

Instruction manual of lite version of the program "Multilingual local instrumental system of real estate investment optimization, version 1.0" (LVP MLIS RIO 1.0)

Installing LVP MLIS RIO 1.0

1. Copy to a separate folder of your computer disk space a set of files of LVP MLIS RIO 1.0.
2. Check the composition of this set, which should include the following files:
 - boot file **Lite_MLIS_RIO.exe** of the program;
 - boot file **GLS.exe** of the utility program of version 1.0 under the name "**Генератор языковых оболочек (ГЯО 1.0)** (Generator of language shells (GLS 1.0))", which allows to create language shells for LVP MLIS RIO 1.0 interface;
 - contents of the folder **Data** — data files with extension "dat" for several already solved demonstration tasks, next to which will be placed data files for tasks to be solved by the user;

Note

The installation set of LVP MLIS RIO 1.0 includes *eight* demonstration tasks, not available for removal, which are presented in two options: *Russian* ("DEMR11", "DEMR12", "DEMR13", "DEMR14", "DEMR21", "DEMR22", "DEMR23", "DEMR24") and *English* ("DEME11", "DEME12", "DEME13", "DEME14", "DEME21", "DEME22", "DEME23", "DEME24"). Input and output data of these tasks you can look through on the screen, as well as bring out to Excel-files or print.

- contents of the folder **Dbor** — files of databases of real estate objects (DBREO). A file of DBREO has the following name: **<database type (1 character)><digital database code (3 or 6 digits)>_dbor_<three-digit code of language of the current program shell>.dat**;

Note

The program installation set includes files of two test DBREO, which were used in solving demonstration tasks. They are presented in two options: *Russian* and *English*. Available for work becomes such group of these files, which language is the same as the selected language of the program interface.

- contents of the folder **Excel documents** — files of table format Excel (with extension "xls"), in which can be stored input data of any existing tasks and output

data of solved tasks (subfolder **Tasks** with nested folders **Rus** and **Eng**), as well as contents of databases of real estate objects (subfolder **Databases** with nested folders **Rus** and **Eng**);

Note

The installation set of LVP MLIS RIO 1.0 includes Excel-files with input data of eight demonstration tasks (in Russian and English options), as well as similar files of two test DBREO (in the same two options). These files, as well as any others with input data of tasks you can not only view or edit in Microsoft Excel, but import to LVP MLIS when creating new tasks and DBREO.

- contents of the folder **Shells** — files of language shells for the current program interface;

Note

The installation set of LVP MLIS RIO 1.0 includes two files of shells for Russian and English languages: **Shell (RIO 1.0).rus** and **Shell (RIO 1.0).eng**.

- contents of the folder **Solving** — in this initially empty folder temporarily are placed data files for the tasks which are in the stage of solving;
- contents of the folder **System**:
 - **info** — a text file containing three main parameters of the used computer: processor type, clock rate and the volume of operative memory;;
 - **Languages.txt** — a text file containing a list of possible language shells for the interface of this program;
 - **Programs.txt** — a text file containing names of those programs (including this one), for which may be created language shells by using the utility program ГЯО 1.0 (GLS 1.0);
 - **protocol.ptl** — file of a protocol of tasks, being solved by the user, which holds general information about all existing tasks and their current state;
- contents of the folder **User documents**:
 - files of three Russian-language documents in the subfolder **rus**:
 - **Инструкция по эксплуатации ГЯО 1.0.pdf**;
 - **Инструкция по эксплуатации ОБП МЛИС ОИИ 1.0.pdf**;
 - **Технические характеристики МЛИС-МСИС ОИИ 1.0.pdf**;
 - files of three English-language documents in the subfolder **eng**:
 - **Instruction manual of GLS 1.0.pdf**;
 - **Instruction manual of LVP MLIS RIO 1.0.pdf** — file of this manual;
 - **Technical characteristics of MLIS-MNIS RIO 1.0.pdf**.

3. For ease of launching the program LVP MLIS RIO 1.0, create a shortcut for its file

Lite_MLIS_RIO.exe and place it on the desktop of your computer.

