

## CUSTOMER SUCCESS STORY

**CUSTOMER:** POWER UTILITY SERVICE PROVIDER FOR MUNICIPAL AND PRIVATE UTILITIES, USA  
**INDUSTRY:** UTILITIES  
**REGION:** UNITED STATES  
**PRODUCT:** iSG18GFP

### THE CHALLENGE

The Utility, located in a non-disclosed location in the United States, was looking for secure wireless SCADA communications between their substations and their Control Center.

### THE SOLUTION

To solve this problem, iS5 Communications provided a secure cellular communications network with both SCADA Firewall and Role Based Access control. The iS5Com iSG18GFP was implemented at various remote substations within the Utility's network and their Control Center. The iSG18GFP is a powerful Compact Service-Aware Ethernet switch designed with a specialized packet processing application-aware engine built for critical industrial applications. It can provide any remote critical site with robust cybersecurity protection whilst providing a variety of services including:

- Routing
- Cellular LTE 4G dual SIM support
- Power Over Ethernet (POE)
- Deep Packet Inspection (DPI), SCADA firewall
- Role Based Authentication Controls (RBAC)
- Secure Dynamic Multi-path Virtual Private Network (DMVPN) connectivity
- Serial to Ethernet Gateway
- iDMS Windows Management Software

The iSG18GFP is a natural fit for installations such as LV/MV transformer sites acting as a secure access point for the Distributed Automation control of remote sites.

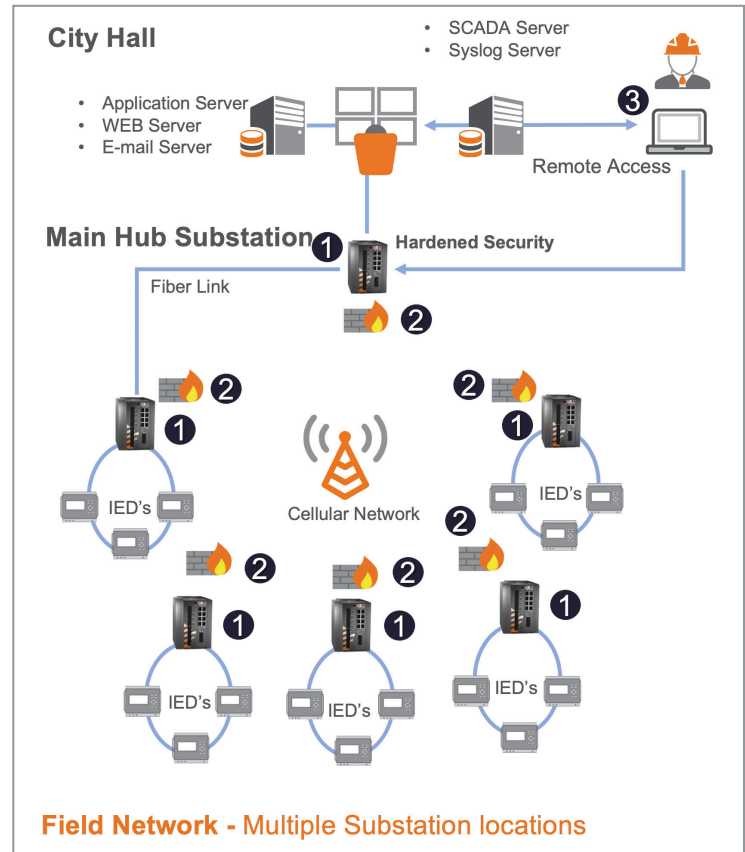
**1 Implemented Secure Gateway Devices at all locations**

**2 SCADA Firewall with DPI**

Analyzed SCADA traffic and blocking abnormal activities: IEC104, Modbus, DNP3 controls.

**3 Enabled RBAC controls using APA (Authentication Proxy Access)**

Authenticated engineers to access substation assets (IEDs) while controlling, monitoring, and logging time and changes through their redundant Cellular Network.



## BENEFITS

- **Protected monitoring** of IED equipment by EMS/SCADA systems
- **Secured** internal network from attacks
- **Ongoing reporting** of security events for analysis & response

## ABOUT iS5 COMMUNICATIONS INC.

iS5 Communications Inc. (“iS5Com”) is a global provider of integrated services and solutions, and manufacturer of intelligent Industrial Ethernet products. Our products are designed to meet the stringent demand requirements of utility sub-stations, roadside transportation, rail, and industrial applications. iS5Com’s services and products are key enablers of advanced technology implementation such as the Smart Grid, Intelligent Transportation Systems, Intelligent Oil Field, and Internet of Things. All products have the ability to transmit data efficiently without the loss of any packets under harsh environments and EMI conditions.



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