Geographic information system LIDS

The **LIDS** system belongs to the AM/FM/GIS/NIS software group. It was developed specially for documentation and management of distribution networks, infrastructure and industrial sites.

The **LIDS** system provides a wide functionality for working with spatial and attribute data – its maintenance, processing, analysis and evaluating. The system is intended first of all for creating information systems of administrators of networks, industrial sites, facility management for the real estate assets and administration of technical and land maps of towns and villages.

A user-friendly environment enables an intuitive handling of the system and high productivity when working with both spatial and attribute GIS data.

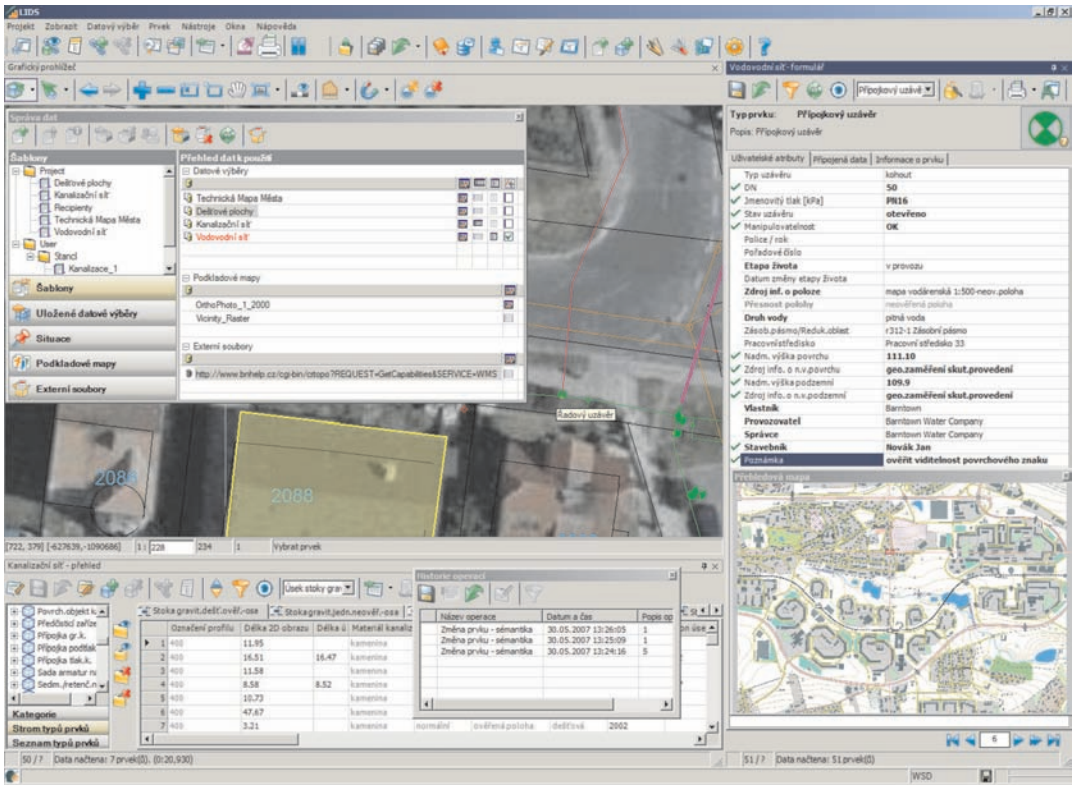
LIDS is an open information system built on proven industrial standards and top information technologies. The system has the modern three-tier Service Oriented Architecture (SOA). The whole solution is based on LIDS Application Server running in the environment of the J2EE application server.

LIDS is a highly scalable and parameterizable system. Thanks to this fact, the system is convenient for small, medium-sized as well as large companies – from solutions for small workgroups up to enterprise wide implementations.

Functionally, a new version **LIDS 7** is a follow-up of the previous successful LIDS V6 product family.

Main Benefits of LIDS 7

- Proven standard data models for subject specific solutions
- Flexible modification of data models by modifying project metadata without necessity of programming
- System properties and behavior are controlled by project metadata
- Intuitive user environment, easy handling of client applications
- Comfortable access to GIS data, easy creation of queries and outputs
- Creation of high quality map outputs from GIS data, publishing data on the Internet
- Possibility of working in off-line mode, utilization of long transactions including the work with data history
- Wide spectrum of tools and functions for capturing, updating and checking data, batch data input, data analyses
- Efficient work with raster spatial data (hierarchical structure of raster files)
- Top thematized outputs, output reports, details, schemes, longitudinal profiles, etc.