Run the program in operation

1. Click on the boot file **Lite_MLIS_RIO.exe** of the program or on its label. At that happens the following:
 - in the absence in the folder **Shells** of any language shells files appears on the screen a warning message that the work in the program LVP MLIS RIO 1.0 for this reason is impossible and it emergency closes;
 - in the presence in this folder of only one language shell file is launched the program, which interface is presented by the language of this shell;
 - in the presence there of two or more files of language shells happens transition to the next instruction item.
2. On the screen opens the window of the program LVP MLIS RIO 1.0 without any records of its interface, and in its center appears a small dialog under the name **Selection of program interface language**. From the drop-down list of this dialog select desired language of program interface and click the button **OK**. At that, the dialog closes and in the program window, which becomes available to work, appear necessary records in language that you just selected. In the same language will be output any text entries in all windows of the program, as well as all information provided in it.

Operations with tasks

Creating a new task with unique parameters

If parameters of a new task of expenses optimization will differ significantly from similar parameters of any existing task, do the following:

1. Choose the command **Input⇒Input of a new task**, opening the dialog **Input of task data (step 1)**, wherein do the following:
 - enter a six-digit cipher of the new task, which may include Latin characters and digits (first field of the dialog);
 - enter a name of this task (second field);
 - select a mode of using investment:
 - investment in purchase of the alien real estate (first switch);
 - investment in upgrade of the own real estate (second switch);
2. Click in the current dialog the button **Forth**, passing to the dialog **Input of task data (step 2)**, wherein do the following:
 - set a type of task to be solved (four top switches);

- choose a database of real estate objects (drop-down list);
- determine whether the used DBREO will be automatically corrected after solving the task (two bottom switches).

Note

The number of successively opened program dialogs in which parameters of the current task are being set depends on its type. For a task of type 1 or 3 this number is eight, and for a task of type 2 or 4 - ten.

3. Click in the current dialog the button **Forth**, passing to the dialog **Input of task data (step 3 of 7/9)**, in which specify the following parameters:
 - for the task of type 1 and the mode of investment in purchase of the alien real estate:
 - number of investment options (first field of the dialog);
 - interest rate on the loan (second field);
 - threshold of ratio between the proceeds from sale of one real estate object (REO) and its total cost (third field);
 - maximum delay in putting up REO for sale (forth field);
 - optional restriction on the number of REO being selected by the program (fifth field);
 - for the task of type 2 and the mode of investment in purchase of the alien real estate:
 - interest rate on the loan (first field);
 - threshold of ratio between the proceeds from sale of one real estate object (REO) and its total cost (second field);
 - maximum delay in putting up REO for sale (third field);
 - optional restriction on the number of REO being selected by the program (forth field);
 - control period from the moment of putting up REO for sale (fifth field) and maximum probability of the absence of their sale for that period (sixth field);
 - for the task of type 3 and the mode of investment in purchase of the alien real estate:
 - number of investment options (first field of the dialog);
 - interest rate on the loan (second field);
 - threshold of ratio between the specific income from exploitation of one REO and its total cost (third field);
 - maximum delay in putting up REO for exploitation(forth field);

- optional restriction on the number of REO being selected by the program (fifth field);
- for the task of type 4 and the mode of investment in purchase of the alien real estate:
 - interest rate on the loan (first field);
 - threshold of ratio between the specific income from exploitation of one REO and its total cost (second field);
 - maximum delay in putting up REO for exploitation(third field);
 - optional restriction on the number of REO being selected by the program (forth field);
 - control period from the moment of putting up REO for exploitation (fifth field) and maximum probability of the absence of their exploitation for that period (sixth field);
- for the task of type 1 and the mode of investment in upgrade of the own real estate:
 - number of investment options (first field of the dialog);
 - interest rate on the loan (second field);
 - maximum delay in putting up REO for sale (third field);
 - optional restriction on the number of REO being selected by the program (forth field);
- for the task of type 2 and the mode of investment in upgrade of the own real estate:
 - interest rate on the loan (first field);
 - maximum delay in putting up REO for sale (second field);
 - optional restriction on the number of REO being selected by the program (third field);
 - control period from the moment of putting up REO for sale (forth field) and maximum probability of the absence of their sale for that period (fifth field);
- for the task of type 3 and the mode of investment in upgrade of the own real estate:
 - number of investment options (first field of the dialog);
 - interest rate on the loan (second field);
 - maximum delay in putting up REO for exploitation(third field);
 - optional restriction on the number of REO being selected by the program (forth field);
- for the task of type 4 and the mode of investment in upgrade of the own real es-

