9	R1C10		Price	Price
Field No 10	R1C11		Size	Size
Field No 11	R1C12	Account number	ID	ID
Field No 12	R1C13	Mandatory field (FutAddOrder)	Mandatory field (ORDER)	Mandatory field (ORDER_FOB)

Text import

Format of order input from a text file is similar to order input from an Excel application. The symbol “;” carries out a role of a field separator, and a carrier return symbol – row separator. After processing the text file will be deleted from a work directory.

Text file examples


- order input to the MICEX Corp.shares section:
1;S01-00000F00;S;M;S; ;P;EQBR;RU0008926621;2;1;01;/ORDER
- order input to the MICEX Futures section:
1;MU0000000001;S;M;S; ;P;FOB;FSUSD17;2;1;01;/ORDER_FOB
- order input to the MSE section:
1;MFB/003/00011111; DRS/000/000004;S;2;3;;01;/MSEN;;;art_sp_zavedit_broc
- order input to the FORTS Futures section:
1;;EERU-6.05;S;1;2; M;01;/PSFU;;;AC1;FutAddOrder

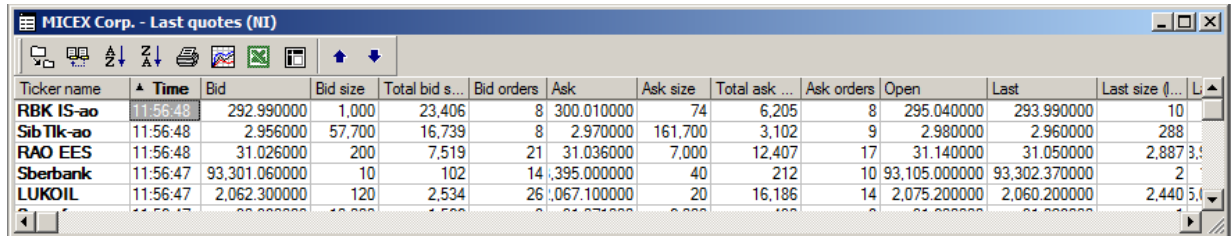
Data output via DDE

1. Select a field of any table;
2. Select **Edit, Copy** menu. The data for transfer to Excel application will be in i/o buffer.
3. Paste DDE-link to your application.

Data export to MSExcel

1. Open Excel application;
2. Open the table data from which are to be exported to Excel (See Pic. 75);

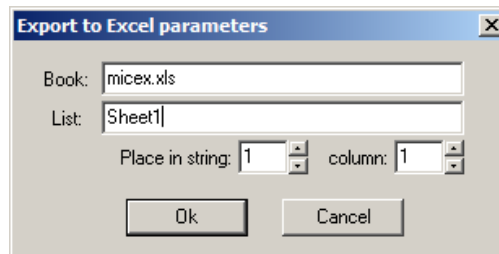
3. Select **Tools, Export, to Excel** menu or press  - "Excel" on the table panel;



Ticker name	Time	Bid	Bid size	Total bid s...	Bid orders	Ask	Ask size	Total ask ...	Ask orders	Open	Last	Last size (...
RBK IS-ao	11:56:48	292.990000	1,000	23,406	8	300.010000	74	6,205	8	295.040000	293.990000	10
Sib Tlk-ao	11:56:48	2.956000	57,700	16,739	8	2.970000	161,700	3,102	9	2.980000	2.960000	288
RAO EES	11:56:48	31.026000	200	7,519	21	31.036000	7,000	12,407	17	31.140000	31.050000	2,887
Sberbank	11:56:47	93,301.060000	10	102	14	395.000000	40	212	10	93,105.000000	93,302.370000	2
LUKOIL	11:56:47	2,062.300000	120	2,534	26	2,067.100000	20	16,186	14	2,075.200000	2,060.200000	2,440

