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➤ A Process Server for Oil Production APCS at Slavneft Megionneftegas pc

In order to improve efficiency of oil production processes, the management of Slavneft-Megionneftegas pc enterprise (Megion, Khanty-Mansiyski AD — Yugra) set a task to provide supervisory control of all oil production technological systems. RTSOft won a tender for realization of this task, and in the middle of 2003 engineers of the company started the implementation of a software complex, which provided output of process information from all oil production APCSs to the enterprise management level. The main purpose of the project, which was called "A process server for oil production APCS", was to create a tool to improve efficiency of oil production processes on the base of reliable and real-time process information from all extractive divisions of Slavneft-Megionneftegas pc. Implementation of the process server for oil production APCS provided transfer of real-time oil production data from technological APCS workstations to engineers, shop floor management, enterprise management, and integration with the enterprise recourses management system.



The process server for oil production APCS complex provides the following functions:

- centralized process data acquisition and storage in a common operational database with the purpose to use them in analyses;
- centralized supervisory control of oil production parameters;

- maintenance of electronic dispatcher's logbook and visualization of process objects' technological situation;
- preparation of operational summaries, monthly service reports and transfer to the individual services levels;
- technological APCS data interfacing with "Yield" system.

The complex includes:

- Wonderware's IndustrialSQL real-time database (real-time and process data acquisition and storage);
- engineer workstations (approximately 30 users);
- communication software (remote access to APCSs and telemetry systems);
- Web portal for client workstations.

The process server for oil production APCS is built upon modern open technologies. A customer can without any assistance adapt the complex to increasing informational demands of production departments and services, connect additional data sources, extend information capacity of the complex, duplicate real-time databases on the hardware and software layers, as well as improve usage of intranet/Internet for access to operational process and accounting data.

Participation of the engineers of automation department of Slavneft-Megionneftegas pc which completed training courses in the RTSOft's Training Center on all main software components and technologies in project realization helped realize the project in short terms.

Design and start-up works at Slavneft-Megionneftegas pc on implementation of process server were completed in the middle of 2004. Installation of this program complex at one of the leading enterprises of Slavneft oil and gas industrial complex was the next step in creation of effectively manageable oil production enterprise and became the solid foundation for future integration of different enterprise information and management systems into single management complex.

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.

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