tate:

- interest rate on the loan (first field);
- maximum delay in putting up REO for exploitation(second field);
- optional restriction on the number of REO being selected by the program (third field);
- control period from the moment of putting up REO for exploitation (forth field) and maximum probability of the absence of their exploitation for that period (fifth field).

4. Click in the current dialog the button **Forth**, passing to the dialog **Input of task data (step 4 of 7/9)**, in which specify the following parameters:

- for the task of type 1 or 3 and the any mode of investment
 - involved amount of the investor's own funds(second field of the table);
 - involved loan amount(third field of the table);
- for the task of type 2 or 4 and the mode of investment in purchase of the alien real estate:
 - involved amount of the investor's own funds(first field of the dialog);
 - involved loan amount(second field);
 - payback period of investment (PPI) (third field);
 - maximum value of the rate of return during PPI of the consumed investment amount (forth field);
 - minimum value of this factor (fifth field);
 - number of its values, equal to the investment options number (sixth field);
- for the task of type 2 or 4 and the mode of investment in upgrade of the own real estate:
 - involved amount of the investor's own funds(first field of the dialog);
 - involved loan amount(second field);
 - required initial average income (IAI) from the sale/exploitation of REO (third field);
 - minimum allowable period of IAI acquisition (forth field);
 - maximum allowable period of its acquisition (fifth field);
 - number of allowable periods of getting IAI, equal to the number of investment options (sixth field).

5. Click in the current dialog the button **Forth**, passing to the dialog **Input of task data (step 5 of 7/9)**, in which you should select in the DBREO such REO, that are required for the task (first-right field of the table), from which only objects that satisfy the previously defined restrictions will remain.

Note

In the remaining fields of the table, located to the left of the fields described above and not available for entering and editing information, is pointed the information about the real estate objects contained in the being used DBREO. This is also true for the other dialogs described below.

6. Do the following:
 - for the task of type 1 or 3 and the any mode of investment — click in the current dialog the button **Forth**, passing to the dialog **Input of task data (step 6 of 7)**. You can view in it the parameters of those REO that you selected in the previous dialog and were not rejected by the program due to not meeting the specified restrictions;
 - for the task of type 2 or 4 and the any mode of investment — click three times successively the button **Forth**, passing by turns to the dialogues **Input of task data (step 6 of 9)**, **... (step 7 of 9)** and **... (step 8 of 9)**. You can view in it the parameters of those REO selected by you which meet the specified restrictions.
7. Click in the current dialog the button **Forth**, passing to the dialog **Input of task data (step 7 of 7)** or **... (step 9 of 9)**, in which specify the following parameters:
 - type of rounding the cost parameters: on minimum (left switch), on middle (average) or on maximum (right);
 - a duration of increment, which is a step of rounding the cost parameters (first field of the dialog).
8. Click in the current dialog the button **Forth**, passing to the dialog **Input of the task data**. Look through in it the main input data of the task and if you are not satisfied by them, then using the button **Back** go to the desired previous dialog and make there necessary correction of the tasks input data. Otherwise, do one of two things:
 - at selected by default the switch **later** (it is at the bottom right) click the button **Ready**, causing the program to form two files in the folder **Data**: a common file of the task (**rio_<six-digit task cipher>.dat**) and its input file (**rio_<task cipher>_in.dat**).
 - select the switch **at once** (bottom left) and click the button **Ready**, causing this task to be solved at once without using stipulated for this aim the next commands: **Control**⇒**Work with a task protocol** and **Solving of tasks**⇒**Execution of optimization**.

