Wastewater Plant
Quickly Secures Critical Remote Facility

"AutomaTech helped us configure and deploy the initial system and we know they'll continue to support MCUA in our automation projects. With AutomaTech's recommendation of OTfuse from Bayshore Networks, our automation engineers configured the devices and can maintain them with ease."

Kevin Davis
Chief Technology Officer, MCUA

Oftentimes, OTfuse can be installed within an hour or less.

OTfuse™
INDUSTRIAL SECURITY APPLIANCE

Overview

Middlesex County Utilities Authority (MCUA), responsible for management of wastewater and solid waste services in Central New Jersey, identified a Critical Remote Facility in need of sophisticated Industrial Cyber Security protection. This remote location leverages a modernized control system with firewalled internet access.

Challenge

Even with VPN and firewall infrastructure in place between the Critical Remote Facility and Central Treatment Plant, MCUA wanted to ensure the Critical Remote Facility's network was protected.

MCUA needed a Cyber Security platform to detect and block unauthorized traffic.

Initially, MCUA selected a different cyber security supplier, but found the product was too complicated to configure, which meant MCUA couldn't quickly and easily install it without extensive network reconfiguration and expertise.
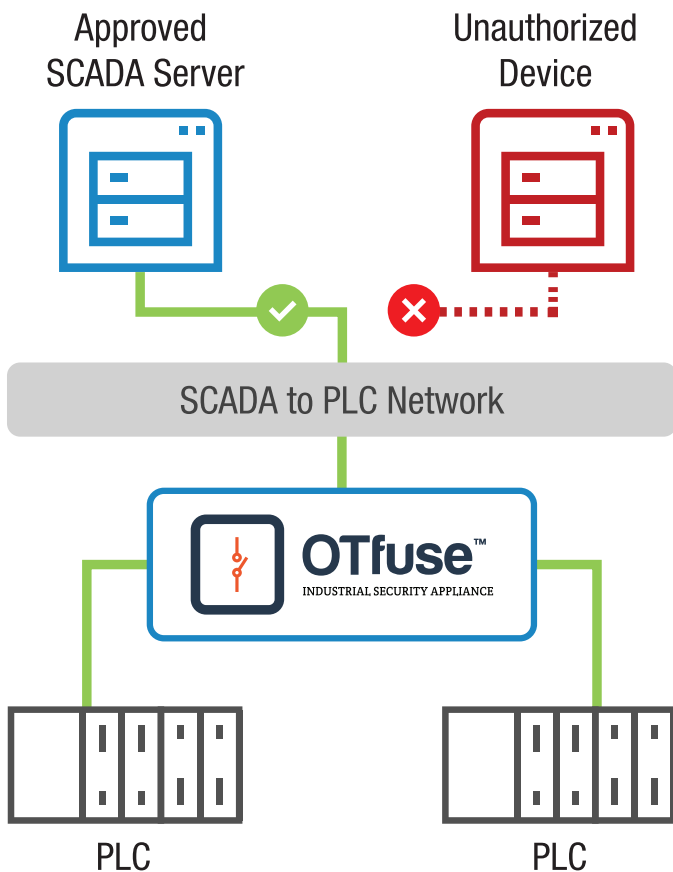
Solution

AutomaTech provided a simple, easy-to-understand Industrial Cyber Security platform that was able to be rapidly deployed into MCUA's existing infrastructure: the Bayshore Networks OTfuse.

OTfuse offers turnkey protection of PLCs, HMI/SCADA, and critical operations technology against unauthorized use, dangerous instructions and activities, and remote hostile takeovers. The fully self-contained system doesn't require any re-addressing of the network and features a bypass port pair for data in/out.
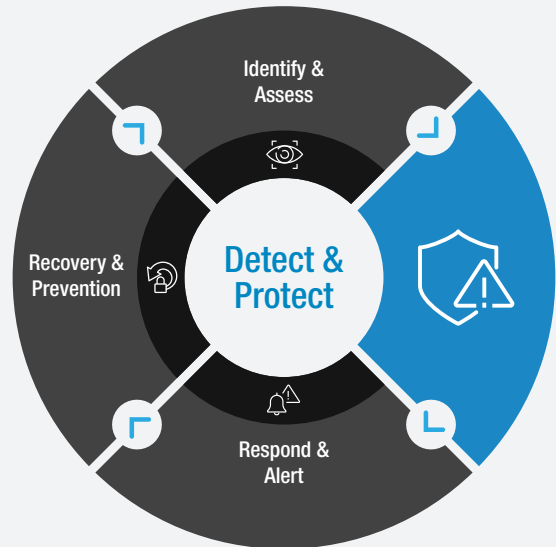
Results

AutomaTech helped MCUA understand the technical capabilities of OTfuse and how it would address their challenges. OTfuse was so easy to install that MCUA didn't need to involve their IT department during installation.

OTfuse has met MCUA's expectations of monitoring, identifying, and capturing unauthorized access attempts – alerting Operations personnel if any threats arise. During periodic testing to ensure the system is running correctly, OTfuse has passed with flying colors.

Approved SCADA Server

Unauthorized Device

SCADA to PLC Network

OTfuse™
INDUSTRIAL SECURITY APPLIANCE

PLC

PLC

Identify & Assess

Recovery & Prevention

Detect & Protect

Respond & Alert

Foundations of Cyber Security

Effective industrial cyber security is accomplished by balancing exposure to risks against cost of mitigation and implementing appropriate countermeasures. However, cyber security is a continuous process. You should always be moving through these cyber security foundations:

Identify and Assess helps you understand vulnerabilities, threats, impacts, and effectiveness of security. **Detect and Protect** boosts security measures and detects attacks before they happen. **Respond and Alert** allows you to quickly respond and mitigate threats before becoming a problem. **Recovery and Prevention** builds a foundation to quickly recover and get back up and running again.

Want to learn more?
Reach out to our team.

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