

GEMALOGIC®

GAS

MANAGEMENT

SOFTWARE



- Modular Design
- User-friendly Interface
- Advanced Dashboards
- Integration with Legacy Systems

GemaLogic® is a powerful software solution for gas management.

A wide range of gas industry players can benefit from our solutions: transmission system operators, distribution operators, and gas traders.

It is a state of the art solution for gas consumption management (measure, validate, control and forecast gas consumption), contract management, automation of reporting, billing and invoicing, gas quality control, optimisation of gas supply processes (monitor the pressure in pipelines and set alerts) and gas grid optimisation (visualization of hydraulic conditions).

GemaLogic® is built as SOA enterprise architecture, consisting of a database, application server, and various client applications. It can operate on almost any operating system (Windows, Linux) and supports all major database vendors (Microsoft SQL, Oracle, PostgreSQL, MySQL, DB2). As a web server application, GemaLogic® allows customers to deliver information through their company's intranet or securely via the Internet (https). All that is required is a standard web browser running on a desktop or mobile device. This gives the customers complete freedom to choose the most suitable configuration for their existing IT environment. GemaLogic® can be used as a service in the cloud (SaaS) or as an integrated system installed on customer's premises.

REAL-TIME MONITORING

GemaLogic® acquires large numbers of various data and related measurements at various intervals. It stores current and archived values for the entire time series. Based on the data collected, mathematically calculated and time aggregated data can be provided. The data is presented in the form of tables, graphs or charts and as process schematics.

DATA ANALYSIS

GemaLogic® can perform different data analyses, such as load profile analysis and status of each measurement place and process data of gas substation. Importantly, they also give early warnings of unexpected excess measured values caused by malfunctions, unwanted user behavior, and maintenance errors.

CUSTOMIZED REPORTS AND DASHBOARDS

GemaLogic® allows various employees to be involved – from top management to people at different levels throughout the organizational structure and end clients via end-user portals. Every user can take advantage of predefined templates to create their own reports which best suit their specific tasks. Important information can be displayed in Dashboards and other specific analyses to enable a quick overview of the data.

CUSTOMISED ALERTS

Any deviation from the limits of normal operation can be immediately detected. The alerts can be sent to various recipients via SMS or e-mail. All thresholds and alarm limits can be adjusted by the customer.

DATA INTEGRATION

GemaLogic® successfully manages data integration to systems like SCADA, SIMONE hydraulic simulation visualization, ERP systems, acquisition systems, accounting system, invoicing systems and trading platforms that makes it a perfect tool to carry out daily activities at all points of the natural gas lifecycle.

All features needed for successful gas management are included in GemaLogic® functionalities and tools.

GEMALOGIC
SOLVERA
LYNX

ALLOCATION DATA MANAGEMENT

- Real time consumption data
- Remote meter reading
- Advanced dashboards
- Customised reports
- Benchmarking

GAS CONSUMPTION FORECAST

CONTRACT MANAGEMENT

- Connection contracts
- Transmission contracts
- Transmission contracts for exit points
- Transmission contracts for auctioned capacities
- Framework agreement
- Balancing group contracts
- Virtual point member contract

AUTOMATED BILLING & INVOICING

- Data validation for billing,
- Management and billing of network access contracts
- Management and billing of gas balancing group contracts

GAS QUALITY CONTROL

- Data collection from chromatographs

GAS SUPPLY MANAGEMENT

- Measuring of gas level in gas tanks
- Monitoring the pressure in pipelines

VISUALISATION OF HYDRAULIC CONDITIONS

- Topology
- Dashboards
- Alarms Topology Editor
- Gemalogic Administrator

USER PORTAL WITH PAPERLESS E-COMMERCE WORKFLOW THAT PROVIDES AN OVERVIEW OF GAS CONSUMPTION

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