Creating a new task with repetitive parameters

If the input parameters of the new task will be almost the same as in some existing task, do the following:

1. Choose the command **Input**⇒**Input of a new task by data import**, opening the dialog **Input of task data (step 1)**, wherein do the following:
 - enter a six-digit cipher of the new task (first field of the dialog);

- enter a name of this task (second field);
- select a mode of using investment:
 - investment in purchase of the alien real estate (first switch);
 - investment in upgrade of the own real estate (second switch);
- select format of a being imported file which contains input data of another task: own format of the program (left switch **DAT** at the bottom) or standard format Excel (right switch **XLS** at the bottom);

Note

Mode of import into a new task of input data of another task, been stored in Excel-file, was introduced due to the fact that the program has a mode of export input data of existing tasks into files of Excel type (command **Export of task data to Excel-table** of menu **Tasks output**).

- when selecting **DAT** do the following:
 - select in the first drop-down list the existing task, input data of which should be copied to the current task;
 - click the button **Import**;
 - when selecting **XLS** do the following:
 - click the button **Import an Excel-file**;
 - in the opened dialog **Open** select on the disk required file (with extension "xls"), and click the button of the same name.
2. Moving with the button **Forth** from the current dialog to a next one, look through in all nine or ten dialogs the input data of a current task and make necessary changes in them (*see above Sec. "Creating a new task with unique parameters"*).
 3. Click the button **Ready** in the last dialog. At that, in the folder **Data** will be created two files of the task: general and input ones.

Correction of task input data

This operation can be performed in two ways:

- during the operation to create a new task (*see above*);
- by using the command **Input⇒Correction of input data of unsolved task**, that is available for use to such unsolved tasks, which input files have not been copied to the folder **Solving** for their solution (selection of a task to correct its input is made in the dialog **List of tasks**, which opens on the screen when executing this command).

Uploading a file with input data of a new task

After creating a new task, you need to copy its input file (with input data of the task) to the folder **Solving** for its subsequent solution (*see below*). This operation is executed in the

following order:

Note

After completing the operation in question concerning to some unsolved task you can not correct its input data.

1. Choose the command **Control⇒Work with a task protocol**, opening the dialog **Protocol of tasks**.
2. Select in the dialog upper list the required task, for which the operation in question was not fulfilled (this is indicated by the record "A stage of data input" in line "Task state" of the protocol table).
3. Click the button **Upload the file of task input data**, which in this case becomes unlocked. At that happens the following:
 - in the folder **Solving** appears a duplicate of the input file of current task;
 - in line "Task state" of the protocol table appears record "Waiting for solution";
 - the button **Upload the file of task input data** becomes locked.

Solving tasks

Operation of solving tasks, which input files are placed in the folder **Solving**, is performed in the following order:

1. Choose the command **Solving of tasks⇒Execution of optimization**, opening the dialog **Optimization module of MLIS RIO 1.0**.
2. Set the required mode of processing: *batch* (for solving all group of tasks) or *individual* (for solving only one task), and then click the button **Next**.
3. When working in batch mode, do the following:
 - if necessary, adjust specified parameters of optimization, and then click the button **Next**;
 - click the button **START** at the bottom, resulting in a process of successive solving the tasks of this group, when a name of this button changes to **WORK**;
 - after this button again be called **START**, which indicates the completion of solving the entire group of tasks, close the dialog **Optimization module of MLIS RIO 1.0** by clicking the button **EXIT** (bottom right).
4. When working in individual mode, do the following:
 - type in the dialog field a six-digit cipher code of a solvable task and click the button **Next**;
 - if necessary, adjust the parameters of optimization scheme, and then click the button **Next**;
 - click the button **START** at the bottom, resulting in a process of solving selected task, when a name of this button changes to **WORK**;

- after this button again be called **START**, which indicates the completion of solving the current task, close the dialog **Optimization module of MLIS RIO 1.0** (button **EXIT**).

