

➤ Kontron Solutions@Work

We create digital brains for a more intelligent world

➤ RTSoft's Information Technologies for Control of Gas Transportation Objects of Tyumentransgas llc

Information becomes the key recourse to improve production efficiency in the context of ubiquitous amplification of modern computer technologies. The whole success of an enterprise depends on information timeliness, completeness and reliability, especially in such vitally important industries as natural gas industry and gas transportation industry. RTSoft's engineers developed information and management system for Tyumentransgas llc's gas transportation objects (IMS GTO) in the boundaries of large-scale project for development of Branch supervisory control system for Integrated gas supply system of Russia.

The general system structure consists of three levels:

- compressor room (CR) level, which covers unit automation systems, alarm signaling systems, stop valve systems, gas air-cooling unit systems, and automated systems at gas-measuring and gas-distribution stations;
- line production control (LPC) level, which integrates telemetry systems and CR level subsystems maintenance systems;
- central supervisory control (CSC) level, which realizes integration of IMS with adjacent systems.

IMS GTO must integrate existing automated management systems of Tyumentransgas llc and solve on-line production control tasks, such as:

- reception of CR and LPC levels technological data;
- transfer of technological data to CSC;
- technological data acquisition and storage in a central real-time database (RTDB);
- transfer of control commands from higher levels of a general enterprise management system to the lower ones;

- real-time display of gas transportation objects conditions;
- interaction with adjacent information systems;
- reports and summaries generation in a common public format;
- transfer of on-line data to the level of Central production and supervisory department of Gasprom pc.

Projecting the IMS for Tyumentransgas llc, the preference was given to software tools featuring high speed and ease of access to technological data. Industrial SQL Server was chosen as a RTDB, allowing acquiring and storing data hundreds times faster than ordinary DBs do on a similar platform, at the same time utilizing significantly less disk storage. SQL language, which is a standard way of access to data in Industrial SQL Sever, assures availability of this data to the widest scope of applications.

Wonderware's InTouch SCADA system, the most widely used system at gas transportation enterprises, provides visualization of technological processes, providing object-oriented editors a large amount of simple and complex graphic objects and animation tools. Moreover, the system supports interaction of individual technological subsystems and business applications using various standard protocols (OPC, DDE, SQL).

Wonderware's SuiteVoyager solves a problem of process data availability from any Tyumentransgas enterprise level, realizing the whole set of functions inherent in a Web server.

The information and management system for gas transportation objects, developed by RTSoft for Tyumentransgas llc, meets modern principles of openness and correspondence to international standards to the full. This allows to assuredly account it a system, which not only can solve today's problems, but also has a vast potential for further development and improvement.

About Kontron

Kontron AG is a worldwide leading manufacturer of embedded computer technology and robust solutions for mobile use. It supplies leading OEMs, system integrators, and application providers in a wide variety of market segments such as data and telecommunications, automation, measurement and control technology, traffic engineering, medical and military technology, as well as aviation and energy. Kontron's goal is to enable customers to significantly reduce their time to market and to create clear competitive advantages through products such as high-performance open computer platforms and systems, single board computers, HMIs, and mobile computers. Kontron employs over 1,900 people worldwide with production facilities in Europe, North America, and the Asia-Pacific region. The company is listed on the German TecDAX 30 with the company symbol "KBC". Kontron is the only company based in Europe which has premier status in the Intel® Communications Alliance and, thus, has early access to leading Intel technologies and preferred engineering support. For more information about Kontron, visit the company's website: www.kontron.de.

► Corporate Offices

Europe, Middle East & Africa

Kontron AG
Oskar-von-Miller-Strasse 1
85386 Eching/Munich Germany

Tel.: +49 (0)8165/ 77-777
Fax: +49 (0)8165/ 77-279

sales@kontron.com

North America

Kontron America Corporate Office
14118 Stowe Dr
Poway, CA 92064-7147

Tel.: +1 (888) 294-4558
Fax: +1 (858) 677-0898

sales@us.kontron.com

Asia Pacific

Kontron Asia Inc.
4F, No. 415, Ti-Ding Blvd.,
Sec. 2, NeiHu District
Taipei, Taiwan 114
Tel: +886 2 2782 0201
Fax: +886 2 2782 7486

sales@kontron.com.tw

RTSoft

Exclusive Partner for Kontron
P.O. Box 158, Nikitinskaya, 3
105077 Moscow
Russian Federation
Tel: +7 095 7426828
Fax: +7 095 7426829

sales@rtsoft.msk

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