

Data Acquisition by Etalon in Marushka Design



GEOVAP

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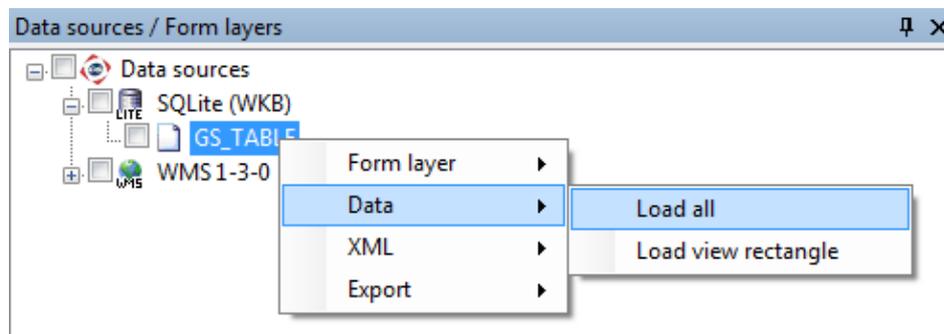
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1 Aim of the Example

In this example we will demonstrate how to draw elements by etalon in Marushka Design and save them into database. This example was created in version 4.0.2.10 and it does not have to be compatible with older versions.

2 Working with the Example

- Unzip the contents of DataAcquisition_EN.zip into **c:\MarushkaExamples** folder. The target folder must be respected due to interconnection of paths with the project. In the case of placing the different folder, it would not be possible to work with the example.
- Open the **DataAcquisition_EN.xml** in Marushka Design environment.
- Select form layer **GS_TABLE**, in the context menu choose Data – Load all:



- In map window choose "Fit all":



3 Dialog Box Sample

Fig 1: Help demonstration for drawing methods

Left click to select the second point of the line. \\ Right click to finish drawing.

Fig 2: Object properties dialog box for queries Draw polygon and Draw user connection

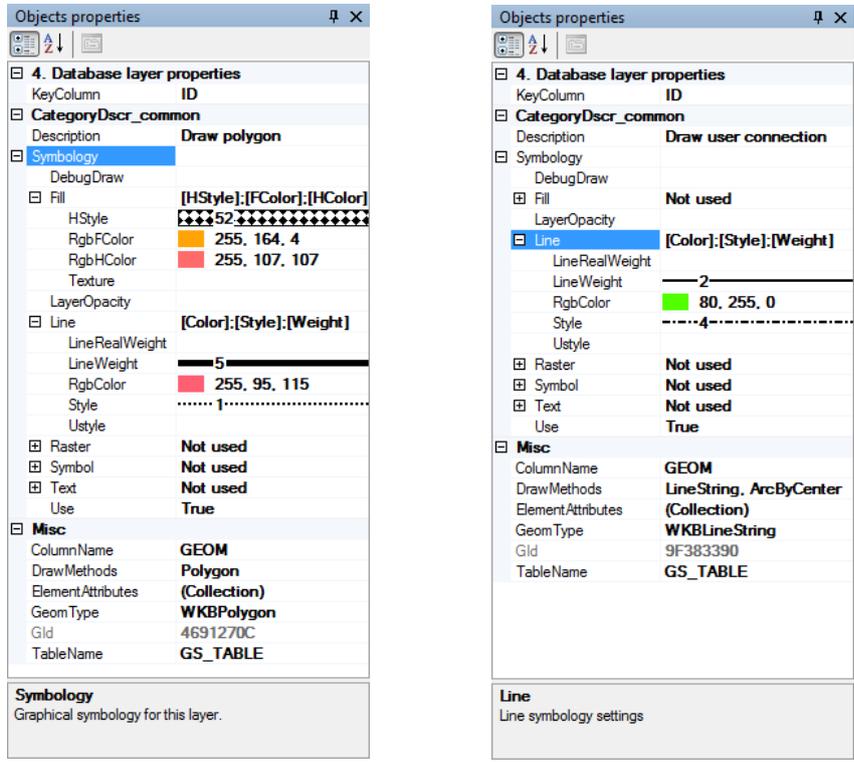
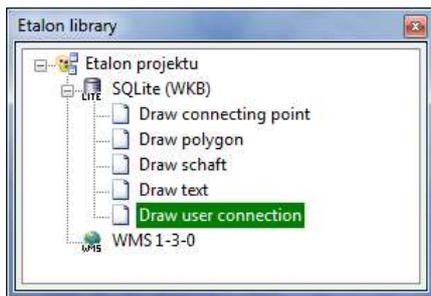