Connecting a file with task solving results

After performing the operation of solving the tasks you should transfer files with the result of their solution (**rio_<task cipher>_out.dat**) from the folder **Solving** to the folder **Data**. This operation performs in the following order:

Note

After performing this operation concerning some solved task it is impossible its repeated processing. That may be required, in particular, in case of absence of its successful solution due to wrong choice of values of the optimization schemes parameters.

1. Choose the command **Control⇒Work with a task protocol**, opening the dialog **Protocol of tasks**.
2. Select in the upper dialog list the required task, which input file was copied to the folder **Solving** (this is indicated by the record "Waiting for solution" in line "Task state" of the protocol table).
3. Click the button **Load the file of task solving results**, which in this case becomes unlocked. At that happens the following:
 - input file of the current task is removed from the folder **Solving**, and its output file is moved from this folder to the folder **Data**;
 - in line "Task state" of the protocol table appears record "Task is solved";
 - the button **Load the file of task solving results** becomes locked.

Working with a tasks protocol

A protocol of tasks contains general information about existing tasks of real estate investment optimization, being solved by LVP MLIS RIO 1.0 (these data are stored in the file **protocol.ptl** placed in the folder **System**). On the screen displays in tabular form such part of the protocol, which refers to a user-selected task. It contains the following formation:

- cipher and name of this task;
- current state of the task, which can be one of three: "A stage of data input", "Waiting for solution" or "Task is solved";
- dates and times of occurrence for the four different event.

Transition to the mode of work with a tasks protocol is performed by the command **Control⇒Work with a task protocol**, which opens the dialog **Protocol of tasks**. In this dialog, the following operations can be performed:

- viewing general information about the existing tasks;
- upload the input file a new task, that contains its input data (*see above*);

- ❑ connecting the output file of the task containing the results of its solution (*see above*);
- ❑ removal of those tasks that are no longer necessary for the user (button **Delete the task**).

Creating statistics of the solved task

The operation of creating a statistical report (statistics) for a some solved task of type 2 or 4, which contains the investment payback factor, is performed in the following order:

Note

The main purpose of statistical report is to provide the user with all the necessary data on the basis of which he can objectively evaluate the found strategies, taking into account the risk factor of receiving for a given period of the income that does not exceed the threshold one. These data include the values of threshold income from the investment at different probabilities of its risk, as well as the average values of this income for all the investment options stipulated in the task.

1. Choose the command **Statistics**⇒**Creation of the solved task statistics**, opening the dialog **Module of statistics creation of LVP MLIS RIO 1.0**.
2. Set the following parameters in this dialog:
 - a cipher of that solved task for which will be created the statistics (first field of the dialog);
 - number of cycles of statistical modeling (second field).
3. Click at the dialog bottom the button **START**, as a result of which will start the process of statistical modeling, while the name of this button will change to **WORK**. As soon as this process is completed, this button will again be called **START**, and an information panel will appear on the screen with a message about the successful creation of statistics.
4. Close this panel by clicking on the button **OK**, and then either close the dialog **Module of statistics creation of LVP MLIS RIO 1.0** by clicking on the button **EXIT**, or go to step 2 of this instruction to continue working in the mode of creating statistical reports

Output of task input data

Input data for any existing task of real estate investment optimization may be brought out to the screen, Excel-file and print. This operation is performed in the following order:

1. Choose the command **Tasks output**⇒**Viewing input data of any task**.
2. In the opened dialog **List of all tasks** select the desired task and click the button **OK**. At that, the current dialog is closed and opens the window **Viewing input data of the task "<task name>"** with tabular input data of the task chosen by you, which can be looked through.
3. To bring out these data to a new Excel document, choose the command **Export of task data to Excel-table** of menu **Tasks output**, to print them — the command **Print the**

task data of the same menu.

