Electric Power and Gas Company Deploys the World's Largest Network Anomaly Detection Project

With more than 3 million customers, one of the largest utilities in the US has deployed eyeInspect to enhance the cyber resilience of their industrial control system networks.

THE OBJECTIVE

Implement a situational awareness and anomaly detection technology to assist in mitigating rising internal and external risks to their ICS/SCADA networks.

THE CHALLENGE

Monitor the utility's entire infrastructure, including electric power and gas generation, transmission and distribution facilities. The utility performed a lengthy selection and evaluation process:

More than 25 companies responded to the RFP.

Four solutions were selected for an onsite proof of concept for testing of advanced use cases and threat scenarios.

eyeInspect's capabilities and maturity exceeded all competitors.

THE SOLUTION

1

eyeInspect was deployed in four power generation plants, two distribution control centers, two transmission control centers, two 20+ MW battery storage sites, and six substations.

2

In 2018 the utility further extended the deployment to the remaining substations and gas infrastructure.

3

eyeInspect is fully integrated into the company's security information and event management (SIEM) system and monitored by their Security Operations Center (SOC).

THE RESULTS

In the first weeks of the project, eyeInspect revealed some critical threats and flaws that could have had serious impact on the customer's operations. Some examples include:

Non-production devices communicating with production SCADA devices

SCADA master misconfigurations resulting in RTUs not processing commands properly

Malfunctioning RTUs resulting in reduced SCADA process visibility and control

Network switch misconfigurations resulting in devices residing on incorrect network segments

Identification of violations to internal cybersecurity policies and practices

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