

CASE STUDY: ENHANCING VISIBILITY & SECURE DATA MOVEMENT

THE GENESEE COUNTY DRAIN COMMISSIONER
DIVISION OF WATER & WASTE SERVICES



OVERVIEW

The Genesee County Drain Commissioner Division of Water & Waste Services (GCDCWWS) recognized the need for greater visibility across its SCADA and business systems—without compromising security or operational performance. With over 150 remote water and wastewater pumping and storage sites, two wastewater plants, and one water treatment plant, GCDCWWS manages one of the most complex water and wastewater infrastructures in the region.

Through extensive research and peer implementation reviews, GCDCWWS selected DYNICS to meet these critical requirements.

"As a water and wastewater utility, OT cybersecurity is one of the highest priorities." Said former Chief Technology Officer, Jerod Asbridge. "We needed to ensure that we were providing safe, efficient, and accountable services to our customers. We believe that the DYNICS solution was a key component in meeting those goals."



THE CHALLENGE

As their operational footprint expanded, GCDCWWS faced increasing challenges in managing distributed control systems across the county. Traditional network segmentation limited visibility between IT and OT environments, while cybersecurity requirements from EPA-led assessments, ISA/IEC 62443, and NIST SP 800-82 Rev. 3 created additional complexity.

The organization needed a secure, reliable, and standards-aligned method to:

- Simplify visibility and access across remote & centralized sites
- Protect critical OT systems without limiting functionality
- Enable data sharing between operational and business systems for improved decision-making

THE SOLUTION

To address these challenges, GCDCWWS deployed DYNICS' ICS360.Defender, creating a secure bridge between traditionally isolated IT and OT systems. ICS360.Defender provides deep visibility, fine-grained control, and threat protection purpose-built for industrial networks; helping GCDCWWS strengthen its cybersecurity posture while maintaining operational uptime.

The collaboration with DYNICS extends beyond cybersecurity. With DYNICS' "whatever we can do to help" philosophy, the partnership continues to grow as GCDCWWS expands its strategy to include:

- **OT-SDN Controller:** delivering centralized control, configuration, and segmentation of network assets
- **ICS360.Fusion:** enabling fast, efficient, and secure data movement from OT to IT, supporting real-time analytics, reporting, and business intelligence

"We believe that the functionality of the OT-SDN Controller and ICS360.Fusion solutions will greatly expand our capability to manage, update, configure, secure, and monitor network assets, while improving how we move and use our data across the organization!"

THE RESULTS

Through DYNICS' ICS360 platform and ongoing collaboration, GCDCWWS is achieving measurable improvements in both visibility and operational efficiency:

- **Enhanced Security Posture:** Aligned with EPA, ISA/IEC 62443, and NIST standards
- **Improved Network Visibility:** Secure insight into OT and IT environments
- **Streamlined Data Flow:** ICS360.Fusion accelerates information sharing between systems
- **Operational Efficiency:** Reduced complexity managing 150+ remote sites
- **Future-Ready Architecture:** Positioned for evolving cybersecurity and data requirements

About DYNICS

DYNICS delivers innovative solutions for industrial cybersecurity, data movement, and visualization. With decades of OT experience and a deep understanding of IT integration, DYNICS' ICS360 platform enables safe, efficient, and intelligent operations across industrial environments.