Output of task solving results

Output data for any solved task of real estate investment optimization may be brought out to screen, Excel-file and print. This operation is performed in the following order:

1. Choose the command **Tasks output** ⇒ **Viewing data of solved task**.
2. In the opened dialog **List of solved tasks** select the required task and click the button **OK**, closing this dialog. At that, on the screen appears the control panel **Choice of investment options for output of information**, that contains checkboxes with numbers of investment options calculated for the task.
3. Set on this panel checkboxes for which you want to bring out the results of calculating, and then close the panel by clicking on the button **OK**. At that, opens the window **Viewing solution result of the task "<task name>"** with tabular output data of the task, which can be viewed.
4. To bring out these data to a new Excel document, choose the command **Export of task data to Excel-table** of menu **Tasks output**, to print them — the command **Printing the task data** of the same menu.

Output of statistics of the solved task

A statistical report, which has been created for some solved task containing REO with random spread of parameters, can be output on screen, to Excel file and to print. This operation is performed in the following order:

1. Choose the command **Statistics** ⇒ **Viewing statistics of the solved task**.
2. In the opened dialog **List of solved tasks with statistics** select the required task and click the button **OK**, closing this dialog. At that, on the screen opens the dialog **Selecting parameters of statistics output**, in which specify the values of probability of investment risk for outputting values of threshold income for the found investment options (top checkboxes).
3. Close the dialog by clicking on the button **OK**. At that opens the dialog **Viewing the statistical report for the solved task "<task name>"** with the required statistical report.
4. To output this report into a new Excel document, execute the command **Export of the statistics to Excel-table** of menu **Statistics**, to print out it — the command **Printing the statistics** of the same menu.

Operations with databases of real estate objects

Creation of a new DBREO with unique parameters

If the contents of a new database of real estate objects will be significantly different from that of any existing content DBREO, then follow these steps:

1. Choose the command **Work with databases of real estate objects** ⇒ **Creation of a new DBREO**, opening the dialog **Creation of a database of real estate objects (step 1 of 8)**, wherein do the following:
 - select a type of DBREO to be created:
 - *type A*, applied for the mode of using the investment in the purchase of alien property, (left switch);
 - *type B*, used for the mode of using the investment in the upgrade of their property, right switch);
 - enter the digital code of the DBREO to be created, which will be three-digit for type A of the base or six-digit for its type B (first field of the dialog);
 - enter a name of this DBREO (second field).
2. Click in the current dialog the button **Forth**, passing to the dialog **Creation of a database of real estate objects (step 2 of 8)**, in which specify the following parameters:
 - units of measurement for cost (first drop-down list);
 - units of measurement for time (second such list);
 - number of REO, being accounted for in DBREO (first field of the dialog).
3. Click in the current dialog the button **Forth**, passing to the dialog **Creation of a database of real estate objects (step 3 of 8)**, in which specify the *first* group of REO parameters, which include:
 - description of REO (editable field on the left);
 - REO code (second field of the table);
 - REO cost (third field of the table);
 - number of options of REO upgrade (forth field of the table);
 - a possible sign of current absence of REO (fifth field of the table);
 - a possible sign of current absence of fuoo removal REO from DBREO (sixth field of the table).

Note

The first field of the table, not accessible for input and editing of information, indicates the REO serial number in the database.

4. Click in the current dialog the button **Forth**, passing to the dialog **Creation of a data-**

base of real estate objects (step 4 of 8), in which specify the *second* group of REO parameters, which include:

- description of selected option of REO upgrade;
- description of selected mode of REO upgrade (second left edit field);
- cost of REO upgrade (forth field of the table);
- duration of REO upgrade (fifth field of the table);
- number of options of REO sale (sixth field of the table);
- number of options of REO exploitation (seventh field of the table).

5. Click in the current dialog the button **Forth**, passing to the dialog **Creation of a database of real estate objects (step 5 of 8)** provided that in the previous dialog was specified a positive number of sales options for at least one REO (otherwise, there will be a transition to the dialog ... **(step 7 of 8)**, *see below*). Specify the *third* group of REO parameters, which include:

- expected proceeds from REO sale (fifth field of the table);
- number of points of tabular function of distributing a random delay of REO sale (sixth field of the table).