LIDS 7 Products

LIDS 7 offers a variety of client applications for various levels of the access to GIS data in the LIDS database, to backdrop maps in the form of raster files or CAD files, or to data provided by external map servers.

LIDS Edit

LIDS Edit is a client application designed especially for capturing, updating and managing geographic data using comfortable CAD functions. It can be operated in the MicroStation V8 XM Edition or AutoCAD Map 3D 2008 environment.

LIDS Edit provides tools for:

- Viewing and modification (capturing and updating, deleting) of features in a graphic window (windows) of the CAD system, forms and browses
- Modification of the geometry of features by special functions available only in the CAD system
- Creation of relationships between objects, creation of details and addition of attachments (associated documents)
- Simple print of spatial data in a scale
- Creation of complex data outputs from GIS
- Thematization of spatial data according to attribute values and a display scale
- Generation of output reports
- Spatial analyses and queries
- Export of spatial data to standard graphic formats
- Batch data input (lists of coordinates of point fea tures with attribute data, import of CAD files in for mats DWG or DGN)
- Import of backdrop maps (raster files, CAD files)

LIDS Explorer

LIDS Explorer is used by end users of GIS especially for comfortable presentation of spatial and attribute data of the geographic information LIDS system. To run LIDS Explorer, no additional CAD software is needed.

LIDS Explorer provides tools for:

- Viewing of GIS data in the environment of graphic windows, forms and browses
- Creation of redlines
- Simple print of spatial data in a scale
- Thematization of spatial data according to attribute values and a display scale
- Generation of output reports
- Spatial analyses and queries

In addition, when using optional extensions (options), the following operations can be carried out in the LIDS Explorer environment:

- Modification of attribute data including creation of relationships between objects, creation of details and addition of attachments (associated documents)
- Simple modification of vector graphic representation of features (capturing, updating, deleting)
- Export of spatial data to standard graphic formats
- Creation of complex map outputs from GIS
- Batch data input (lists of coordinates of point fea- tures with attribute data)

LIDS Browser

LIDS Browser is an ultra-light web client designed for viewing GIS data in a simple user interface of Mi- crosoft Internet Explorer without necessity of installing. LIDS Browser is suitable for integration into company portals.

LIDS Browser provides tools for:

- Viewing graphic and attribute data
- Data location

LIDS Data Models

- Data models for distribution companies – electricity, gas, heat and cold distribution, water and sewerage systems (including water works and sewage treat ment plants)
- Data model for industrial areas describes a area in the scope of the technical map: planimetry, altimet- ry, cable and pipelines of engineering networks, utilization of the area, lot and construction
- Data model for telecommunications

System Administration

- Web applications for system management
- Administration Kit provides complex tools for opera- tion monitoring, setting of system parameters, users and their access rights
- Datamodeling Kit provides tools for administration of LIDS data model
- Development Kit contains a description of the pro- gram interface (API) for development of following or additional applications and systems

Technology

- LIDS Application Server in the J2EE environment (Oracle Application Server, Sun Java System Applica- tion Server, JBoss)
- Both internal communication of client applications with LIDS Application Server and communication with external systems are performed in XML/GML format by means of WFS (Web Feature Service) and WMS (Web Map Service)
- Vector spatial data and attribute data are saved into the ORACLE 10g database
- Environment of modern CAD systems (MicroStation V8 XM Edition or AutoCAD Map 3D 2008) for the LIDS Edit client
- Client applications provide a unique and user-friend- ly interface (the .NET environment)
- Open data model description based on XML files using standards of Open Geospatial Consortium (OGC) mentioned below

Used Standards

- OpenGIS® specification by OGC:
  - Web Feature Service (WFS)
  - Web Map Service (WMS)
  - Styled Layer Descriptor (SLD)
  - Geography Markup Language (GML)
- Saving the geometry of vector spatial data in data structures of SDO_Geometry (Oracle Locator/Spatial)

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