Pic. 75

3. Fill in the "Export to Excel" window fields (See Pic. 76);



Export to Excel parameters

Book: micex.xls

List: Sheet1

Place in string: 1 column: 1

Ok Cancel

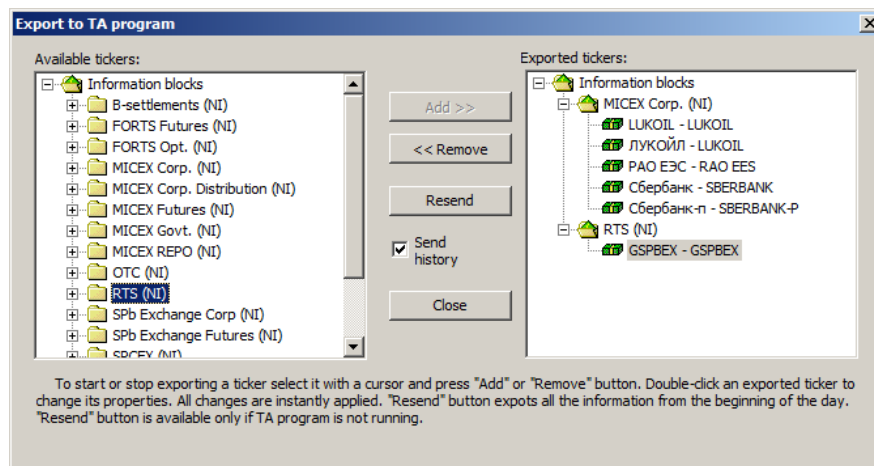
Pic. 76

4. Press **Ok**.

Note: If an Excel book has not been saved on a disk yet, specify parameter value (for example, Book1) without an extension. If the book has been saved, specify a file name with an extension. (See example on Pic. 76)

Data export to technical analysis program

- Select **Tools, Export, To TA Program...** menu (See Pic. 77);
- Choose the tickers for export from "Available tickers" list in "Export to TA program" window and with the help of **Add**, **Remove** buttons transfer them to "Exported tickers" section;
- Press **Close** button.



Export to TA program

Available tickers:

- Information blocks
 - B-settlements (NI)
 - FORTS Futures (NI)
 - FORTS Opt. (NI)
 - MICEX Corp. (NI)
 - MICEX Corp. Distribution (NI)
 - MICEX Futures (NI)
 - MICEX Govt. (NI)
 - MICEX REPO (NI)
 - OTC (NI)
 - RTS (NI)
 - SPb Exchange Corp (NI)
 - SPb Exchange Futures (NI)
 - SOFEX (NI)

Exported tickers:

- Information blocks
 - MICEX Corp. (NI)
 - LUKOIL - LUKOIL
 - ЛУКОЙЛ - LUKOIL
 - РАО ЕЭС - RAO EES
 - Сбербанк - SBERBANK
 - Сбербанк-п - SBERBANK-P
 - RTS (NI)
 - GSPBEX - GSPBEX

Add >> << Remove Resend Send history Close

To start or stop exporting a ticker select it with a cursor and press "Add" or "Remove" button. Double-click an exported ticker to change its properties. All changes are instantly applied. "Resend" button exports all the information from the beginning of the day. "Resend" button is available only if TA program is not running.

Pic. 77

Mark "**Send history**" checkbox: in case of connection breakage it allows additional sending of the exported ticker data for the missed period after connection restoration.

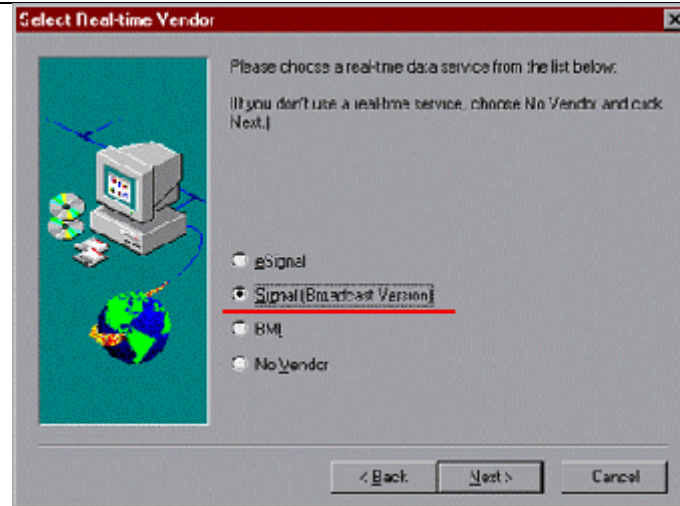
Otherwise data transfer will be continued from the moment of connection restoration.

