Safely Transmitting Cybersecurity Data in Critical Infrastructure Environments

THE CHALLENGE

Safely identifying, monitoring, and managing assets in operational technology environments can be extremely difficult. The data these assets provide and how they interact with typical IT monitoring tools can often cause issues with the stability of the environment. Safety and reliability are concerns for operations teams and adding additional components into the environment introduces risk.

The large number of control system/OT devices and the complexity of configurations within a typical industrial enterprise make it difficult to develop an accurate picture of what is changing within operational technology infrastructures and why. Add in the mandate for critical control systems to be located deep in protective network architectures and this complexity becomes an even more challenging problem.

Joint Solution Benefits

- Safe IT/OT Integration
- Impassable Hardware-Enforced Barriers to Cyber Attacks
- Configuration Change Management
- Security Event Monitoring
- Vulnerability Monitoring
- Compatible with All Industrial Environments
A JOINT SOLUTION: WATERFALL + INDUSTRIAL DEFENDER

Industrial Defender and Waterfall Security Solutions have partnered to deliver an industry-leading security solution to address these challenges. The integration of Industrial Defender ASM and Waterfall Unidirectional Gateways is enabled through a propriety system that safely passes ASM data from monitored assets through Waterfall’s Unidirectional Security Gateways.

Protecting OT networks with Waterfall devices, while monitoring for configuration changes, security events and vulnerabilities with Industrial Defender ASM, gives critical infrastructure organizations safe, real-time visibility into mission critical assets and network settings. Comprehensive security and compliance data are delivered in a single platform, without violating the unidirectional data flows required in critical environments.

JOINT SOLUTION COMPONENTS

ASM, Unidirectional Security Gateway, Waterfall for IDS

Joint Use Cases

Secure, Compliant OT Asset Data Transmission
Industrial Defender ASM periodically collects configuration data (Firmware, Software, Ports, Services, Firewall Rules, Users) from ICS devices and monitors the devices for changes. In addition to configuration data, ASM can monitor security events generated by Waterfall devices. This information is sent safely and unidirectionally to our ASM for real-time analysis of how OT devices are changing, who changed them, and whether they are vulnerable to cyberattacks.

Safe Transfer of OT Network Data to Security Teams
OT network data is packaged and safely transmitted through Unidirectional Gateways, where ultimately it arrives at the ASM where security teams can correlate security events with configuration changes to get real-time visibility into how your critical infrastructure is changing, who changed it and if you are exposed to vulnerabilities.

Reference Architecture
THE INDUSTRIAL DEFENDER DIFFERENCE

Since 2006, Industrial Defender has been solving the challenge of safely collecting, monitoring, and managing OT asset data at scale, while providing cross-functional teams with a unified view of security. Their specialized solution is tailored to complex industrial control system environments by engineers with decades of hands-on OT experience. Easy integrations into the broader security and enterprise ecosystem empower IT teams with the same visibility, access, and situational awareness that they’re accustomed to on corporate networks. They secure some of the largest critical control system deployments with vendors such as GE, Honeywell, ABB, Siemens, Schneider Electric, Yokogawa and others to protect the availability and safety of these systems, simplify standards and regulatory requirements, and unite OT and IT teams.

ABOUT WATERFALL SECURITY SOLUTIONS

Waterfall Security Solutions is the OT security company, producing a family of Unidirectional Gateway technologies and products that enable safe IT/OT integration, enterprise-wide visibility into operations, and disciplined control. The company’s growing list of customers includes national infrastructures, power plants, nuclear plants, off-shore and on-shore oil and gas facilities, manufacturing plants, power, gas and water utilities, and many more. Deployed throughout North America, Europe, the Middle East and Asia, Waterfall products support the widest range of leading industrial remote monitoring platforms, applications, databases and protocols in the market. For more information, visit www.waterfall-security.com.

FOR MORE INFORMATION

SCHEDULE A DEMO OF OUR JOINT SOLUTION

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