GIS WebServer SE

Professional GIS for building geoportals for different purposes, based on cloud technologies

gisinfo.net
A complete set of components
To create standalone
Web information system
• Improved display of multilayered map images from Web-servers
• Fast moving
• Convenient scaling
• Easy controlling by contents and display order, customization of layers transparency
Using the map editor, you can remotely create new and modify the already existing map objects. 

Ability to perform group operations for deleting, moving, scaling map objects.
Creating and editing objects online

Remote change of map`s objects semantics
Support for **general parameters** for selecting objects on the map: image highlight color, outline color of selected objects.

When changing color settings, the graphic style of lines automatically changes when editing objects.
The **View Layer** mode positions the map in the center of the selected map layer and scales the image so that the entire layer appears in the window.
Search and selection of objects

A set of tools for searching and selecting map objects

Displaying search results in a drawing on a map and as a list of objects in a separate panel.

The ability to save found objects in a separate list with the addition of markers.
Address search and search by coordinates with the ability to select a search resource.
Selection by characteristics of objects

Tool kit for search and selection of map objects

Advanced search by objects attributes
Tool kit for search and selection of map objects

- Search by rectangular area
- Search inside object
- Search in radius from point
Conducting **lists** of selected map objects and performing group overlay operations over objects of list.
Controlling the composition of displayed objects through a layer legend
Creating maps by database tables.

The «Geocoding» component connects to the database, reads the coordinates of objects and creates point objects on the map.

The result can be saved on the user's computer in GeoJSON format.
Export information about map objects into Excel

The application creates a copy of the selected objects and forms a file which can be opened in the table editor.
Map calculation

Tool «Distance» allows you to calculate the length on a map between the specified points.

Tool «Area» provides an opportunity to perform a calculation of the area of an arbitrary polygon on the map.
The possibility of online solving a direct and inverse geodetic problem on a plane.
Search of objects by general semantics.
Buffer zone

Constructing a buffer zone around one or several objects
• Construction of **routes** onto territory of the Russian Federation;
• Text description of a route: distance, street name, travel time, points of turns;
• The shortest route by the distance;
• The shortest route by travel time.
Construction of thematic layers according to the characteristics of the map layer objects.

Customizing a transparency of a thematic map.
Displaying a legend of a thematic map.
Thermal map

Displays the distribution density of objects on a map by characteristics
Tool «Layer shutter» allows to perform a visual analysis of the relative objects location.
Three-dimensional view

- Publication of spatial data in the form of three-dimensional terrain model on the basis of Web3D technology;
- Construction of three-dimensional model of the Earth's surface onto any terrain, ensured by spatial data;
- Ability to share a link to a 3D map;
- The component "Viewing from air", which simulates the flight over the terrain.
Three-dimensional view

View the map in "skeletal" mode to assess the complexity of scene models.
Three-dimensional view

Measurements between two points using a three-dimensional terrain model
Multi-dimensional geospatial data

Displaying a photorealistic three-dimensional models of unlimited size format DB3D
Three-dimensional view

Calculation of the current position of each star and planet visible from the Earth in real time taking into account the date and time of day

Interactive model of the globe with a map of the starry sky for small scale mapping;

Allows you to explore the globe in a Web browser, browse cities, countries, continents, carry out a rapid transition to anywhere in the world.
Combining objects into groups by the nearest coordinates and visual display of groups on the map
Printing a map image with a choice of a terrain site for printing
Map projects

The project contains settings for different application parameters: the address of the geodatabase, the composition of the map layers, the original display scale, the location, the composition of the map tools, and their parameters.
Project Manager

The project describes the data layers, components and parameters of the map. To manage map projects, use the Project Manager. When you select a project, the data layers and controls described in it are displayed in the map;

An authorized user gets access to the list of projects available to his role; Setting up map projects and access rights to them is performed by the administrator.
Support for domain authorization (Active Directory, KERBEROS, web server system authentication).

Differentiation of access rights based on user groups.
The ability to authorize users through the State Services portal using the Unified Identification and Authentication System (ESIA).

Using his account on the State Services portal, the user gets limited access to application resources published by the GIS WebService SE service.
• Maintaining user groups and delimiting access rights.
• Configure general settings.
• Manage map layers and customize the layer tree.
• Setting up the list of tools (calculations on the map, searches, map editor, printing, etc.).
• Configure settings for receiving data from PAM authenticated servers.
Database component

Allows you to combine information about the terrain object from the database with the geodata of the GIS WebService SE map service. The component searches for map objects according to table data and filters the table when selecting map objects.

The logical connection with the map object is established by storing the value of the characteristics of the map object in the database table entry.
The main activity of the company is the development of software and architecture of geographic information systems which are used in different industry of the national economy and national defense.
Thank you for the attention!