Note: In case of connection breakage you should restart MetaStock program for data correct displaying in MetaStock program and restoration of connection to IFH-InfoCenter server.

Note: By **Resend** button pressing all the information will be exported from the day beginning. The function is accessible only when TA program is closed.

Data export to MetaStock Professional program

1. Install "MetaStock Professional" program version 7.0 (or higher);
2. Select "Signal (Broadcast version)" checkbox in "Select Real-Time Vendor" dialog window (See Pic. 78);



Pic. 78

3. In case of WinRos.ini file presence in Windows installation directory select startpath= {a path to a directory where NetInvestor Client 5.0 program is installed} parameter there.

After MetaStock Professional program start:

1. Select **File, New, Security** program menu;
2. Press **Look-Up** button in “New Security” dialog window;
3. Select **dixi.sym** corresponded to exported tools from **Type** list in “Symbol Database” window and with double left mouse click select **<ticker symbol>**;
4. Point out an **Interval**;
5. Press **OK**.

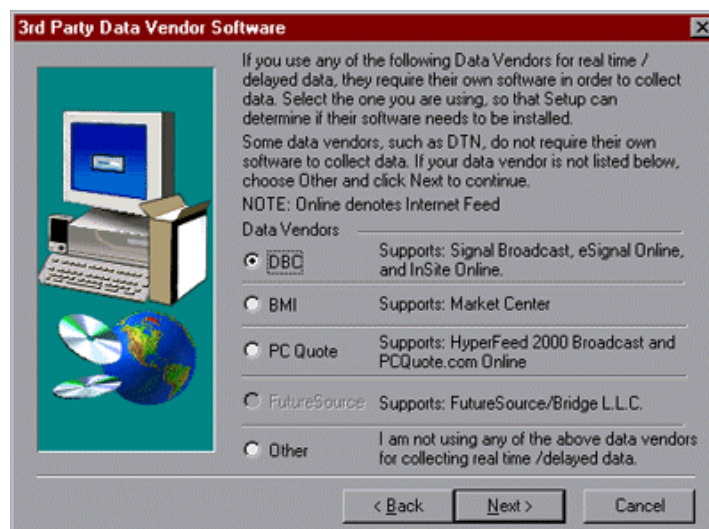
There will be constructed a chart.

The chart further can be opened through **File, Open, <ticker symbol>** menu. Each time MetaStock runs, the chosen ticker value history will be refilled to corresponding files that, if necessary, can be looked through and edited in “The DownLoader” program.

Data export to program Omega ProSuite2000

“Omega ProSuite2000” installation and setting

1. Install “Omega ProSuite2000” program;
2. During the installation in “3rd Party Data Vendor Software” dialog window select the option button “DBC - Supports: Signal Broadcast, eSignal Online, and InSite Online” (See Pic. 79).



Pic. 79

Select the “eSignal Online” option button in the “DBC Data Feed Selection” dialog window (See Pic. 80).



Pic. 80

3. After “Omega ProSuite2000” installation completion and a computer reset, “DBC eSignal” installation program will automatically be started. Cancel installation.

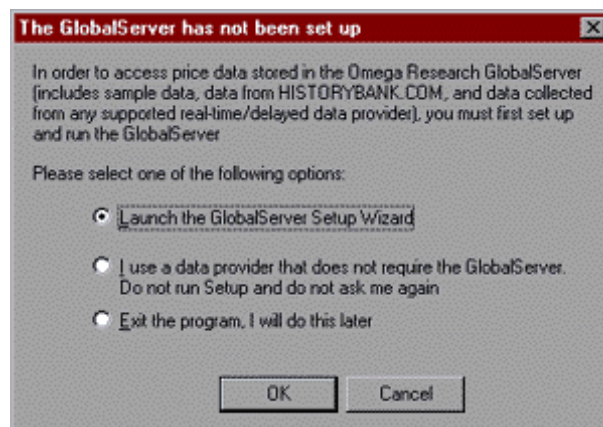
Run installation program of “DBC Signal” product. The “DBC Signal” distribution kit is in DBCSetup subdirectory.

