

Instruction manual of the program "Multilingual program of optimization of order in a restaurant, version 1.2 (MP OOR 1.2)"

Installing MP OOR 1.2

1. Copy to a separate folder of your computer disk space a set of files MP OOR 1.2.
2. Check the composition of this set, which should include the following files:
 - boot file **MP_OOR.exe** of this 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 MP OOR 1.2 interface;
 - contents of the folder **Data** — future files of orders (with extension .dat), formed for the current catering enterprise (CE), as well as existing data files of six demonstration orders created for one Kiev restaurant, used here as a *test* CE;
 - contents of the folder **Examples of files (disk C)**:
 - subfolder **OOR_Files\Dbmd** with two files: **004_dbmd_rus.dat** and **004_dbmd_eng.dat** of a database of meals and drinks (DBMD) for the test CE, which content presented in Russian and English languages, where 004 — a database code;
 - subfolder **OOR_Files\Orders** with text files of demo-orders for this EO;
 - contents of the folder **Excel documents**:
 - Excel-files **004oor_dbmd_rus.xls** and **004oor_dbmd_eng.xls** with original contents of DBMD in Russian and English for the test EO (on the samples of these files the real CEs will be able to present their DBMDs for their further use in the program after their conversion to the required file format)
 - contents of the folder **Location**:
 - a text file **Location.rus**, which contains for Russian shell of the program interface (i.e. in Russian) the following details of a place of executing orders:
 - type of (catering enterprise)/(residential building);
 - its name;
 - name of the part 1 of address of orders execution;

- number of the part 1 of this address (up to 2 characters);
- name of the part 2 of address of orders execution;
- number of the part 2 of this address (up to 4 characters);
- a text file **Location.eng**, that contains the same details for English shell of the program interface;
- subfolder **Restaurant**, where are original samples of files **Location.rus** и **Location.eng** (with fictional details of service location) for the case of customers service in restaurant premises;
- subfolder **Hotel**, where are original samples of files **Location.rus** и **Location.eng** (with fictional details of service location) for the case of customers service in rooms of a hotel with resraurant;
- contents of the folder **Shells** — files of language shells of the program interface;

Примечание

The installation set of MP OOR 1.2 includes two files of shells for Russian and English languages: **Shell (MP OOR 1.2).rus** и **Shell (MP OOR 1.2).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**:
 - **Config** — a text file of program configuration containing the following information:
 - a code of used DBMD (three characters);
 - parameters $a*100$ and $b*100$ of the cost of customer service;
 - full name **C:\OOR_Files\Dbmd** of the *first* common folder of the local network for storing files of DBMDs relating to the program interface languages provided in it;
 - full name **C:\OOR_Files\Orders** of the *second* common folder of the local network for storing text files of orders generated by different instances of programs that are in places of issuing orders by restaurant customers;
 - **Info** (Инфо) — a text file that contains three basic parameters of used computer: processor type, clock rate and volume of operative memory.

Note

In accordance with your preferences (or settings of your computer) the contents of the file **Config (Info)** can (should) be changed by tools of OS Windows.

- **Numbers** — a text file containing the following two parameters:
 - number of the last order, for which the input data have been set;
 - number of the last optimal order, which has been generated;
- **Languages.txt** — a text file containing a list of possible language shells for the program interface;

- **Programs.txt** — a text file containing the name of this program (MP OOR 1.2), for which may be created language shells by using the utility program ГЯО 1.0 (GLS 1.0);
 - 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 МП ОЗР 1.2.pdf** — файл настоящей инструкции;
 - **Программа МП ОЗР 1.2 (пресс-релиз).pdf**;
 - files of three English-language documents in the subfolder **eng**:
 - **Instruction manual of GLS 1.0.pdf**;
 - **Instruction manual of MP OOR 1.2.pdf** — file of this manual;
 - **Program MP OOR 1.2 (press release).pdf**.
3. If you want to change the names of two common folders of the local network specified in the file **Config**, then do it with the help of system tools of OS Windows.
 4. Make changes in the file **Info** using system tools of OS Windows, pointing there the actual parameters of your computer: processor type, clock rate and volume of operative memory.
 5. Create two folders for files of DBMDs and text files of orders, the full names of which are specified in the file **Config** of the program (see above).
 6. Correct contents of files **Location.rus** and **Location.eng**, which are placed in the folder **Location**, pointing there details of specific place of executing orders.
 7. If you are going to work in MP OOR 1.2 in a language which is not yet provided, then follow these steps:
 - create a language shell of the program interface for the desired language using the utility program ГЯО 1.0 (GLS 1.0);
 - translate to the new language the DBMD content stored in the file **<code of DBMD>oor_dbmd_<code of existing language>.xls** of the folder **Excel documents** and then save it to the file **<code of DBMD>oor_dbmd_<code of new language>.xls**;
 - using a special program ExDb_oor12e (English version) or ExDb_oor12r (Russian) convert this Excel file to the DBMD file **<code of DBMD>_dbmd_<code of new language>.dat**, placing it in the required common folder of the local network;

Note

The software utility ExDb_oor12e/r, intended for converting DBMD formats, is at the creator of MP OOR 1.2. You can acquire from him the installation set of this utility with binding it via its serial number to the computer on which it will work.

- create a file **Location.<code of new language>** with the details of the place of executing orders specified in the new language, putting it to the folder **Location**.
8. For ease of launching the program MP OOR 1.2, create a shortcut for its file **MP_OOR.exe**, and place it on the desktop of your computer.

