



Success Story

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Industry: Oil and Gas

Customer: Transneft-Russian Pipeline
Tomsk, Russia



Transneft, a joint stock Russian Oil transport company and Russias largest oil pipeline company, manages the world's largest oil pipeline in the world. The pipeline extends from Siberia to the Baltic's, and encompasses over 30,000 miles (45,000 km) of oil pipe transporting 300 million tons of oil a year through the most severe environment on earth. The installation project involved installing over 400 pumping stations and 1000 holding tanks supplying 25 refineries.



ICONICS Software Deployed

ICONICS GENESIS32 with GraphWorX, TrendWorX and AlarmWorX. This suite of software tools is running on over 350 networked PC's for the application of monitoring over 187,000 tags. This is the world's largest PC based SCADA and dispatch system. The application has won Microsoft's "Windows World Open" Award.

**GraphWorX32 Screen:
Pipeline Control**



Russian Pipeline

Key Features

The ICONICS GENESIS32 System was installed by the Systems Integration company Elesy. The Software System monitors the operation of 2000 PLC's, 400 Pumping Stations with 1000 Tasks in 150 Tank Farms. Transneft uses TCP/IP with Satellite Earth links to collect and transmit status data.

Tip From the Customer

Transneft selected ICONICS GENESIS32 Software Suite of products due to its openness and use of OPC to-the-core technology.

Project Summary



Oil Rig Pump Station

GENESIS32 software has been deployed to monitor and control the Trans-Russian Oil Pipeline System. Transneft is responsible for transporting 99.5% of all the oil used in Russia. The system supplies 32 different refineries with their daily crude oil and provides both Europe and China with oil products.

Details

ICONICS GENESIS32 Software is monitoring the 400 pumping stations, as well as 900 large oil tanks in 100 different tank farms along the extensive pipeline. To provide the centralized dispatch and SCADA system for this project, Transneft is using 350 ordinary P733 PC's running Microsoft Windows NT™ and Windows 2000™. There are over 187,000 digital and analog tags communicating over Microwave, land telephone lines and 20 Satellite earth links using standard TCP/IP protocol. The 1,500 operator screens required to operate the pipeline have an average response time from any point in the system from between three to five seconds.

The system is using ICONICS GENESIS32 HMI and SCADA software, off the shelf PC automation technology, 2000 PLC's and Microsoft Windows NT and 2000 operating systems. GENESIS 32 is WEB enabled and its thin client/server architecture integrates seamlessly with Intranet and Internet based large network applications.



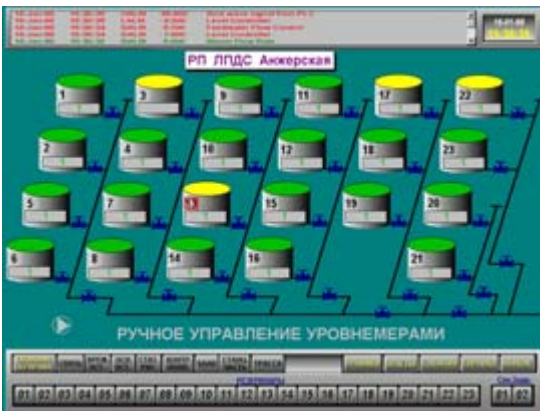
Pipeline Station Overview

Benefits of the System

The primary benefit that Transneft has had with the installed ICONICS GENESIS32 system is the substantial reduction in time in leakage detection and the dispatching of a repair solution.

Conclusion

ICONICS has worked closely and successfully with Transneft and Eley to make this Oil Pipeline management project successful in every aspect. Transneft participates in the ICONICS Large End-User Support and Maintenance program to keep their software updated.



Tank Farm Overview