

NVisionGroup
ЭНВИЖН ГРУП

SUCCESS STORY
ABSOLUTE BANK

AUTOMATED SYSTEM OF SUPERVISORY CONTROL AND DATA ACQUISITION FOR DATA CENTER

ORGANIZATION PROFILE

NVision Group is a company that is uniquely focused to align the business of national companies with the power of best-in-class IT, networking and telecom solutions. Our professionals leverage leading-edge technologies and business experience to drive clients' business process improvements and increase the value of clients' investments in information technologies.

Key business benefits from NVision Group outstanding to corporate clients include top-quality of provided services, extensive experience of embodied projects and high level of professional knowledge and expertise. Headquartered in Moscow with its representative offices in Kazakhstan and Russian regional cities, as St-Petersburg, Novosibirsk, Nishniy Novgorod, today NVision Group unites 600 specialists with 250 certificates of worldwide vendors, including those companies that are presented in CIS uniquely by NVision Group. Vision Group join all its efforts, knowledge and practices to offer an optimum solution and professional services to clients. We are delivering high performance for clients' businesses for their gains and competitive market position.



Absolute bank was founded in 1993 and today it is part of one of the largest financial alliances in Europe – KBC Group. The bank has about 200.000 clients all over Russia, more than 17.000 of them are companies and enterprises. As a whole, Absolute bank's business dynamics noticeably takes the lead in the pace of development for the national bank sector.
To maintain this pace of development, NVision Group designs, builds and implements data centers (DC).

DC provides consolidated processing of information for the customer's business. Engineering systems are required to provide no-failure operations of the infrastructure equipment – such as power, air-conditioning and other support systems.

High demands are made for efficiency, reliability, fault-tolerance and service simplicity. An Automated System of supervisory control and data acquisition (AS) is installed to ensure the fulfillment of all these demands.

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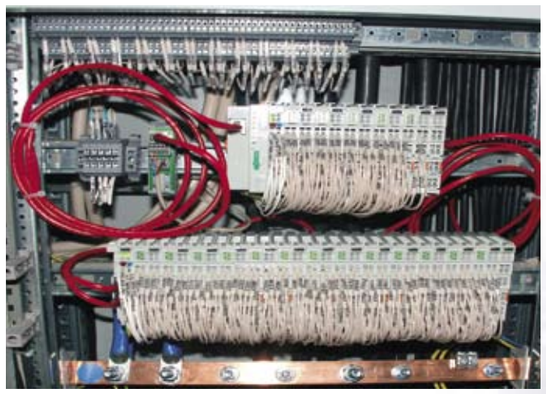
Temperature-humidity conditions in racks



THE SYSTEM SOLVES FOLLOWING TASKS:

- collecting information about engineering systems into a centralized database;
- real-time access to centralized information at automated workstations of supervisors;
- documenting and registration of the events concerning technological processes and equipment operation;
- processing and structuring of data on events that happened during operation of engineering systems;
- centralized documenting of the engineering systems' equipment;
- providing an efficient interaction of operational services, and planning of preventive and maintenance works.

Distributed collection of power system's parameters



SOLUTION:

Two main vendors were chosen to create the AS – Iconics inc. and WAGO Kontakttechnik GmbH & Co. KG.

Application of these vendors' products allows the reliable functioning of the system as a whole, which is the main consideration when selecting providers in the banking sector.

Equipment of product line WAGO-I/O-SYSTEM is applied in this project. Currently, all the necessary functions are accomplished in this equipment, such as modularity, compactness, support of actual standarts for automation, and the possession of valid Russian certificates of quality. Also, this equipment supports reliable operation with the SCADA system by use of OPC technology (OLE for Process Control).

Condition of DC's climatic system



The use of this technology in the supervising system has many advantages compared to alternative tools that support their own protocols. In particular, use of universal data format OPC allows to scale created solution quite easily.

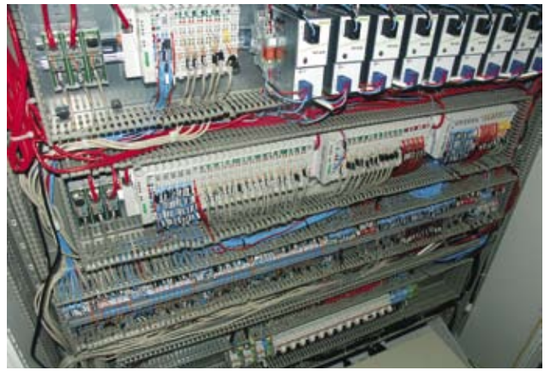
SCADA Genesis32 by Iconics Inc. is chosen for data aggregation and representation. Program products from the product line BizViz are used for data analysis.

SCADA Genesis32 consists of many server components that are responsible for data aggregation, transmission, tunneling and reservation as well as for alarm control components.

Centralized data management is carried out using these tools.

MS SQL Server appears in software installed on the data storage server.

Automation cabinet



SCADA Genesis32 includes visualization features by means of which it is possible to create a convenient interface for the supervisor. With its help the supervising crew has the ability to permanently control the current situation, to analyze events, and to take stock of equipment.

Software ReportWorx included in the package BizViz is used in this project. ReportWorx reports on events and parameters of the system in the form of Excel tables and provides it through the user's Intranet by means of web-interface. These reports are intended for senior service staff. Decisions regarding the DC's exploitation are taken on the basis of these reports.

Report by given parameter



In this project AS gets data about more than 1000 parameters and provides the necessary ability for management of engineering systems. In particular, the following vendors supplied engineering systems and technological equipment, as to guarantee the no-failure operation of DC: Liebert Hiross, ABB, Cummins, Pelco, Sontay, APC.

While the project was still in the implementation phase, Absolut Bank already ordered a similar system for their other location.

Monitoring of dictributed power supply



Provider of Visualization Software for Industrial Automation and Business Intelligence.

ICONICS has successfully deployed more than 225,000 solutions in over 60 countries worldwide. Its solutions meet diverse customer needs in a variety of industries including Automotive, Building Management, Food & Beverage, Oil/Gas/Petrochemical, Machine Builders, Pharmaceutical/Biotech, Security, Water/Wastewater, Utilities, Government Infrastructures and more.

WAGO is a family company headquartered in Minden, Germany that has been operating on the market independently for three generations and that has become an international trend-setting provider of electrical connecting and automation technology. WAGO is not only the market leader in the sector of spring clamp connection technology, but a number of our other many inventions have become standards in industry. We take on new challenges, take the lead in development and set new standards. That is why WAGO is synonomous with quality, dependability and innovation.