6. Click in the current dialog the button **Forth**, passing to the dialog **Creation of a database of real estate objects (step 6 of 8)**, in which specify the *fourth* group of REO parameters, which include, which include:

- value of argument of a tabular function (sixth field of the table);
- value of this function itself (seventh of field of the table).

7. Click in the current dialog the button **Forth**, passing to the dialog **Creation of a database of real estate objects (step 7 of 8)** provided that in the dialog ... **(step 4 of 8)** was given a positive number of exploitation options for at least one transition to the dialog **Creation of a database of real estate objects**, *see below*). Specify in it the *fifth* group of REO parameters, which include:

- expected specific income from REO exploitation (fifth field of the table);
- number of points of tabular function of distributing a random delay of the start of REO exploitation (sixth field of the table).

8. Click in the current dialog the button **Forth**, passing to the dialog **Creation of a database of real estate objects (step 8 of 8)**, in which specify the *sixth* group of REO parameters, which include:

- value of argument of a tabular function (sixth field of the table);
- value of this function itself (seventh field of the table).

9. Click in the current dialog the button **Forth**, passing to the dialog **Creation of a database of real estate objects**. Look through in it the main data of the DBREO and if you are not satisfied by them, then using the button **Back** go to the desired previous dialog and make there necessary correction of the DBREO data. Otherwise, click the button

Ready, causing the program to form in the folder **Dbor** the file of DBREO under the following name: <database type (1 character)><digital database code (3 or 6 digits)>_dbor_<three-digit code of language of the current program shell>.dat;

Creation of a new DBREO with repetitive parameters

If the new database of sale objects will be based on one of existing DBREO, follow these steps:

1. Choose the command **Work with databases of real estate objects** ⇒ **Creation of a new DBREO by data import**, opening the dialog **Creation of a database of real estate objects (step 1)**, in which follow the same steps as in item 1 of the previous instruction (*see above Sec. "Creation of a new DBREO with unique parameters"*).
2. Click in the current dialog the button **Forth**, passing to the dialog **Creation of a database of real estate objects (step 2 of 8)**, wherein do the following:
 - select format of a being imported file of DBREO: own format of the program (left switch **DAT**) or standard format Excel (right switch **XLS**);

Note

Mode of import into a new DBREO of contents of another DBREO, been stored in Excel-file, was introduced due to the fact that the program has a mode of export contents of existing DBREO into files of Excel type (command **Export of DBREO to Excel-table** of menu **Work with databases of real estate objects**).

- when selecting the **DAT** switch do the following:
 - select in the first drop-down list the existing DBREO, contents of which should be copied to the current database;
 - click the button **Import**;
 - when selecting the **XLS** switch do the following:
 - click the button **Import an Excel-file**;
 - in the opened dialog **Open** select on the disk the required DBREO file (with extension 'xls'), and click the button of the same name.
3. Moving with the button **Forth** from the current dialog to a next one, look through in all five dialogs the data of a current DBREO and make necessary changes in them (*see above Sec. "Creation of a new DBREO with unique parameters"*).
 4. Click the button **Ready** in the last dialog, whereby in the folder **Dbor** will be created a file of the new DBREO of specified type and language.

Corrections of DBREO contents

This operation can be run in two ways:

- in the process of performing the operation to create a new DBREO (*see above*);

- ❑ with the command **Work with databases of real estate objects**⇒**Correction DBREO** (choice of DBREO for its correction is made in the dialog **List of databases of real estate objects**, which opens on the screen when executing this command).

Output of DBREO contents

Contents of any existent DBREO can be brought out on the screen and in the Excel-file. In the first case is used the command **Viewing DBREO** of the menu **Work with databases of sale objects**, and in the the second — the command **Export of DBREO to Excel-table** of the same menu.

Removing DBREO

Deleting any DBREO can be performed using the command **Removing DBREO** of the menu **Work with databases of real estate objects** .