4. After “DBC Signal” installation completion restart your computer.

“Global Server” setting

During the first launch of “Omega Research ProSuite” program set the program “Global Server” that is used for data transferring from “NetInvestor Client 5.0” to program “Omega Research ProSuite”:

1. Select option “Launch the Global Server Setup Wizard” (See Pic. 81).



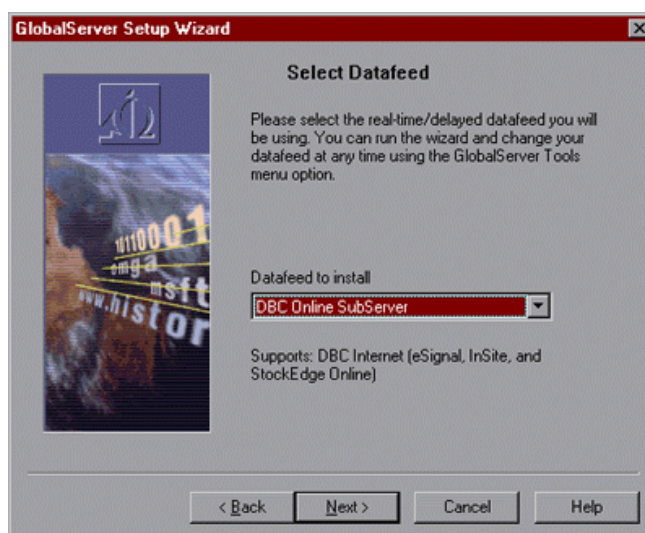
Pic. 81

2. In “GlobalServer Setup Wizard - Data Collection Method” dialog window select option “Real-Time/Delayed (You will be collecting...)” (See Pic. 82).



Pic. 82

3. In "GlobalServer Setup Wizard - Select Datafeed" dialog window select "DBC Online SubServer" row (See Pic. 83)



Pic. 83

In "GlobalServer Setup Wizard - HISTORYBANK.COM ..." dialog window choose "No" (See Pic. 84).



Pic. 84

4. In the Windows standard application “Notepad” create a file with a name file_name.reg consisting of four lines. REGEDIT4

```
[HKEY_CURRENT_USER\Software\Omega Research\Server\DBC Online SubServer.DBC Online]
“USEPCCLOCK”=“NO”
```

Run the file – the record will be added into the Windows registry.

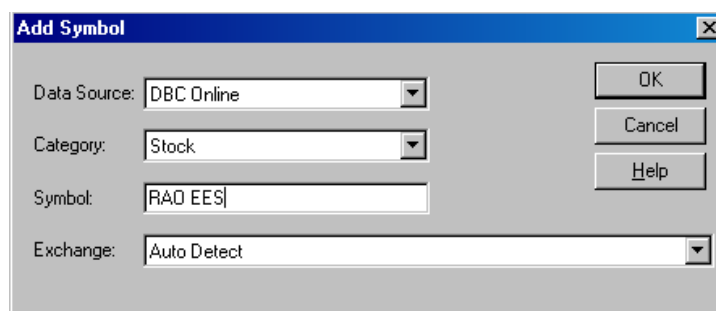
5. Change the set computer time on 4 hours backwards in summer and on 3 hours backwards in winter.
6. When program Global Server starts choose “Start Offline” mode. (See Pic. 85).
7. Run “Omega Research ProSuite” program.



Pic. 85

Creation of ticker for data transferring

1. Run “NetInvestor Client 5.0”;
2. Run “Global Server” and “Omega Research ProSuite”.
Create a ticker in “Global Server” program:
 1. Select **Insert, Symbol** menu;
 2. Press **Add New** in the appeared window;
 3. In “Add Symbol” dialog window fill in the following input boxes (See Pic. 86):
 - from the list of “Data Source” field choose **DBC Online** row;
 - from the list of “Category” choose **Stock** row;
 - in “Symbol” input box enter a name of a created data source, for example: **RAO EES**;
 - from the list of “Exchange” choose **Autodetect** row.