Work in MP OOR 1.2

Entry of input data of a new order

1. Run the program MP OOR 1.2 by clicking on its boot file **MP_OOR.exe** or on its label. In this case the following will occur. If in the program is provided only one language of its interface, on the screen will open its window, available for work, with all records in this language. If there are several such languages, then will open the program window without any records, in the center of which appears a small dialog **Selection of program interface language**. Select in its drop-down list the required language of the program interface and click the button **OK**. At that, this dialog will close and in the program window, which at the same time becomes available for work, will appear necessary records in the selected language. In the same language will be displayed any text entries in all dialogs of the program, as well as all information provided in it.
2. Run the command **Entry of input data of a new order** of the program menu, opening the dialog **Entry of input data of a new order (step 1 of 6)**, where do the following:
 - enter the amount of money allocated to pay for the order (first field of the dialog);
 - decide whether you want to restrict caloric value of your order (first group of two switches);
 - select one of three options of creating alternative groups (AGs) of meals and drinks (MDs) (second group of three switches):
 - AG will not be created (left switch);
 - AG will be created on separate categories of MDs (middle switch);
 - AG will be created on all categories at once (right switch).
3. Click the button **Forth** in the current dialog, going to the dialog **Entry of input data of a new order (step 2 of 6)**, where set the following parameters:
 - upper threshold for utility ratio of MD sample, which by default is 2 (field of the dialog);
 - one of the two criteria of utility of MD sample:
 - relative criterion, which is a utility ratio of a sample (left switch);
 - absolute criterion, which is a consumer worth of a sample, which is calculated as the product of its utility ratio by its cost (right switch).

4. Click the button **Forth** in the current dialog, going to the dialog **Entry of input data of a new order (step 3 of 6)**, in which create, if necessary, alternative groups of meals and drinks, in each of which will be automatically chosen by the program only one of the presented therein MDs.

Note

Description of the selected by you meal or drink is displayed in an extra panel at the bottom of this and the next dialogs, which opens by pressing the <SpaceBar> key.

5. Click the button **Forth** in the current dialog, going to the dialog **Entry of input data of a new order (step 4 of 6)**, where set the following parameters for each created alternative group of MDs:
 - a possible sign of sameness of the acquired MDs samples of this AG (checkbox);
 - minimum and maximum numbers of acquired MDs samples of the AG (two counters);
 - value of the used criterion of utility for a sample of each MD of the current AG (slider).
6. Click the button **Forth** in the current dialog, going to the dialog **Entry of input data of a new order (step 5 of 6)**, where set for MDs, not included to AGs, the following parameters:
 - a sign of selecting MD (checkbox);
 - for the selected MD:
 - value of the used criterion of utility of its sample (slider);
 - minimum and maximum numbers of its acquired samples (two counters).

Note

For the next meal or drink, selected by you (via a checkbox), the position of a slider, which sets the value of the utility criterion, remains unchanged. It means that when selecting MD will be set the same value of utility ratio as for the previously selected MD. To set this slider to its initial position and thereby to set a unit value of utility ratio for this MD, you should reset the checkbox and then install it.

7. Click the button **Forth** in the current dialog. At that happens one of the two:
 - if among the chosen by you MSs are those, which offer additives (ADs), then will open an additional dialog **Entry of input data of a new order (step 5a of 6)**, where choose required ADs for the selected by you MDs (a checkbox at the bottom right under the table);
 - otherwise you will go to the next item in this manual.
8. Click the button **Forth** in the current dialog, going to the the dialog **Entry of input data of a new order (step 6 of 6)**, where you can browse the list of selected for acquisition MDs and their parameters.
9. Click the button **Forth** in the current dialog. At that happens one of the two:

- if you have previously set the mode of restricting caloric value of the order (left switch from the first group in the dialog ... (**step 1 of 6**)), then will open an additional dialog **Entry of input data of a new order (step 6a of 6)** , where set the following parameters:
 - signs of accounting caloric values for the required for you meals (checkbox under the extreme right field of the table);
 - threshold of restricting caloric value of the order (bottom field of the dialog);
 - otherwise you will go to the next item in this manual.
10. Click the button **Forth** in the current dialog, going to the dialog **Entry of input data of a new order**. Browse there the main input data of the order and if they do not suit you, then using the button **Back** navigate to the required previous dialog and make in it necessary correction of the order input data. Otherwise, do one of the two:
- when selecting by default the switch **at once** (bottom left), click the button **Ready**, as a result of which will be generated the following four files:
 - in the folder **Data** — a general file of the order (<**six-digit cipher of order**>.dat), as well as its input and output files (<**cipher of order**>_in.dat and <**cipher of order**>_out.dat);
 - in the second common folder of the local network, specified in the file **Config**, — a text file of the optimal order, intended to its service;
 - select the switch **later** (at the bottom right), and then click the button **Ready**, as the result the program will generate in the folder **Data** two files: the general file of the order .(<**cipher of order**>.dat) and its input fileand (<**cipher of order**>_in.dat).

Correction of the order input data

1. Run the command of program menu with the above name, opening the dialog **Correction of the order input data**, in which single field specify number of your order that will be adjusted.
2. Click the button **OK** in the current dialog. At that the following will occur. If the file of input data of an order with such number is absent or such an order has already been generated, then you will see on the screen an appropriate warning message. Otherwise, this dialog will close and will open the dialog **Correction input order data (step 1 of 6)**, where adjust the required parameters.
3. Moving on with the button **Forth** from the current dialog to the next in order, browse in all six or seven dialogs the input data of the current order and make the necessary changes in them (see above Section **Entry of input data of a new order**).

Execution of other operations in the program

All other operations, provided in MP OOR 1.2, are executed by applying the corresponding commands of the program menu in which names they are specified.