Fig 3: Etalon library with active query Draw user connection



4 A Brief Description of the Example in Marushka Design

The project includes a database in SQLite with one form layer *GS_TABLE*. It also include data store WMS 1-3-0 with one form layer *Základní mapa 1:10 000* (Basic map), which is used in this project as a base map.

The aim of this project is to show how to draw elements according to drawing defined etalon in Marushka Design and then to store them in a database.

Etalon library includes 5 predefined drawing queries.

Queries are executed so that the user double-clicks on selected drawing method and then after clicking into the map window, the method starts. One relatively big advantage of these predefined queries is a fact, that it is possible to simply change their symbology and edit attributes directly when drawing.

Each of queries, except query *Draw user connection* is assigned to just one drawing method. This is evident in the query properties in category *Misc – DrawMethods*. Query *Draw user connection* is different, because it has defined 2 drawing methods. After activation of this query, the user gets choice, which of the methods he wants to start. One query can thus draw by one symbology two or more geometric object. When drawing elements, it is recommended to follow the help on the status line at the bottom of the client, see Fig 1.

The first of these queries is called **Draw connecting point**. Using this query it is possible in Marushka Design to draw a cell depicting the connection point directly into the map window. This query has set in symbology in category *Symbol* parameter *WKBUints* to value *DrawUnits*, which are units of the target data store and parameter *SymbolName* to value *K_NAPOJBOD*. To distinguish it from the original cells are new cells drawn by yellow color instead of the original light blue. This fact can be verified either by testing a drawing query or the user can have a look at this cell in the cell library.

The second query is named **Draw polygon** and allows the user to draw a polygon with predefined symbology. This query has set in symbology in category *Symbol* parameter *Style* to style of polygon fill number 52, *RgbFCOLOR*, which is a polygon fill color, to orange and *RGBHCOLOR*, which is the fill color of style. In line symbology this query has set *LineWeight* to value 5, line color *RgbColor* to pink and *Style* to number 1.

Third query is called **Draw text**, allowing drawing text description. This query has in line symbology set line weight *LineWeight* to value 1 and line color *RgbColor* to yellow-green. In fill symbology it has defined style *Style* number 2, fill color *RgbFCOLOR* to yellow and style fill color *RgbHCOLOR* to red. In text symbology has this query set also units *DrawUnits* to value *WKBUints* and the text *Height* to value 50.

The next query is called **Draw shaft** and allows drawing a cell depicting shaft. The query has in symbol symbology set draw units *DrawUnits* to value *WKBUints* and the name of the drawn symbol *DrawSymbol* to *K_SACHTA*. To distinguish it from the original drawn cell is the new cell drawn by crimson color. The user can have a look at this cell in the cell library.

The last query is called **Draw user connection**. This query is different from the previous predefined queries. It allows the user to draw more than one type of element, specifically the line element *LineString* or arc *ArcByCenter*. When the given query is activated, the user is prompted to choose what method will

be will be applied in drawing. This is possible, because this etalon item *DrawMethods* includes more than one drawing method.

To save the drawn elements to the database is needed in the window *Physical Layers / Loaded tables* to right click on layer *GS_TABLE* and choose *Save elements from selected layers to table*.