Pic. 86

4. Press **OK**.

Ticker parameter setting

For ticker parameter setting in “Add stock” window fill in dialog elements:

1. Using symbols from “Symbol” field on “Stock” tab fill in the boxes “Trading Name”, “Description”, “Symbol Root” (See Pic. 87)

Add Stock

Stock | Settings | Sessions | Option Roots

Data Source: DBC Online

Trading Name: RAO EES

Archive Name: RAO EES# ☐ Archived

Description: RAO EES

Symbol Root: RAO EES

Cusip:

OK Cancel Apply Help

Pic. 87

2. On “Settings” tab (See Pic. 88):
 - from the list of “Exchange Listed” field choose UNDEF-MICEX row;
 - Fill in the boxes: “Price Scale”, “Point Value”, “Daily Limit”, “Min. Movement” as it is shown on Pic. 88.

Stock | Settings | Sessions | Option Roots | History to save | Edit Data

Exchange Listed: UNDEF - Undefined

Price Scale: 1/10000

Point Value: 1.000000

Daily Limit: 10000

Min. Movement: 1.000000

Pic. 88

3. On “Sessions” tab :
 - from the list of “Display Session Times in:” field choose **Local Time**.
 - fill in the trade session timetable like it is shown on Pic. 89:

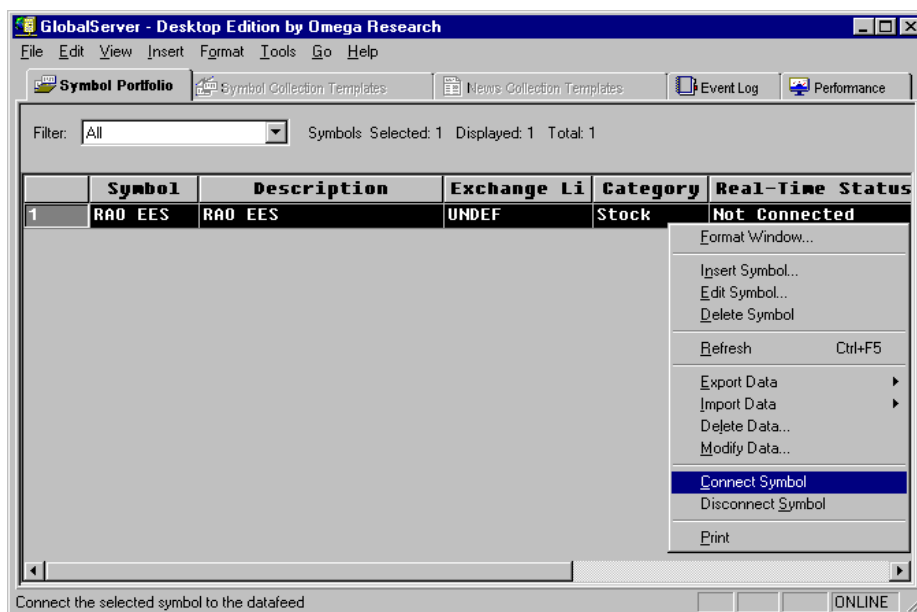
Open	Time	Close	Time	Reset	Dribble	Settlement
Mon	9:00	Mon	23:00	<input checked="" type="checkbox"/>	0 hrs 0 min	0 hrs 0 min
Tue	9:00	Tue	23:00	<input checked="" type="checkbox"/>	0 hrs 0 min	0 hrs 0 min
Wed	9:00	Wed	23:00	<input checked="" type="checkbox"/>	0 hrs 0 min	0 hrs 0 min
Thu	9:00	Thu	23:00	<input checked="" type="checkbox"/>	0 hrs 0 min	0 hrs 0 min
Fri	9:00	Fri	23:00	<input checked="" type="checkbox"/>	0 hrs 0 min	0 hrs 0 min

Pic. 89

4. Press **Ok** then; also press **Ok** to any other following question.

Verification of setting correctness of ticker parameters

1. Switch “Global Server” program to Online mode. For this purpose choose **File, Work Offline** program menu (the checkmark will disappear).
2. Set computer time corresponding to regional adjustments.
3. Select **Symbol Portfolio** tab in the main “Global Server” program window.
4. Click right mouse button on the row of the tool in order to call the context menu (See Pic. 90);

5. Select **Connect Symbol** menu.

Pic. 90

When tool parameter setting is correct “Real-Time Status” column displays **Connected**.