



# IGSS for Telecommunication Room Remote Control



<b>Customer</b>
GOLDEN TELECOM INC.
<b>Country</b>
Ukraine
<b>Industry</b>
Phone & Data Communications
<b>System Integrator</b>
SOLITON
<b>IGSS Application</b>
1,500 objects 5 operator stations
<b>Data</b>
<b>Number of subscribers</b>
65,000
<b>Number of transceiver stations</b>
150
<b>Turnover</b>
More than 10 billion \$
<b>2nd Largest Telecommunications Provider in Eastern Europe</b>
<b>Position 21 in World Top 30 Mobile Network Operators</b>

**GOLDEN TELECOM INC.** provides a wide variety of telecommunication services in Ukraine. The company has a huge number of GSM transceiver stations located across the country.

With the large number of transceiver stations, it is vital to have correct status information and control 24 hours a day. This places heavy demands on the SCADA system's response time and data processing reliability. IGSS accommodates both of these requirements. It monitors the stations themselves and also controls and monitors transceiver equipment.

## The Challenge

### Controlling 150 Distributed Stations

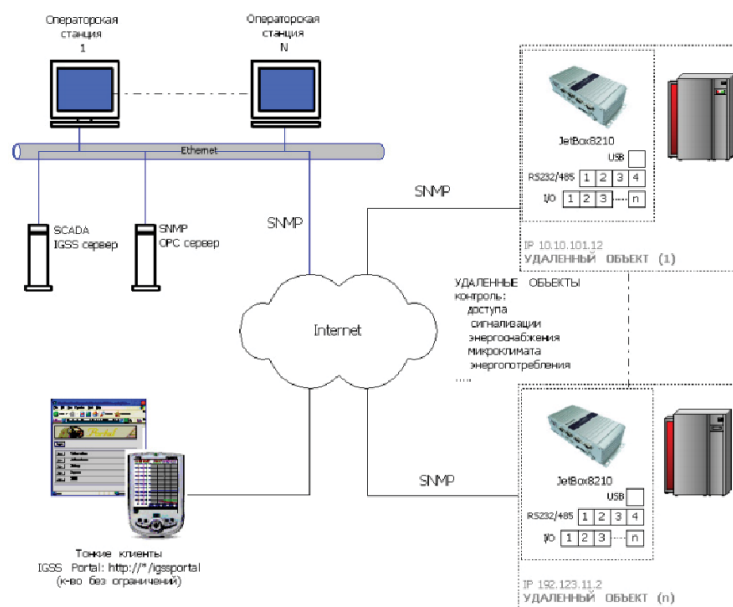
GOLDEN TELECOM INC is an Ukrainian operator of telecommunication services for corporate and mobile operator companies. Currently GOLDEN TELECOM INC. is a part of BEELINE, Russia's second largest telecommunication services provider with more than 65,000 subscribers.

Approximately 150 transceiver stations are located in various parts of Ukraine. They must have 100% reliable data acquisition in order to provide high quality telecommunication services to the end users, maximize equipment lifetime and minimize possible operation breakdowns.

## The Solution

### Scalable IGSS System

The system was developed on the basis of the standard data transition protocol SNMP (Simple Network Management Protocol) with data communication via Ethernet. On the process control level, Korenix JetBox 8210 modules with the real time OS Windows CE was used. These modules come with a large Input/Output Port selection (16 digital inputs, 16 digital outputs, 4 serial ports, USB, Ethernet) which facilitates linking them with the huge number of transceiver stations equipment. IGSS is used for data collection, analysis, logging and visualization.



„We are extremely satisfied with the results we have achieved by using this system. It allowed us to bring the services which we provide for our customers to a new level. We have also reduced our power consumption significantly as well as gaining simplicity in equipment maintenance for personnel.“

Senior Engineer at  
GOLDEN TELECOM INC.

#### The Result

### Centralized Control

By implementing the IGSS solution, GOLDEN TELECOM INC. has secured centralized control of transceiver stations 24 hours a day.

It significantly increased the quality of telecommunication services provided for the end user. At the same time it improved the utilization of the resources available.

Furthermore the flexibility of the system and the logging of communication data represents advantages gained by the implementation.

#### The Future

### More stations to be automated

Inspired by the success of this system integration, GOLDEN TELECOM INC. plans to automate the remaining 1500+ transceiver stations.