

SECURE SMART FEATURES:

Ground-breaking sensor technology for utility security monitoring

24x7 sensor-based smart grid security monitoring

Cyber threat analysis and intrusion detection

First-of-its-kind technology

Faster and less costly than dedicated security operation center

Secure. Efficient. Reliable.

IOT: SMARTER SOLUTIONS FOR A SMARTER GRID

The Challenge: Security for increasingly connected utility networks

The recent deployment of smart meter and distribution automation networks has created large, increasingly integrated and complex utility networks with millions of active endpoints. Utilities lack the means to effectively monitor and detect security anomalies and intrusion in their Smart Grid networks.

A large energy utility in the early stages of a major smart meter deployment needed to assess the security of its Advanced Meter Infrastructure (AMI). Specifically, the field area network infrastructure, which consisted of dual band wireless access points, relays and embedded smart meter hardware, posed a new set of security challenges. It used a proprietary, wireless mesh networking technology and there was no traditional means to access, monitor or interface with the network.



The Solution: Agile sensor-based security monitoring

The utility turned to Vencore Labs to research and develop a novel sensor-based security monitoring solution that uses first-of-its-kind technology. The multi-disciplinary team of veteran security experts approached this challenge directly and comprehensively by validating the security controls and identifying potential vulnerabilities through the innovation of new test methods, test equipment and custom-developed software and hardware tools. In the end, Vencore Labs bundled the technology, infrastructure, applications and cyber threat analysis services into SecureSmart™, an agile Managed Security Service.

The Results: Security. Efficiency. Reliability.

Currently in use, SecureSmart is integral to the utility's processes and operations to support their Smart Grid. SecureSmart delivers security compliance faster and is less costly than a dedicated Smart Grid cyber security operation center. Around the clock monitoring and intrusion detection, daily cyber threat analysis and anomaly investigation services improves their situational awareness. This support has allowed the utility to design and deploy new network technologies, optimize its operations, and properly secure them—leading to a more secure, efficient, and reliable utility network.